

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: P192542

Luminaire Tested: **GLEON-AF-04-LED-E1-5MQ-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192542
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
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-E1-5MQ-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19710.4 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 171
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

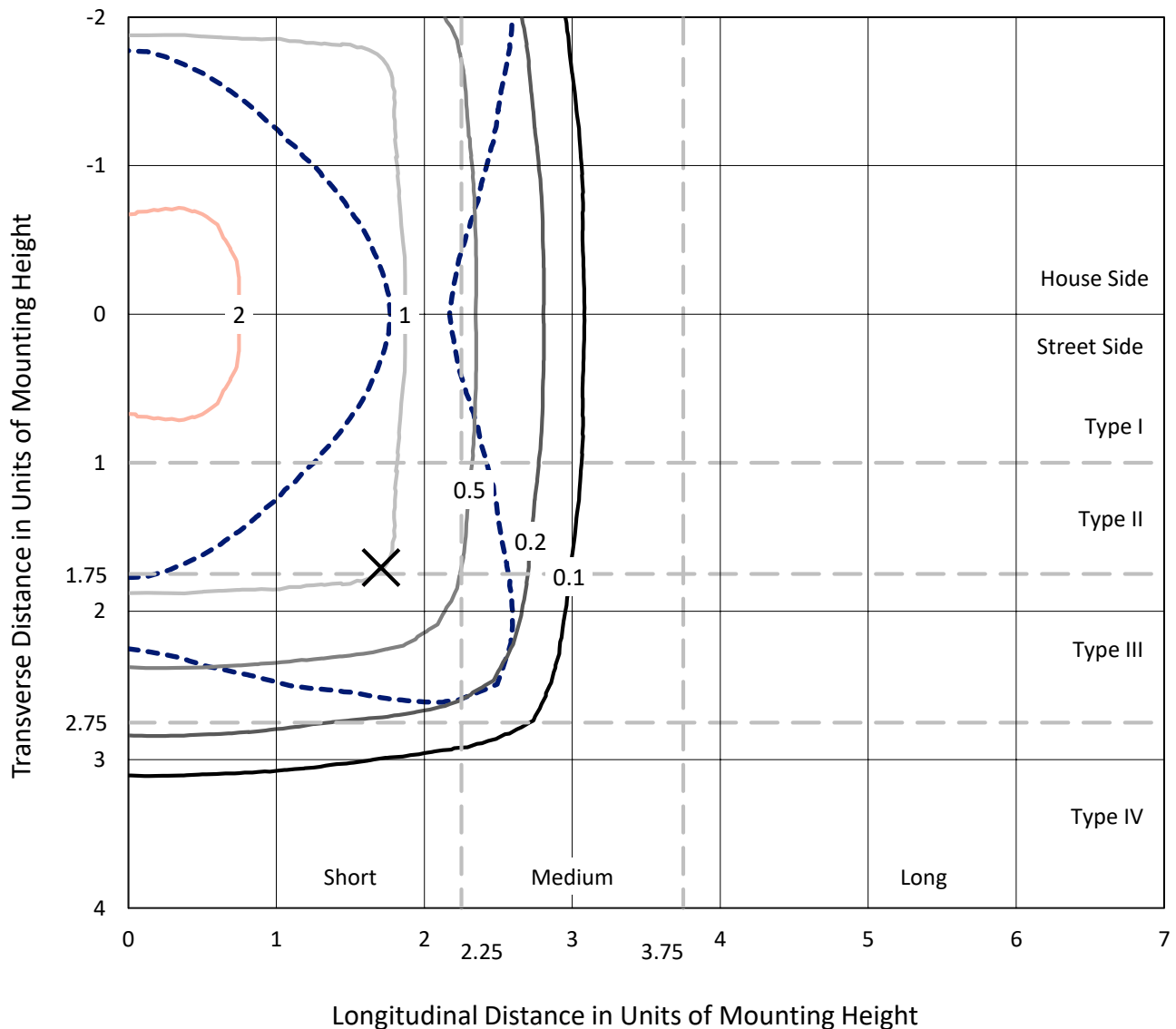


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

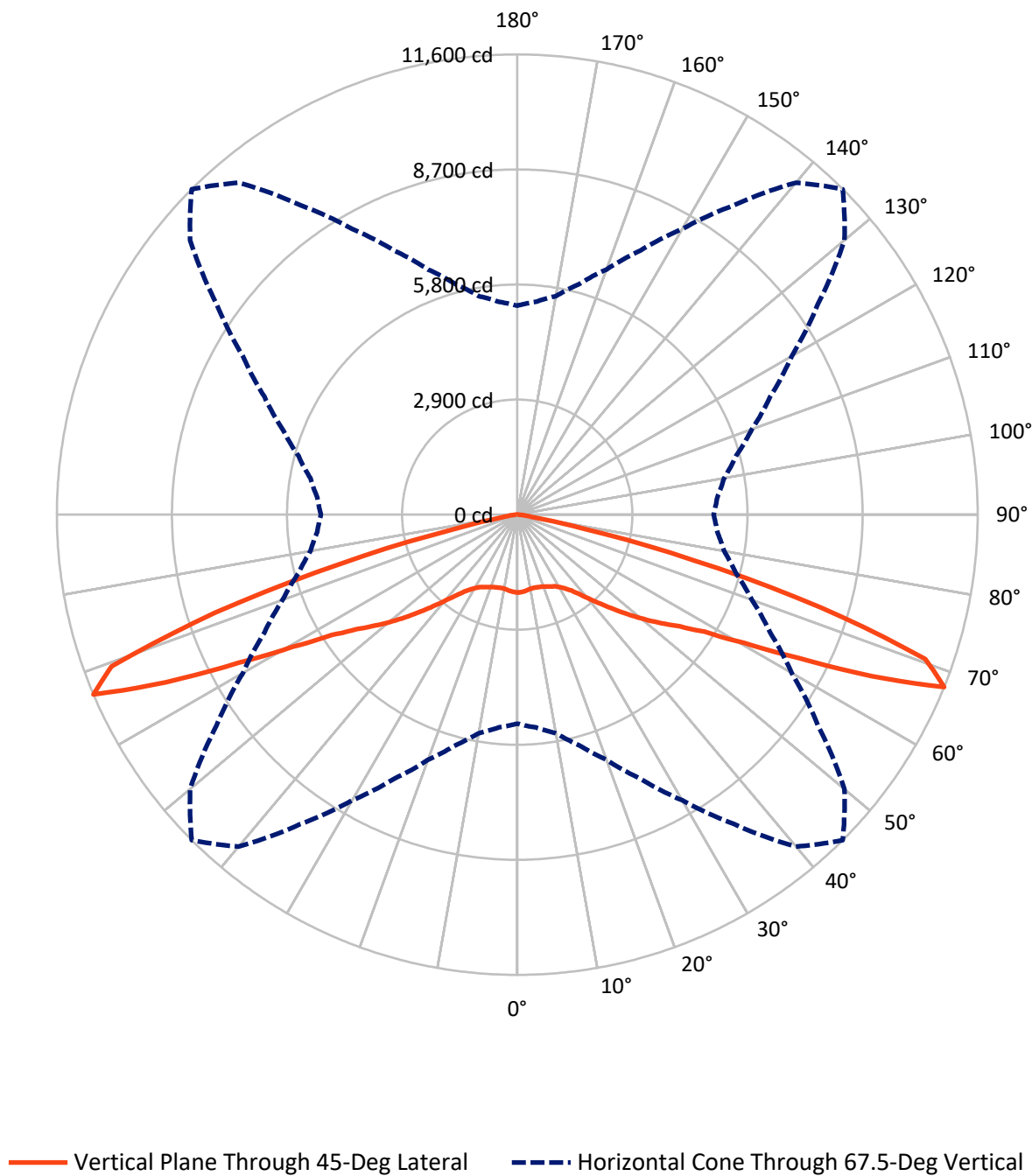


Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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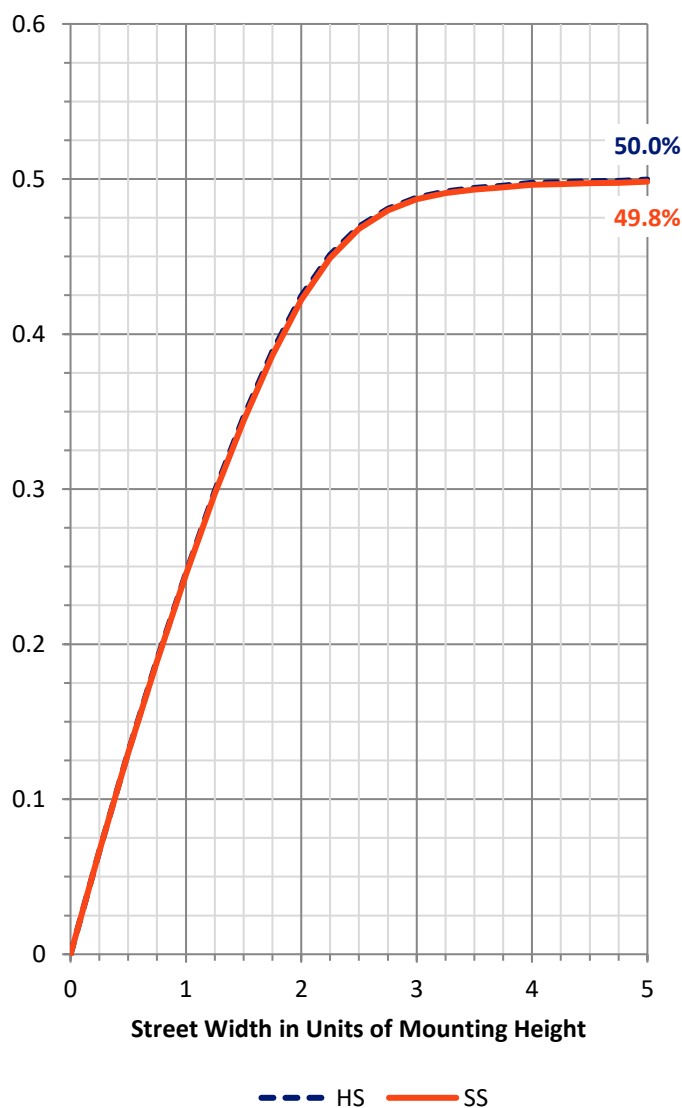
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9855.2	0.0	9855.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9855.2	0.0	9855.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	19710.4	0.0	19710.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.8	0.9
10°-20°	533.5	2.7
20°-30°	906.9	4.6
30°-40°	1482.5	7.5
40°-50°	2646.5	13.4
50°-60°	4462.1	22.6
60°-70°	6924.5	35.1
70°-80°	2433.0	12.3
80°-90°	137.5	0.7
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°	19710.4	100.0
0°-180°	19710.4	100.0

Coefficient of Utilization



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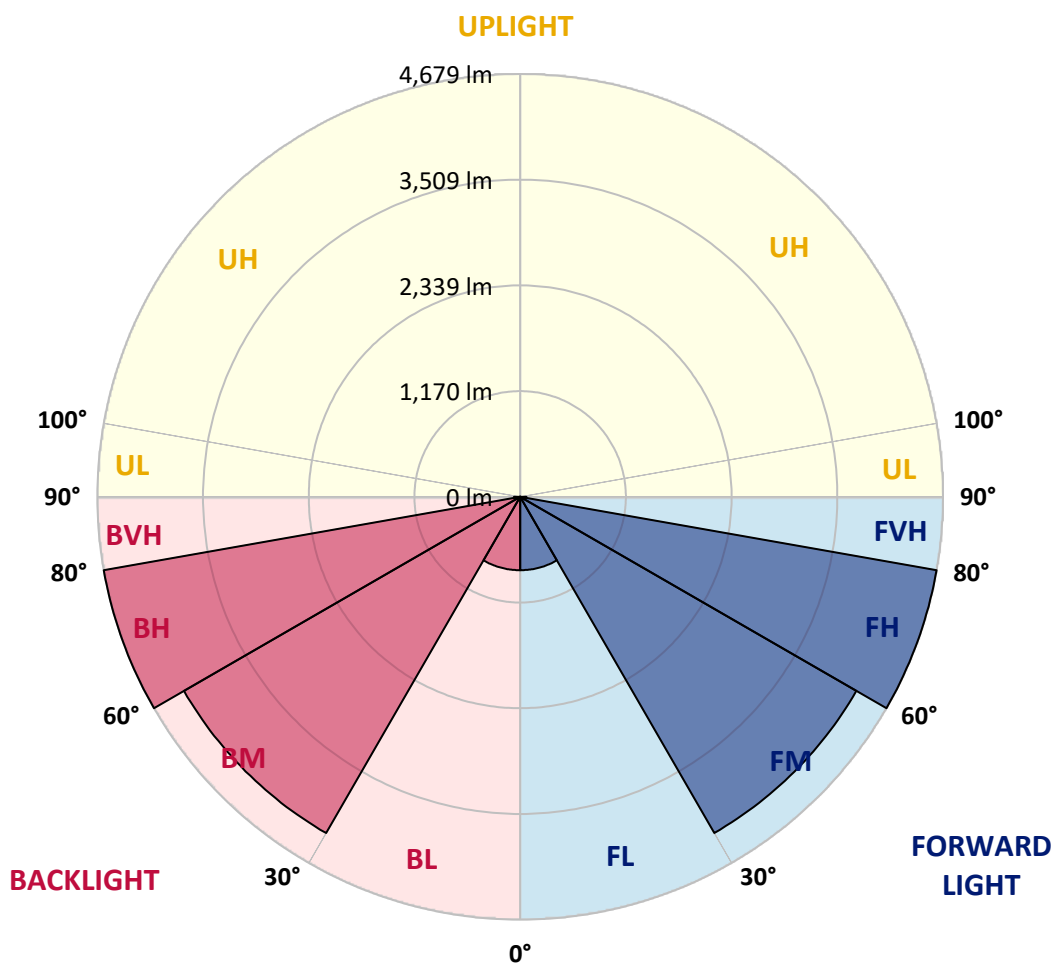
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	812.1	4.1			
FM	(30°-60°)	4295.6	21.8			
FH	(60°-80°)	4678.8	23.7			G2/5000
FVH	(80°-90°)	68.8	0.3			G1/100
BL	(0°-30°)	812.1	4.1	B2/1000		
BM	(30°-60°)	4295.6	21.8	B3/5000		
BH	(60°-80°)	4678.8	23.7	B4/5000		G2/5000
BVH	(80°-90°)	68.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1964.3	1964.3	1964.3	1964.3	1964.3	1964.3	1964.3	1964.3	1964.3	1964.3	1964.3
2.5°	1957.0	1958.8	1958.8	1958.8	1957.9	1957.9	1956.1	1957.9	1957.0	1954.2	1955.2
5°	1940.7	1942.5	1942.5	1941.5	1944.3	1943.4	1940.7	1942.5	1941.5	1939.8	1940.7
7.5°	1917.1	1919.8	1919.8	1918.9	1921.7	1920.7	1918.9	1919.8	1919.8	1917.1	1917.1
10°	1890.8	1892.6	1892.6	1891.8	1896.2	1896.2	1895.3	1898.1	1898.9	1896.2	1894.4
12.5°	1866.3	1869.1	1869.1	1872.7	1877.2	1879.0	1883.5	1887.1	1890.8	1889.8	1886.3
15°	1851.8	1853.6	1857.3	1861.8	1869.1	1875.4	1882.6	1890.8	1898.1	1899.9	1894.4
17.5°	1842.7	1845.5	1851.0	1857.3	1867.2	1878.0	1889.0	1899.9	1909.9	1913.4	1907.1
20°	1840.0	1841.9	1847.2	1858.2	1871.7	1888.1	1903.6	1916.2	1929.7	1934.3	1929.7
22.5°	1845.5	1849.1	1855.4	1868.2	1886.3	1907.1	1925.2	1942.5	1959.7	1967.9	1961.5
25°	1870.0	1873.6	1881.8	1898.1	1918.0	1939.8	1960.5	1980.6	1995.9	2004.2	1999.6
27.5°	1915.4	1919.8	1929.7	1946.1	1967.9	1991.5	2014.0	2030.4	2043.0	2045.8	2040.3
30°	1983.3	1993.2	2005.0	2023.2	2048.5	2068.5	2091.1	2105.7	2121.0	2121.0	2116.5
32.5°	2089.2	2099.3	2112.0	2129.3	2149.1	2170.9	2190.8	2203.5	2219.8	2220.7	2209.9
35°	2247.9	2252.5	2263.3	2274.2	2292.4	2311.4	2328.7	2336.7	2350.3	2351.3	2341.3
37.5°	2457.3	2458.3	2465.4	2469.2	2485.4	2506.3	2522.6	2528.0	2540.8	2538.8	2529.0
40°	2701.1	2705.7	2708.4	2713.8	2731.1	2751.0	2768.2	2771.0	2784.6	2781.8	2769.1
42.5°	2983.0	2984.9	3000.3	3008.5	3024.8	3034.6	3056.4	3059.2	3075.5	3068.2	3053.8
45°	3299.4	3315.7	3330.2	3346.5	3363.8	3375.6	3392.7	3389.1	3400.0	3389.1	3380.9
47.5°	3632.0	3643.8	3676.5	3701.8	3729.9	3740.0	3764.4	3753.5	3764.4	3749.0	3746.3
50°	3998.3	4019.1	4047.2	4076.3	4106.1	4122.5	4154.1	4140.6	4155.0	4140.6	4132.4
52.5°	4359.0	4364.5	4426.1	4468.7	4510.3	4529.5	4548.5	4542.1	4543.0	4542.1	4533.9
55°	4701.7	4714.3	4775.9	4833.9	4906.5	4960.0	4992.6	4989.0	4980.8	4972.6	4959.1
57.5°	5087.7	5100.4	5171.1	5242.8	5325.3	5401.3	5467.6	5535.5	5561.9	5569.1	5539.1
60°	5609.8	5609.0	5703.3	5790.2	5908.0	6021.4	6166.4	6314.2	6483.7	6562.5	6458.4
62.5°	6141.0	6162.8	6298.8	6452.9	6695.7	6932.3	7199.7	7462.6	7730.8	7949.3	7717.3
65°	6077.5	6161.0	6363.2	6712.2	7160.8	7693.7	8270.2	8880.3	9431.4	9810.3	9385.2
67.5°	5267.3	5385.9	5591.8	6016.0	6577.0	7345.6	8313.7	9520.2	10922.4	11600.4	10760.2
70°	3817.8	3952.0	4167.7	4582.0	5137.6	5868.2	6919.6	8368.0	10224.5	10907.9	9982.5
72.5°	1899.9	1972.3	2105.7	2369.4	2789.9	3382.7	4336.3	5728.6	7371.0	7998.4	7152.5
75°	645.4	678.9	701.6	787.6	920.9	1153.9	1628.0	2504.4	3820.6	4580.1	3766.1
77.5°	372.6	373.4	388.9	404.3	426.8	452.4	515.7	677.1	1171.1	1663.3	1211.9
80°	241.1	240.2	252.9	264.6	280.0	292.9	296.4	313.6	361.6	428.8	383.4
82.5°	125.1	140.5	168.6	184.0	213.0	218.4	211.2	204.9	216.7	224.7	230.2
85°	69.0	59.9	89.7	116.1	128.7	130.6	130.6	123.3	127.9	125.1	135.9
87.5°	31.6	29.0	35.4	57.2	60.7	51.7	54.4	48.1	34.4	33.6	38.0
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°	1964.3	1964.3	1964.3	1964.3	1964.3	1964.3	1964.3	1964.3
2.5°	1955.2	1956.1	1956.1	1958.8	1959.7	1961.5	1963.3	1964.3
5°	1939.8	1942.5	1940.7	1943.4	1943.4	1945.2	1945.2	1946.1
7.5°	1917.1	1919.8	1919.8	1919.8	1918.9	1921.7	1921.7	1921.7
10°	1893.6	1895.3	1894.4	1892.6	1890.8	1893.6	1892.6	1891.8
12.5°	1886.3	1881.8	1878.0	1876.3	1872.7	1873.6	1870.8	1870.8
15°	1890.8	1882.6	1876.3	1873.6	1870.0	1868.2	1866.3	1867.2
17.5°	1902.5	1892.6	1884.5	1880.0	1875.4	1872.7	1869.1	1870.0
20°	1923.4	1911.6	1899.9	1890.8	1882.6	1878.0	1875.4	1874.5
22.5°	1954.2	1937.0	1919.8	1906.2	1895.3	1889.0	1886.3	1884.5
25°	1989.6	1970.6	1950.6	1935.2	1924.4	1916.2	1910.7	1910.7
27.5°	2034.0	2018.6	2000.4	1982.4	1972.3	1964.3	1960.5	1958.8
30°	2108.3	2093.9	2079.3	2062.2	2049.3	2041.3	2035.0	2029.5
32.5°	2203.5	2191.7	2179.9	2167.2	2155.4	2144.6	2134.6	2130.1
35°	2337.7	2328.7	2320.4	2305.9	2301.4	2295.1	2289.6	2285.0
37.5°	2522.6	2519.0	2519.0	2503.5	2500.0	2497.2	2491.7	2492.6
40°	2765.5	2769.1	2764.6	2759.2	2756.4	2749.2	2749.2	2755.5
42.5°	3052.8	3055.6	3065.5	3056.4	3066.5	3057.4	3051.9	3056.4
45°	3386.4	3396.4	3416.3	3407.2	3413.6	3398.2	3379.2	3380.1
47.5°	3760.7	3769.8	3777.9	3771.6	3772.5	3747.1	3721.8	3715.5
50°	4149.5	4153.3	4157.8	4148.7	4150.5	4122.5	4093.4	4094.3
52.5°	4533.9	4551.2	4569.3	4544.8	4539.4	4507.6	4466.8	4450.5
55°	4973.6	4998.1	4977.2	4934.5	4892.0	4849.4	4795.9	4786.8
57.5°	5515.6	5473.9	5408.7	5327.9	5269.0	5209.3	5154.9	5132.1
60°	6269.8	6112.9	5995.0	5875.4	5800.2	5726.9	5655.2	5644.4
62.5°	7335.6	7064.7	6829.9	6582.5	6380.3	6222.7	6096.5	6061.2
65°	8671.8	8030.9	7475.3	6956.7	6506.3	6166.4	5952.5	5858.3
67.5°	9246.4	7981.1	7028.4	6292.3	5703.3	5291.8	5060.6	4945.4
70°	8125.2	6618.7	5582.7	4845.7	4309.1	3870.4	3661.1	3537.9
72.5°	5589.9	4210.3	3329.3	2717.5	2288.8	1921.7	1776.5	1765.7
75°	2509.9	1662.4	1145.7	882.9	743.3	646.3	616.3	593.8
77.5°	702.4	519.4	463.2	433.3	404.3	370.7	358.1	360.8
80°	341.8	322.7	310.0	290.9	264.6	236.5	223.9	229.3
82.5°	226.6	223.9	232.0	218.4	180.4	153.2	128.7	117.8
85°	137.7	139.7	142.2	143.2	121.5	85.2	58.0	65.2
87.5°	54.4	62.5	68.0	70.7	66.2	40.8	32.7	33.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)