

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P192620

Luminaire Tested: **GLEON-AF-02-LED-E1-5WQ-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192620
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-02-LED-E1-5WQ-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10024.5 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

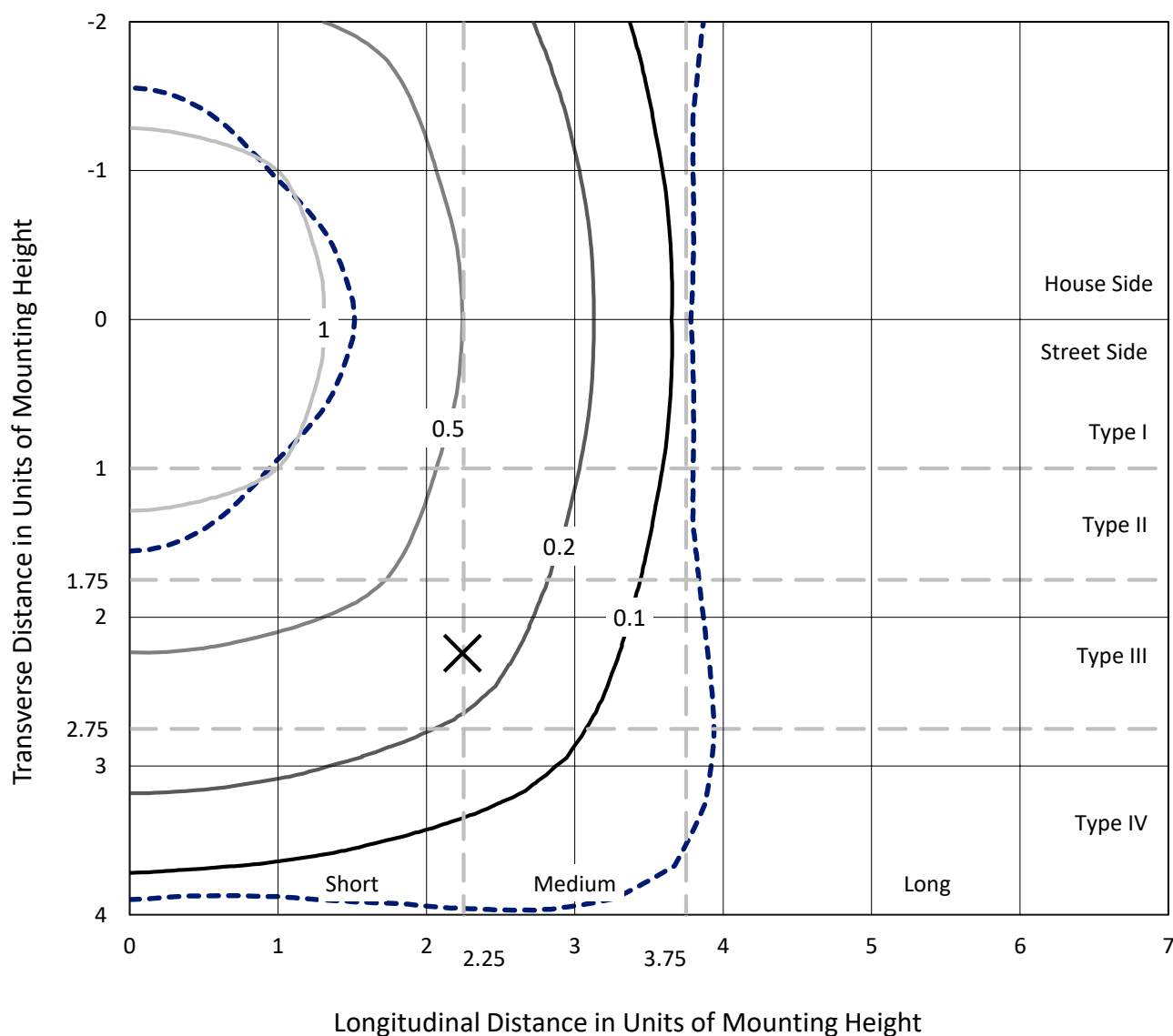


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

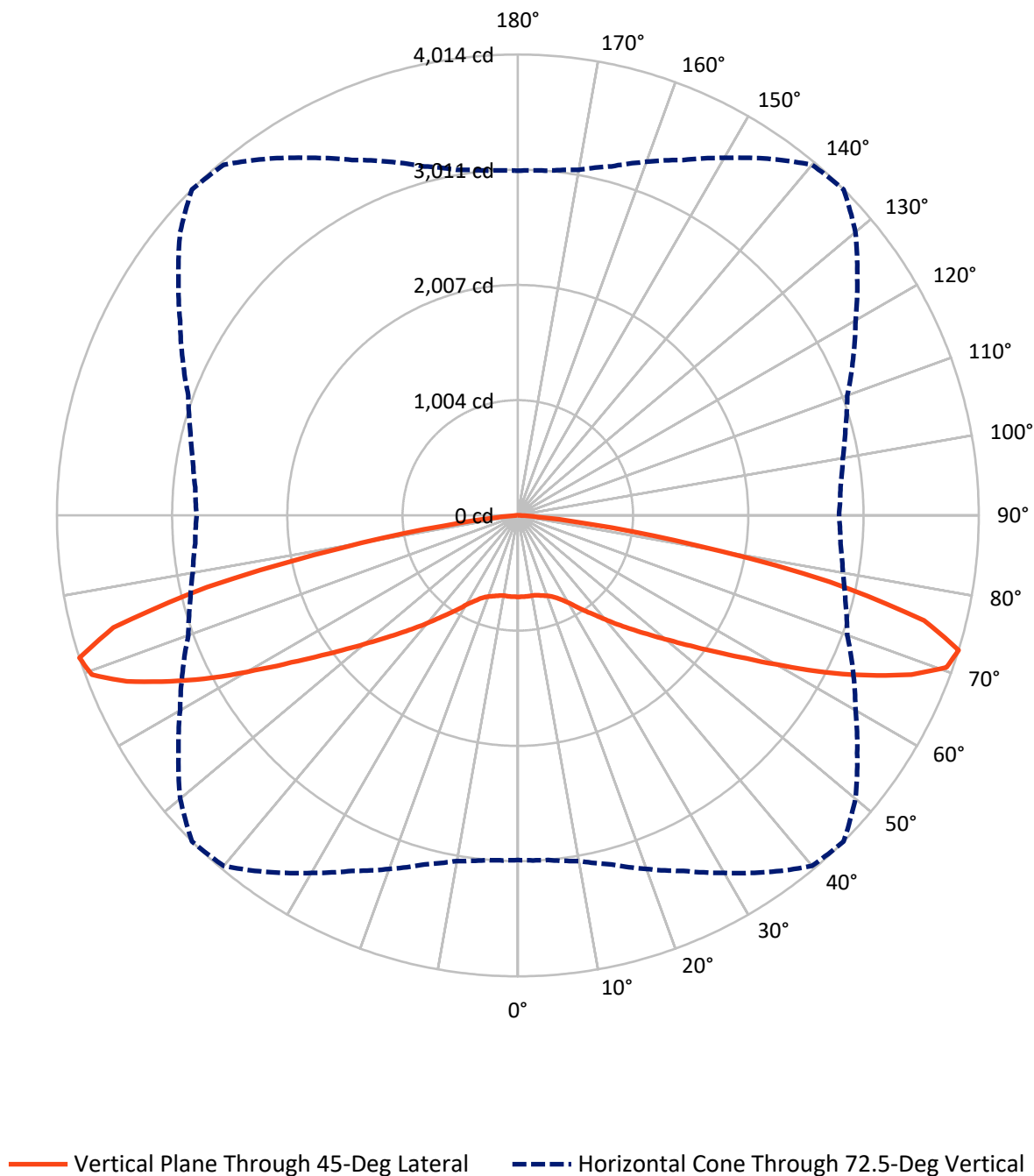


Based on 20 foot mounting height. Maximum calculated value = 1.8 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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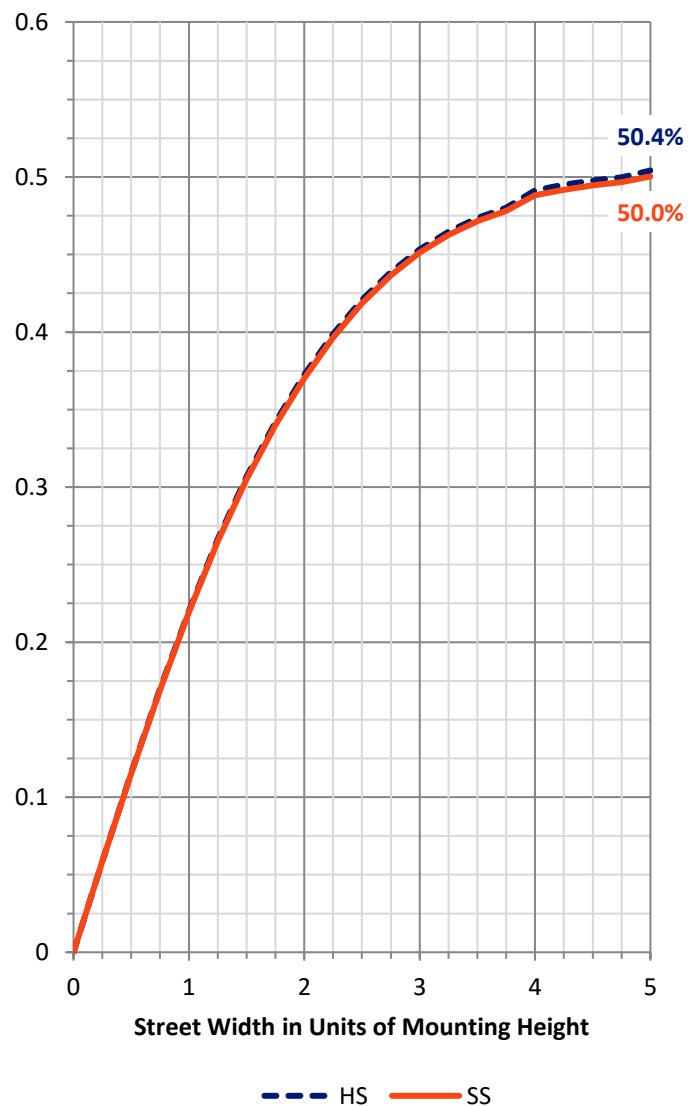
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5012.3	0.0	5012.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5012.3	0.0	5012.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	10024.5	0.0	10024.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.8	0.7
10°-20°	205.9	2.1
20°-30°	376.2	3.8
30°-40°	648.7	6.5
40°-50°	1108.9	11.1
50°-60°	1797.4	17.9
60°-70°	2981.8	29.7
70°-80°	2626.2	26.2
80°-90°	211.7	2.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	10024.5	100.0
0°-180°	10024.5	100.0

Coefficient of Utilization



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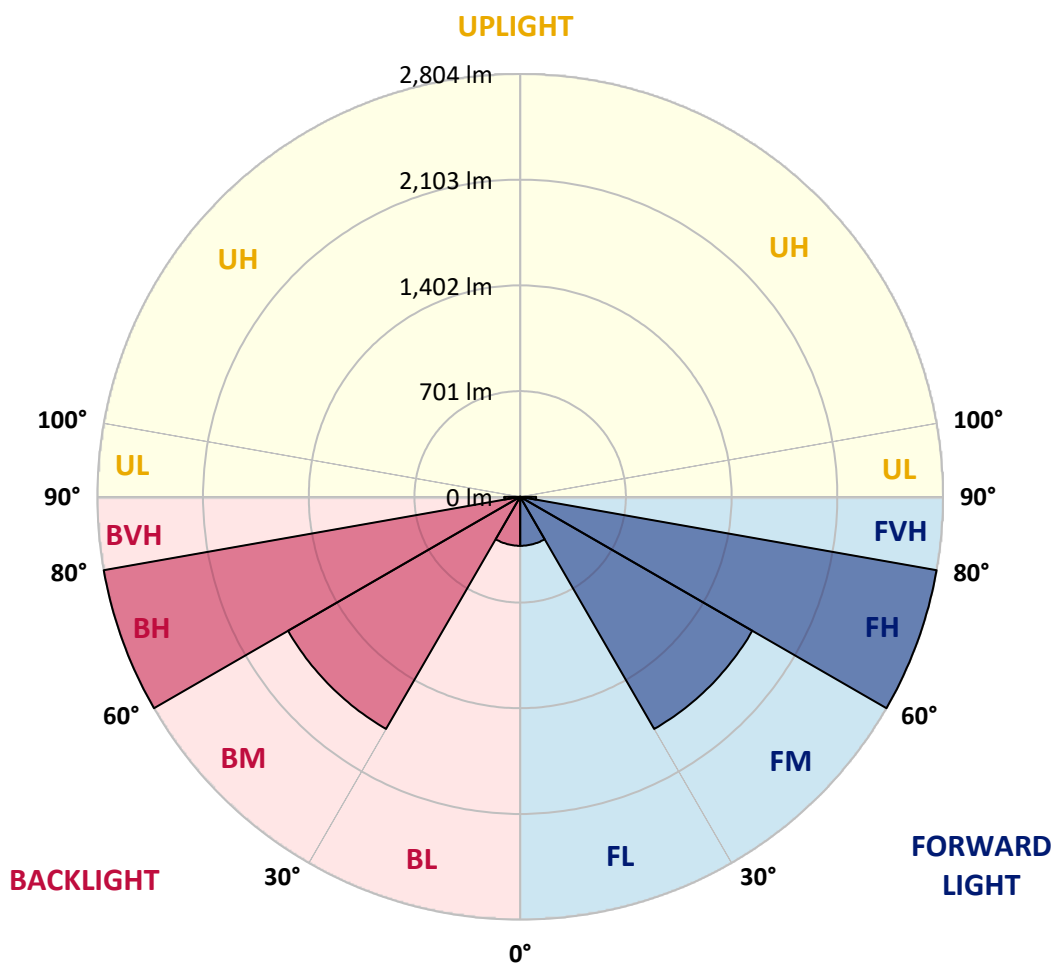
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	324.9	3.2			
FM	(30°-60°)	1777.5	17.7			
FH	(60°-80°)	2804.0	28.0			G2/5000
FVH	(80°-90°)	105.9	1.1			G2/225
BL	(0°-30°)	324.9	3.2	B1/500		
BM	(30°-60°)	1777.5	17.7	B2/2500		
BH	(60°-80°)	2804.0	28.0	B4/5000		G2/5000
BVH	(80°-90°)	105.9	1.1			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8
2.5°	709.8	710.4	710.8	710.4	710.4	709.8	709.4	709.8	709.4	708.5	709.0
5°	712.2	713.1	713.1	712.2	712.7	712.2	711.3	711.8	710.8	709.4	709.4
7.5°	715.0	715.4	715.4	714.4	715.0	714.0	713.1	712.7	711.8	709.8	708.5
10°	719.0	719.6	719.0	718.2	718.2	716.7	714.4	713.6	711.8	709.0	707.6
12.5°	723.8	724.2	723.8	722.8	722.3	720.0	718.2	716.7	715.4	713.1	710.8
15°	730.1	731.1	730.1	728.3	726.9	725.1	724.2	724.6	725.1	723.2	720.9
17.5°	742.1	742.5	741.1	737.1	735.2	733.3	733.3	734.2	735.7	734.8	732.5
20°	764.2	762.7	759.6	754.6	752.1	749.0	748.5	749.0	749.0	748.5	746.7
22.5°	791.7	790.8	786.6	780.2	777.1	775.2	772.5	770.2	769.6	768.3	766.5
25°	824.8	824.4	819.3	813.8	811.5	809.2	806.9	803.7	801.0	797.7	795.9
27.5°	867.1	865.4	857.9	855.2	852.0	850.6	847.5	843.7	841.4	837.3	835.0
30°	913.6	913.6	907.6	906.7	906.7	903.5	899.7	893.3	889.2	885.1	883.7
32.5°	960.1	960.5	954.5	956.3	957.6	960.1	960.9	958.6	955.9	955.4	952.6
35°	1027.1	1025.3	1019.3	1020.7	1020.3	1019.8	1019.8	1024.9	1025.7	1026.7	1021.1
37.5°	1110.4	1110.4	1104.4	1104.4	1101.7	1098.8	1095.3	1098.4	1103.4	1104.8	1101.2
40°	1205.5	1208.7	1201.5	1201.0	1201.9	1193.1	1189.0	1193.9	1197.3	1202.7	1198.7
42.5°	1317.6	1315.4	1308.1	1307.2	1302.1	1299.3	1295.6	1299.7	1304.9	1308.5	1309.9
45°	1425.3	1423.4	1415.2	1415.2	1410.1	1407.8	1409.7	1416.5	1418.8	1423.9	1429.0
47.5°	1531.5	1529.2	1523.7	1526.1	1526.5	1530.6	1536.6	1543.0	1549.4	1556.3	1558.7
50°	1640.0	1640.5	1634.5	1640.0	1646.9	1658.4	1674.5	1685.1	1698.4	1707.1	1709.9
52.5°	1738.9	1740.7	1747.2	1760.0	1773.9	1796.3	1824.0	1849.6	1871.7	1886.5	1885.5
55°	1857.5	1860.2	1875.9	1898.0	1920.4	1954.5	1995.4	2041.0	2077.7	2098.9	2085.5
57.5°	2009.2	2015.2	2032.7	2062.6	2096.1	2140.3	2196.3	2264.8	2321.9	2350.3	2328.8
60°	2217.5	2221.1	2242.3	2275.5	2315.9	2370.6	2445.5	2537.5	2618.0	2655.6	2630.9
62.5°	2491.9	2498.9	2515.9	2549.4	2590.9	2653.0	2744.4	2859.4	2959.7	3012.0	2955.9
65°	2819.8	2841.9	2856.1	2890.1	2928.8	2994.5	3090.2	3213.4	3320.9	3355.5	3290.6
67.5°	3144.4	3163.7	3188.5	3227.6	3266.8	3340.7	3429.4	3549.0	3667.2	3698.4	3597.7
70°	3286.5	3297.6	3336.1	3389.4	3464.4	3551.8	3654.2	3788.6	3934.8	3960.5	3832.7
72.5°	3001.9	3013.0	3056.1	3146.6	3277.2	3416.1	3594.9	3792.3	3985.3	4014.3	3838.2
75°	2270.4	2252.5	2316.3	2436.4	2612.4	2806.0	3056.1	3338.9	3618.0	3654.2	3444.2
77.5°	1173.3	1171.0	1219.4	1368.3	1578.4	1798.6	2074.1	2393.6	2666.7	2777.1	2606.1
80°	330.6	334.3	357.3	431.2	554.1	713.1	928.2	1227.6	1451.1	1565.0	1469.4
82.5°	129.7	139.8	148.5	162.2	178.4	201.8	269.5	400.9	537.9	642.8	526.4
85°	46.4	49.6	70.4	83.2	84.5	89.1	101.6	118.6	143.0	170.6	140.2
87.5°	17.5	19.3	22.5	37.2	36.8	33.6	41.0	42.7	32.2	29.4	36.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8
2.5°	708.0	708.5	708.5	709.0	709.4	709.4	710.4	710.4
5°	708.5	708.5	707.6	708.0	707.6	707.6	708.0	708.0
7.5°	707.6	707.1	706.3	705.7	704.8	704.8	704.8	704.8
10°	706.3	705.7	704.8	704.4	703.9	703.9	703.9	703.9
12.5°	709.8	708.5	707.6	707.1	707.1	707.1	707.1	707.1
15°	719.6	716.3	714.0	714.0	714.4	715.4	715.4	716.3
17.5°	731.5	727.7	725.5	723.8	724.6	726.0	726.9	727.7
20°	745.8	743.9	740.7	738.8	738.8	740.7	741.7	742.1
22.5°	765.6	764.2	762.7	760.5	760.5	761.4	763.1	763.1
25°	795.0	794.0	793.1	791.2	790.8	790.8	791.7	792.6
27.5°	831.7	832.2	831.3	830.8	829.4	829.0	830.4	830.0
30°	880.9	883.3	885.5	883.7	881.4	880.0	878.7	876.8
32.5°	947.6	944.9	943.0	939.7	935.7	932.0	929.2	926.0
35°	1010.5	1006.0	1004.2	1007.0	1006.5	1004.2	1001.0	998.2
37.5°	1087.7	1086.9	1087.7	1092.9	1091.9	1094.2	1087.7	1087.3
40°	1185.4	1186.2	1192.7	1198.7	1201.9	1205.0	1201.5	1197.7
42.5°	1298.4	1298.0	1300.3	1308.5	1314.1	1317.6	1309.9	1308.9
45°	1417.9	1414.7	1416.5	1423.4	1429.0	1433.2	1424.4	1424.4
47.5°	1549.4	1544.0	1538.0	1545.8	1549.0	1551.7	1544.8	1542.5
50°	1696.1	1684.7	1671.7	1675.0	1675.0	1674.1	1665.3	1664.9
52.5°	1864.4	1843.2	1819.8	1811.1	1805.9	1800.5	1785.3	1777.9
55°	2058.0	2026.2	1989.5	1966.8	1954.9	1939.8	1914.5	1907.5
57.5°	2284.2	2234.5	2171.1	2143.4	2116.8	2092.0	2063.9	2056.1
60°	2552.2	2479.1	2395.0	2343.9	2314.9	2291.0	2262.1	2260.7
62.5°	2851.1	2735.7	2640.5	2594.5	2573.4	2552.2	2524.7	2528.3
65°	3155.0	3034.5	2945.3	2908.1	2888.3	2870.8	2843.3	2847.4
67.5°	3454.8	3344.0	3246.0	3207.9	3185.8	3163.7	3138.9	3143.1
70°	3669.9	3532.5	3422.1	3337.6	3284.7	3224.9	3186.2	3176.6
72.5°	3608.3	3396.4	3221.2	3053.4	2955.0	2874.9	2820.7	2797.2
75°	3122.7	2833.1	2607.8	2401.8	2286.0	2191.7	2123.2	2080.6
77.5°	2319.1	1993.6	1727.4	1490.1	1302.6	1176.6	1087.7	1030.4
80°	1269.5	965.6	705.7	496.1	364.6	302.9	267.5	250.5
82.5°	395.4	255.2	188.0	162.2	150.8	144.3	133.9	116.8
85°	125.9	110.4	102.4	97.9	93.3	81.4	56.0	51.1
87.5°	48.7	50.1	49.6	46.9	47.8	34.5	27.6	24.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)