

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: P197552

Luminaire Tested: **TT-C5-LED-E1-CQ-MS/DIM-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197552
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115423)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C5-LED-E1-CQ-MS/DIM-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
CONCENTRATED DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR
Light Source: (160) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9367.6 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 77
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

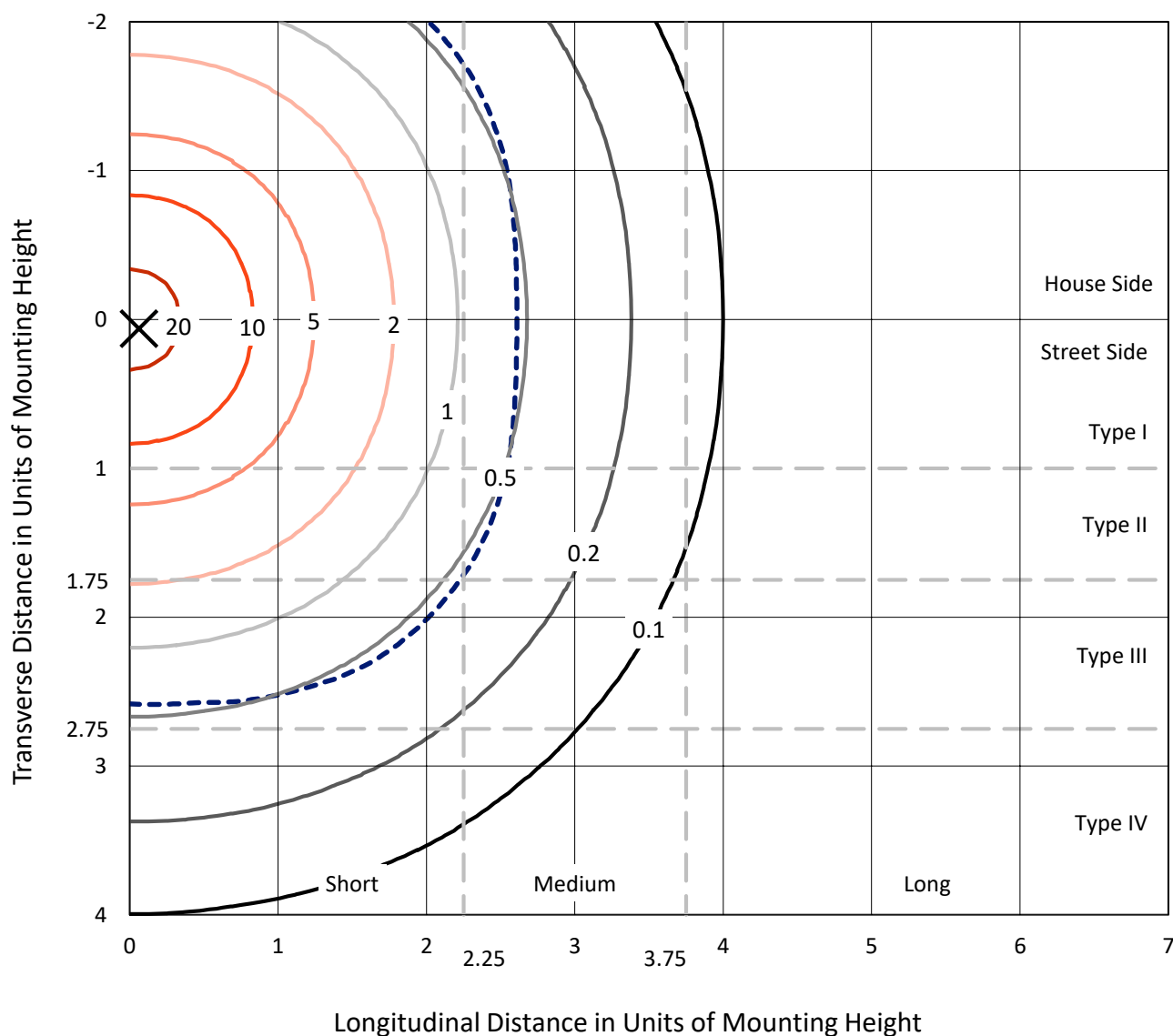


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

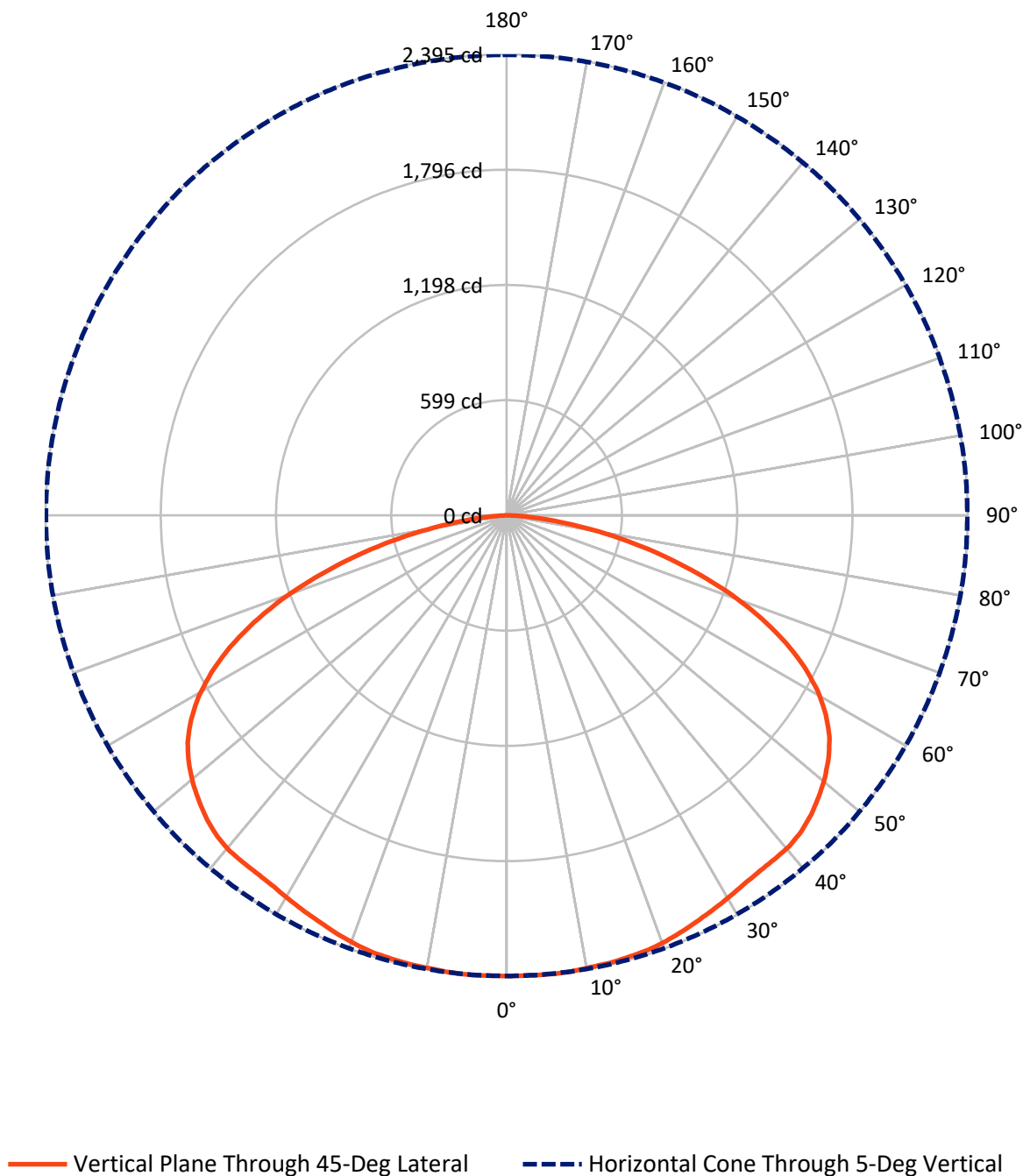


Based on 10 foot mounting height. Maximum calculated value = 23.9 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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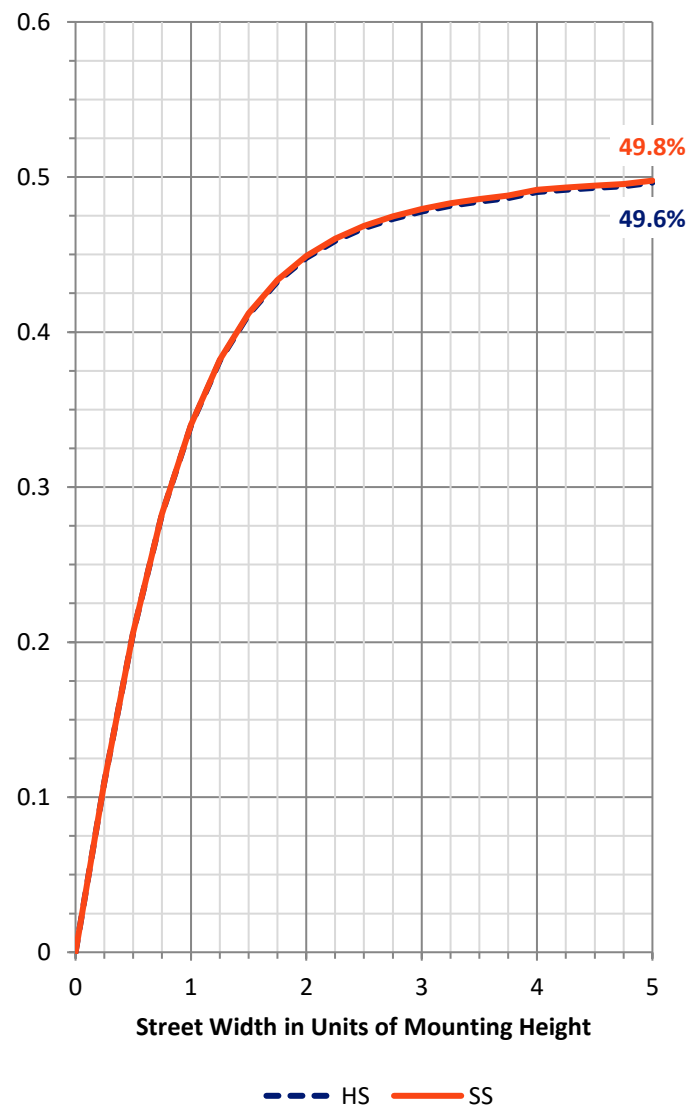
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4683.8	0.0	4683.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4683.8	0.0	4683.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	9367.6	0.0	9367.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.3	2.4
10°-20°	673.3	7.2
20°-30°	1074.5	11.5
30°-40°	1415.3	15.1
40°-50°	1683.5	18.0
50°-60°	1761.9	18.8
60°-70°	1498.3	16.0
70°-80°	851.5	9.1
80°-90°	181.1	1.9
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°	9367.6	100.0
0°-180°	9367.6	100.0

Coefficient of Utilization



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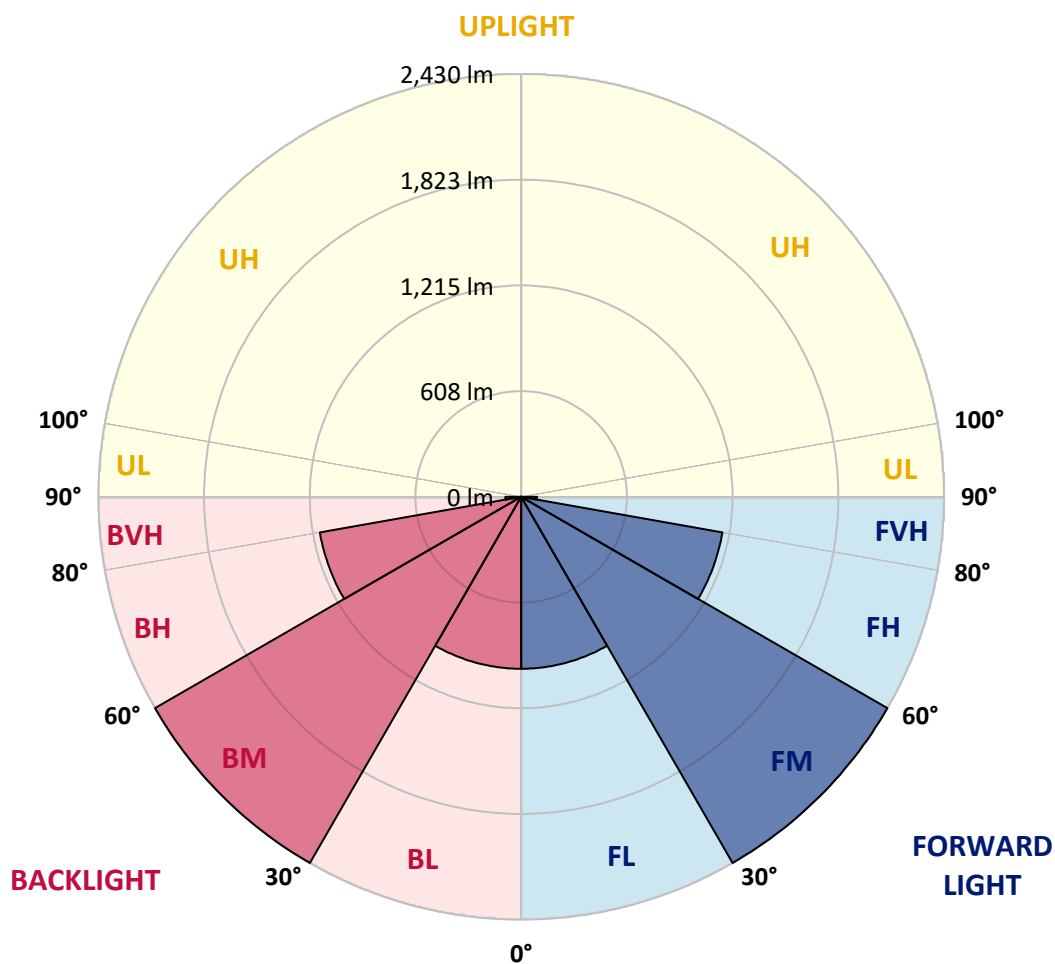
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	988.0	10.5			
FM	(30°-60°)	2430.3	25.9			
FH	(60°-80°)	1174.9	12.5			G1/1800
FVH	(80°-90°)	90.5	1.0			G1/100
BL	(0°-30°)	988.0	10.5	B2/1000		
BM	(30°-60°)	2430.3	25.9	B2/2500		
BH	(60°-80°)	1174.9	12.5	B3/2500		G1/1800
BVH	(80°-90°)	90.5	1.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2393.4	2393.4	2393.4	2393.4	2393.4	2393.4	2393.4	2393.4	2393.4	2393.4	2393.4
2.5°	2393.4	2393.4	2393.4	2393.4	2393.4	2393.4	2393.4	2393.4	2393.4	2393.4	2393.4
5°	2393.4	2393.4	2393.4	2393.4	2393.4	2393.4	2393.4	2393.4	2393.4	2395.2	2393.4
7.5°	2391.5	2391.5	2391.5	2391.5	2393.4	2391.5	2391.5	2393.4	2393.4	2393.4	2393.4
10°	2387.8	2386.0	2386.0	2387.8	2387.8	2387.8	2387.8	2387.8	2389.7	2387.8	2387.8
12.5°	2382.3	2380.4	2382.3	2382.3	2382.3	2384.1	2384.1	2384.1	2386.0	2386.0	2384.1
15°	2376.7	2376.7	2376.7	2376.7	2376.7	2378.6	2378.6	2380.4	2380.4	2380.4	2380.4
17.5°	2369.3	2369.3	2369.3	2371.2	2371.2	2373.0	2373.0	2373.0	2374.9	2374.9	2374.9
20°	2356.4	2354.6	2356.4	2356.4	2358.3	2360.1	2360.1	2362.0	2362.0	2362.0	2362.0
22.5°	2337.9	2337.9	2339.8	2339.8	2341.6	2343.5	2343.5	2345.3	2345.3	2345.3	2345.3
25°	2319.5	2321.3	2321.3	2323.2	2323.2	2325.0	2326.9	2326.9	2326.9	2326.9	2326.9
27.5°	2301.0	2302.9	2302.9	2302.9	2304.7	2306.6	2308.4	2310.2	2312.1	2310.2	2310.2
30°	2280.7	2280.7	2282.5	2284.4	2286.2	2288.1	2291.8	2293.6	2295.5	2293.6	2293.6
32.5°	2258.5	2260.4	2262.2	2264.1	2267.8	2271.5	2275.2	2277.0	2278.9	2277.0	2277.0
35°	2241.9	2241.9	2245.6	2249.3	2253.0	2258.5	2262.2	2265.9	2269.6	2267.8	2265.9
37.5°	2225.3	2225.3	2229.0	2234.5	2241.9	2249.3	2256.7	2262.2	2264.1	2264.1	2262.2
40°	2205.0	2206.8	2210.5	2219.8	2230.8	2240.1	2249.3	2256.7	2260.4	2260.4	2256.7
42.5°	2182.8	2184.7	2190.2	2199.4	2212.4	2223.5	2234.5	2240.1	2245.6	2245.6	2241.9
45°	2151.4	2153.3	2160.7	2169.9	2182.8	2193.9	2206.8	2212.4	2219.8	2217.9	2216.1
47.5°	2110.8	2112.6	2120.0	2129.3	2142.2	2155.1	2168.1	2177.3	2182.8	2182.8	2181.0
50°	2060.9	2062.8	2070.2	2079.4	2096.0	2110.8	2123.7	2133.0	2142.2	2142.2	2140.4
52.5°	1998.2	2001.8	2007.4	2020.3	2038.8	2055.4	2072.0	2086.8	2092.3	2094.2	2092.3
55°	1920.6	1924.3	1931.7	1946.4	1966.8	1987.1	2005.5	2022.2	2029.5	2035.1	2031.4
57.5°	1830.1	1833.8	1843.0	1859.6	1881.8	1902.1	1926.1	1944.6	1950.1	1955.7	1953.8
60°	1723.0	1728.5	1737.8	1756.2	1778.4	1800.6	1822.7	1844.9	1850.4	1857.8	1854.1
62.5°	1597.4	1603.0	1612.2	1632.5	1656.5	1676.8	1702.7	1723.0	1728.5	1735.9	1734.1
65°	1453.4	1458.9	1468.1	1490.3	1512.5	1534.6	1558.6	1580.8	1586.3	1593.7	1591.9
67.5°	1289.0	1294.6	1303.8	1329.6	1351.8	1374.0	1394.3	1416.4	1420.1	1427.5	1425.7
70°	1115.4	1122.8	1130.2	1154.2	1174.5	1193.0	1215.1	1233.6	1241.0	1244.7	1241.0
72.5°	941.8	947.4	954.8	971.4	986.1	1002.8	1024.9	1037.9	1043.4	1045.2	1045.2
75°	762.7	768.2	768.2	786.7	797.8	807.0	825.5	834.7	838.4	842.1	842.1
77.5°	592.8	589.1	592.8	600.2	607.6	615.0	626.0	631.6	635.3	642.7	639.0
80°	415.5	417.4	419.2	424.7	428.4	430.3	437.7	439.5	441.4	448.8	445.1
82.5°	267.8	264.1	267.8	265.9	269.6	264.1	267.8	273.3	269.6	273.3	275.2
85°	140.4	134.8	134.8	136.7	138.5	134.8	136.7	134.8	134.8	138.5	136.7
87.5°	44.3	42.5	44.3	42.5	44.3	42.5	44.3	46.2	44.3	44.3	46.2
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°	2393.4	2393.4	2393.4	2393.4	2393.4	2393.4	2393.4	2393.4
2.5°	2393.4	2393.4	2393.4	2393.4	2393.4	2393.4	2393.4	2393.4
5°	2393.4	2393.4	2393.4	2393.4	2393.4	2393.4	2393.4	2393.4
7.5°	2391.5	2391.5	2391.5	2391.5	2391.5	2391.5	2389.7	2391.5
10°	2387.8	2387.8	2387.8	2387.8	2386.0	2386.0	2386.0	2386.0
12.5°	2384.1	2384.1	2382.3	2382.3	2382.3	2382.3	2380.4	2380.4
15°	2380.4	2378.6	2378.6	2376.7	2376.7	2376.7	2374.9	2376.7
17.5°	2374.9	2373.0	2373.0	2371.2	2371.2	2369.3	2369.3	2369.3
20°	2362.0	2360.1	2360.1	2358.3	2358.3	2356.4	2354.6	2354.6
22.5°	2343.5	2343.5	2343.5	2341.6	2339.8	2339.8	2337.9	2337.9
25°	2326.9	2325.0	2325.0	2323.2	2321.3	2321.3	2319.5	2319.5
27.5°	2310.2	2308.4	2306.6	2302.9	2302.9	2301.0	2299.2	2297.3
30°	2291.8	2288.1	2284.4	2282.5	2280.7	2277.0	2275.2	2273.3
32.5°	2273.3	2269.6	2265.9	2262.2	2256.7	2254.8	2251.2	2251.2
35°	2262.2	2256.7	2251.2	2243.8	2238.2	2232.7	2229.0	2227.1
37.5°	2256.7	2249.3	2240.1	2230.8	2221.6	2214.2	2208.7	2208.7
40°	2249.3	2240.1	2229.0	2216.1	2205.0	2195.8	2190.2	2188.4
42.5°	2234.5	2225.3	2210.5	2199.4	2184.7	2175.4	2168.1	2166.2
45°	2208.7	2199.4	2186.5	2171.7	2157.0	2145.9	2138.5	2136.7
47.5°	2175.4	2164.4	2149.6	2134.8	2120.0	2107.1	2099.7	2097.9
50°	2133.0	2121.9	2107.1	2092.3	2075.7	2062.8	2053.6	2053.6
52.5°	2084.9	2072.0	2055.4	2038.8	2020.3	2007.4	1998.2	1996.3
55°	2022.2	2007.4	1990.8	1972.3	1952.0	1937.2	1926.1	1924.3
57.5°	1944.6	1928.0	1909.5	1889.2	1868.9	1852.3	1839.3	1837.5
60°	1846.7	1828.3	1809.8	1789.5	1767.3	1748.8	1735.9	1732.2
62.5°	1726.7	1706.4	1686.1	1667.6	1643.6	1625.1	1612.2	1608.5
65°	1584.5	1567.9	1547.6	1525.4	1499.5	1481.1	1468.1	1466.3
67.5°	1418.3	1401.7	1381.3	1361.0	1335.2	1318.6	1305.6	1301.9
70°	1235.5	1220.7	1204.1	1183.7	1161.6	1145.0	1132.0	1130.2
72.5°	1041.6	1028.6	1013.9	999.1	976.9	964.0	952.9	951.1
75°	842.1	829.2	818.1	807.0	790.4	781.2	770.1	770.1
77.5°	639.0	635.3	627.9	615.0	605.7	598.3	592.8	589.1
80°	446.9	443.2	439.5	432.1	426.6	424.7	421.1	417.4
82.5°	273.3	271.5	273.3	269.6	267.8	267.8	265.9	262.2
85°	138.5	140.4	138.5	136.7	136.7	136.7	136.7	134.8
87.5°	44.3	46.2	44.3	42.5	42.5	42.5	42.5	40.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)