

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: P197529

Luminaire Tested: **TT-C6-LED-E1-CQ-LWR-LW-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197529
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115438)
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-CQ-LWR-LW-8030
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
CONCENTRATED DISTRIBUTION WITH LumaWatt WIRELESS SENSOR
Light Source: (160) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8607.6 lumens
Efficiency: N/A
Efficacy: 79.7 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): 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

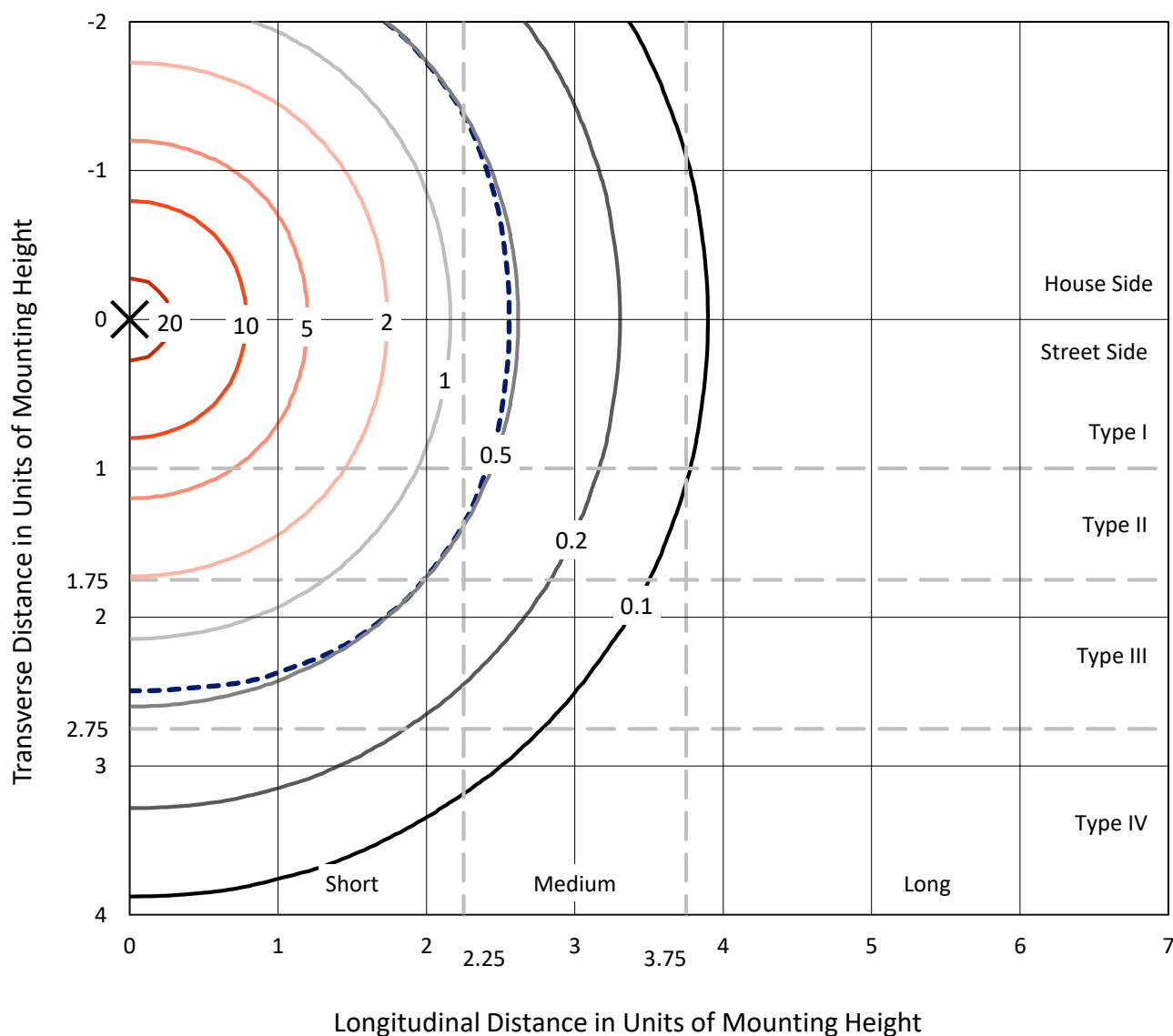


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

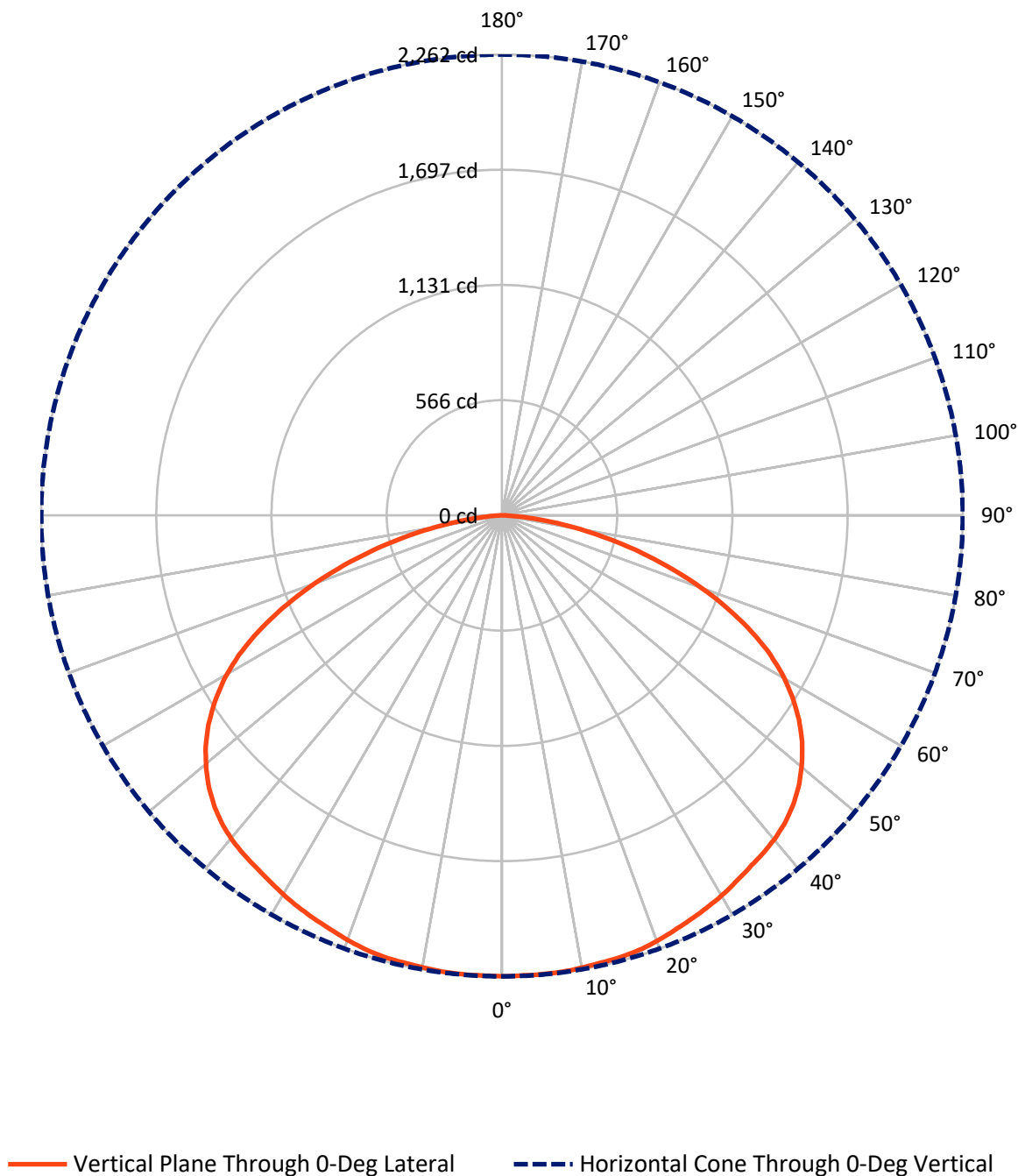


Based on 10 foot mounting height. Maximum calculated value = 22.6 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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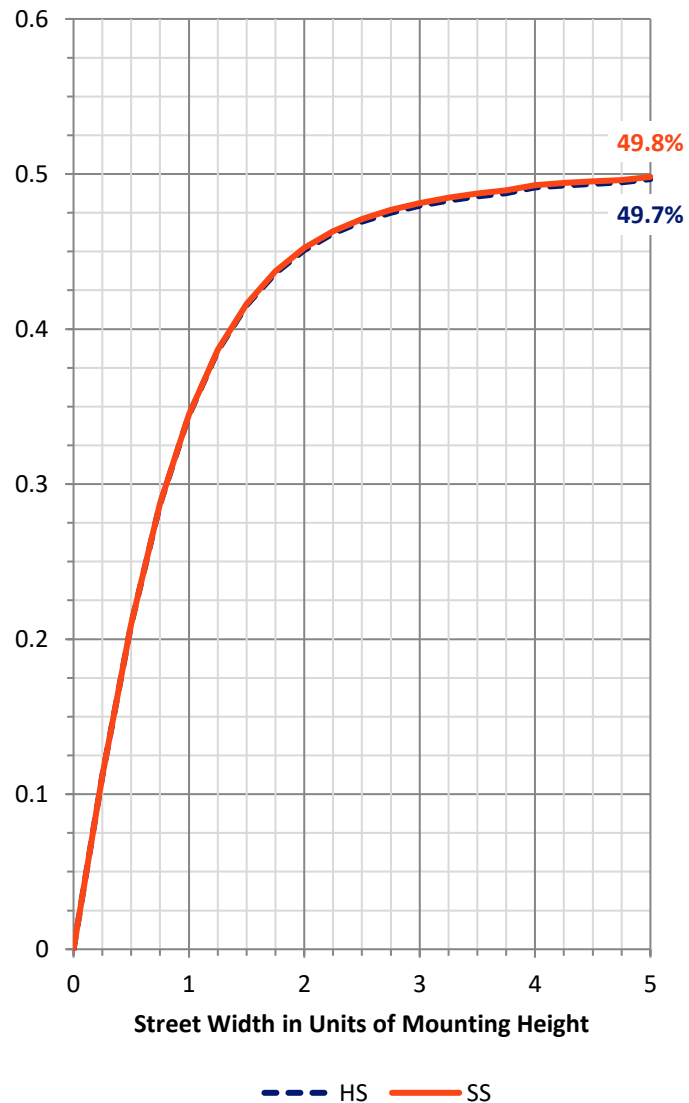
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4303.8	0.0	4303.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4303.8	0.0	4303.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	8607.6	0.0	8607.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.5	2.5
10°-20°	634.8	7.4
20°-30°	1011.0	11.7
30°-40°	1325.5	15.4
40°-50°	1563.2	18.2
50°-60°	1619.1	18.8
60°-70°	1354.0	15.7
70°-80°	738.0	8.6
80°-90°	146.5	1.7
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°	8607.6	100.0
0°-180°	8607.6	100.0

Coefficient of Utilization



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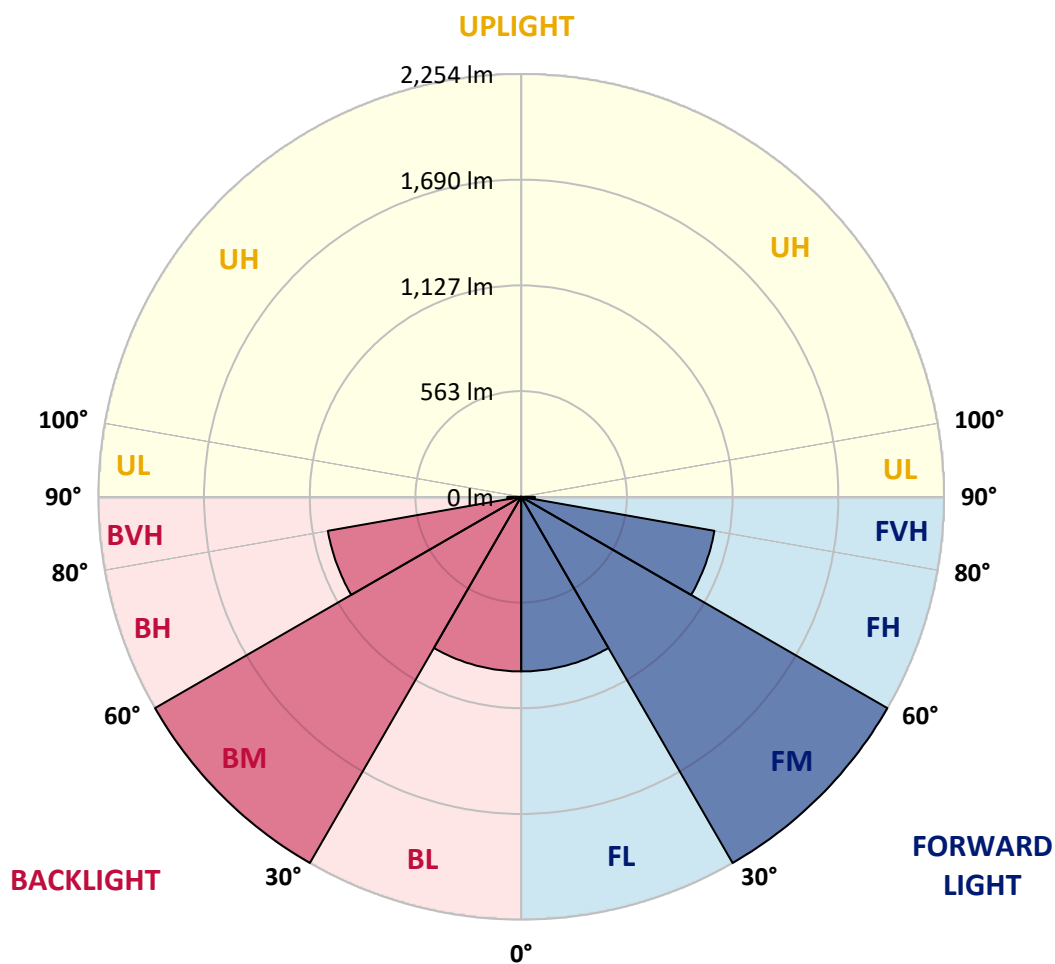
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	930.6	10.8			
FM	(30°-60°)	2253.9	26.2			
FH	(60°-80°)	1046.0	12.2			G1/1800
FVH	(80°-90°)	73.3	0.9			G1/100
BL	(0°-30°)	930.6	10.8	B2/1000		
BM	(30°-60°)	2253.9	26.2	B2/2500		
BH	(60°-80°)	1046.0	12.2	B3/2500		G1/1800
BVH	(80°-90°)	73.3	0.9			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°	2262.1	2262.1	2262.1	2262.1	2262.1	2262.1	2262.1	2262.1	2262.1	2262.1	2262.1
2.5°	2260.3	2262.1	2262.1	2262.1	2262.1	2262.1	2262.1	2262.1	2260.3	2262.1	2262.1
5°	2260.3	2260.3	2260.3	2260.3	2262.1	2260.3	2260.3	2260.3	2260.3	2260.3	2260.3
7.5°	2258.5	2256.7	2256.7	2256.7	2256.7	2256.7	2258.5	2258.5	2258.5	2258.5	2258.5
10°	2253.0	2253.0	2253.0	2253.0	2253.0	2253.0	2253.0	2253.0	2253.0	2253.0	2253.0
12.5°	2247.6	2247.6	2247.6	2247.6	2249.4	2249.4	2249.4	2249.4	2249.4	2249.4	2247.6
15°	2244.0	2244.0	2244.0	2244.0	2244.0	2244.0	2244.0	2244.0	2244.0	2244.0	2244.0
17.5°	2234.9	2234.9	2234.9	2234.9	2236.7	2236.7	2236.7	2236.7	2236.7	2236.7	2236.7
20°	2220.4	2220.4	2220.4	2220.4	2220.4	2222.2	2224.1	2224.1	2224.1	2224.1	2224.1
22.5°	2202.3	2202.3	2204.1	2204.1	2205.9	2205.9	2207.8	2207.8	2207.8	2207.8	2207.8
25°	2186.0	2186.0	2186.0	2187.8	2187.8	2187.8	2189.6	2191.5	2191.5	2191.5	2189.6
27.5°	2169.7	2169.7	2169.7	2171.5	2171.5	2171.5	2173.3	2173.3	2175.2	2173.3	2173.3
30°	2151.6	2149.8	2149.8	2151.6	2153.4	2153.4	2155.2	2155.2	2155.2	2155.2	2153.4
32.5°	2129.9	2129.9	2131.7	2133.5	2133.5	2135.3	2137.1	2137.1	2137.1	2138.9	2135.3
35°	2110.0	2111.8	2111.8	2113.6	2117.2	2119.0	2120.8	2122.6	2122.6	2122.6	2119.0
37.5°	2093.7	2095.5	2097.3	2100.9	2104.5	2108.1	2111.8	2115.4	2113.6	2113.6	2108.1
40°	2073.7	2075.5	2079.2	2082.8	2090.0	2093.7	2099.1	2102.7	2104.5	2102.7	2097.3
42.5°	2046.6	2048.4	2052.0	2057.4	2066.5	2073.7	2079.2	2084.6	2086.4	2084.6	2079.2
45°	2010.3	2012.2	2015.8	2023.0	2033.9	2041.1	2050.2	2055.6	2059.2	2059.2	2053.8
47.5°	1965.1	1966.9	1972.3	1979.6	1990.4	1999.5	2010.3	2017.6	2021.2	2024.8	2019.4
50°	1908.9	1910.7	1918.0	1927.0	1936.1	1948.8	1961.4	1972.3	1977.7	1979.6	1977.7
52.5°	1845.5	1847.3	1854.6	1863.6	1876.3	1890.8	1905.3	1918.0	1925.2	1928.8	1925.2
55°	1769.5	1773.1	1778.5	1791.2	1805.7	1818.4	1836.5	1851.0	1860.0	1861.8	1860.0
57.5°	1680.7	1686.2	1691.6	1706.1	1720.6	1738.7	1753.2	1767.7	1778.5	1780.3	1780.3
60°	1581.1	1584.7	1590.2	1604.7	1621.0	1633.6	1653.6	1668.0	1677.1	1677.1	1678.9
62.5°	1463.4	1467.0	1476.1	1486.9	1505.0	1517.7	1534.0	1548.5	1557.6	1561.2	1559.4
65°	1325.7	1329.4	1334.8	1349.3	1363.8	1378.3	1394.6	1407.2	1416.3	1418.1	1416.3
67.5°	1173.6	1177.2	1180.9	1199.0	1213.5	1218.9	1238.8	1249.7	1255.1	1256.9	1256.9
70°	1012.4	1014.2	1019.7	1028.7	1045.0	1050.5	1063.1	1072.2	1075.8	1083.1	1077.6
72.5°	844.0	847.6	860.3	862.1	874.8	882.0	885.6	885.6	894.7	894.7	896.5
75°	677.4	679.2	684.6	686.4	695.5	695.5	693.7	697.3	704.5	704.5	706.3
77.5°	512.5	512.5	521.6	514.4	518.0	510.7	514.4	510.7	516.2	514.4	516.2
80°	358.6	358.6	364.0	356.8	358.6	351.4	353.2	351.4	351.4	353.2	353.2
82.5°	221.0	222.8	226.4	221.0	221.0	215.5	217.3	219.1	219.1	217.3	215.5
85°	108.7	108.7	112.3	110.5	108.7	105.0	106.9	108.7	108.7	106.9	106.9
87.5°	29.0	29.0	30.8	30.8	29.0	27.2	29.0	30.8	30.8	30.8	29.0
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°	2262.1	2262.1	2262.1	2262.1	2262.1	2262.1	2262.1	2262.1
2.5°	2260.3	2260.3	2262.1	2260.3	2262.1	2260.3	2262.1	2262.1
5°	2260.3	2260.3	2260.3	2260.3	2260.3	2260.3	2260.3	2260.3
7.5°	2256.7	2258.5	2256.7	2256.7	2256.7	2258.5	2256.7	2258.5
10°	2253.0	2253.0	2253.0	2253.0	2253.0	2253.0	2253.0	2253.0
12.5°	2247.6	2247.6	2247.6	2247.6	2247.6	2247.6	2247.6	2245.8
15°	2244.0	2242.2	2242.2	2242.2	2240.4	2240.4	2240.4	2240.4
17.5°	2236.7	2234.9	2233.1	2233.1	2233.1	2233.1	2231.3	2231.3
20°	2224.1	2222.2	2220.4	2220.4	2218.6	2218.6	2216.8	2216.8
22.5°	2205.9	2205.9	2204.1	2202.3	2202.3	2200.5	2200.5	2198.7
25°	2189.6	2187.8	2186.0	2184.2	2182.4	2182.4	2180.6	2178.8
27.5°	2171.5	2167.9	2166.1	2164.3	2162.5	2160.7	2158.9	2157.0
30°	2151.6	2148.0	2144.4	2142.6	2138.9	2135.3	2133.5	2131.7
32.5°	2131.7	2128.1	2122.6	2117.2	2113.6	2110.0	2106.3	2104.5
35°	2115.4	2108.1	2102.7	2095.5	2090.0	2084.6	2082.8	2081.0
37.5°	2102.7	2095.5	2086.4	2079.2	2073.7	2066.5	2062.9	2059.2
40°	2090.0	2081.0	2070.1	2061.1	2053.8	2044.8	2041.1	2037.5
42.5°	2071.9	2061.1	2050.2	2039.3	2028.5	2019.4	2014.0	2010.3
45°	2046.6	2035.7	2023.0	2008.5	1997.7	1986.8	1981.4	1977.7
47.5°	2012.2	2001.3	1986.8	1974.1	1961.4	1950.6	1943.3	1939.7
50°	1970.5	1959.6	1945.1	1930.7	1918.0	1905.3	1899.9	1894.4
52.5°	1918.0	1908.9	1892.6	1881.8	1867.3	1854.6	1849.2	1845.5
55°	1852.8	1843.7	1827.4	1816.6	1802.1	1791.2	1784.0	1778.5
57.5°	1773.1	1765.8	1747.7	1736.9	1722.4	1711.5	1706.1	1702.5
60°	1675.3	1668.0	1649.9	1639.1	1626.4	1613.7	1610.1	1606.5
62.5°	1553.9	1550.3	1535.8	1523.2	1510.5	1497.8	1494.2	1492.4
65°	1412.7	1409.1	1396.4	1385.5	1374.6	1363.8	1360.2	1356.5
67.5°	1251.5	1249.7	1238.8	1229.8	1222.5	1211.6	1209.8	1206.2
70°	1079.4	1075.8	1066.8	1059.5	1054.1	1045.0	1043.2	1039.6
72.5°	900.1	898.3	892.9	883.8	883.8	871.1	869.3	867.5
75°	702.7	711.8	704.5	700.9	700.9	693.7	693.7	691.8
77.5°	514.4	523.4	528.8	521.6	528.8	521.6	521.6	519.8
80°	351.4	358.6	364.0	358.6	367.7	362.2	362.2	369.5
82.5°	213.7	221.0	224.6	222.8	228.2	226.4	224.6	230.0
85°	105.0	108.7	110.5	110.5	112.3	108.7	112.3	114.1
87.5°	27.2	29.0	30.8	29.0	30.8	30.8	30.8	32.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)