

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: P197723

Luminaire Tested: **TT-C6-LED-E1-MQ-CG-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197723
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115348)
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-CG-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS
Light Source: (160) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10794.3 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-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

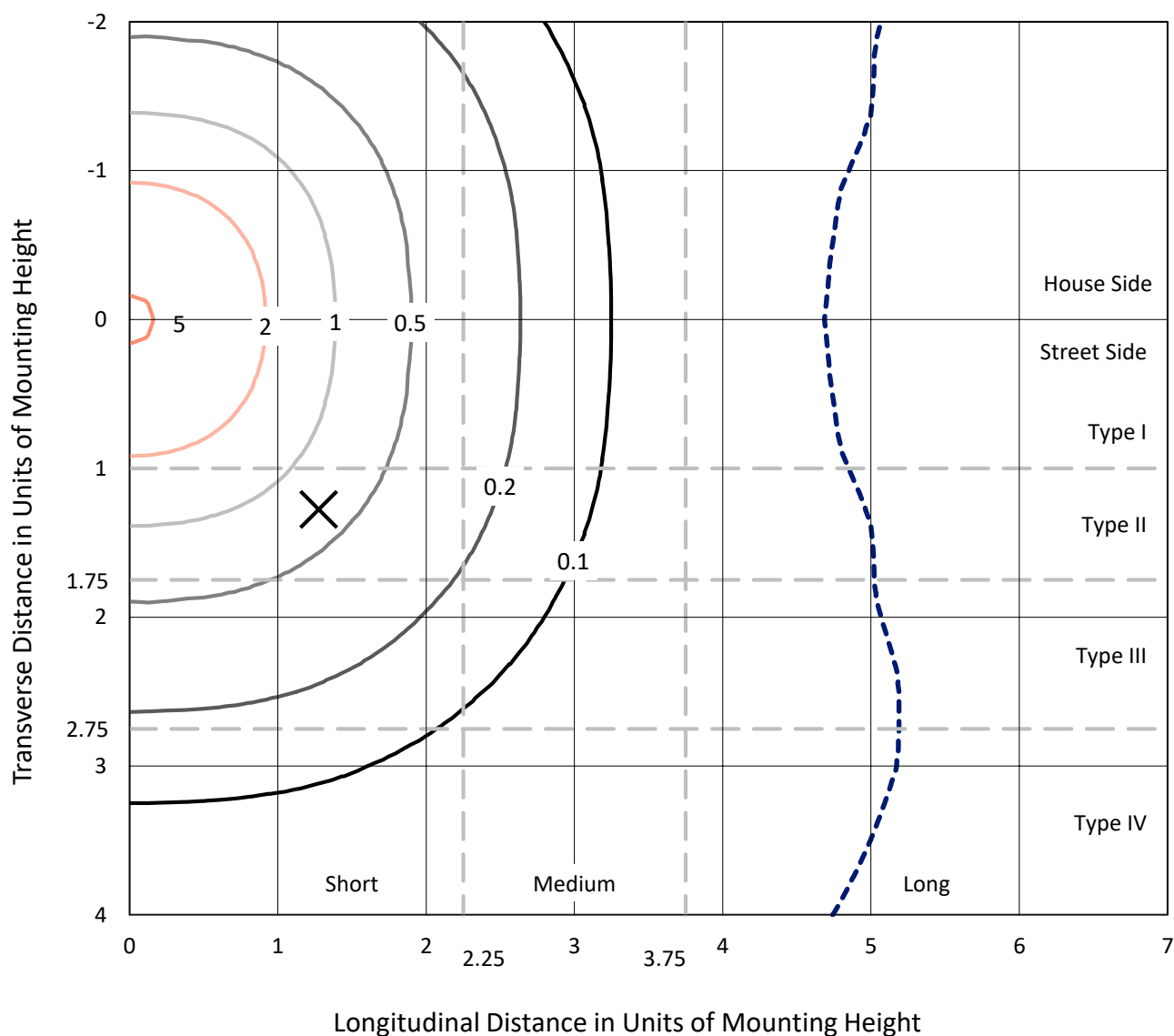


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

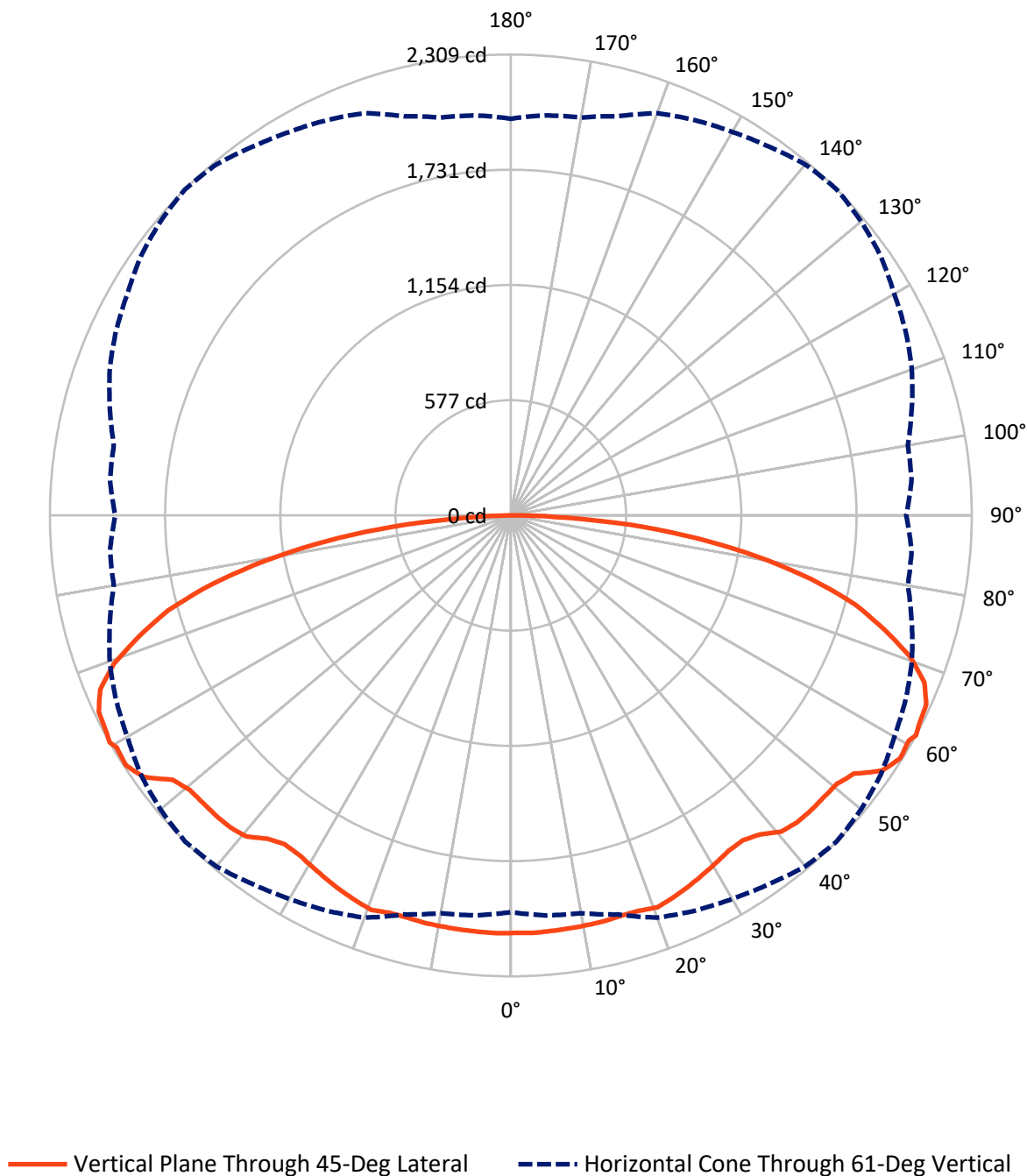


Based on 20 foot mounting height. Maximum calculated value = 5.2 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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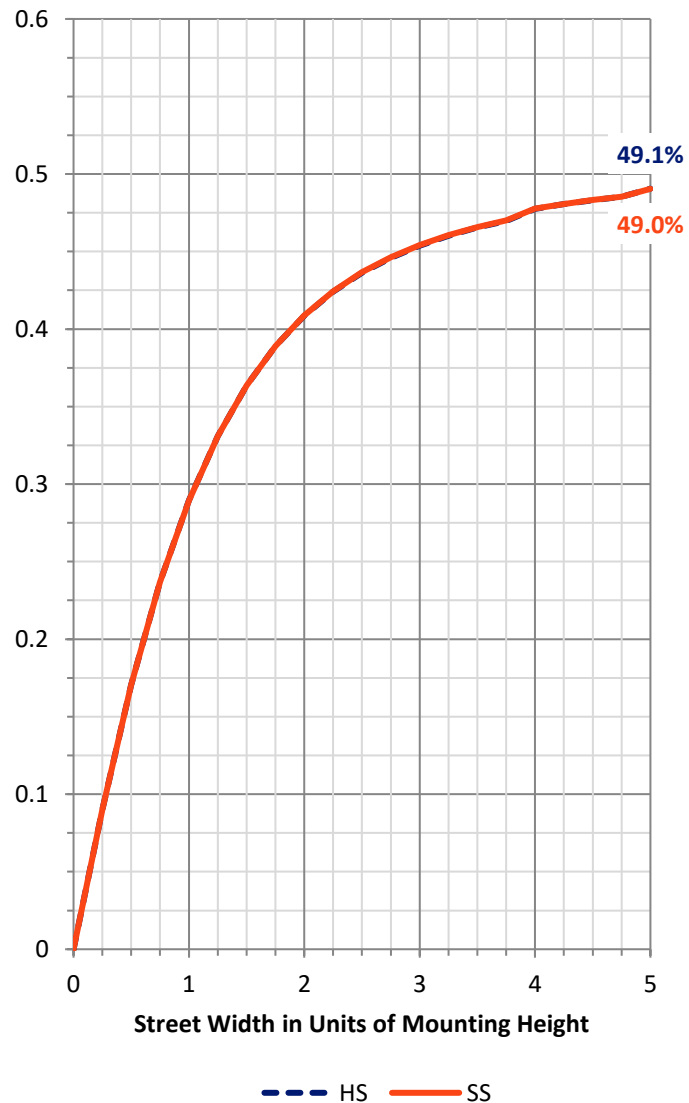
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5397.1	0.0	5397.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5397.1	0.0	5397.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	10794.3	0.0	10794.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.5	1.8
10°-20°	589.8	5.5
20°-30°	949.1	8.8
30°-40°	1257.2	11.6
40°-50°	1587.7	14.7
50°-60°	1902.4	17.6
60°-70°	2080.1	19.3
70°-80°	1665.1	15.4
80°-90°	563.4	5.2
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°	10794.3	100.0
0°-180°	10794.3	100.0

Coefficient of Utilization



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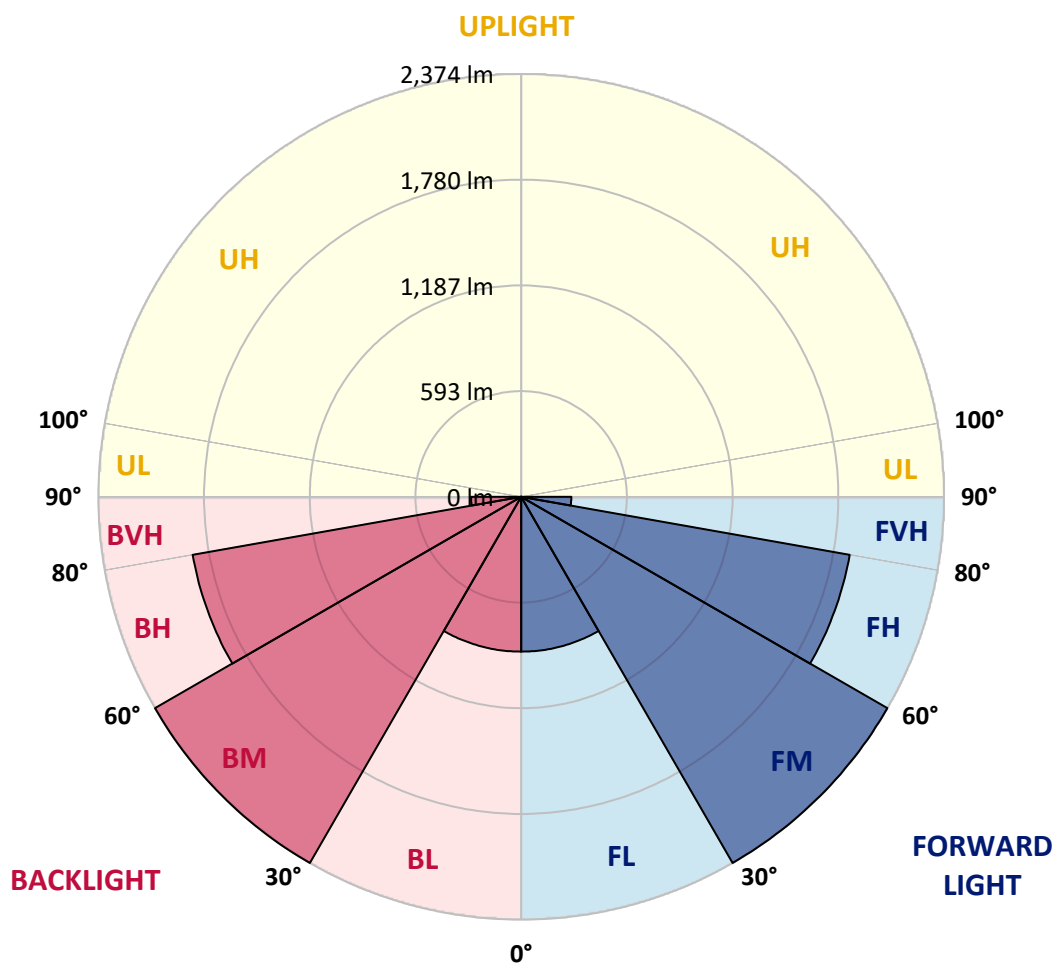
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	869.2	8.1			
FM	(30°-60°)	2373.6	22.0			
FH	(60°-80°)	1872.6	17.3			G2/5000
FVH	(80°-90°)	281.7	2.6			G3/500
BL	(0°-30°)	869.2	8.1	B2/1000		
BM	(30°-60°)	2373.6	22.0	B2/2500		
BH	(60°-80°)	1872.6	17.3	B3/2500		G2/5000
BVH	(80°-90°)	281.7	2.6			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°	2091.3	2091.3	2091.3	2091.3	2091.3	2091.3	2091.3	2091.3	2091.3	2091.3	2091.3
2.5°	2093.3	2091.3	2093.3	2093.3	2093.3	2093.3	2093.3	2093.3	2093.3	2093.3	2093.3
5°	2091.3	2091.3	2091.3	2091.3	2091.3	2091.3	2091.3	2091.3	2091.3	2091.3	2091.3
7.5°	2089.2	2089.2	2089.2	2089.2	2089.2	2089.2	2089.2	2089.2	2091.3	2089.2	2091.3
10°	2085.4	2085.4	2085.4	2085.4	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2
12.5°	2081.3	2081.3	2081.3	2081.3	2083.4	2083.4	2083.4	2083.4	2085.4	2085.4	2083.4
15°	2077.2	2075.2	2075.2	2077.2	2077.2	2079.3	2079.3	2079.3	2081.3	2079.3	2079.3
17.5°	2073.2	2071.1	2073.2	2075.2	2075.2	2077.2	2079.3	2079.3	2081.3	2081.3	2081.3
20°	2079.3	2077.2	2079.3	2081.3	2083.4	2087.2	2089.2	2091.3	2093.3	2095.4	2095.4
22.5°	2067.3	2065.2	2067.3	2067.3	2069.3	2071.1	2075.2	2077.2	2079.3	2079.3	2079.3
25°	2049.1	2049.1	2051.2	2051.2	2053.2	2055.0	2057.1	2059.1	2059.1	2061.1	2059.1
27.5°	2029.0	2029.0	2031.0	2031.0	2035.1	2035.1	2037.1	2038.9	2041.0	2041.0	2041.0
30°	2005.0	2005.0	2006.8	2008.8	2012.9	2014.9	2017.0	2019.0	2021.0	2021.0	2021.0
32.5°	1982.8	1980.7	1982.8	1986.8	1992.7	1996.8	2000.9	2002.9	2002.9	2002.9	2005.0
35°	1964.6	1966.7	1970.8	1974.6	1982.8	1986.8	1990.7	1996.8	1998.8	1998.8	1998.8
37.5°	1968.7	1970.8	1976.6	1984.8	1994.8	2006.8	2014.9	2022.9	2029.0	2026.9	2024.9
40°	1994.8	1998.8	2008.8	2021.0	2037.1	2053.2	2065.2	2075.2	2081.3	2083.4	2081.3
42.5°	1998.8	2002.9	2010.9	2029.0	2047.1	2065.2	2081.3	2091.3	2099.4	2101.5	2099.4
45°	1996.8	1996.8	2008.8	2029.0	2047.1	2065.2	2085.4	2099.4	2107.4	2107.4	2107.4
47.5°	1982.8	1988.9	1996.8	2017.0	2041.0	2059.1	2079.3	2093.3	2103.3	2109.4	2103.3
50°	1982.8	1982.8	1996.8	2010.9	2033.1	2065.2	2093.3	2107.4	2117.6	2115.5	2117.6
52.5°	1978.7	1990.7	1998.8	2019.0	2059.1	2091.3	2113.5	2133.6	2147.7	2149.7	2145.7
55°	2014.9	2017.0	2035.1	2073.2	2111.4	2147.7	2187.8	2217.9	2242.2	2256.2	2236.0
57.5°	2043.0	2033.1	2069.3	2101.5	2145.7	2200.0	2260.3	2284.3	2302.4	2298.3	2304.5
60°	2005.0	2019.0	2045.1	2079.3	2149.7	2203.9	2236.0	2262.3	2284.3	2290.4	2282.3
61°	1986.8	2010.9	2022.9	2069.3	2143.6	2183.9	2217.9	2254.2	2294.5	2308.5	2290.4
62.5°	1956.7	1994.8	1990.7	2065.2	2111.4	2157.7	2222.0	2264.4	2292.5	2296.5	2292.5
65°	1958.5	1952.6	1998.8	2053.2	2099.4	2181.9	2236.0	2262.3	2278.4	2286.3	2282.3
67.5°	1894.2	1874.2	1930.4	1968.7	2047.1	2111.4	2163.8	2201.8	2226.1	2234.0	2224.0
70°	1745.6	1759.6	1799.7	1858.2	1922.5	2000.9	2049.1	2099.4	2119.4	2121.4	2121.4
72.5°	1602.6	1610.8	1650.9	1705.2	1779.5	1848.0	1896.2	1936.5	1954.7	1956.7	1960.6
75°	1413.7	1421.6	1468.0	1518.3	1592.6	1650.9	1685.1	1733.3	1759.6	1781.6	1763.5
77.5°	1194.4	1208.6	1244.7	1299.0	1367.5	1399.6	1459.9	1516.3	1534.4	1540.3	1534.4
80°	947.2	965.3	997.5	1069.8	1099.9	1152.2	1210.5	1234.7	1250.8	1254.9	1256.9
82.5°	681.7	695.7	729.9	780.2	814.4	856.6	896.9	927.0	945.2	941.1	939.0
85°	402.1	406.2	442.5	476.7	502.7	528.8	560.9	583.1	587.2	595.1	593.1
87.5°	120.8	122.6	138.6	156.8	169.0	181.0	201.2	227.2	233.3	217.3	219.3
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°	2091.3	2091.3	2091.3	2091.3	2091.3	2091.3	2091.3	2091.3
2.5°	2093.3	2093.3	2093.3	2093.3	2093.3	2093.3	2091.3	2093.3
5°	2091.3	2091.3	2091.3	2091.3	2091.3	2091.3	2091.3	2091.3
7.5°	2091.3	2089.2	2089.2	2089.2	2089.2	2089.2	2089.2	2089.2
10°	2087.2	2087.2	2087.2	2087.2	2085.4	2085.4	2085.4	2085.4
12.5°	2083.4	2083.4	2083.4	2083.4	2081.3	2081.3	2081.3	2081.3
15°	2079.3	2079.3	2079.3	2079.3	2077.2	2077.2	2077.2	2077.2
17.5°	2081.3	2079.3	2077.2	2077.2	2075.2	2073.2	2073.2	2073.2
20°	2093.3	2091.3	2087.2	2083.4	2081.3	2079.3	2079.3	2079.3
22.5°	2077.2	2075.2	2071.1	2069.3	2069.3	2067.3	2065.2	2065.2
25°	2059.1	2055.0	2055.0	2053.2	2053.2	2049.1	2049.1	2047.1
27.5°	2038.9	2037.1	2035.1	2033.1	2033.1	2031.0	2029.0	2026.9
30°	2021.0	2017.0	2012.9	2010.9	2008.8	2006.8	2006.8	2006.8
32.5°	2002.9	1998.8	1996.8	1990.7	1986.8	1984.8	1982.8	1982.8
35°	1996.8	1990.7	1986.8	1980.7	1974.6	1970.8	1968.7	1964.6
37.5°	2021.0	2012.9	2006.8	1996.8	1982.8	1976.6	1970.8	1968.7
40°	2073.2	2065.2	2053.2	2037.1	2021.0	2008.8	1998.8	1994.8
42.5°	2091.3	2081.3	2065.2	2049.1	2029.0	2010.9	2002.9	1998.8
45°	2097.4	2087.2	2065.2	2045.1	2026.9	2010.9	1998.8	1994.8
47.5°	2091.3	2077.2	2057.1	2041.0	2014.9	1994.8	1986.8	1980.7
50°	2105.3	2093.3	2067.3	2031.0	2008.8	1996.8	1982.8	1980.7
52.5°	2133.6	2111.4	2087.2	2061.1	2019.0	1994.8	1986.8	1976.6
55°	2217.9	2187.8	2145.7	2103.3	2077.2	2038.9	2014.9	2014.9
57.5°	2282.3	2258.2	2203.9	2147.7	2099.4	2071.1	2035.1	2037.1
60°	2264.4	2232.2	2205.9	2149.7	2081.3	2043.0	2029.0	2002.9
61°	2262.3	2217.9	2181.9	2137.5	2079.3	2019.0	2014.9	1980.7
62.5°	2266.2	2226.1	2157.7	2111.4	2067.3	1988.9	1986.8	1954.7
65°	2262.3	2224.0	2189.8	2103.3	2043.0	2010.9	1942.4	1968.7
67.5°	2200.0	2165.8	2103.3	2055.0	1962.6	1922.5	1884.2	1884.2
70°	2101.5	2051.2	1990.7	1930.4	1868.1	1799.7	1765.5	1745.6
72.5°	1936.5	1894.2	1845.9	1781.6	1705.2	1642.9	1610.8	1596.7
75°	1729.5	1683.0	1640.9	1592.6	1512.2	1459.9	1425.7	1415.7
77.5°	1512.2	1471.9	1397.6	1351.4	1297.0	1236.7	1206.6	1194.4
80°	1234.7	1212.5	1160.4	1085.9	1059.8	985.3	965.3	947.2
82.5°	927.0	902.8	854.5	802.4	770.3	727.9	691.7	687.8
85°	583.1	567.1	536.9	498.6	458.5	434.3	402.1	410.3
87.5°	217.3	207.1	188.9	164.9	146.8	130.7	114.6	120.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)