

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: P197604

Luminaire Tested: **TT-C6-LED-E1-MQ-LWR-LW-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197604
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115393)
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-MQ-LWR-LW-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM 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: 10736.5 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

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



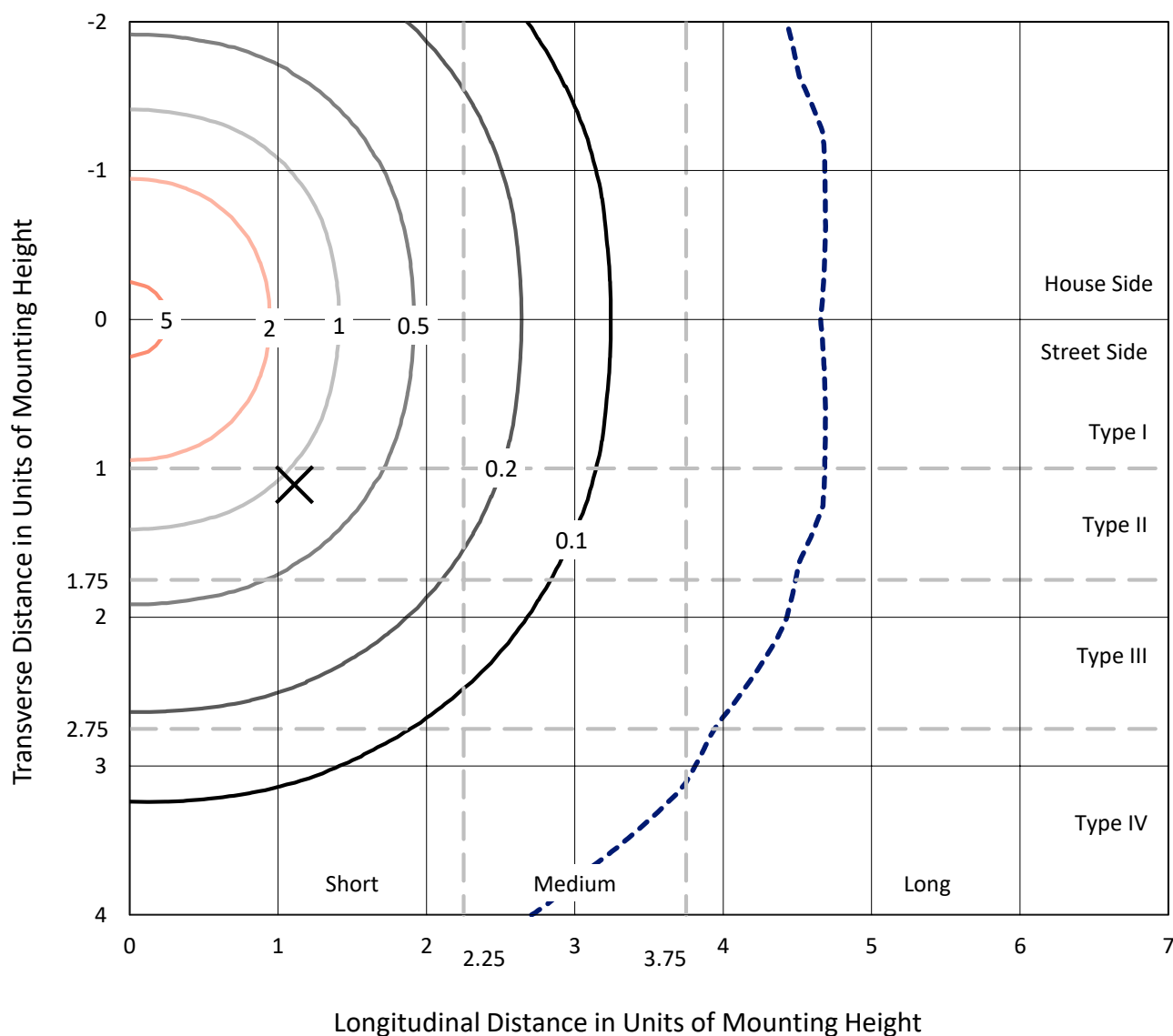
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

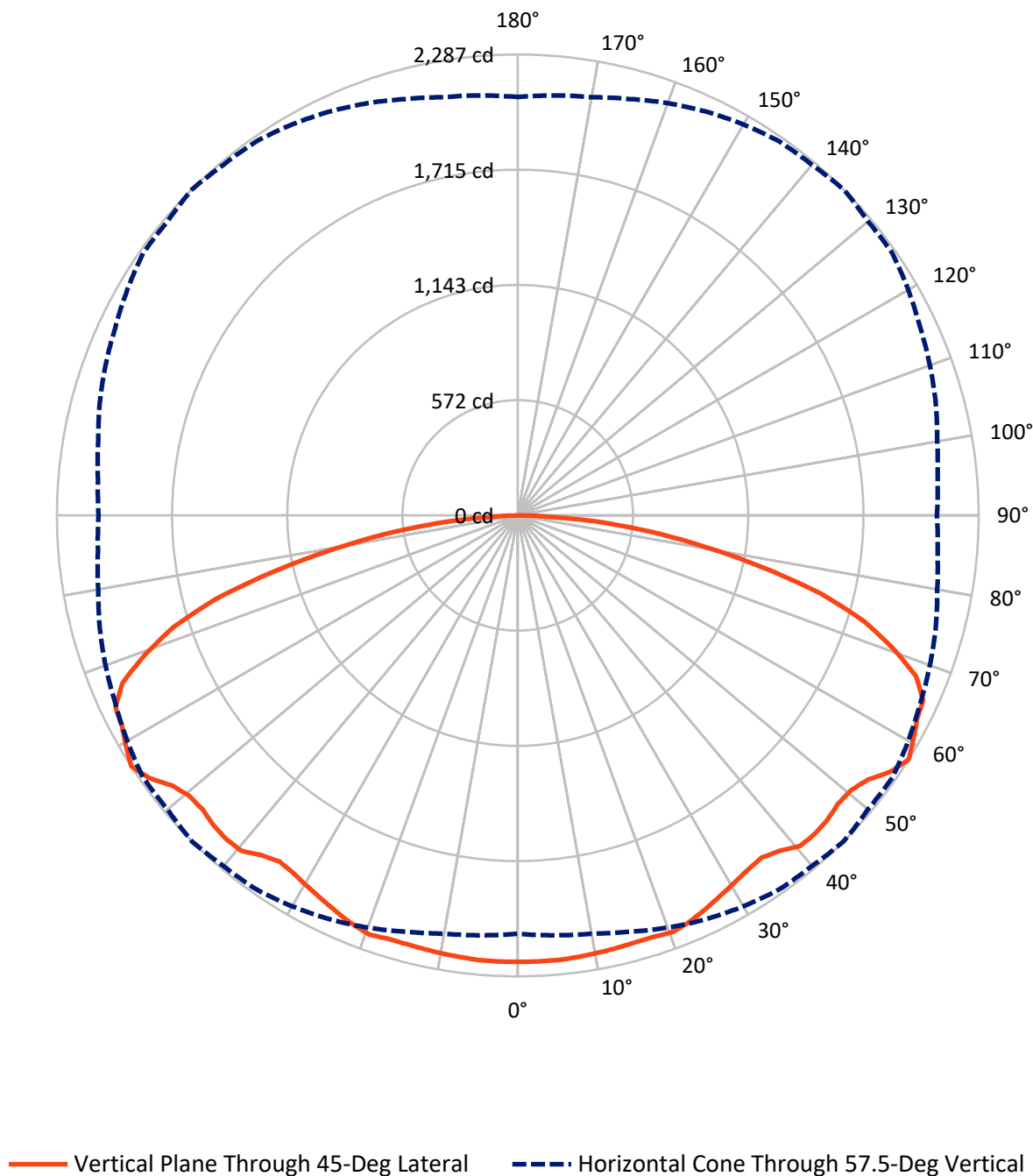


Based on 20 foot mounting height. Maximum calculated value = 5.5 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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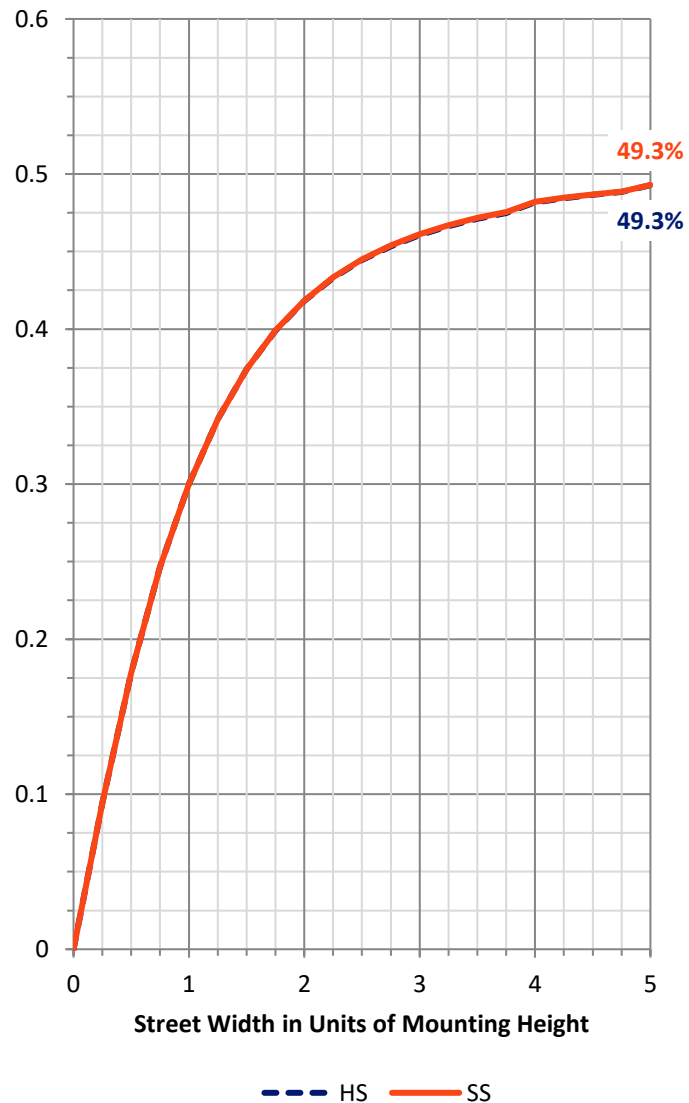
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5368.2	0.0	5368.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5368.2	0.0	5368.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	10736.5	0.0	10736.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.0	2.0
10°-20°	622.5	5.8
20°-30°	997.0	9.3
30°-40°	1312.5	12.2
40°-50°	1634.7	15.2
50°-60°	1925.6	17.9
60°-70°	2047.2	19.1
70°-80°	1535.2	14.3
80°-90°	450.8	4.2
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°	10736.5	100.0
0°-180°	10736.5	100.0

Coefficient of Utilization



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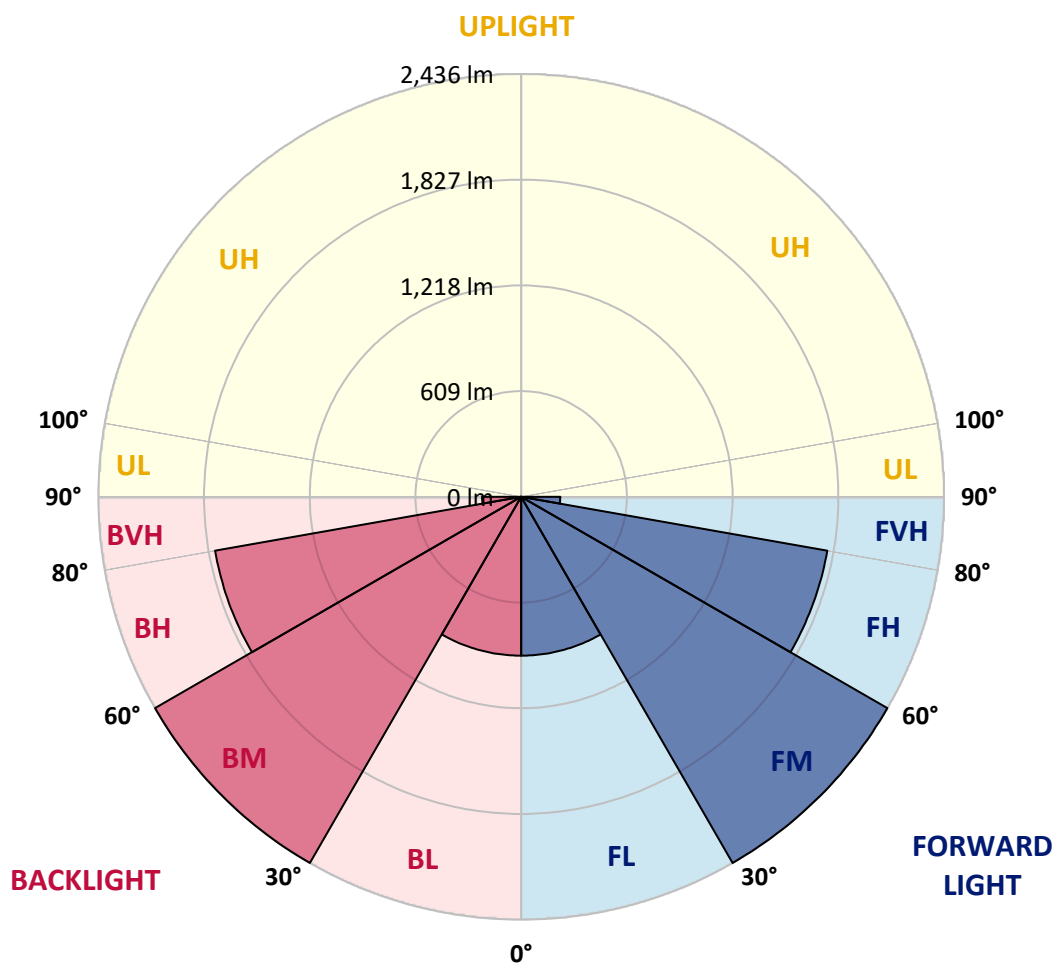
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	915.2	8.5			
FM	(30°-60°)	2436.4	22.7			
FH	(60°-80°)	1791.2	16.7			G1/1800
FVH	(80°-90°)	225.4	2.1			G3/500
BL	(0°-30°)	915.2	8.5	B2/1000		
BM	(30°-60°)	2436.4	22.7	B2/2500		
BH	(60°-80°)	1791.2	16.7	B3/2500		G1/1800
BVH	(80°-90°)	225.4	2.1			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2214.7	2214.7	2214.7	2214.7	2214.7	2214.7	2214.7	2214.7	2214.7	2214.7	2214.7
2.5°	2212.4	2212.4	2212.4	2214.7	2214.7	2214.7	2214.7	2214.7	2214.7	2214.7	2214.7
5°	2212.4	2212.4	2212.4	2212.4	2212.4	2212.4	2214.7	2214.7	2214.7	2214.7	2214.7
7.5°	2207.9	2207.9	2207.9	2207.9	2207.9	2210.2	2210.2	2210.2	2210.2	2210.2	2210.2
10°	2203.4	2203.4	2203.4	2203.4	2205.7	2205.7	2205.7	2205.7	2205.7	2205.7	2205.7
12.5°	2198.9	2198.9	2196.7	2198.9	2198.9	2198.9	2201.2	2201.2	2201.2	2201.2	2201.2
15°	2189.9	2189.9	2192.2	2192.2	2194.4	2194.4	2194.4	2194.4	2196.7	2196.7	2196.7
17.5°	2185.4	2185.4	2187.7	2189.9	2189.9	2192.2	2194.4	2194.4	2196.7	2196.7	2196.7
20°	2192.2	2192.2	2192.2	2194.4	2196.7	2198.9	2201.2	2203.4	2203.4	2205.7	2203.4
22.5°	2178.7	2178.7	2178.7	2180.9	2180.9	2180.9	2183.2	2185.4	2185.4	2187.7	2185.4
25°	2154.0	2154.0	2156.2	2156.2	2158.5	2158.5	2160.7	2160.7	2160.7	2163.0	2163.0
27.5°	2129.2	2127.0	2131.5	2131.5	2133.7	2133.7	2136.0	2138.2	2138.2	2138.2	2140.5
30°	2102.2	2102.2	2104.5	2104.5	2106.7	2109.0	2111.2	2113.5	2113.5	2115.7	2115.7
32.5°	2073.0	2075.3	2077.5	2079.8	2082.0	2086.5	2088.8	2091.0	2093.3	2095.5	2093.3
35°	2052.8	2055.0	2057.3	2061.8	2068.5	2073.0	2077.5	2082.0	2084.3	2084.3	2084.3
37.5°	2057.3	2059.5	2064.0	2073.0	2084.3	2091.0	2100.0	2106.7	2109.0	2111.2	2111.2
40°	2082.0	2086.5	2093.3	2104.5	2118.0	2129.2	2142.7	2149.5	2154.0	2156.2	2154.0
42.5°	2079.8	2086.5	2093.3	2106.7	2122.5	2133.7	2147.2	2154.0	2158.5	2160.7	2158.5
45°	2073.0	2077.5	2084.3	2097.7	2109.0	2124.7	2138.2	2145.0	2151.7	2154.0	2151.7
47.5°	2057.3	2057.3	2059.5	2073.0	2088.8	2109.0	2120.2	2131.5	2138.2	2138.2	2138.2
50°	2037.0	2046.0	2050.5	2068.5	2084.3	2102.2	2122.5	2138.2	2140.5	2142.7	2140.5
52.5°	2037.0	2039.3	2055.0	2066.3	2097.7	2124.7	2145.0	2160.7	2174.2	2176.4	2176.4
55°	2073.0	2077.5	2086.5	2113.5	2138.2	2178.7	2212.4	2225.9	2234.9	2243.9	2234.9
57.5°	2075.3	2091.0	2106.7	2138.2	2176.4	2210.2	2239.4	2264.1	2270.9	2286.6	2268.6
60°	2048.3	2052.8	2068.5	2106.7	2156.2	2192.2	2219.2	2241.6	2264.1	2255.1	2264.1
62.5°	2005.6	2016.8	2039.3	2068.5	2109.0	2151.7	2192.2	2198.9	2232.7	2223.7	2237.2
65°	1971.8	1980.8	2003.3	2046.0	2095.5	2122.5	2167.4	2194.4	2192.2	2210.2	2189.9
67.5°	1888.6	1895.4	1915.6	1958.3	2005.6	2046.0	2059.5	2102.2	2106.7	2131.5	2109.0
70°	1751.5	1767.2	1796.5	1836.9	1875.2	1908.9	1933.6	1956.1	1969.6	1974.1	1969.6
72.5°	1580.6	1605.4	1627.8	1666.1	1704.3	1726.8	1742.5	1774.0	1783.0	1796.5	1792.0
75°	1405.2	1405.2	1427.7	1457.0	1486.2	1499.7	1508.7	1528.9	1540.1	1555.9	1542.4
77.5°	1164.7	1178.2	1198.4	1223.1	1218.6	1225.4	1225.4	1236.6	1232.1	1243.4	1252.4
80°	912.8	926.3	944.3	962.3	960.1	944.3	955.6	942.1	937.6	939.8	946.6
82.5°	652.0	661.0	676.8	688.0	688.0	676.8	681.3	667.8	672.3	661.0	670.0
85°	373.2	384.5	395.7	407.0	407.0	400.2	407.0	389.0	391.2	391.2	391.2
87.5°	92.2	101.2	105.7	112.4	107.9	119.2	125.9	114.7	116.9	112.4	119.2
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°	2214.7	2214.7	2214.7	2214.7	2214.7	2214.7	2214.7	2214.7
2.5°	2214.7	2212.4	2214.7	2214.7	2214.7	2214.7	2212.4	2212.4
5°	2214.7	2214.7	2214.7	2212.4	2212.4	2212.4	2212.4	2212.4
7.5°	2210.2	2210.2	2210.2	2207.9	2207.9	2207.9	2207.9	2207.9
10°	2205.7	2205.7	2203.4	2203.4	2203.4	2203.4	2203.4	2203.4
12.5°	2201.2	2201.2	2198.9	2198.9	2198.9	2198.9	2198.9	2196.7
15°	2196.7	2196.7	2194.4	2194.4	2192.2	2192.2	2189.9	2189.9
17.5°	2196.7	2194.4	2192.2	2189.9	2189.9	2187.7	2185.4	2185.4
20°	2203.4	2201.2	2198.9	2196.7	2194.4	2192.2	2192.2	2189.9
22.5°	2185.4	2183.2	2180.9	2180.9	2178.7	2178.7	2178.7	2176.4
25°	2163.0	2160.7	2160.7	2156.2	2156.2	2154.0	2154.0	2151.7
27.5°	2138.2	2136.0	2136.0	2133.7	2131.5	2129.2	2127.0	2127.0
30°	2113.5	2111.2	2111.2	2109.0	2104.5	2104.5	2102.2	2100.0
32.5°	2091.0	2091.0	2088.8	2084.3	2079.8	2077.5	2073.0	2073.0
35°	2084.3	2079.8	2075.3	2068.5	2061.8	2057.3	2055.0	2052.8
37.5°	2109.0	2102.2	2091.0	2084.3	2075.3	2066.3	2061.8	2057.3
40°	2151.7	2140.5	2129.2	2118.0	2104.5	2093.3	2084.3	2082.0
42.5°	2154.0	2147.2	2136.0	2122.5	2106.7	2093.3	2084.3	2082.0
45°	2147.2	2138.2	2124.7	2109.0	2097.7	2082.0	2075.3	2073.0
47.5°	2131.5	2122.5	2109.0	2086.5	2070.8	2059.5	2057.3	2057.3
50°	2140.5	2122.5	2100.0	2086.5	2070.8	2052.8	2046.0	2041.5
52.5°	2160.7	2142.7	2129.2	2100.0	2066.3	2050.5	2041.5	2034.8
55°	2225.9	2216.9	2176.4	2136.0	2111.2	2091.0	2082.0	2077.5
57.5°	2268.6	2237.2	2203.4	2176.4	2147.2	2113.5	2091.0	2079.8
60°	2246.1	2212.4	2196.7	2160.7	2100.0	2064.0	2050.5	2043.8
62.5°	2196.7	2196.7	2154.0	2097.7	2075.3	2043.8	2019.1	2010.1
65°	2194.4	2165.2	2122.5	2102.2	2048.3	2001.1	1976.3	1971.8
67.5°	2100.0	2059.5	2048.3	2003.3	1958.3	1915.6	1897.6	1888.6
70°	1956.1	1942.6	1908.9	1879.7	1839.2	1794.2	1769.5	1760.5
72.5°	1774.0	1751.5	1735.8	1711.0	1672.8	1616.6	1596.4	1585.1
75°	1526.7	1515.4	1515.4	1488.4	1452.5	1418.7	1416.5	1412.0
77.5°	1227.6	1232.1	1243.4	1214.1	1225.4	1207.4	1191.6	1180.4
80°	933.1	953.3	955.6	962.3	969.1	944.3	933.1	919.6
82.5°	663.3	674.5	688.0	690.3	694.8	676.8	667.8	654.3
85°	391.2	398.0	409.2	409.2	409.2	393.5	389.0	377.7
87.5°	114.7	114.7	121.4	114.7	114.7	114.7	103.4	110.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)