

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: P197914

Luminaire Tested: **TT-C6-LED-E1-WQ-SG-MS/DIM**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197914
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115558)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C6-LED-E1-WQ-SG-MS/DIM
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH SOFTENING GLASS LENS AND DIMMING OCCUPANCY SENSOR
Light Source: (160) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10485.6 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 108
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

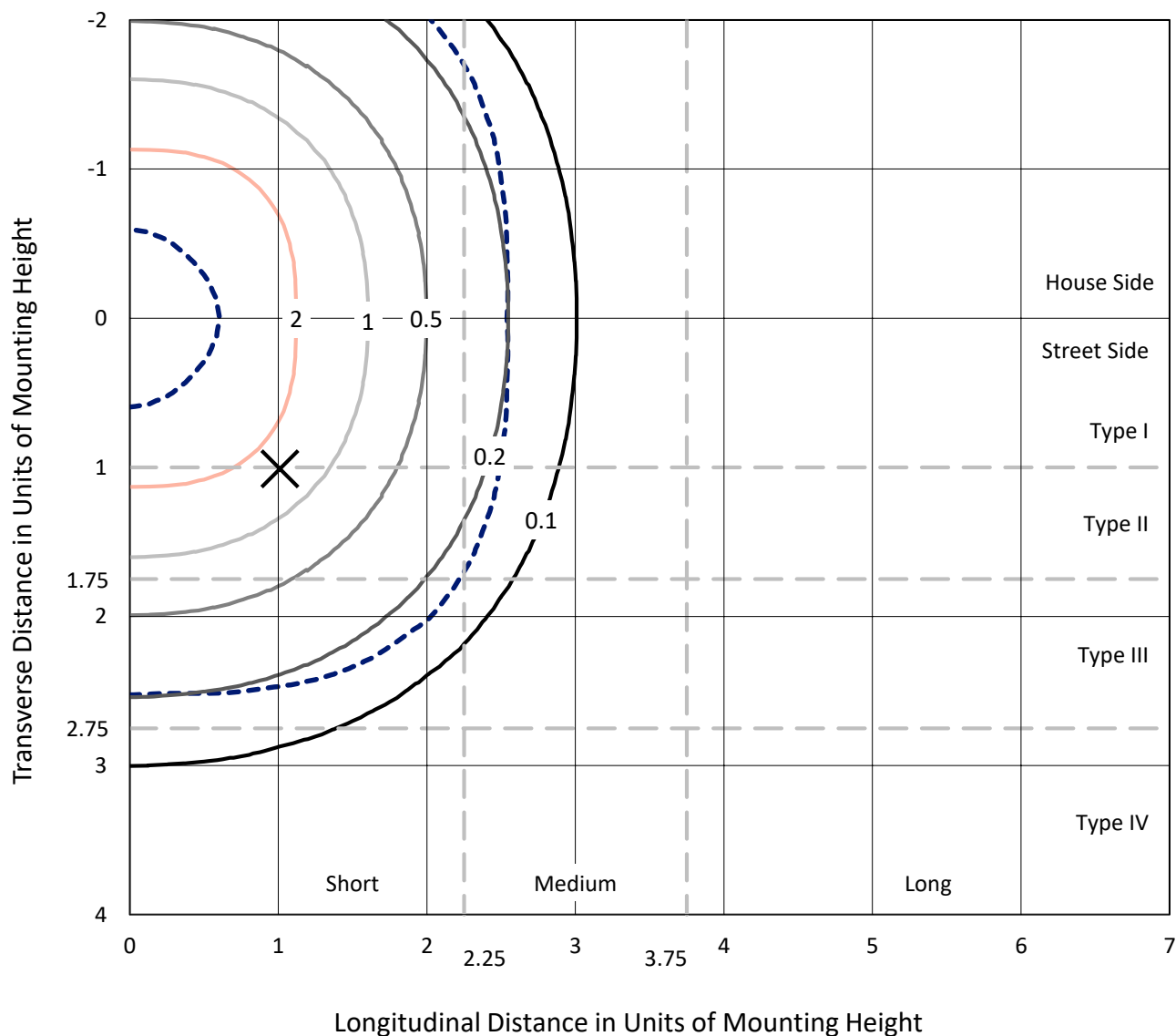


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

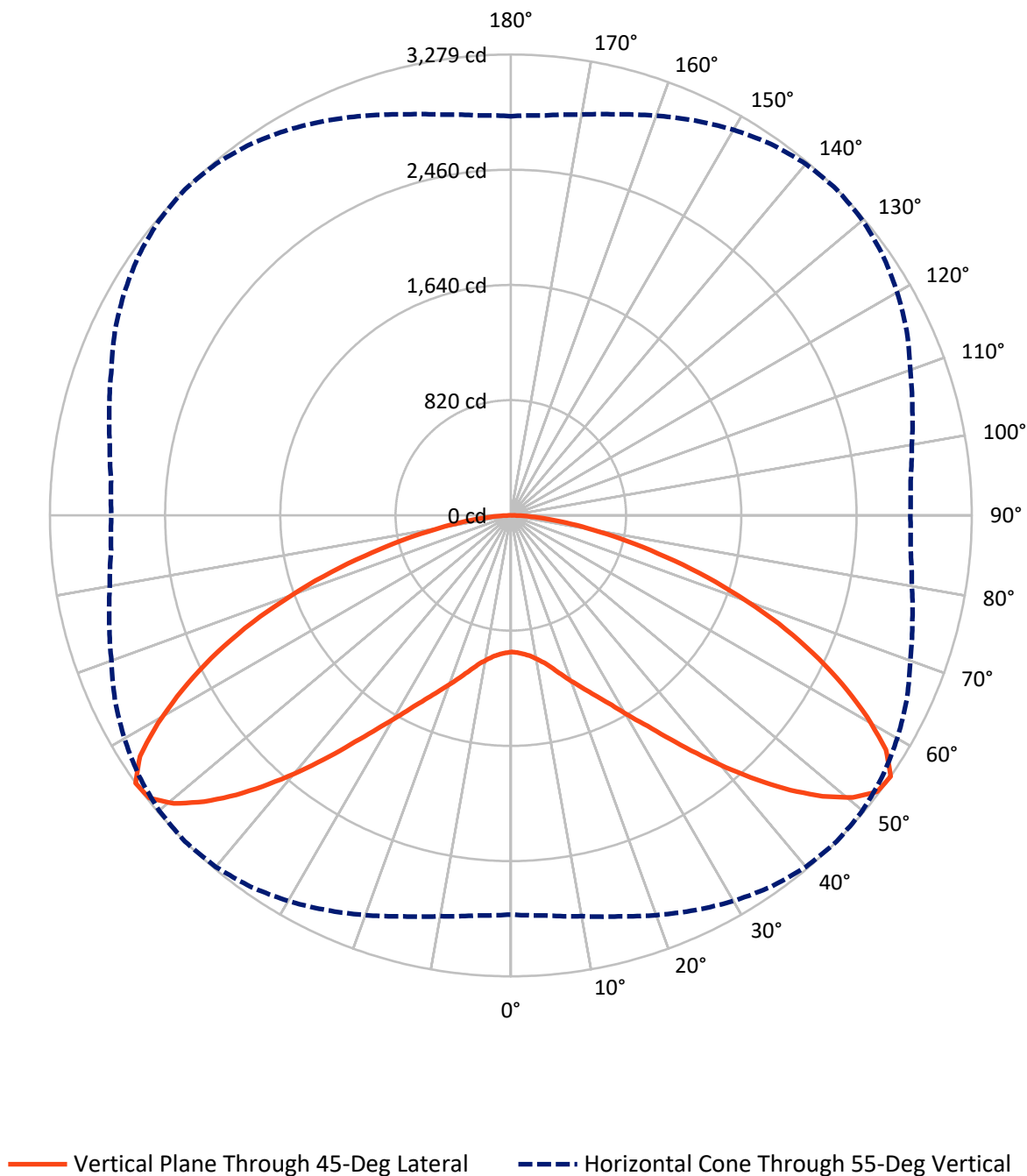


Based on 20 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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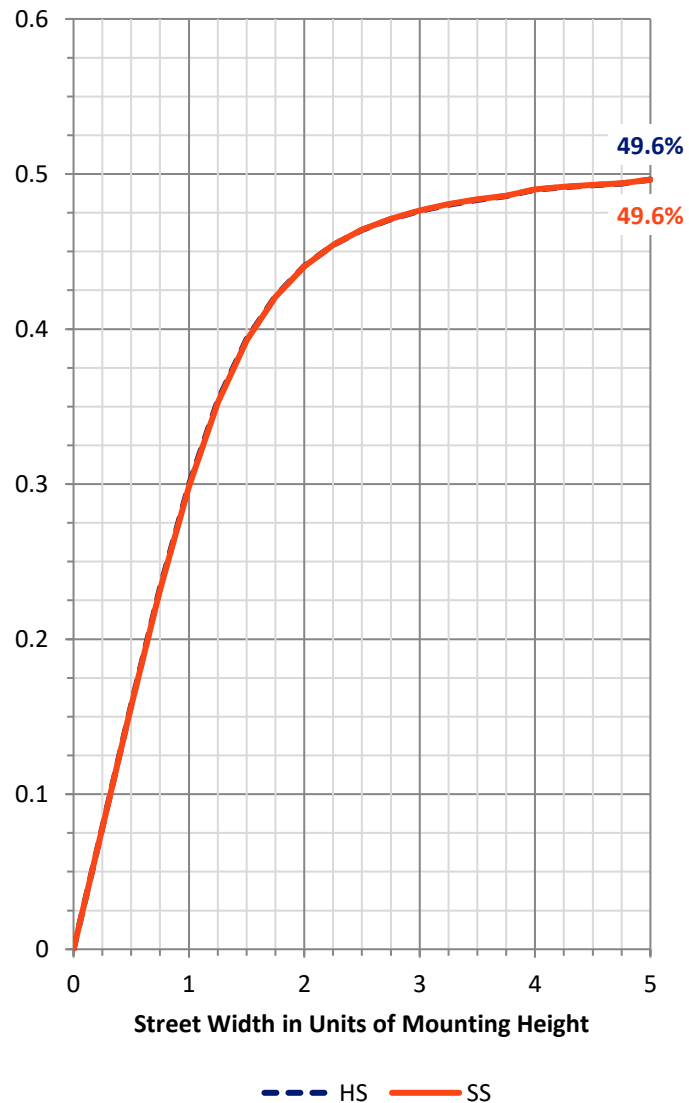
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5242.8	0.0	5242.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5242.8	0.0	5242.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	10485.6	0.0	10485.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.0	0.9
10°-20°	325.5	3.1
20°-30°	662.9	6.3
30°-40°	1210.5	11.5
40°-50°	2055.3	19.6
50°-60°	2676.7	25.5
60°-70°	2164.8	20.6
70°-80°	1063.8	10.1
80°-90°	230.3	2.2
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°	10485.6	100.0
0°-180°	10485.6	100.0

Coefficient of Utilization



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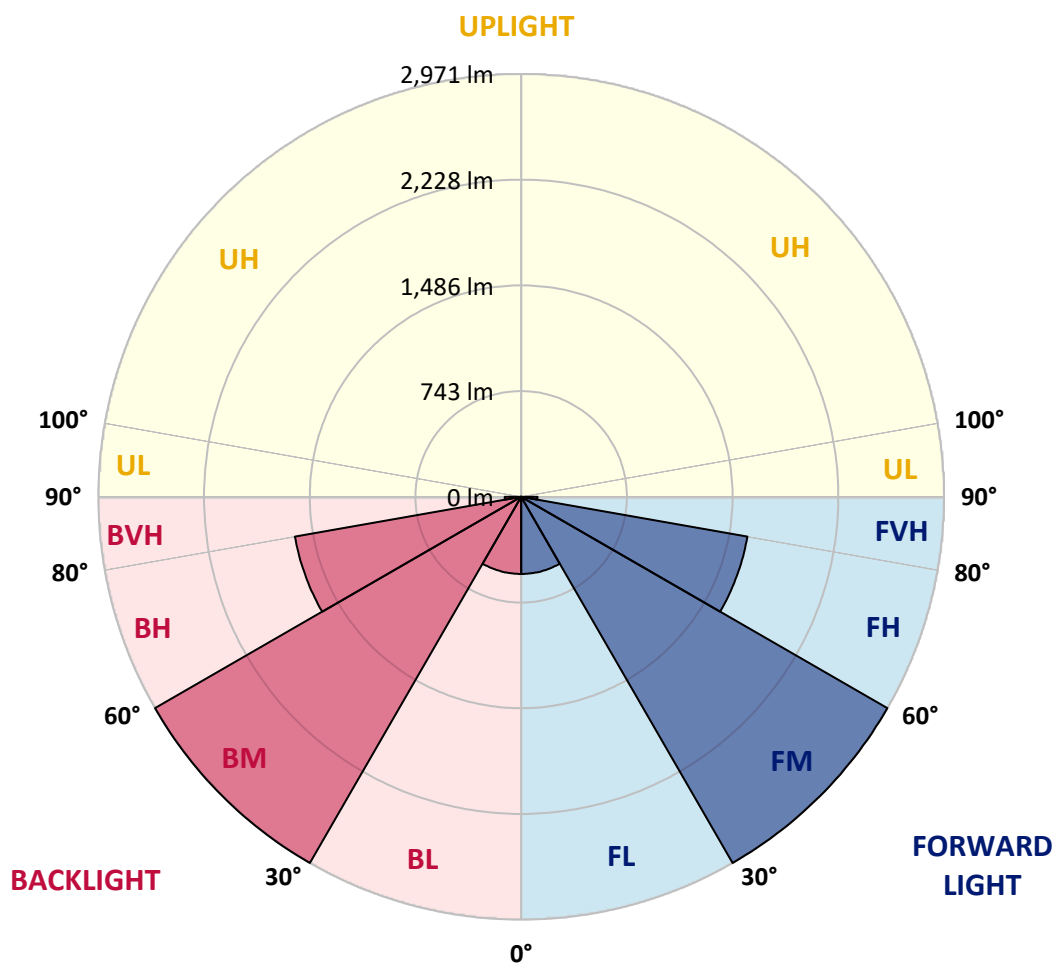
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	542.2	5.2			
FM	(30°-60°)	2971.2	28.3			
FH	(60°-80°)	1614.3	15.4			G1/1800
FVH	(80°-90°)	115.1	1.1			G2/225
BL	(0°-30°)	542.2	5.2	B2/1000		
BM	(30°-60°)	2971.2	28.3	B3/5000		
BH	(60°-80°)	1614.3	15.4	B3/2500		G1/1800
BVH	(80°-90°)	115.1	1.1			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	971.6	971.6	971.6	971.6	971.6	971.6	971.6	971.6	971.6	971.6	971.6
2.5°	975.8	975.8	975.8	975.8	975.8	975.8	978.0	978.0	978.0	978.0	978.0
5°	988.7	988.7	988.7	990.9	990.9	990.9	990.9	990.9	990.9	990.9	990.9
7.5°	1008.0	1005.8	1008.0	1008.0	1008.0	1010.2	1010.2	1008.0	1010.2	1010.2	1010.2
10°	1035.9	1033.7	1035.9	1035.9	1035.9	1038.1	1038.1	1038.1	1038.1	1040.3	1040.3
12.5°	1076.7	1074.5	1076.7	1078.9	1076.7	1078.9	1078.9	1078.9	1078.9	1078.9	1078.9
15°	1128.2	1126.1	1128.2	1130.2	1128.2	1132.4	1132.4	1130.2	1130.2	1132.4	1132.4
17.5°	1190.3	1186.2	1188.1	1190.3	1190.3	1194.7	1194.7	1192.5	1194.7	1196.7	1194.7
20°	1254.6	1250.4	1252.6	1259.0	1259.0	1261.2	1265.4	1263.4	1265.4	1267.5	1265.4
22.5°	1325.5	1323.3	1325.5	1331.8	1331.8	1334.0	1340.4	1340.4	1340.4	1342.6	1340.4
25°	1402.7	1400.5	1402.7	1409.0	1409.0	1413.4	1422.0	1422.0	1424.2	1426.4	1424.2
27.5°	1492.8	1490.7	1494.8	1501.4	1503.6	1510.0	1520.7	1522.9	1524.9	1527.1	1522.9
30°	1597.9	1593.5	1599.9	1610.7	1615.0	1623.6	1636.5	1640.7	1642.9	1649.3	1645.1
32.5°	1717.9	1713.8	1722.3	1735.0	1741.6	1754.3	1771.7	1775.8	1782.2	1786.6	1780.2
35°	1859.4	1857.4	1866.0	1885.3	1896.1	1911.0	1934.7	1941.0	1945.4	1954.0	1945.4
37.5°	2016.1	2013.9	2029.0	2050.5	2069.8	2093.3	2118.9	2129.7	2136.3	2147.0	2136.3
40°	2189.8	2187.6	2206.9	2232.8	2256.3	2286.3	2318.6	2333.5	2346.4	2357.2	2344.2
42.5°	2367.9	2367.9	2391.4	2419.3	2453.7	2490.1	2526.5	2543.7	2565.2	2571.5	2556.6
45°	2539.5	2541.5	2565.2	2599.4	2648.7	2695.9	2736.7	2758.2	2781.7	2788.3	2769.0
47.5°	2702.5	2704.7	2726.0	2771.1	2826.9	2880.4	2929.8	2959.8	2983.3	2985.5	2970.6
50°	2835.4	2844.0	2871.8	2912.6	2970.6	3026.3	3086.4	3125.0	3148.5	3155.1	3139.9
52.5°	2887.0	2901.9	2934.1	2985.5	3051.9	3109.9	3176.3	3225.7	3253.6	3264.3	3251.6
55°	2839.6	2856.9	2895.5	2953.4	3026.3	3099.1	3167.8	3225.7	3264.3	3279.4	3266.5
57.5°	2734.5	2736.7	2775.3	2833.2	2899.7	2974.7	3041.2	3094.9	3131.4	3146.5	3144.3
60°	2552.2	2552.2	2588.8	2644.6	2695.9	2773.1	2829.1	2869.6	2895.5	2912.6	2908.3
62.5°	2307.8	2307.8	2339.9	2397.8	2449.3	2515.8	2569.5	2612.3	2629.4	2648.7	2653.1
65°	2035.4	2035.4	2065.4	2123.3	2170.5	2230.6	2281.9	2322.7	2339.9	2363.5	2359.2
67.5°	1745.8	1743.8	1771.7	1820.8	1866.0	1921.7	1971.1	2009.7	2029.0	2056.9	2037.6
70°	1447.7	1447.7	1471.3	1510.0	1542.0	1597.9	1645.1	1683.7	1698.6	1722.3	1711.6
72.5°	1164.7	1162.5	1181.8	1211.8	1237.5	1286.9	1314.7	1357.7	1370.4	1402.7	1385.6
75°	909.3	905.1	920.1	941.6	958.7	990.9	1012.4	1046.6	1057.4	1078.9	1070.3
77.5°	684.2	682.0	688.4	703.5	716.3	742.1	750.7	767.8	776.4	797.9	780.8
80°	491.2	484.8	491.2	499.7	504.1	523.4	525.4	532.0	536.2	551.3	534.0
82.5°	330.4	321.8	326.0	332.4	332.4	343.1	345.3	343.1	351.7	356.0	347.5
85°	188.7	182.3	184.5	188.7	186.7	193.1	193.1	190.9	197.2	197.2	193.1
87.5°	62.3	57.9	60.1	62.3	62.3	64.3	66.5	64.3	68.7	68.7	64.3
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°	971.6	971.6	971.6	971.6	971.6	971.6	971.6	971.6
2.5°	978.0	978.0	978.0	978.0	978.0	978.0	978.0	978.0
5°	990.9	990.9	990.9	990.9	990.9	988.7	988.7	988.7
7.5°	1010.2	1010.2	1010.2	1010.2	1010.2	1008.0	1008.0	1008.0
10°	1040.3	1038.1	1038.1	1038.1	1038.1	1035.9	1038.1	1035.9
12.5°	1078.9	1080.9	1080.9	1078.9	1080.9	1076.7	1076.7	1076.7
15°	1132.4	1130.2	1130.2	1130.2	1130.2	1128.2	1128.2	1128.2
17.5°	1192.5	1192.5	1190.3	1190.3	1188.1	1186.2	1186.2	1186.2
20°	1263.4	1261.2	1259.0	1256.8	1254.6	1250.4	1248.2	1248.2
22.5°	1336.2	1334.0	1331.8	1329.9	1327.7	1323.3	1319.1	1319.1
25°	1417.6	1413.4	1411.2	1407.1	1402.7	1398.3	1396.3	1394.1
27.5°	1516.3	1512.2	1505.6	1499.2	1490.7	1488.5	1484.3	1484.3
30°	1634.3	1628.0	1619.2	1608.7	1599.9	1591.3	1587.2	1585.0
32.5°	1771.7	1763.1	1748.0	1735.0	1720.1	1711.6	1705.2	1700.8
35°	1932.5	1919.5	1902.4	1883.1	1863.8	1848.9	1838.1	1838.1
37.5°	2121.1	2101.8	2076.2	2052.5	2024.6	2007.5	1994.6	1986.0
40°	2327.1	2299.3	2267.0	2237.0	2204.9	2181.2	2161.9	2164.1
42.5°	2530.9	2507.2	2468.6	2432.2	2391.4	2359.2	2335.7	2333.5
45°	2745.3	2715.2	2668.0	2620.9	2573.7	2535.1	2507.2	2502.9
47.5°	2944.7	2912.6	2856.9	2799.0	2747.5	2704.7	2674.6	2670.2
50°	3107.9	3069.3	3011.4	2949.1	2893.3	2846.2	2813.9	2805.4
52.5°	3213.0	3170.0	3107.9	3032.6	2972.8	2919.0	2880.4	2869.6
55°	3230.1	3174.4	3107.9	3024.1	2957.6	2897.5	2854.7	2841.8
57.5°	3112.1	3051.9	2992.1	2919.0	2852.5	2788.3	2753.8	2736.7
60°	2882.6	2835.4	2786.1	2719.6	2666.1	2606.0	2578.1	2569.5
62.5°	2618.7	2578.1	2532.9	2464.5	2419.3	2365.7	2339.9	2329.3
65°	2335.7	2288.5	2245.5	2189.8	2140.4	2095.5	2059.1	2054.7
67.5°	2022.4	1973.3	1936.6	1887.5	1838.1	1795.1	1771.7	1758.7
70°	1692.3	1651.5	1615.0	1561.3	1529.3	1488.5	1471.3	1458.4
72.5°	1364.1	1340.4	1295.4	1261.2	1224.8	1192.5	1181.8	1168.8
75°	1055.2	1027.3	993.1	971.6	943.8	926.6	917.9	909.3
77.5°	774.2	750.7	731.4	722.8	709.9	692.8	686.4	679.8
80°	536.2	525.4	512.7	510.5	501.9	489.0	486.8	484.8
82.5°	347.5	341.1	336.7	336.7	332.4	323.8	321.8	321.8
85°	193.1	190.9	193.1	190.9	186.7	182.3	182.3	182.3
87.5°	64.3	64.3	66.5	68.7	62.3	62.3	60.1	60.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)