

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: P197528

Luminaire Tested: **TT-C5-LED-E1-CQ-LWR-LW-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197528
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-C5-LED-E1-CQ-LWR-LW-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
CONCENTRATED DISTRIBUTION WITH LumaWatt WIRELESS SENSOR
Light Source: (160) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8776.8 lumens
Efficiency: N/A
Efficacy: 114.0 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

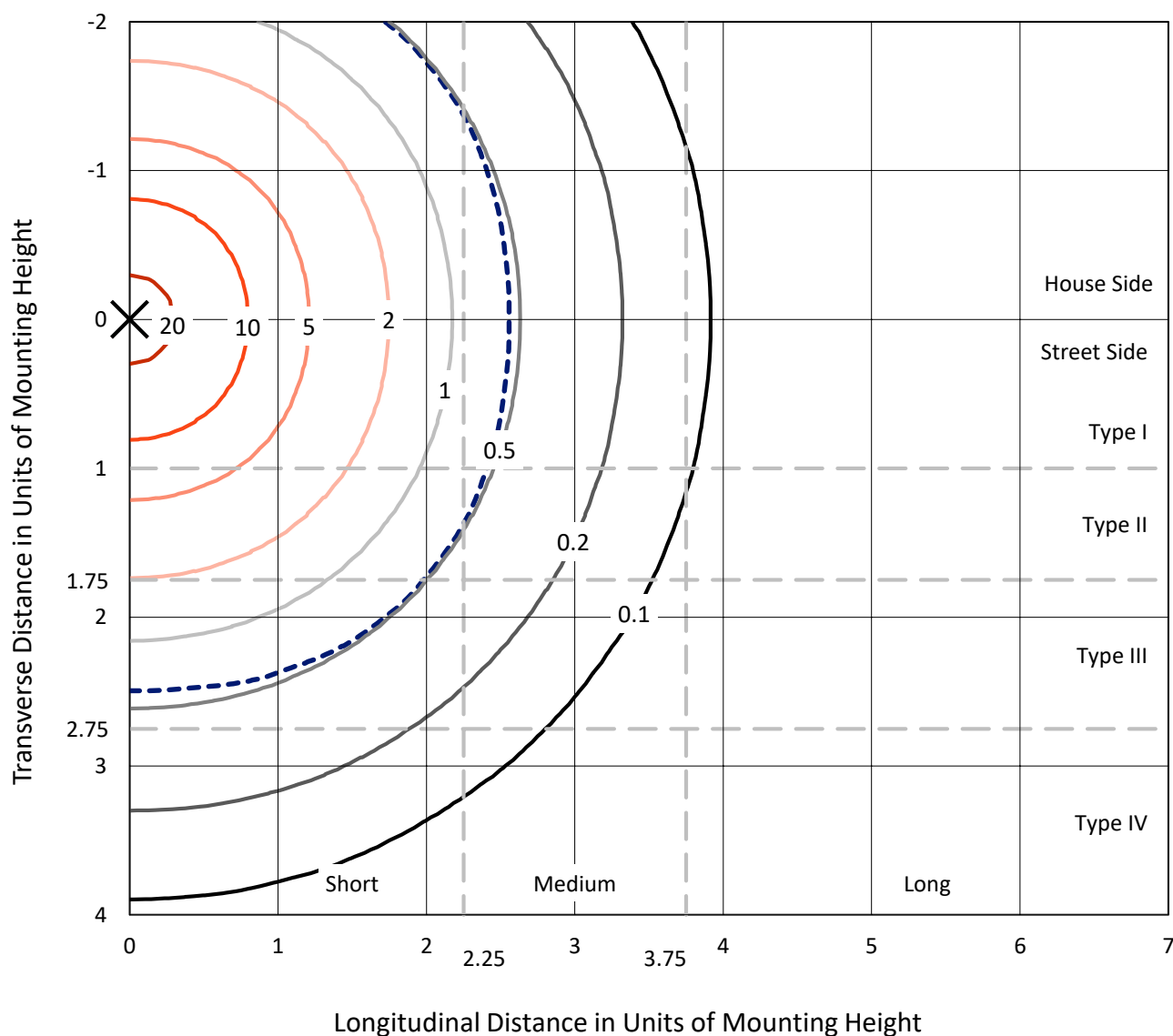


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

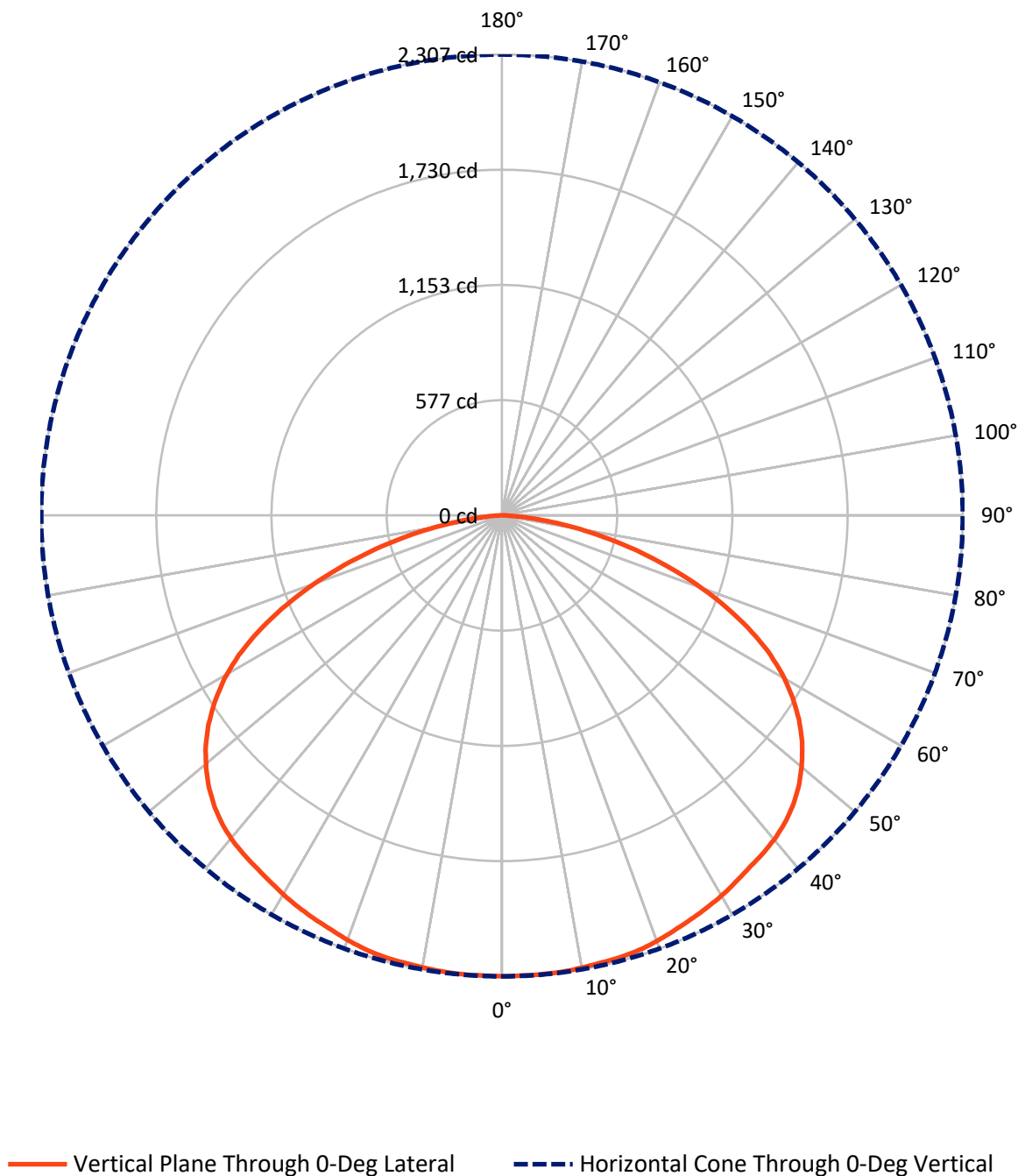


Based on 10 foot mounting height. Maximum calculated value = 23.1 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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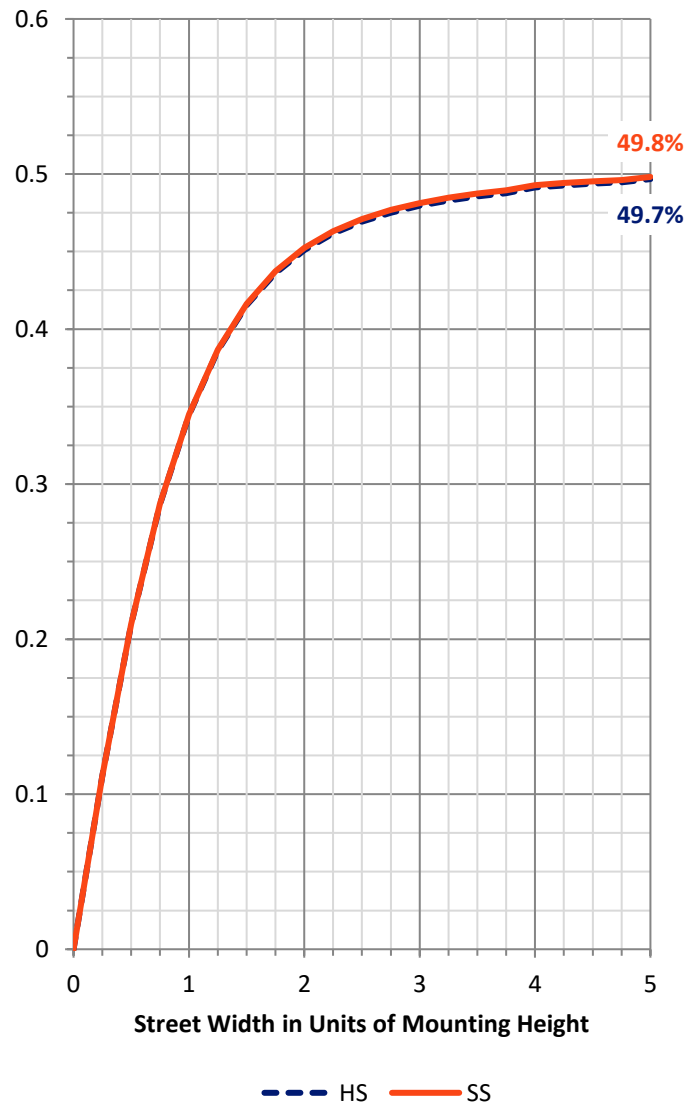
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4388.4	0.0	4388.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4388.4	0.0	4388.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	8776.8	0.0	8776.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.8	2.5
10°-20°	647.3	7.4
20°-30°	1030.8	11.7
30°-40°	1351.5	15.4
40°-50°	1594.0	18.2
50°-60°	1650.9	18.8
60°-70°	1380.6	15.7
70°-80°	752.5	8.6
80°-90°	149.4	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°	8776.8	100.0
0°-180°	8776.8	100.0

Coefficient of Utilization



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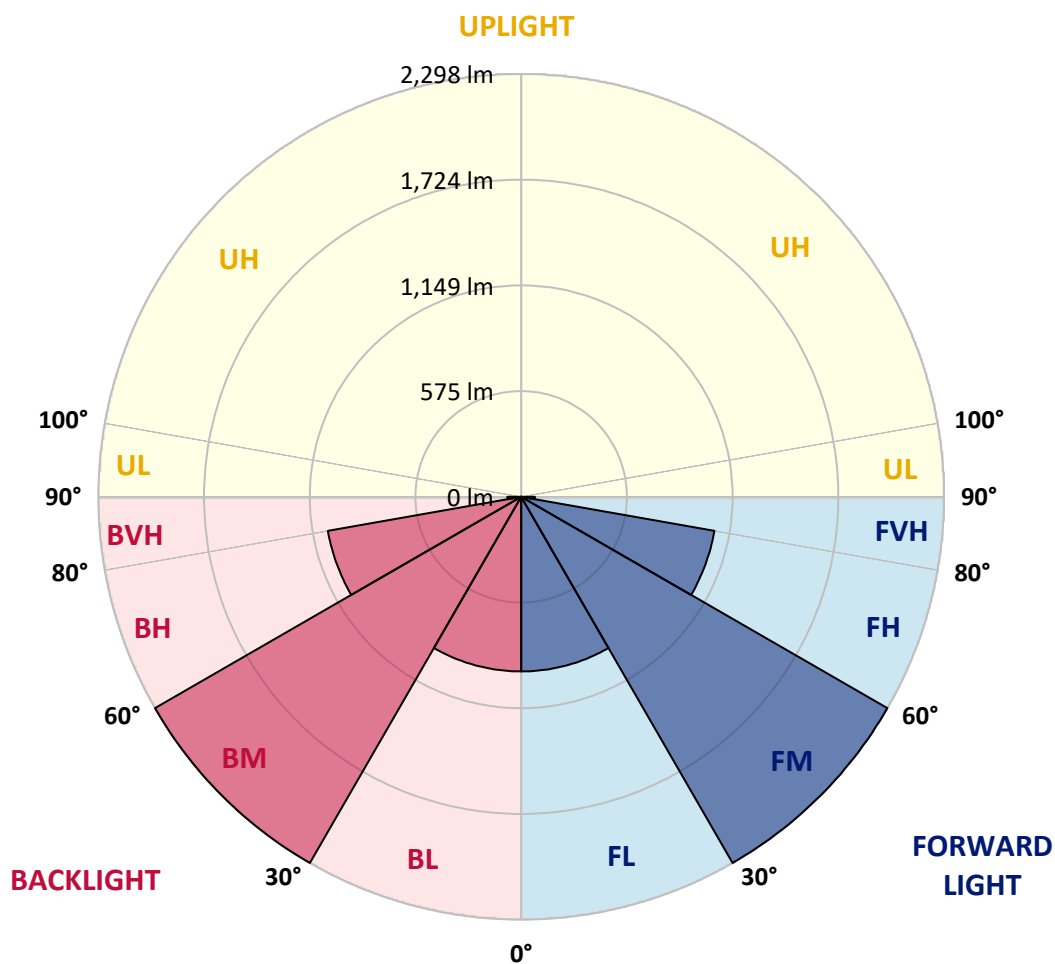
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	948.9	10.8			
FM	(30°-60°)	2298.2	26.2			
FH	(60°-80°)	1066.6	12.2			G1/1800
FVH	(80°-90°)	74.7	0.9			G1/100
BL	(0°-30°)	948.9	10.8	B2/1000		
BM	(30°-60°)	2298.2	26.2	B2/2500		
BH	(60°-80°)	1066.6	12.2	B3/2500		G1/1800
BVH	(80°-90°)	74.7	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°	2306.6	2306.6	2306.6	2306.6	2306.6	2306.6	2306.6	2306.6	2306.6	2306.6	2306.6
2.5°	2304.7	2306.6	2306.6	2306.6	2306.6	2306.6	2306.6	2306.6	2304.7	2306.6	2306.6
5°	2304.7	2304.7	2304.7	2304.7	2306.6	2304.7	2304.7	2304.7	2304.7	2304.7	2304.7
7.5°	2302.9	2301.0	2301.0	2301.0	2301.0	2301.0	2302.9	2302.9	2302.9	2302.9	2302.9
10°	2297.3	2297.3	2297.3	2297.3	2297.3	2297.3	2297.3	2297.3	2297.3	2297.3	2297.3
12.5°	2291.8	2291.8	2291.8	2291.8	2293.6	2293.6	2293.6	2293.6	2293.6	2293.6	2291.8
15°	2288.1	2288.1	2288.1	2288.1	2288.1	2288.1	2288.1	2288.1	2288.1	2288.1	2288.1
17.5°	2278.9	2278.9	2278.9	2278.9	2280.7	2280.7	2280.7	2280.7	2280.7	2280.7	2280.7
20°	2264.1	2264.1	2264.1	2264.1	2264.1	2265.9	2267.8	2267.8	2267.8	2267.8	2267.8
22.5°	2245.6	2245.6	2247.5	2247.5	2249.3	2249.3	2251.2	2251.2	2251.2	2251.2	2251.2
25°	2229.0	2229.0	2229.0	2230.8	2230.8	2230.8	2232.7	2234.5	2234.5	2234.5	2232.7
27.5°	2212.4	2212.4	2212.4	2214.2	2214.2	2214.2	2216.1	2216.1	2217.9	2216.1	2216.1
30°	2193.9	2192.1	2192.1	2193.9	2195.8	2195.8	2197.6	2197.6	2197.6	2197.6	2195.8
32.5°	2171.7	2171.7	2173.6	2175.4	2175.4	2177.3	2179.1	2179.1	2179.1	2181.0	2177.3
35°	2151.4	2153.3	2153.3	2155.1	2158.8	2160.7	2162.5	2164.4	2164.4	2164.4	2160.7
37.5°	2134.8	2136.7	2138.5	2142.2	2145.9	2149.6	2153.3	2157.0	2155.1	2155.1	2149.6
40°	2114.5	2116.3	2120.0	2123.7	2131.1	2134.8	2140.4	2144.0	2145.9	2144.0	2138.5
42.5°	2086.8	2088.6	2092.3	2097.9	2107.1	2114.5	2120.0	2125.6	2127.4	2125.6	2120.0
45°	2049.9	2051.7	2055.4	2062.8	2073.9	2081.3	2090.5	2096.0	2099.7	2099.7	2094.2
47.5°	2003.7	2005.5	2011.1	2018.5	2029.5	2038.8	2049.9	2057.2	2060.9	2064.6	2059.1
50°	1946.4	1948.3	1955.7	1964.9	1974.1	1987.1	2000.0	2011.1	2016.6	2018.5	2016.6
52.5°	1881.8	1883.7	1891.0	1900.3	1913.2	1928.0	1942.8	1955.7	1963.1	1966.8	1963.1
55°	1804.2	1807.9	1813.5	1826.4	1841.2	1854.1	1872.6	1887.3	1896.6	1898.4	1896.6
57.5°	1713.8	1719.3	1724.8	1739.6	1754.4	1772.9	1787.6	1802.4	1813.5	1815.3	1815.3
60°	1612.2	1615.9	1621.4	1636.2	1652.8	1665.7	1686.1	1700.8	1710.1	1710.1	1711.9
62.5°	1492.2	1495.8	1505.1	1516.2	1534.6	1547.6	1564.2	1578.9	1588.2	1591.9	1590.0
65°	1351.8	1355.5	1361.0	1375.8	1390.6	1405.4	1422.0	1434.9	1444.1	1446.0	1444.1
67.5°	1196.7	1200.4	1204.1	1222.5	1237.3	1242.8	1263.2	1274.2	1279.8	1281.6	1281.6
70°	1032.3	1034.2	1039.7	1048.9	1065.6	1071.1	1084.0	1093.3	1097.0	1104.3	1098.8
72.5°	860.6	864.3	877.2	879.0	892.0	899.4	903.0	903.0	912.3	912.3	914.1
75°	690.7	692.5	698.1	699.9	709.1	709.1	707.3	711.0	718.4	718.4	720.2
77.5°	522.6	522.6	531.9	524.5	528.2	520.8	524.5	520.8	526.3	524.5	526.3
80°	365.7	365.7	371.2	363.8	365.7	358.3	360.1	358.3	358.3	360.1	360.1
82.5°	225.3	227.1	230.8	225.3	225.3	219.8	221.6	223.5	223.5	221.6	219.8
85°	110.8	110.8	114.5	112.7	110.8	107.1	109.0	110.8	110.8	109.0	109.0
87.5°	29.5	29.5	31.4	31.4	29.5	27.7	29.5	31.4	31.4	31.4	29.5
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°	2306.6	2306.6	2306.6	2306.6	2306.6	2306.6	2306.6	2306.6
2.5°	2304.7	2304.7	2306.6	2304.7	2306.6	2304.7	2306.6	2306.6
5°	2304.7	2304.7	2304.7	2304.7	2304.7	2304.7	2304.7	2304.7
7.5°	2301.0	2302.9	2301.0	2301.0	2301.0	2302.9	2301.0	2302.9
10°	2297.3	2297.3	2297.3	2297.3	2297.3	2297.3	2297.3	2297.3
12.5°	2291.8	2291.8	2291.8	2291.8	2291.8	2291.8	2291.8	2289.9
15°	2288.1	2286.2	2286.2	2286.2	2284.4	2284.4	2284.4	2284.4
17.5°	2280.7	2278.9	2277.0	2277.0	2277.0	2277.0	2275.2	2275.2
20°	2267.8	2265.9	2264.1	2264.1	2262.2	2262.2	2260.4	2260.4
22.5°	2249.3	2249.3	2247.5	2245.6	2245.6	2243.8	2243.8	2241.9
25°	2232.7	2230.8	2229.0	2227.1	2225.3	2225.3	2223.5	2221.6
27.5°	2214.2	2210.5	2208.7	2206.8	2205.0	2203.1	2201.3	2199.4
30°	2193.9	2190.2	2186.5	2184.7	2181.0	2177.3	2175.4	2173.6
32.5°	2173.6	2169.9	2164.4	2158.8	2155.1	2151.4	2147.7	2145.9
35°	2157.0	2149.6	2144.0	2136.7	2131.1	2125.6	2123.7	2121.9
37.5°	2144.0	2136.7	2127.4	2120.0	2114.5	2107.1	2103.4	2099.7
40°	2131.1	2121.9	2110.8	2101.6	2094.2	2084.9	2081.3	2077.6
42.5°	2112.6	2101.6	2090.5	2079.4	2068.3	2059.1	2053.6	2049.9
45°	2086.8	2075.7	2062.8	2048.0	2036.9	2025.9	2020.3	2016.6
47.5°	2051.7	2040.6	2025.9	2012.9	2000.0	1988.9	1981.5	1977.8
50°	2009.2	1998.2	1983.4	1968.6	1955.7	1942.8	1937.2	1931.7
52.5°	1955.7	1946.4	1929.8	1918.7	1904.0	1891.0	1885.5	1881.8
55°	1889.2	1880.0	1863.3	1852.3	1837.5	1826.4	1819.0	1813.5
57.5°	1807.9	1800.6	1782.1	1771.0	1756.2	1745.2	1739.6	1735.9
60°	1708.2	1700.8	1682.4	1671.3	1658.4	1645.4	1641.7	1638.0
62.5°	1584.5	1580.8	1566.0	1553.1	1540.2	1527.2	1523.5	1521.7
65°	1440.4	1436.7	1423.8	1412.7	1401.7	1390.6	1386.9	1383.2
67.5°	1276.1	1274.2	1263.2	1253.9	1246.5	1235.5	1233.6	1229.9
70°	1100.6	1097.0	1087.7	1080.3	1074.8	1065.6	1063.7	1060.0
72.5°	917.8	916.0	910.4	901.2	901.2	888.3	886.4	884.6
75°	716.5	725.8	718.4	714.7	714.7	707.3	707.3	705.4
77.5°	524.5	533.7	539.2	531.9	539.2	531.9	531.9	530.0
80°	358.3	365.7	371.2	365.7	374.9	369.3	369.3	376.7
82.5°	217.9	225.3	229.0	227.1	232.7	230.8	229.0	234.5
85°	107.1	110.8	112.7	112.7	114.5	110.8	114.5	116.3
87.5°	27.7	29.5	31.4	29.5	31.4	31.4	31.4	33.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)