

CERTIFIED TEST REPORT No. LSI

25407

ENLUX LIGHTING - OUTDOOR AREA LUMINAIRE - 6K SERIES, CAT# 614803 4500K
WITH WHITE INTERIORS AND PLASTIC SAG LENSES
16 LED ARRAYS. LUMINAIRE OUTPUT: 9809 Lms.
OPERATING AT 120 VAC AND 177 WATTS

IESNA CUTOFF CLASSIFICATION: FULL CUTOFF

PREPARED FOR:

CERTIFIED BY:

ENLUX LIGHTING
TEMPE, AZ

.60 JUN 2, 2009 4.65 4.87□1 4.70 4.88□1 4.75 4.88□1

LABORATORY RESULTS MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
BALLAST FACTORS HAVE NOT BEEN APPLIED

TESTED IN 30 PLANES LEFT SIDE, 30 PLANES RIGHT SIDE, LEFT AND RIGHT AVERAGED

VERTICAL TEST INCREMENTS ARE 2.5 DEGREES.

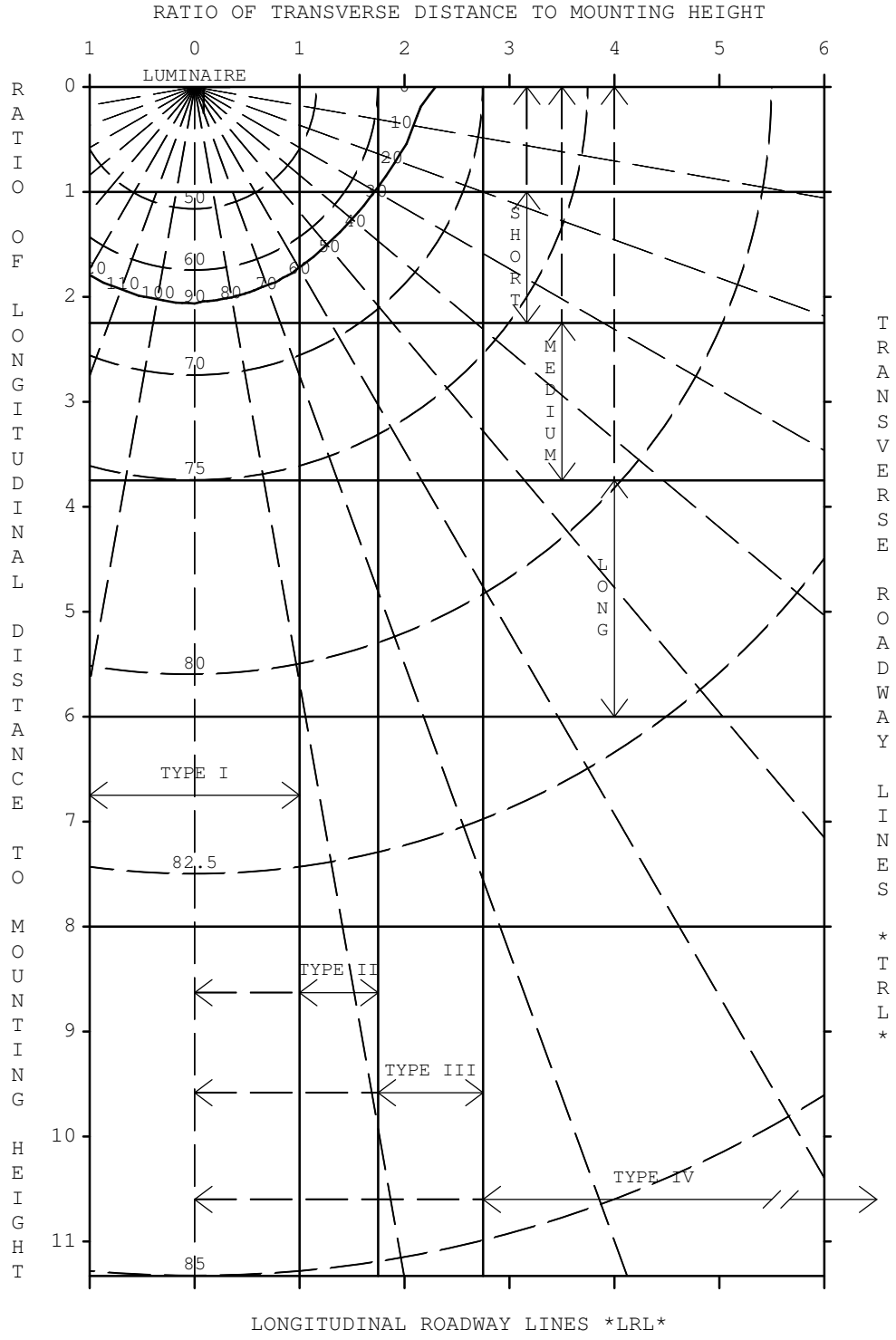
TEST DISTANCE EXCEEDS FIVE TIMES THE GREATEST
LUMINOUS OPENING OF LUMINAIRE.

LIGHTING SCIENCES, INC.

7826 E. EVANS RD.
SCOTTSDALE, AZ, USA 85260

CERTIFIED TEST REPORT NO.25407

ENLUX LIGHTING - OUTDOOR AREA LUMINAIRE - 6K SERIES, CAT# 614803 4500K
WITH WHITE INTERIORS AND PLASTIC SAG LENSES
16 LED ARRAYS. LUMINAIRE OUTPUT: 9809 Lms.
OPERATING AT 120 VAC AND 177 WATTS



NOTE:
CONTOUR LINE
IS FOR 50%
OF THE MAXIMUM
INTENSITY

IES ROADWAY CLASSIFICATION: TYPE III, VERY SHORT

LIGHTING SCIENCES, INC.
7826 E. EVANS RD.
SCOTTSDALE, AZ, USA 85260

CERTIFIED TEST REPORT No. LSI 25407

ENLUX LIGHTING - OUTDOOR AREA LUMINAIRE - 6K SERIES, CAT# 614803 4500K
WITH WHITE INTERIORS AND PLASTIC SAG LENSES
16 LED ARRAYS. LUMINAIRE OUTPUT: 9809 Lms.
OPERATING AT 120 VAC AND 177 WATTS

*** THIS IS AN ABSOLUTE TEST REPORT ***

UTILIZATION TABLE

CO-EFFICIENT OF UTILIZATION

RATIO	HOUSE SIDE	STREET SIDE	TOTAL
0.5	0.219	0.218	0.436
1.0	0.353	0.351	0.704
1.5	0.421	0.416	0.837
2.0	0.455	0.448	0.904
2.5	0.474	0.466	0.939
3.0	0.483	0.474	0.958
3.5	0.491	0.481	0.971
4.0	0.494	0.484	0.977
5.0	0.499	0.489	0.988
TOTAL:	0.507	0.493	1.000

PERCENTAGE OUTPUTS

DOWNWARD:	STREET SIDE =	49.3%
	HOUSE SIDE =	50.7%
	TOTAL =	100.0%
UPWARD:	STREET SIDE =	0.0%
	HOUSE SIDE =	0.0%
	TOTAL =	0.0%

EFFICACY (LUMENS PER WATT) 55.4

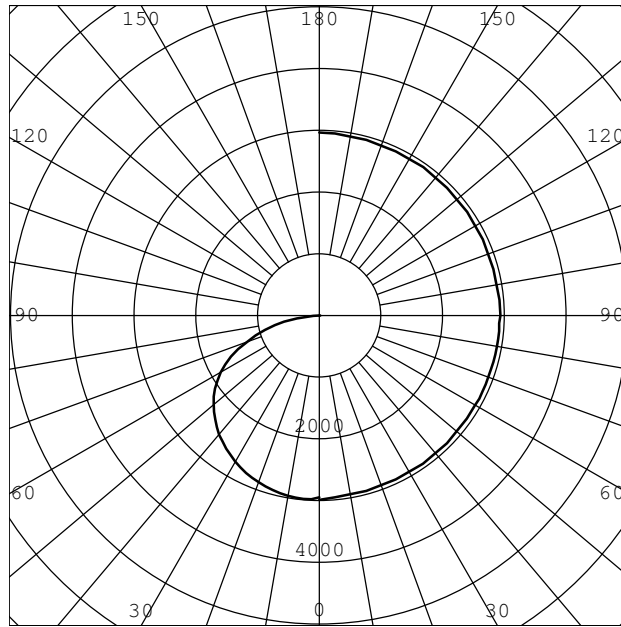
THE ABOVE COEFFICIENTS HAVE BEEN CALCULATED BASED ON LUMINAIRE LUMENS
BECAUSE IN AN ABSOLUTE TEST THE BARE LAMP LUMENS ARE UNKNOWN.
LIGHTING DESIGN CALCULATIONS MADE USING THESE COEFFICIENTS SHOULD
THEREFORE USE THE LUMINAIRE LUMENS IN THE CALCULATION FORMULA

INTENSITY (CANDLEPOWER)
IN MAX. PLANE

INTENSITY (CANDLEPOWER)
IN MAX. CONE

ANGLE	CANDLEPOWER
0.0	2945
5.0	2985
10.0	2966
15.0	2927
20.0	2877
25.0	2816
30.0	2732
35.0	2635
40.0	2524
45.0	2393
50.0	2240
52.5	2156
55.0	2064
57.5	1959
60.0	1847
62.5	1721
65.0	1580
67.5	1426
70.0	1247
72.5	1084
75.0	912
77.5	743
80.0	583
82.5	370
85.0	106
87.5	15
90.0	0
95.0	0
105.0	0
115.0	0
125.0	0
135.0	0
145.0	0
155.0	0
165.0	0
175.0	0
180.0	0

ANGLE	CANDLEPOWER
0.0	2985
5.0	2963
15.0	2944
25.0	2935
35.0	2935
45.0	2929
55.0	2921
60.0	2916
62.5	2925
65.0	2919
67.5	2920
70.0	2913
72.5	2917
75.0	2925
77.5	2925
80.0	2922
82.5	2926
85.0	2930
87.5	2921
90.0	2935
95.0	2934
105.0	2924
115.0	2924
125.0	2928
135.0	2928
145.0	2938
155.0	2941
165.0	2952
175.0	2968
180.0	2968



MAXIMUM INTENSITY (CANDLEPOWER) : 2985 CD
 PLANE OF MAXIMUM: 0.0
 VERTICAL ANGLE OF MAXIMUM: 5.0

ENLUX LIGHTING - OUTDOOR AREA LUMINAIRE - 6K SERIES, CAT# 614803 4500K
 WITH WHITE INTERIORS AND PLASTIC SAG LENSES
 16 LED ARRAYS. LUMINAIRE OUTPUT: 9809 Lms.
 OPERATING AT 120 VAC AND 177 WATTS

INTENSITY (CANDLEPOWER) SUMMARY

VERT. ANGLE	HORIZONTAL ANGLES - STREET SIDE									
	0.0	5.0	15.0	25.0	35.0	45.0	55.0	65.0	75.0	85.0

0.0	2945	2945	2945	2945	2945	2945	2945	2945	2945	2945
5.0**	2985	2963	2944	2935	2935	2929	2921	2919	2925	2930
10.0	2966	2945	2930	2918	2917	2911	2907	2903	2909	2918
15.0	2927	2909	2901	2885	2882	2872	2868	2878	2883	2889
20.0	2877	2856	2849	2827	2828	2817	2809	2818	2826	2831
25.0	2816	2785	2775	2755	2756	2739	2738	2753	2758	2767
30.0	2732	2690	2687	2666	2667	2652	2648	2662	2665	2677
35.0	2635	2594	2580	2556	2556	2541	2535	2549	2548	2566
40.0	2524	2473	2464	2432	2430	2418	2416	2424	2431	2440
45.0	2393	2339	2332	2298	2290	2274	2276	2286	2294	2304
50.0	2240	2191	2167	2123	2104	2092	2104	2123	2139	2146
55.0	2064	2008	1968	1917	1891	1884	1896	1919	1945	1960
60.0	1847	1780	1732	1679	1654	1644	1660	1681	1707	1721
65.0	1580	1504	1459	1412	1388	1380	1387	1402	1415	1427
70.0	1247	1167	1125	1105	1093	1077	1075	1067	1050	1039
75.0	912	829	782	764	739	694	656	597	531	483
80.0	583	510	484	429	346	285	247	195	128	65
85.0	106	128	145	74	91	53	31	22	18	15
90.0	0	0	0	0	0	0	0	0	0	0

VERT. ANGLE	HORIZONTAL ANGLES - HOUSE SIDE										
	90.0	95.0	105.0	115.0	125.0	135.0	145.0	155.0	165.0	175.0	180.0
0.0	2945	2945	2945	2945	2945	2945	2945	2945	2945	2945	2945
5.0**	2935	2934	2924	2924	2928	2928	2938	2941	2952	2968	2968
10.0	2921	2920	2911	2909	2905	2901	2914	2919	2930	2953	2946
15.0	2893	2884	2875	2875	2872	2875	2887	2892	2903	2918	2917
20.0	2837	2828	2825	2824	2825	2826	2838	2849	2861	2874	2872
25.0	2772	2762	2761	2762	2760	2758	2771	2780	2792	2813	2809
30.0	2680	2676	2674	2674	2669	2667	2688	2696	2710	2736	2729
35.0	2571	2564	2559	2566	2561	2556	2582	2589	2612	2640	2626
40.0	2444	2441	2432	2440	2436	2438	2460	2470	2499	2528	2502
45.0	2311	2304	2291	2302	2303	2304	2325	2333	2373	2404	2383
50.0	2158	2149	2141	2144	2134	2134	2156	2178	2229	2260	2240
55.0	1970	1963	1956	1944	1930	1921	1953	1974	2039	2085	2054
60.0	1732	1730	1726	1716	1712	1702	1724	1752	1814	1867	1834
65.0	1439	1440	1437	1436	1441	1439	1462	1492	1548	1605	1557
70.0	1049	1056	1082	1108	1134	1146	1175	1196	1223	1278	1214
75.0	485	502	569	650	725	787	826	857	880	933	870
80.0	53	67	139	222	294	354	432	512	557	592	547
85.0	14	15	21	36	62	103	154	149	256	216	67
90.0	0	0	0	0	0	0	0	0	0	0	0

** DENOTES VERTICAL ANGLE OF MAXIMUM CONE

**** DENOTES LATERAL ANGLE OF MAXIMUM PLANE

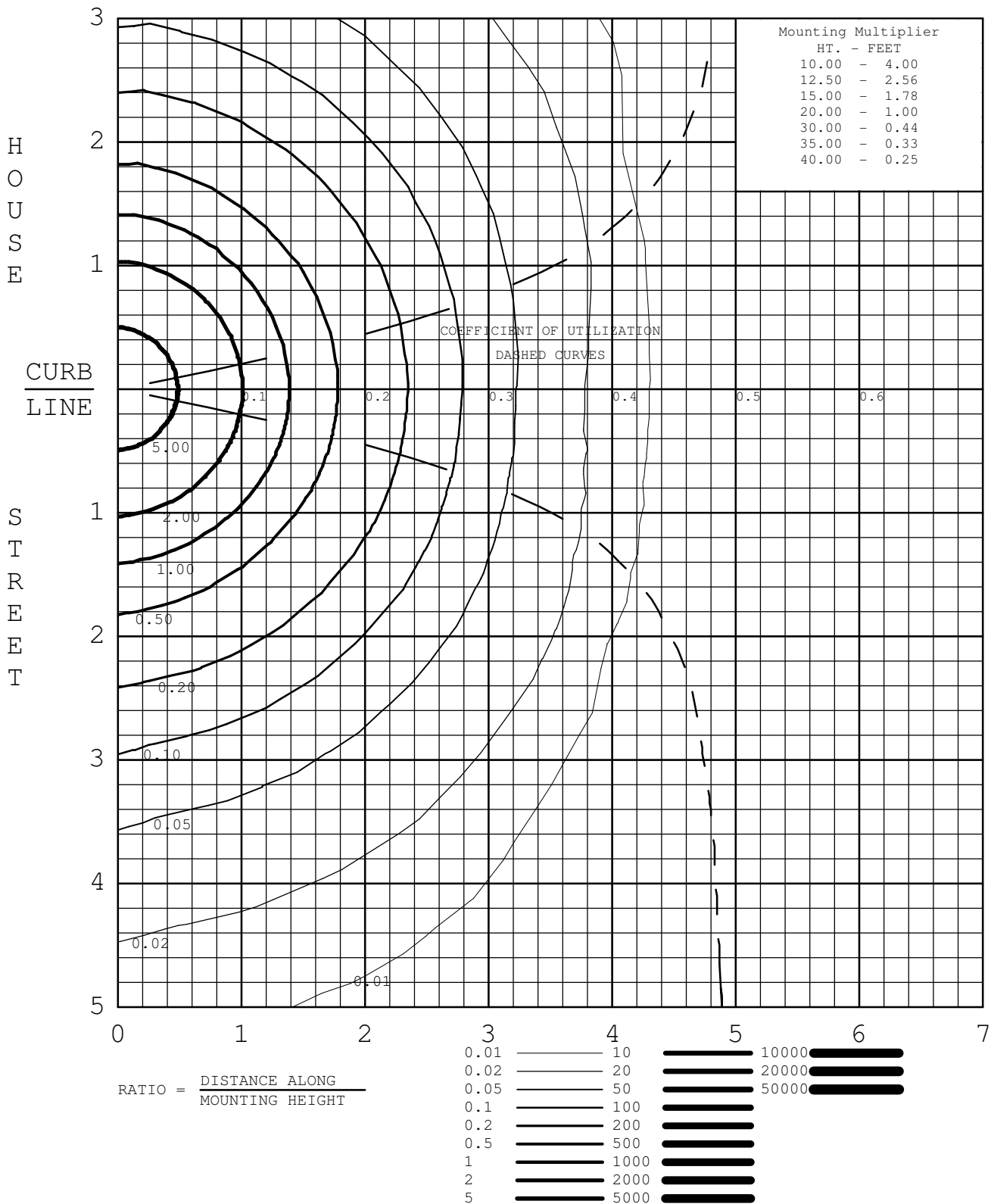
INTENSITY WAS MEASURED IN 2.5 DEGREE STEPS - TABULATIONS ARE AVAILABLE

ISOFOOTCANDLE

CERTIFIED TEST REPORT NO.25407

ENLUX LIGHTING - OUTDOOR AREA LUMINAIRE - 6K SERIES, CAT# 614803 4500K
 WITH WHITE INTERIORS AND PLASTIC SAG LENSES
 16 LED ARRAYS. LUMINAIRE OUTPUT: 9809 Lms.
 OPERATING AT 120 VAC AND 177 WATTS

MOUNTING HEIGHT FOR ISOFC 20.0 FEET



** ILLUMINANCE (FOOTCANDLE) TABLE FOR SINGLE LUMINAIRE AT 20.0 FT. **

LATERAL RATIOS

-3.00	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	.088	.086	.072	.056	.041	.029	.019	.012	.008	.005	.003	.002	.001	.001	.001
-2.50	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	0.17	0.16	0.13	.095	.065	.043	.027	.016	.010	.006	.003	.002	.001	.001	.001
-2.00	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	0.36	0.33	0.24	0.16	0.10	.062	.036	.020	.011	.006	.004	.002	.001	.001	.001
-1.50	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	0.85	0.72	0.47	0.28	0.16	.089	.048	.025	.013	.007	.004	.002	.001	.001	.000
-1.00	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	2.1	1.6	0.93	0.47	0.23	0.11	.059	.029	.014	.007	.003	.002	.001	.001	.000
-0.50	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	4.9	3.4	1.6	0.70	0.31	0.14	.068	.031	.014	.006	.003	.001	.001	.000	.000
HOUSE		CURB LINE													
STREET	7.3	4.9	2.0	0.81	0.34	0.15	.070	.031	.014	.006	.003	.001	.001	.000	.000
0.50	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	4.9	3.4	1.6	0.69	0.30	0.14	.065	.030	.013	.006	.003	.001	.001	.000	.000
1.00	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	2.1	1.6	0.91	0.46	0.22	0.11	.056	.027	.013	.006	.003	.001	.001	.001	.000
1.50	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	0.85	0.69	0.45	0.27	0.15	.084	.044	.023	.012	.006	.003	.002	.001	.001	.000
2.00	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	0.37	0.31	0.23	0.15	.096	.058	.033	.018	.010	.006	.003	.002	.001	.001	.001
2.50	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	0.17	0.15	0.12	.087	.060	.038	.023	.014	.008	.005	.003	.002	.001	.001	.001
3.00	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	.091	.078	.065	.051	.037	.025	.016	.010	.007	.004	.003	.002	.001	.001	.001
3.50	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	.051	.044	.037	.031	.023	.017	.011	.008	.005	.003	.002	.002	.001	.001	.001
4.00	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	.030	.026	.023	.019	.015	.011	.008	.006	.004	.003	.002	.001	.001	.001	.000
4.50	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	.019	.016	.015	.013	.010	.008	.006	.004	.003	.002	.002	.001	.001	.001	.000
5.00	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	.013	.011	.010	.009	.007	.006	.004	.003	.002	.002	.001	.001	.001	.001	.000
	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0
	LONGITUDINAL MOUNTING HEIGHT RATIOS														

CORRECTION FACTORS FOR OTHER MOUNTING HEIGHTS: SEE ISOFOOTCANDLE PAGE