

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: P197868

Luminaire Tested: **TT-C6-LED-E1-WQ-CG-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197868
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115498)
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-CG-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH CLEAR GLASS LENS
Light Source: (160) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10667.3 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-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

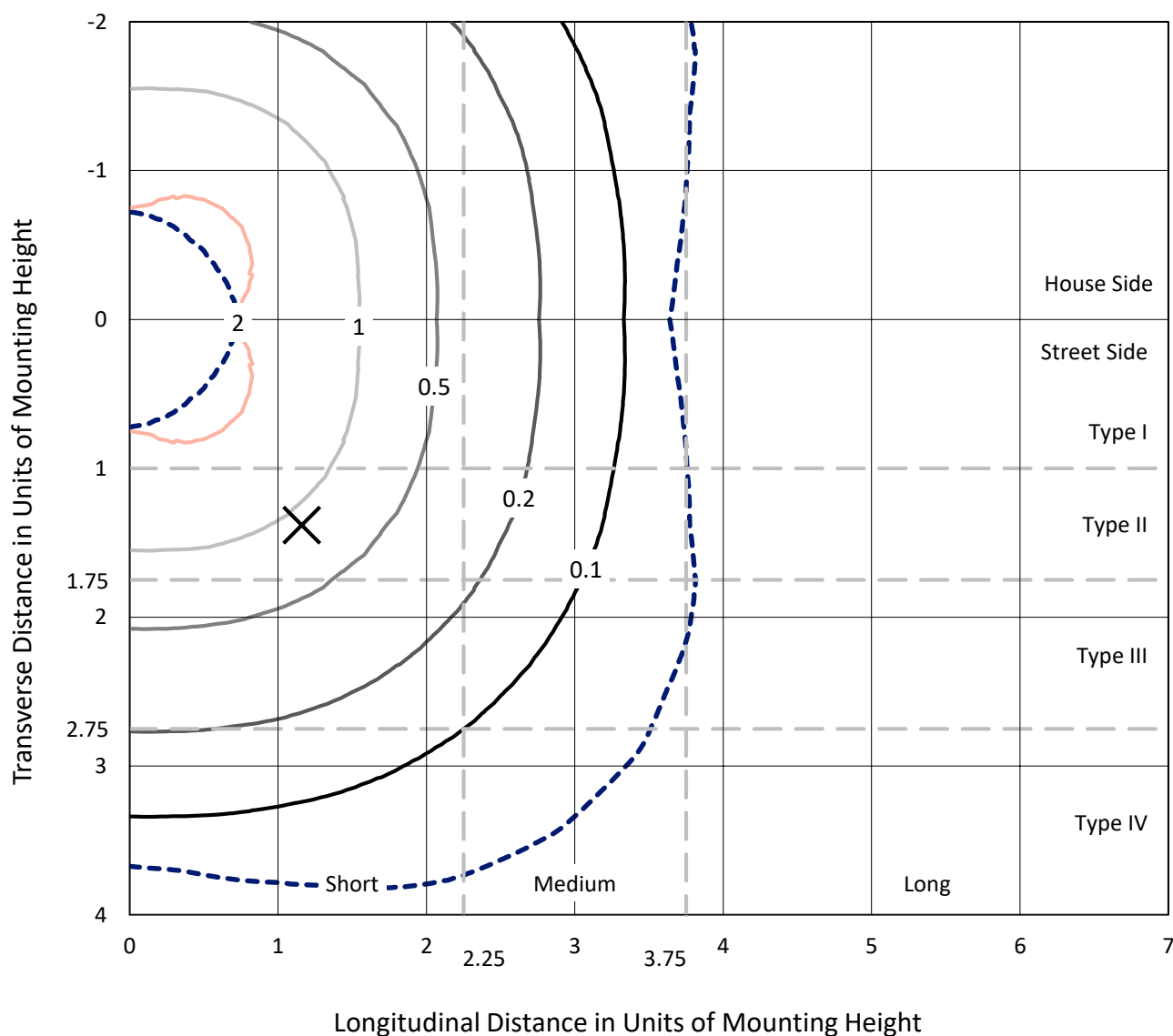


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

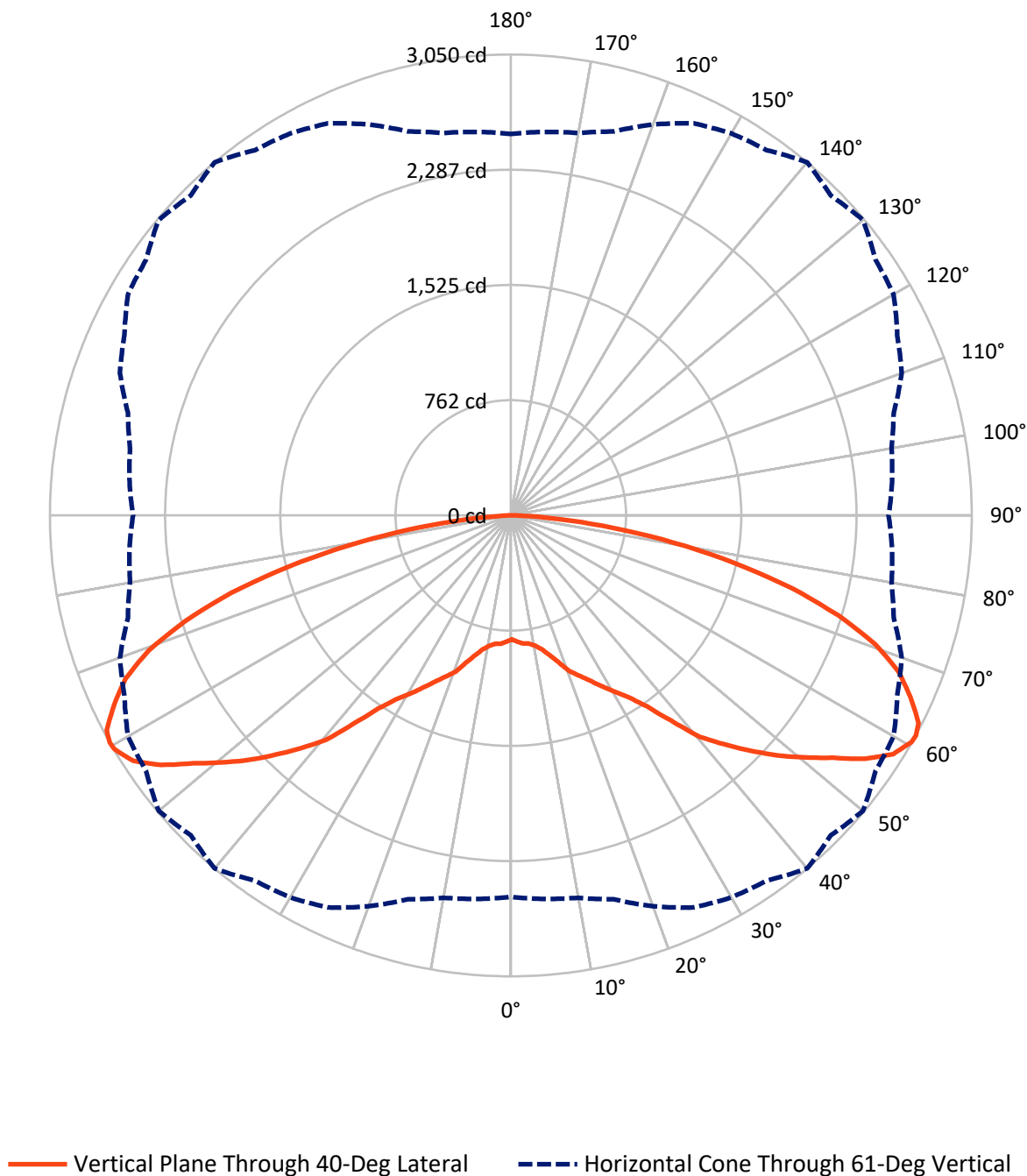


Based on 20 foot mounting height. Maximum calculated value = 2.3 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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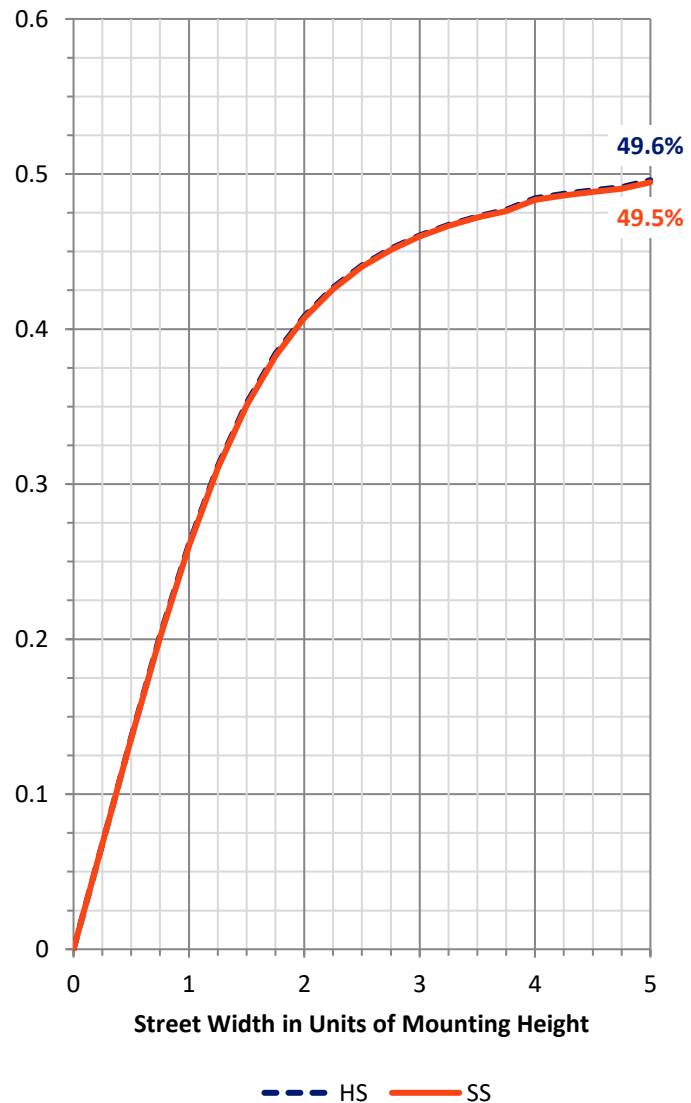
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5333.6	0.0	5333.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5333.6	0.0	5333.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	10667.3	0.0	10667.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.7	0.8
10°-20°	275.8	2.6
20°-30°	559.3	5.2
30°-40°	972.8	9.1
40°-50°	1637.6	15.4
50°-60°	2359.2	22.1
60°-70°	2617.9	24.5
70°-80°	1777.9	16.7
80°-90°	385.1	3.6
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°	10667.3	100.0
0°-180°	10667.3	100.0

Coefficient of Utilization



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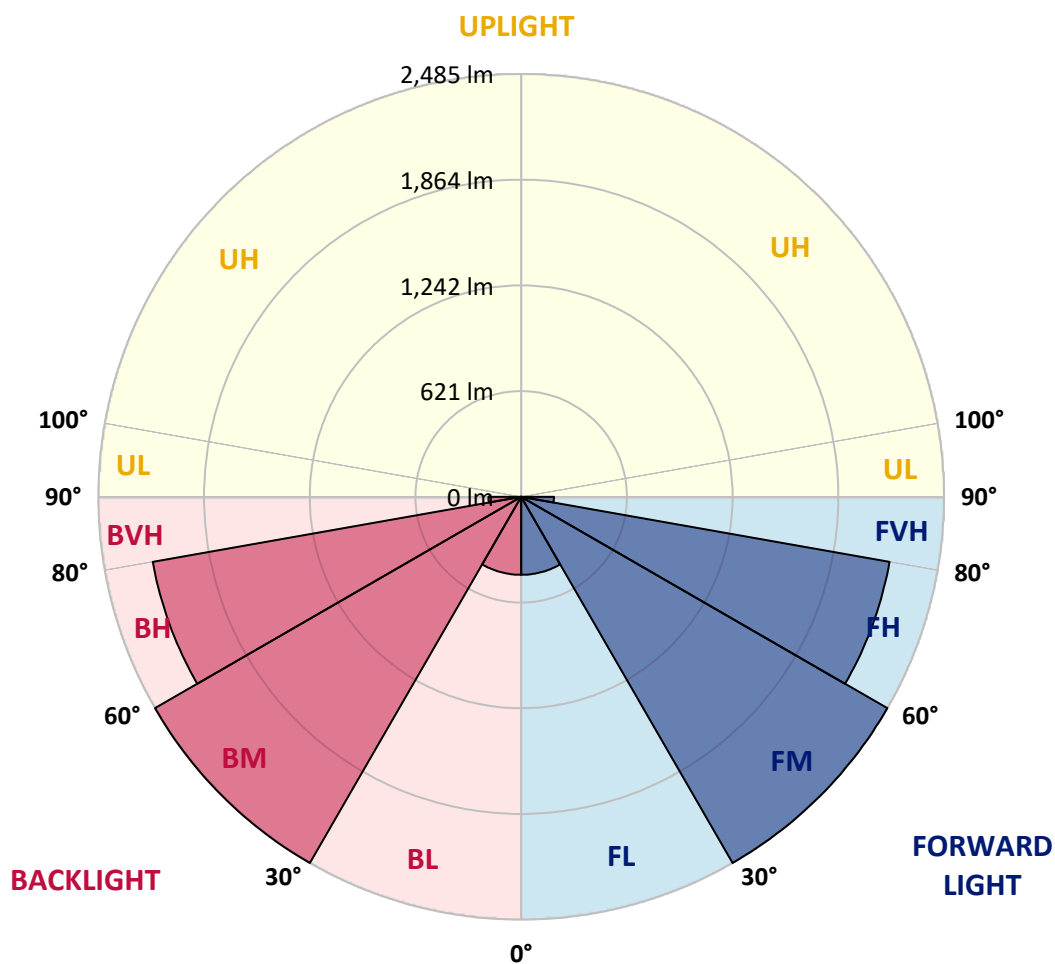
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	458.4	4.3			
FM	(30°-60°)	2484.8	23.3			
FH	(60°-80°)	2197.9	20.6			G2/5000
FVH	(80°-90°)	192.5	1.8			G2/225
BL	(0°-30°)	458.4	4.3	B1/500		
BM	(30°-60°)	2484.8	23.3	B2/2500		
BH	(60°-80°)	2197.9	20.6	B3/2500		G2/5000
BVH	(80°-90°)	192.5	1.8			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°	819.5	819.5	819.5	819.5	819.5	819.5	819.5	819.5	819.5	819.5	819.5
2.5°	838.9	838.9	838.9	838.9	838.9	836.8	838.9	836.8	836.8	836.8	836.8
5°	845.4	847.6	847.6	847.6	847.6	849.7	849.7	851.9	851.9	851.9	851.9
7.5°	851.9	851.9	851.9	851.9	851.9	851.9	854.0	854.0	856.2	856.2	858.3
10°	877.8	877.8	879.9	879.9	877.8	877.8	877.8	875.6	875.6	873.4	873.4
12.5°	914.4	914.4	916.6	918.7	918.7	916.6	914.4	910.1	908.0	908.0	908.0
15°	942.5	944.6	948.9	953.2	955.4	955.4	957.6	957.6	957.6	955.4	953.2
17.5°	996.4	996.4	998.5	1000.7	1000.7	1002.8	1007.2	1011.5	1020.1	1022.3	1015.8
20°	1074.0	1076.2	1082.6	1080.5	1080.5	1084.8	1089.1	1091.3	1097.7	1102.1	1102.1
22.5°	1132.2	1136.6	1145.2	1145.2	1143.0	1145.2	1149.5	1149.5	1149.5	1147.3	1151.7
25°	1177.5	1181.8	1188.3	1188.3	1192.6	1203.4	1216.4	1214.2	1207.7	1207.7	1205.6
27.5°	1237.9	1240.1	1244.4	1244.4	1250.9	1257.3	1266.0	1274.6	1278.9	1276.7	1272.4
30°	1313.4	1317.7	1322.0	1315.6	1326.3	1332.8	1337.1	1337.1	1354.4	1363.0	1347.9
32.5°	1369.5	1378.1	1386.7	1393.2	1414.8	1425.6	1419.1	1425.6	1434.2	1442.8	1442.8
35°	1462.2	1470.8	1477.3	1481.6	1503.2	1518.3	1535.5	1552.8	1550.6	1544.2	1557.1
37.5°	1595.9	1604.6	1611.0	1619.6	1647.7	1658.5	1671.4	1708.1	1721.0	1703.8	1712.4
40°	1738.3	1753.4	1774.9	1800.8	1841.8	1854.7	1876.3	1902.2	1925.9	1934.5	1913.0
42.5°	1861.2	1878.4	1882.8	1923.7	1973.3	2012.2	2042.4	2048.8	2070.4	2089.8	2074.7
45°	1992.8	2007.8	2018.6	2053.1	2081.2	2135.1	2184.7	2208.4	2219.2	2217.0	2234.3
47.5°	2115.7	2132.9	2148.0	2184.7	2219.2	2264.5	2296.8	2352.9	2372.3	2346.4	2374.5
50°	2191.2	2212.7	2232.1	2301.2	2361.5	2409.0	2434.9	2482.3	2516.8	2499.6	2506.0
52.5°	2316.3	2324.9	2340.0	2378.8	2458.6	2568.6	2594.5	2620.3	2663.5	2685.0	2646.2
55°	2475.8	2499.6	2521.1	2570.7	2611.7	2693.7	2812.3	2844.6	2842.5	2909.3	2848.9
57.5°	2510.3	2544.9	2588.0	2678.6	2758.4	2805.8	2881.3	2971.9	2980.5	2984.8	2993.4
60°	2514.7	2536.2	2564.3	2639.7	2779.9	2866.2	2909.3	2967.6	3045.2	2989.1	3047.4
61°	2523.3	2547.0	2568.6	2629.0	2751.9	2861.9	2918.0	2950.3	3049.5	2993.4	3040.9
62.5°	2508.2	2536.2	2568.6	2626.8	2708.8	2820.9	2928.7	2928.7	3027.9	2991.3	3017.2
65°	2417.6	2443.5	2506.0	2581.5	2680.7	2739.0	2851.1	2922.3	2907.2	2971.9	2907.2
67.5°	2264.5	2286.1	2340.0	2428.4	2536.2	2618.2	2669.9	2784.2	2769.1	2836.0	2762.7
70°	2048.8	2076.9	2143.7	2204.1	2305.5	2391.7	2460.7	2529.8	2560.0	2553.5	2557.8
72.5°	1790.0	1809.4	1869.8	1936.7	2016.5	2113.5	2176.1	2219.2	2266.6	2264.5	2273.1
75°	1490.3	1507.5	1559.3	1608.9	1686.5	1762.0	1833.2	1878.4	1917.3	1915.1	1906.5
77.5°	1149.5	1168.9	1227.1	1270.3	1306.9	1391.0	1445.0	1475.2	1507.5	1507.5	1511.8
80°	802.3	815.2	860.5	905.8	940.3	981.3	1050.3	1056.8	1093.4	1084.8	1093.4
82.5°	483.1	491.7	526.2	552.1	575.8	614.6	647.0	659.9	681.5	672.9	685.8
85°	217.8	222.1	243.7	258.8	269.6	291.1	308.4	314.9	325.7	323.5	332.1
87.5°	45.3	49.6	56.1	60.4	62.5	71.2	77.6	77.6	82.0	82.0	84.1
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°	819.5	819.5	819.5	819.5	819.5	819.5	819.5	819.5
2.5°	836.8	838.9	836.8	836.8	836.8	838.9	836.8	838.9
5°	851.9	851.9	851.9	849.7	847.6	847.6	847.6	845.4
7.5°	860.5	860.5	858.3	856.2	854.0	856.2	856.2	856.2
10°	877.8	882.1	884.2	884.2	882.1	882.1	882.1	879.9
12.5°	908.0	910.1	916.6	918.7	920.9	918.7	912.3	910.1
15°	948.9	948.9	951.1	955.4	955.4	946.8	940.3	938.1
17.5°	1007.2	1005.0	1000.7	1000.7	1002.8	998.5	992.1	992.1
20°	1095.6	1087.0	1082.6	1076.2	1082.6	1082.6	1069.7	1063.2
22.5°	1158.1	1149.5	1138.7	1132.2	1140.9	1147.3	1132.2	1123.6
25°	1212.0	1214.2	1196.9	1188.3	1190.5	1194.8	1175.4	1173.2
27.5°	1268.1	1272.4	1263.8	1248.7	1244.4	1253.0	1237.9	1233.6
30°	1337.1	1335.0	1339.3	1319.9	1311.2	1317.7	1315.6	1304.8
32.5°	1427.7	1416.9	1421.2	1404.0	1386.7	1386.7	1373.8	1360.9
35°	1552.8	1529.1	1518.3	1507.5	1475.2	1477.3	1466.5	1455.7
37.5°	1716.7	1680.0	1649.8	1656.3	1608.9	1604.6	1598.1	1583.0
40°	1904.3	1887.1	1852.6	1833.2	1783.6	1759.8	1751.2	1723.2
42.5°	2044.5	2048.8	1997.1	1962.6	1923.7	1882.8	1878.4	1850.4
45°	2195.5	2180.4	2132.9	2076.9	2059.6	2010.0	2003.5	1975.5
47.5°	2346.4	2294.7	2266.6	2208.4	2180.4	2117.8	2122.2	2096.3
50°	2488.8	2428.4	2402.5	2333.5	2290.4	2227.8	2212.7	2169.6
52.5°	2639.7	2583.7	2542.7	2454.3	2391.7	2344.3	2318.4	2301.2
55°	2842.5	2786.4	2693.7	2611.7	2560.0	2482.3	2473.7	2443.5
57.5°	2937.4	2896.4	2795.0	2736.8	2644.1	2564.3	2538.4	2478.0
60°	2948.2	2930.9	2823.1	2767.0	2631.1	2566.4	2534.1	2497.4
61°	2946.0	2924.4	2820.9	2751.9	2622.5	2557.8	2531.9	2499.6
62.5°	2937.4	2911.5	2797.2	2726.0	2605.2	2542.7	2521.1	2473.7
65°	2909.3	2838.2	2739.0	2674.3	2542.7	2486.6	2434.9	2387.4
67.5°	2786.4	2652.7	2611.7	2529.8	2396.0	2333.5	2286.1	2245.1
70°	2523.3	2434.9	2391.7	2290.4	2182.5	2130.8	2076.9	2025.1
72.5°	2214.9	2156.7	2120.0	1997.1	1917.3	1865.5	1815.9	1766.3
75°	1869.8	1826.7	1759.8	1667.1	1595.9	1544.2	1498.9	1475.2
77.5°	1468.7	1440.6	1388.9	1296.2	1257.3	1212.0	1166.8	1130.1
80°	1056.8	1035.2	994.2	927.4	895.0	849.7	817.4	787.2
82.5°	657.8	640.5	616.8	567.2	554.3	526.2	496.0	474.5
85°	314.9	304.1	295.5	263.1	261.0	237.2	226.4	213.5
87.5°	82.0	79.8	75.5	64.7	62.5	56.1	51.8	45.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)