

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: P197550

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197550
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
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
CONCENTRATED DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR
Light Source: (160) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9529 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

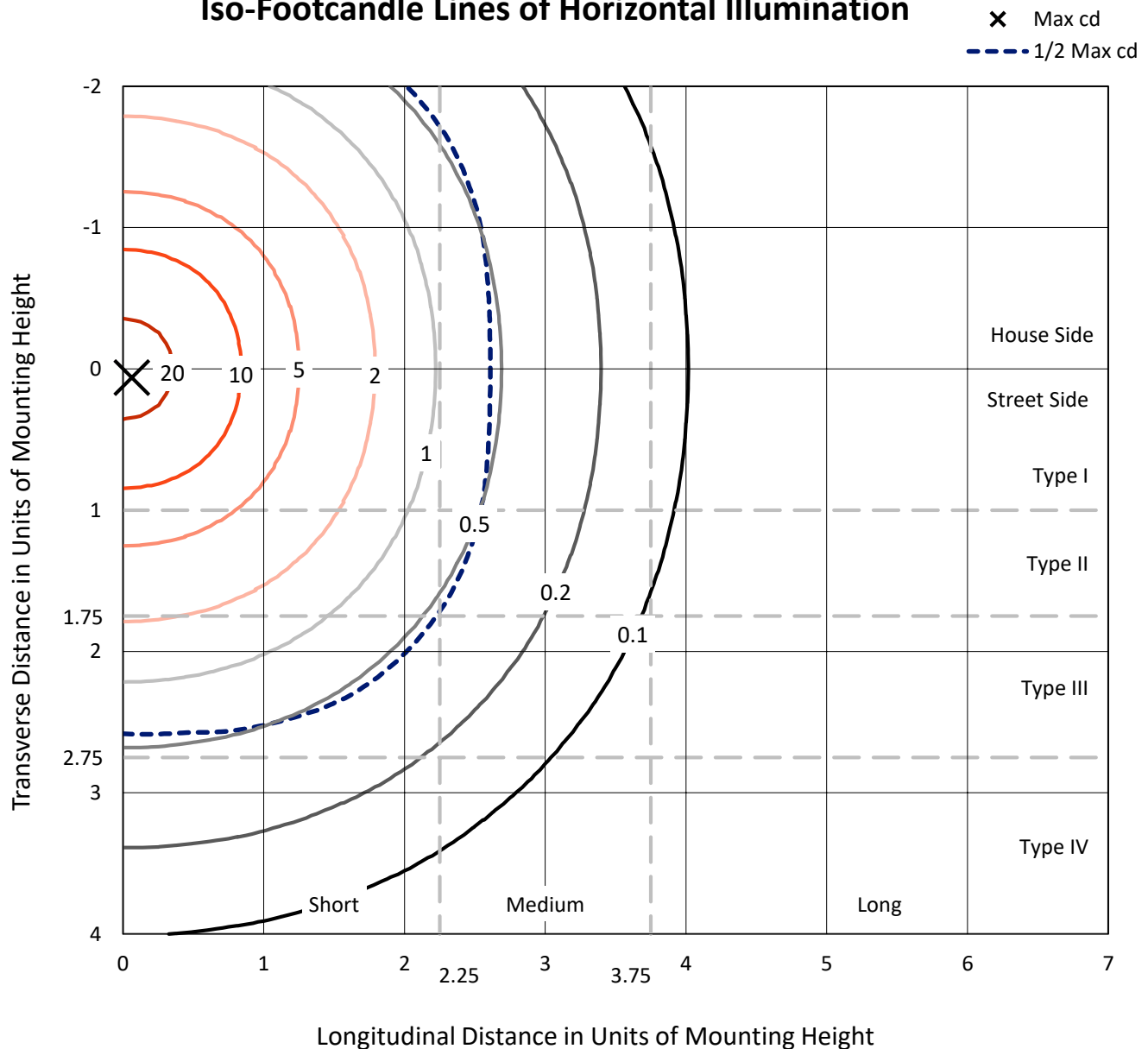
Input Watts (W): 77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

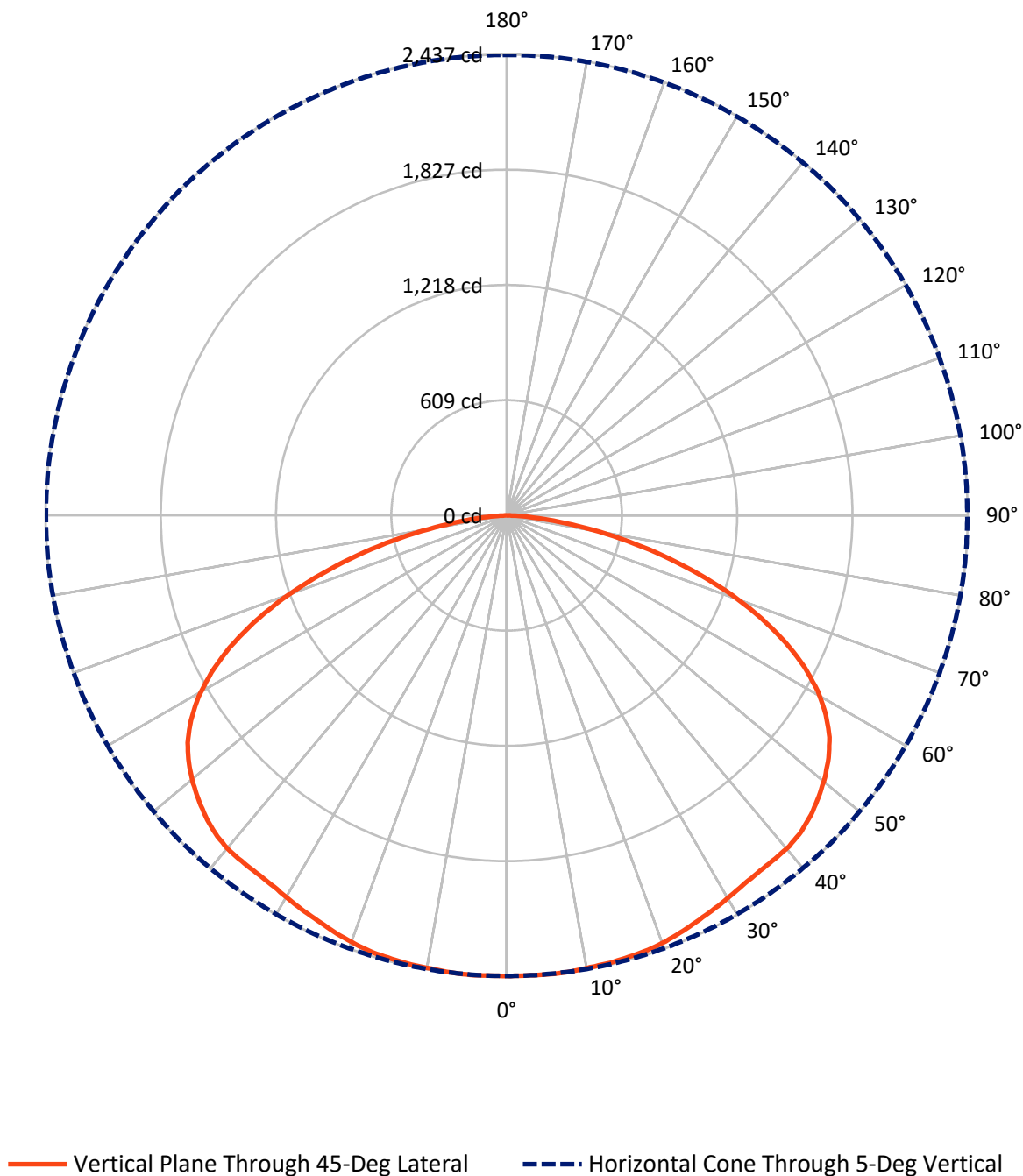


Based on 10 foot mounting height. Maximum calculated value = 24.3 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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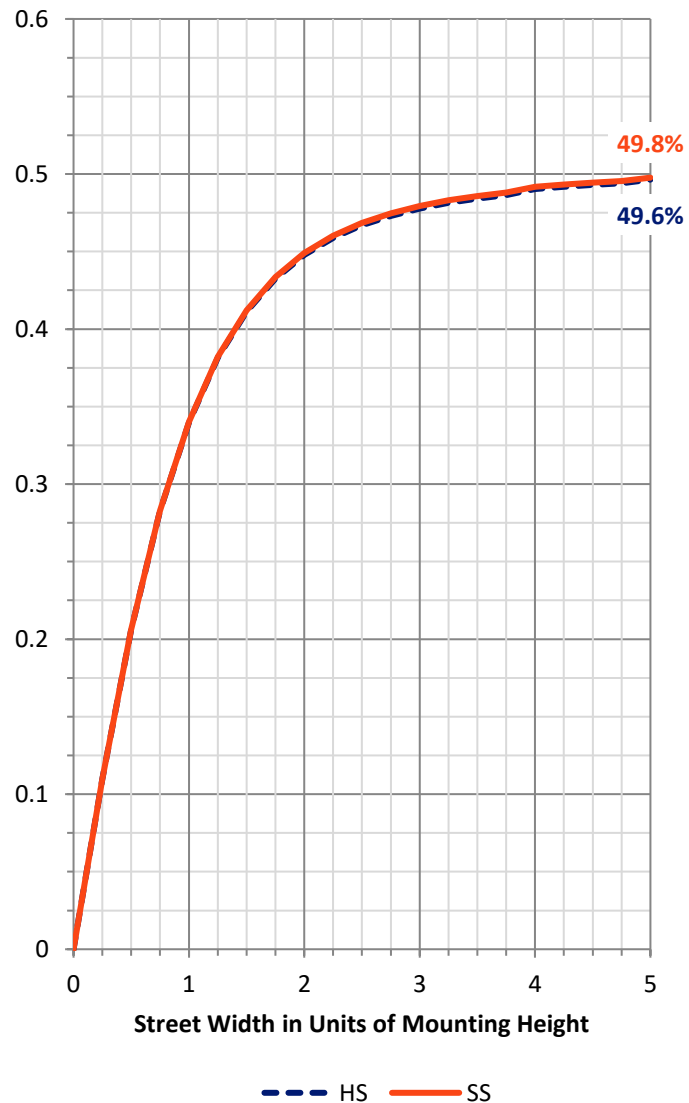
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4764.5	0.0	4764.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4764.5	0.0	4764.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	9529.0	0.0	9529.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.2	2.4
10°-20°	684.9	7.2
20°-30°	1093.0	11.5
30°-40°	1439.7	15.1
40°-50°	1712.5	18.0
50°-60°	1792.3	18.8
60°-70°	1524.1	16.0
70°-80°	866.2	9.1
80°-90°	184.2	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°	9529.0	100.0
0°-180°	9529.0	100.0

Coefficient of Utilization



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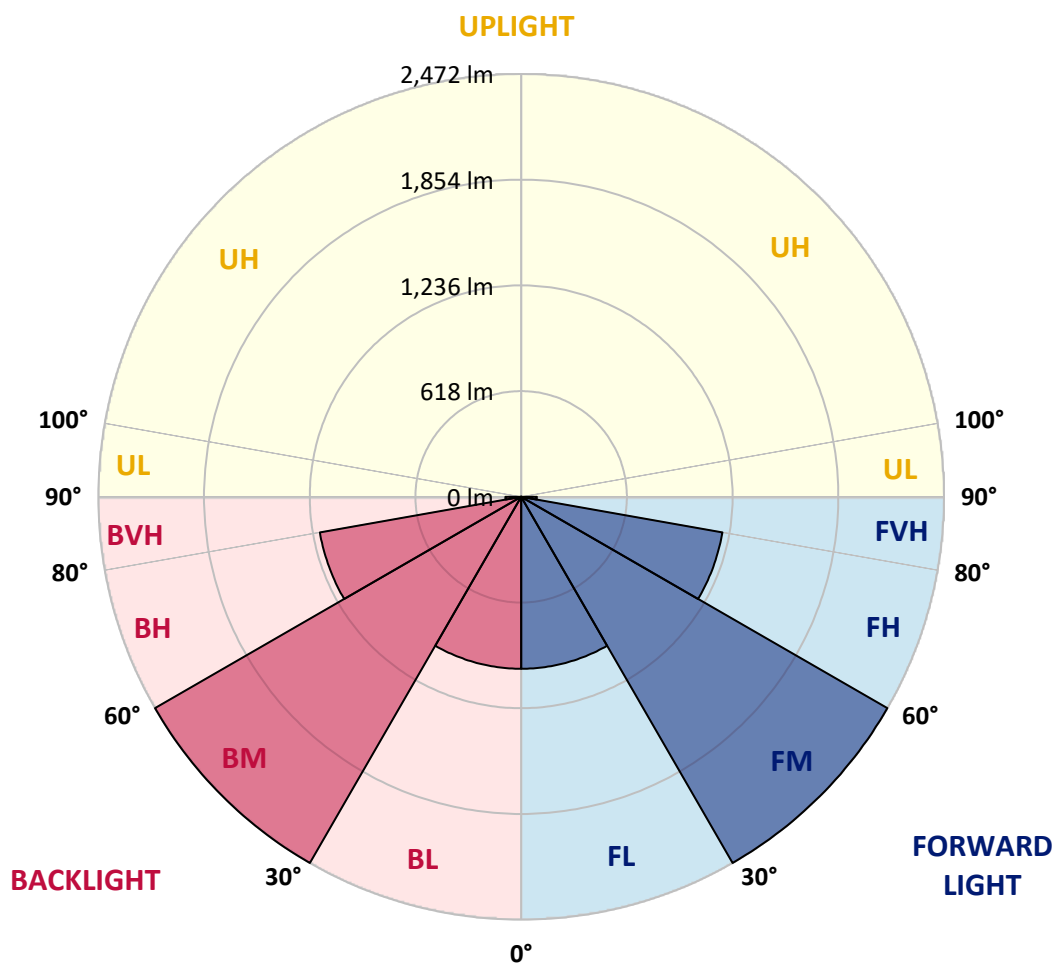
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1005.1	10.5			
FM	(30°-60°)	2472.2	25.9			
FH	(60°-80°)	1195.2	12.5			G1/1800
FVH	(80°-90°)	92.1	1.0			G1/100
BL	(0°-30°)	1005.1	10.5	B3/2500		
BM	(30°-60°)	2472.2	25.9	B2/2500		
BH	(60°-80°)	1195.2	12.5	B3/2500		G1/1800
BVH	(80°-90°)	92.1	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°	2434.6	2434.6	2434.6	2434.6	2434.6	2434.6	2434.6	2434.6	2434.6	2434.6	2434.6
2.5°	2434.6	2434.6	2434.6	2434.6	2434.6	2434.6	2434.6	2434.6	2434.6	2434.6	2434.6
5°	2434.6	2434.6	2434.6	2434.6	2434.6	2434.6	2434.6	2434.6	2434.6	2436.5	2434.6
7.5°	2432.7	2432.7	2432.7	2432.7	2434.6	2432.7	2432.7	2434.6	2434.6	2434.6	2434.6
10°	2429.0	2427.1	2427.1	2429.0	2429.0	2429.0	2429.0	2429.0	2430.8	2429.0	2429.0
12.5°	2423.3	2421.4	2423.3	2423.3	2423.3	2425.2	2425.2	2425.2	2427.1	2427.1	2425.2
15°	2417.7	2417.7	2417.7	2417.7	2417.7	2419.6	2419.6	2421.4	2421.4	2421.4	2421.4
17.5°	2410.2	2410.2	2410.2	2412.1	2412.1	2413.9	2413.9	2413.9	2415.8	2415.8	2415.8
20°	2397.0	2395.1	2397.0	2397.0	2398.9	2400.8	2400.8	2402.7	2402.7	2402.7	2402.7
22.5°	2378.2	2378.2	2380.1	2380.1	2382.0	2383.9	2383.9	2385.8	2385.8	2385.8	2385.8
25°	2359.5	2361.3	2361.3	2363.2	2363.2	2365.1	2367.0	2367.0	2367.0	2367.0	2367.0
27.5°	2340.7	2342.5	2342.5	2342.5	2344.4	2346.3	2348.2	2350.1	2351.9	2350.1	2350.1
30°	2320.0	2320.0	2321.9	2323.8	2325.6	2327.5	2331.3	2333.2	2335.0	2333.2	2333.2
32.5°	2297.5	2299.3	2301.2	2303.1	2306.9	2310.6	2314.4	2316.2	2318.1	2316.2	2316.2
35°	2280.6	2280.6	2284.3	2288.1	2291.8	2297.5	2301.2	2305.0	2308.7	2306.9	2305.0
37.5°	2263.6	2263.6	2267.4	2273.0	2280.6	2288.1	2295.6	2301.2	2303.1	2303.1	2301.2
40°	2243.0	2244.9	2248.6	2258.0	2269.3	2278.7	2288.1	2295.6	2299.3	2299.3	2295.6
42.5°	2220.4	2222.3	2228.0	2237.3	2250.5	2261.8	2273.0	2278.7	2284.3	2284.3	2280.6
45°	2188.5	2190.4	2197.9	2207.3	2220.4	2231.7	2244.9	2250.5	2258.0	2256.1	2254.3
47.5°	2147.2	2149.1	2156.6	2166.0	2179.1	2192.3	2205.4	2214.8	2220.4	2220.4	2218.6
50°	2096.5	2098.3	2105.9	2115.2	2132.1	2147.2	2160.3	2169.7	2179.1	2179.1	2177.2
52.5°	2032.6	2036.3	2042.0	2055.1	2073.9	2090.8	2107.7	2122.8	2128.4	2130.3	2128.4
55°	1953.7	1957.4	1965.0	1980.0	2000.7	2021.3	2040.1	2057.0	2064.5	2070.2	2066.4
57.5°	1861.6	1865.4	1874.8	1891.7	1914.2	1934.9	1959.3	1978.1	1983.7	1989.4	1987.5
60°	1752.7	1758.3	1767.7	1786.5	1809.0	1831.6	1854.1	1876.7	1882.3	1889.8	1886.1
62.5°	1624.9	1630.6	1640.0	1660.6	1685.1	1705.7	1732.0	1752.7	1758.3	1765.8	1764.0
65°	1478.4	1484.1	1493.4	1516.0	1538.5	1561.1	1585.5	1608.0	1613.7	1621.2	1619.3
67.5°	1311.2	1316.9	1326.3	1352.6	1375.1	1397.6	1418.3	1440.8	1444.6	1452.1	1450.2
70°	1134.6	1142.2	1149.7	1174.1	1194.8	1213.5	1236.1	1254.9	1262.4	1266.1	1262.4
72.5°	958.1	963.7	971.2	988.1	1003.1	1020.1	1042.6	1055.7	1061.4	1063.3	1063.3
75°	775.8	781.5	781.5	800.3	811.5	820.9	839.7	849.1	852.9	856.6	856.6
77.5°	603.0	599.3	603.0	610.5	618.0	625.6	636.8	642.5	646.2	653.7	650.0
80°	422.7	424.6	426.4	432.1	435.8	437.7	445.2	447.1	449.0	456.5	452.7
82.5°	272.4	268.6	272.4	270.5	274.3	268.6	272.4	278.0	274.3	278.0	279.9
85°	142.8	137.1	137.1	139.0	140.9	137.1	139.0	137.1	137.1	140.9	139.0
87.5°	45.1	43.2	45.1	43.2	45.1	43.2	45.1	47.0	45.1	45.1	47.0
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°	2434.6	2434.6	2434.6	2434.6	2434.6	2434.6	2434.6	2434.6
2.5°	2434.6	2434.6	2434.6	2434.6	2434.6	2434.6	2434.6	2434.6
5°	2434.6	2434.6	2434.6	2434.6	2434.6	2434.6	2434.6	2434.6
7.5°	2432.7	2432.7	2432.7	2432.7	2432.7	2432.7	2430.8	2432.7
10°	2429.0	2429.0	2429.0	2429.0	2427.1	2427.1	2427.1	2427.1
12.5°	2425.2	2425.2	2423.3	2423.3	2423.3	2423.3	2421.4	2421.4
15°	2421.4	2419.6	2419.6	2417.7	2417.7	2417.7	2415.8	2417.7
17.5°	2415.8	2413.9	2413.9	2412.1	2412.1	2410.2	2410.2	2410.2
20°	2402.7	2400.8	2400.8	2398.9	2398.9	2397.0	2395.1	2395.1
22.5°	2383.9	2383.9	2383.9	2382.0	2380.1	2380.1	2378.2	2378.2
25°	2367.0	2365.1	2365.1	2363.2	2361.3	2361.3	2359.5	2359.5
27.5°	2350.1	2348.2	2346.3	2342.5	2342.5	2340.7	2338.8	2336.9
30°	2331.3	2327.5	2323.8	2321.9	2320.0	2316.2	2314.4	2312.5
32.5°	2312.5	2308.7	2305.0	2301.2	2295.6	2293.7	2289.9	2289.9
35°	2301.2	2295.6	2289.9	2282.4	2276.8	2271.2	2267.4	2265.5
37.5°	2295.6	2288.1	2278.7	2269.3	2259.9	2252.4	2246.7	2246.7
40°	2288.1	2278.7	2267.4	2254.3	2243.0	2233.6	2228.0	2226.1
42.5°	2273.0	2263.6	2248.6	2237.3	2222.3	2212.9	2205.4	2203.5
45°	2246.7	2237.3	2224.2	2209.2	2194.1	2182.9	2175.4	2173.5
47.5°	2212.9	2201.7	2186.6	2171.6	2156.6	2143.4	2135.9	2134.0
50°	2169.7	2158.4	2143.4	2128.4	2111.5	2098.3	2088.9	2088.9
52.5°	2120.9	2107.7	2090.8	2073.9	2055.1	2042.0	2032.6	2030.7
55°	2057.0	2042.0	2025.1	2006.3	1985.6	1970.6	1959.3	1957.4
57.5°	1978.1	1961.2	1942.4	1921.8	1901.1	1884.2	1871.0	1869.2
60°	1878.5	1859.8	1841.0	1820.3	1797.8	1779.0	1765.8	1762.1
62.5°	1756.4	1735.8	1715.1	1696.3	1671.9	1653.1	1640.0	1636.2
65°	1611.8	1594.9	1574.2	1551.7	1525.4	1506.6	1493.4	1491.6
67.5°	1442.7	1425.8	1405.2	1384.5	1358.2	1341.3	1328.1	1324.4
70°	1256.7	1241.7	1224.8	1204.1	1181.6	1164.7	1151.5	1149.7
72.5°	1059.5	1046.4	1031.3	1016.3	993.8	980.6	969.3	967.5
75°	856.6	843.5	832.2	820.9	804.0	794.6	783.4	783.4
77.5°	650.0	646.2	638.7	625.6	616.2	608.6	603.0	599.3
80°	454.6	450.9	447.1	439.6	433.9	432.1	428.3	424.6
82.5°	278.0	276.1	278.0	274.3	272.4	272.4	270.5	266.8
85°	140.9	142.8	140.9	139.0	139.0	139.0	139.0	137.1
87.5°	45.1	47.0	45.1	43.2	43.2	43.2	43.2	41.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)