

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: P194232

Luminaire Tested: **GLEON-AF-04-LED-E1-5WQ-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194232
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-04-LED-E1-5WQ-7060
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25291 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 225
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

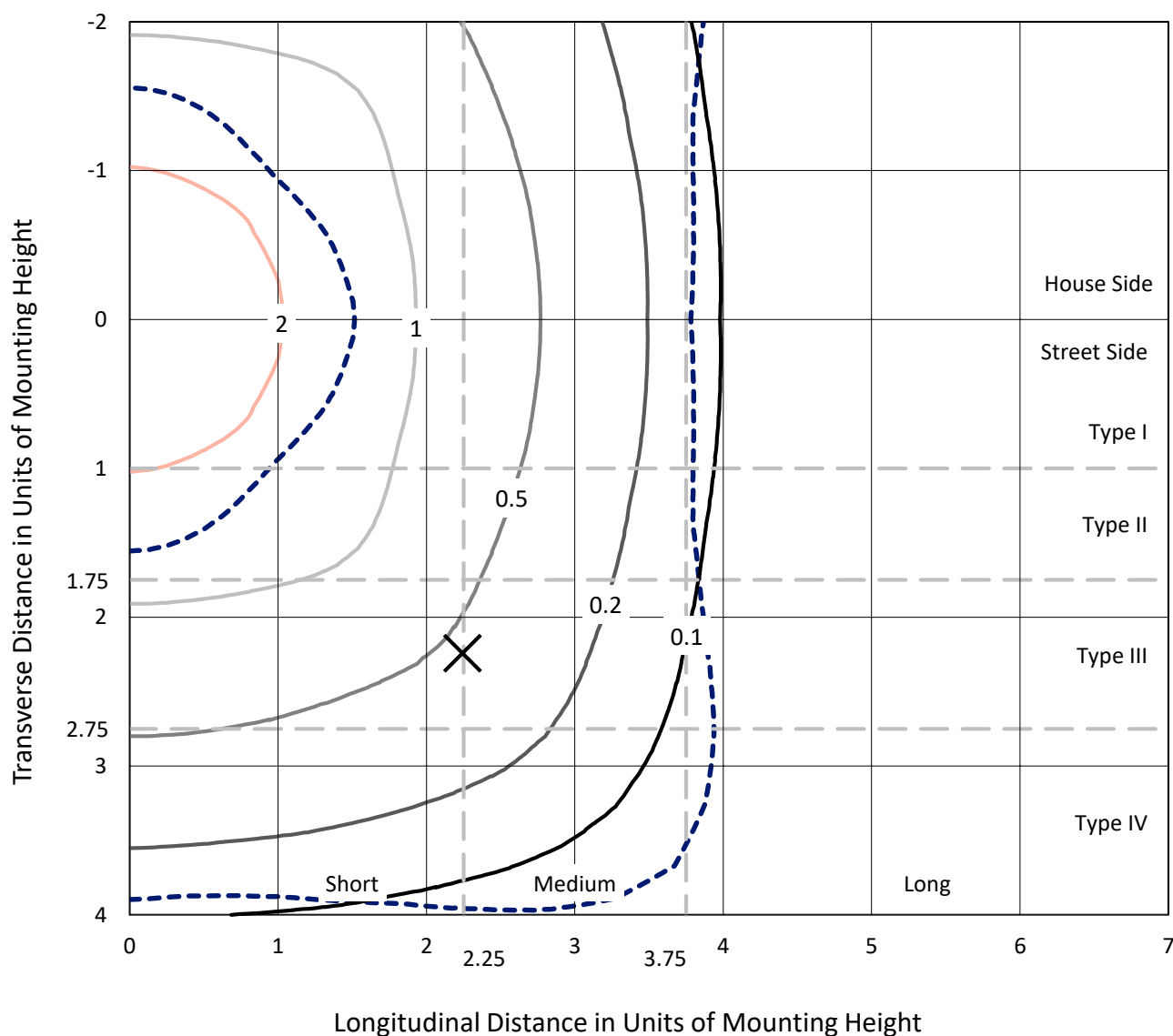


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

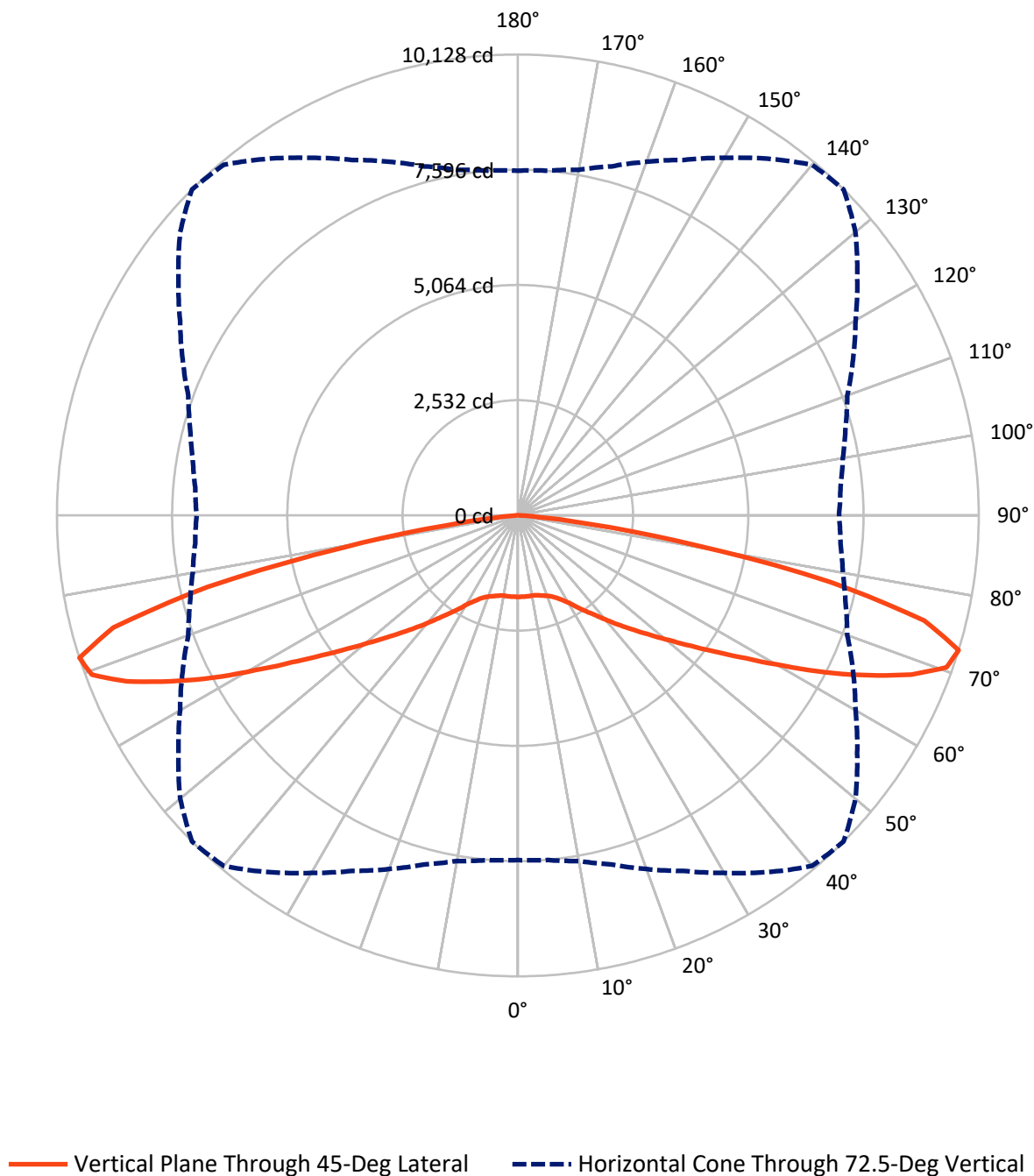


Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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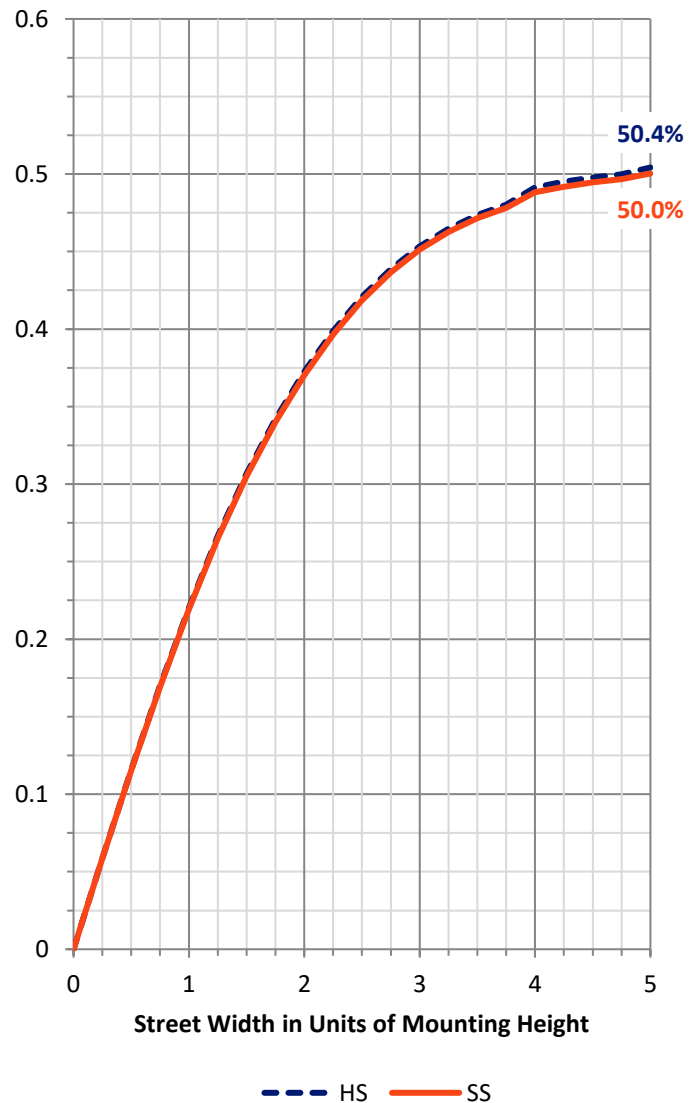
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12645.5	0.0	12645.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12645.5	0.0	12645.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	25291.0	0.0	25291.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.0	0.7
10°-20°	519.4	2.1
20°-30°	949.2	3.8
30°-40°	1636.5	6.5
40°-50°	2797.6	11.1
50°-60°	4534.6	17.9
60°-70°	7522.7	29.7
70°-80°	6625.7	26.2
80°-90°	534.2	2.1
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°	25291.0	100.0
0°-180°	25291.0	100.0

Coefficient of Utilization



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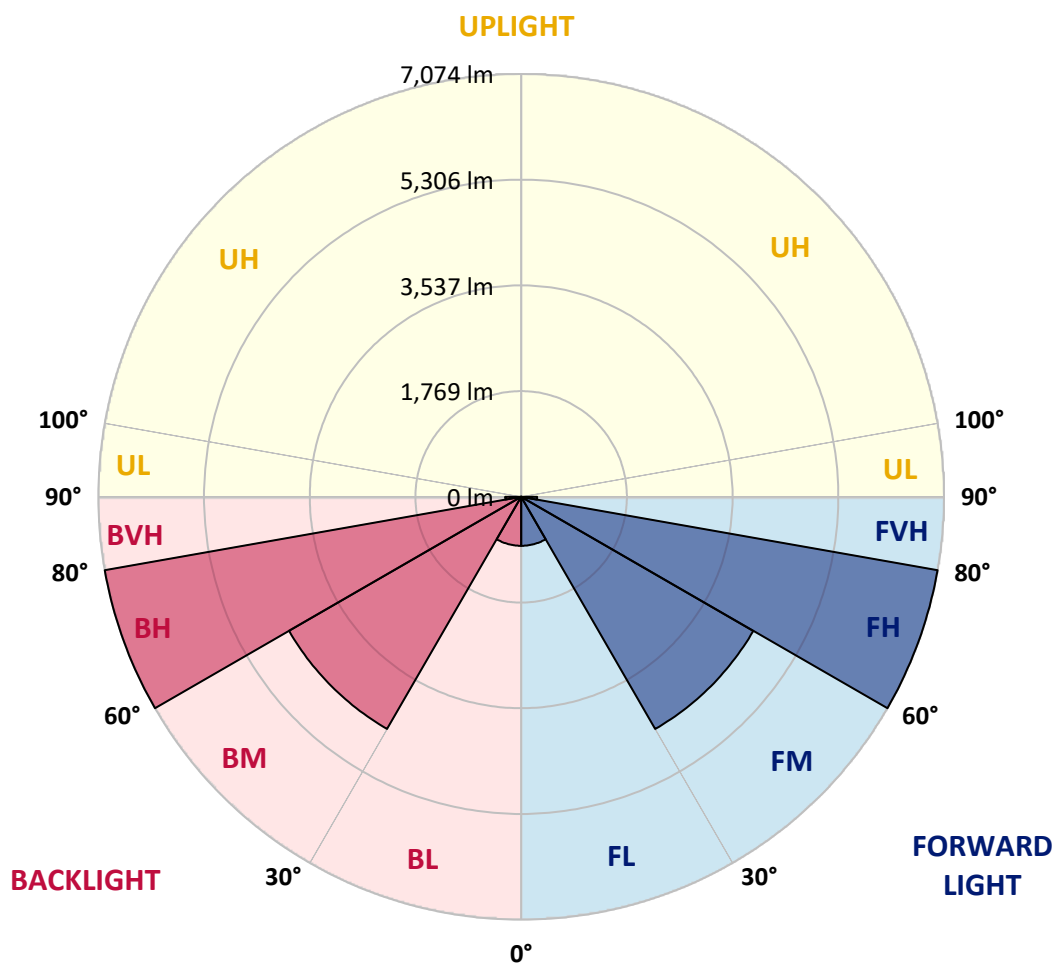
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	819.8	3.2			
FM	(30°-60°)	4484.4	17.7			
FH	(60°-80°)	7074.2	28.0			G3/7500
FVH	(80°-90°)	267.1	1.1			G3/500
BL	(0°-30°)	819.8	3.2	B2/1000		
BM	(30°-60°)	4484.4	17.7	B3/5000		
BH	(60°-80°)	7074.2	28.0	B5		G3/7500
BVH	(80°-90°)	267.1	1.1			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1791.0	1791.0	1791.0	1791.0	1791.0	1791.0	1791.0	1791.0	1791.0	1791.0	1791.0
2.5°	1791.0	1792.2	1793.3	1792.2	1792.2	1791.0	1789.8	1791.0	1789.8	1787.5	1788.7
5°	1796.8	1799.1	1799.1	1796.8	1798.0	1796.8	1794.5	1795.6	1793.3	1789.8	1789.8
7.5°	1803.8	1804.9	1804.9	1802.6	1803.8	1801.4	1799.1	1798.0	1795.6	1791.0	1787.5
10°	1814.2	1815.4	1814.2	1811.9	1811.9	1808.4	1802.6	1800.3	1795.6	1788.7	1785.2
12.5°	1825.8	1827.0	1825.8	1823.5	1822.3	1816.5	1811.9	1808.4	1804.9	1799.1	1793.3
15°	1842.0	1844.4	1842.0	1837.4	1833.9	1829.3	1827.0	1828.1	1829.3	1824.6	1818.8
17.5°	1872.2	1873.4	1869.9	1859.4	1854.8	1850.2	1850.2	1852.5	1856.0	1853.6	1847.8
20°	1927.9	1924.4	1916.3	1903.5	1897.7	1889.6	1888.4	1889.6	1889.6	1888.4	1883.8
22.5°	1997.5	1995.2	1984.7	1968.5	1960.4	1955.7	1948.8	1943.0	1941.8	1938.3	1933.7
25°	2081.0	2079.8	2067.1	2053.1	2047.3	2041.5	2035.7	2027.6	2020.7	2012.6	2007.9
27.5°	2187.7	2183.1	2164.5	2157.5	2149.4	2145.9	2137.8	2128.5	2122.7	2112.3	2106.5
30°	2304.9	2304.9	2289.8	2287.5	2287.5	2279.3	2270.1	2253.8	2243.4	2232.9	2229.5
32.5°	2422.0	2423.2	2408.1	2412.7	2416.2	2422.0	2424.3	2418.5	2411.6	2410.4	2403.5
35°	2591.4	2586.7	2571.7	2575.1	2574.0	2572.8	2572.8	2585.6	2587.9	2590.2	2576.3
37.5°	2801.3	2801.3	2786.3	2786.3	2779.3	2772.3	2763.1	2771.2	2783.9	2787.4	2778.1
40°	3041.4	3049.6	3031.0	3029.8	3032.2	3010.1	2999.7	3012.4	3020.6	3034.5	3024.0
42.5°	3324.5	3318.7	3300.1	3297.8	3285.0	3278.1	3268.8	3279.2	3292.0	3301.3	3304.8
45°	3595.9	3591.3	3570.4	3570.4	3557.6	3551.8	3556.5	3573.9	3579.7	3592.4	3605.2
47.5°	3863.9	3858.1	3844.1	3849.9	3851.1	3861.5	3876.6	3892.9	3909.1	3926.5	3932.3
50°	4137.6	4138.8	4123.7	4137.6	4155.0	4184.0	4224.6	4251.3	4284.9	4307.0	4313.9
52.5°	4387.0	4391.7	4407.9	4440.4	4475.2	4532.0	4601.6	4666.6	4722.2	4759.4	4757.0
55°	4686.3	4693.2	4732.7	4788.4	4845.2	4931.0	5034.3	5149.1	5241.9	5295.3	5261.6
57.5°	5069.1	5084.2	5128.2	5203.6	5288.3	5399.7	5541.2	5714.0	5857.9	5929.8	5875.3
60°	5594.5	5603.8	5657.2	5740.7	5842.8	5980.8	6169.9	6401.9	6604.9	6700.0	6637.4
62.5°	6287.0	6304.4	6347.4	6432.0	6536.4	6693.0	6923.9	7213.9	7466.7	7599.0	7457.5
65°	7114.1	7169.8	7205.7	7291.6	7389.0	7554.9	7796.2	8107.0	8378.5	8465.5	8301.9
67.5°	7933.0	7981.8	8044.4	8143.0	8241.6	8428.4	8652.2	8953.8	9251.9	9330.8	9076.8
70°	8291.5	8319.3	8416.8	8551.3	8740.4	8960.8	9219.5	9558.2	9927.0	9992.0	9669.5
72.5°	7573.5	7601.3	7710.3	7938.8	8268.3	8618.6	9069.8	9567.4	10054.6	10127.7	9683.4
75°	5727.9	5682.7	5843.9	6146.7	6591.0	7079.3	7710.3	8423.7	9127.8	9219.5	8689.3
77.5°	2960.2	2954.4	3076.2	3452.1	3982.2	4537.8	5232.6	6038.8	6727.8	7006.2	6574.7
80°	834.0	843.3	901.3	1088.1	1397.8	1799.1	2342.0	3097.1	3660.9	3948.5	3707.3
82.5°	327.1	352.6	374.7	409.5	450.1	509.2	679.7	1011.5	1357.2	1621.6	1328.2
85°	117.2	125.3	177.5	210.0	213.4	225.0	256.4	299.3	360.8	430.3	353.8
87.5°	44.1	48.7	56.8	94.0	92.8	84.7	103.2	107.9	81.2	74.2	91.6
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°	1791.0	1791.0	1791.0	1791.0	1791.0	1791.0	1791.0	1791.0
2.5°	1786.4	1787.5	1787.5	1788.7	1789.8	1789.8	1792.2	1792.2
5°	1787.5	1787.5	1785.2	1786.4	1785.2	1785.2	1786.4	1786.4
7.5°	1785.2	1784.0	1781.7	1780.6	1778.2	1778.2	1778.2	1778.2
10°	1781.7	1780.6	1778.2	1777.1	1775.9	1775.9	1775.9	1775.9
12.5°	1791.0	1787.5	1785.2	1784.0	1784.0	1784.0	1784.0	1784.0
15°	1815.4	1807.2	1801.4	1801.4	1802.6	1804.9	1804.9	1807.2
17.5°	1845.5	1836.2	1830.4	1825.8	1828.1	1831.6	1833.9	1836.2
20°	1881.5	1876.8	1868.7	1864.1	1864.1	1868.7	1871.0	1872.2
22.5°	1931.4	1927.9	1924.4	1918.6	1918.6	1920.9	1925.6	1925.6
25°	2005.6	2003.3	2001.0	1996.3	1995.2	1995.2	1997.5	1999.8
27.5°	2098.4	2099.5	2097.2	2096.1	2092.6	2091.4	2094.9	2093.7
30°	2222.5	2228.3	2234.1	2229.5	2223.7	2220.2	2216.7	2212.1
32.5°	2390.7	2383.7	2379.1	2371.0	2360.5	2351.3	2344.3	2336.2
35°	2549.6	2538.0	2533.4	2540.3	2539.2	2533.4	2525.3	2518.3
37.5°	2744.5	2742.2	2744.5	2757.3	2754.9	2760.7	2744.5	2743.3
40°	2990.4	2992.7	3009.0	3024.0	3032.2	3040.3	3031.0	3021.7
42.5°	3275.8	3274.6	3280.4	3301.3	3315.2	3324.5	3304.8	3302.4
45°	3577.4	3569.2	3573.9	3591.3	3605.2	3615.6	3593.6	3593.6
47.5°	3909.1	3895.2	3880.1	3899.8	3907.9	3914.9	3897.5	3891.7
50°	4279.1	4250.1	4217.7	4225.8	4225.8	4223.5	4201.4	4200.3
52.5°	4703.7	4650.3	4591.2	4569.1	4556.4	4542.4	4504.2	4485.6
55°	5192.0	5112.0	5019.2	4962.4	4932.2	4893.9	4830.1	4812.7
57.5°	5762.7	5637.5	5477.4	5407.8	5340.5	5277.9	5207.1	5187.4
60°	6439.0	6254.6	6042.3	5913.5	5840.5	5780.1	5707.1	5703.6
62.5°	7193.0	6901.8	6661.7	6545.7	6492.4	6439.0	6369.4	6378.7
65°	7959.7	7655.8	7430.8	7336.8	7286.9	7242.9	7173.3	7183.7
67.5°	8716.0	8436.5	8189.4	8093.1	8037.4	7981.8	7919.1	7929.6
70°	9258.9	8912.1	8633.7	8420.2	8286.8	8136.0	8038.6	8014.2
72.5°	9103.5	8568.7	8126.8	7703.4	7455.1	7253.3	7116.4	7057.3
75°	7878.5	7147.7	6579.4	6059.7	5767.4	5529.6	5356.7	5248.9
77.5°	5850.9	5029.6	4358.0	3759.5	3286.2	2968.4	2744.5	2599.5
80°	3202.7	2435.9	1780.6	1251.6	919.9	764.4	675.1	632.2
82.5°	997.6	643.8	474.4	409.5	380.5	364.2	337.6	294.6
85°	317.8	278.4	258.7	247.1	235.5	205.3	141.5	128.8
87.5°	123.0	126.4	125.3	118.3	120.6	87.0	69.6	61.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)