

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: P192732

Luminaire Tested: **GLEON-AF-04-LED-E1-RW-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192732
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
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-RW-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15640.5 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B4 - U0 - G4

Input Watts (W): 129
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



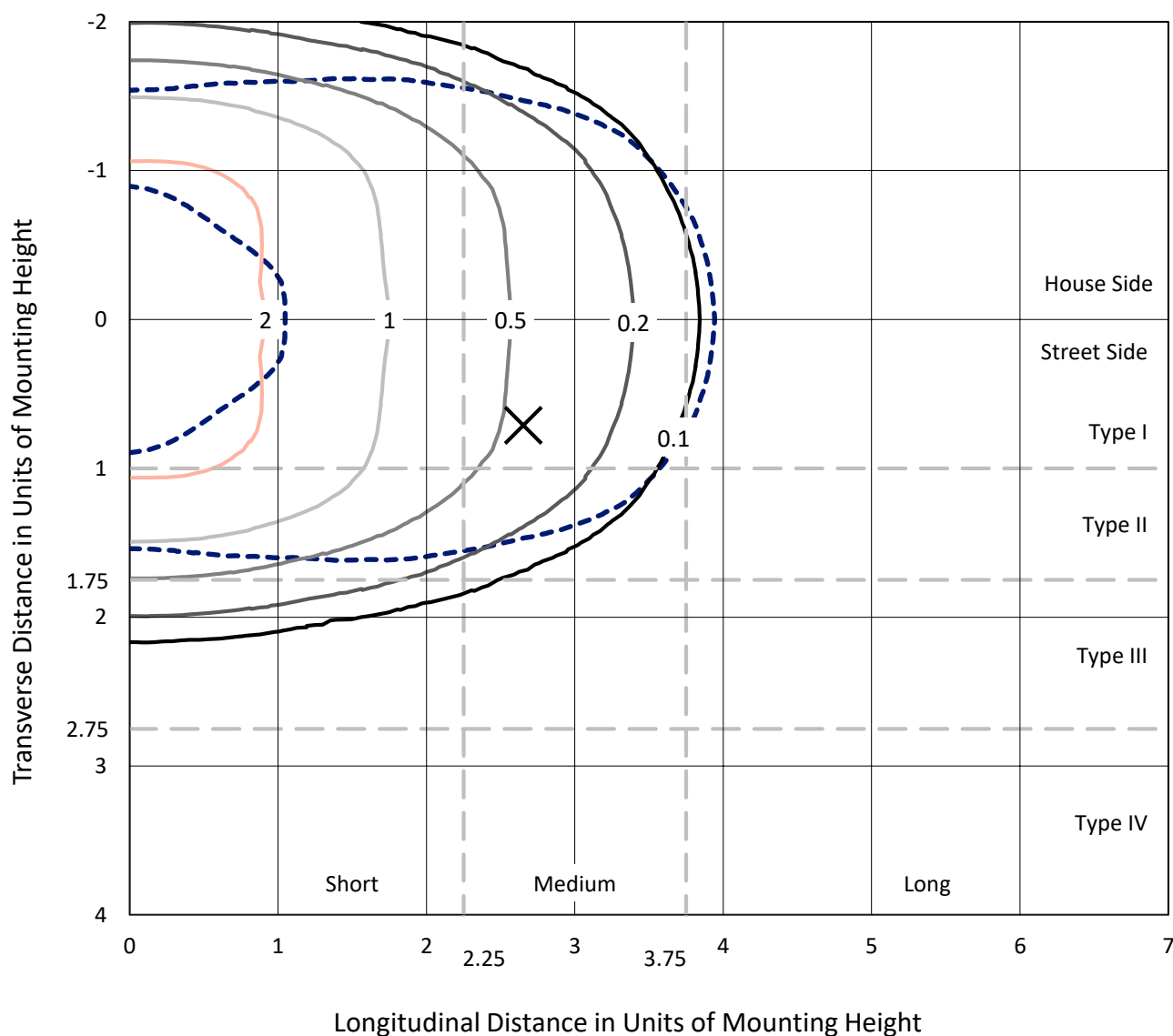
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

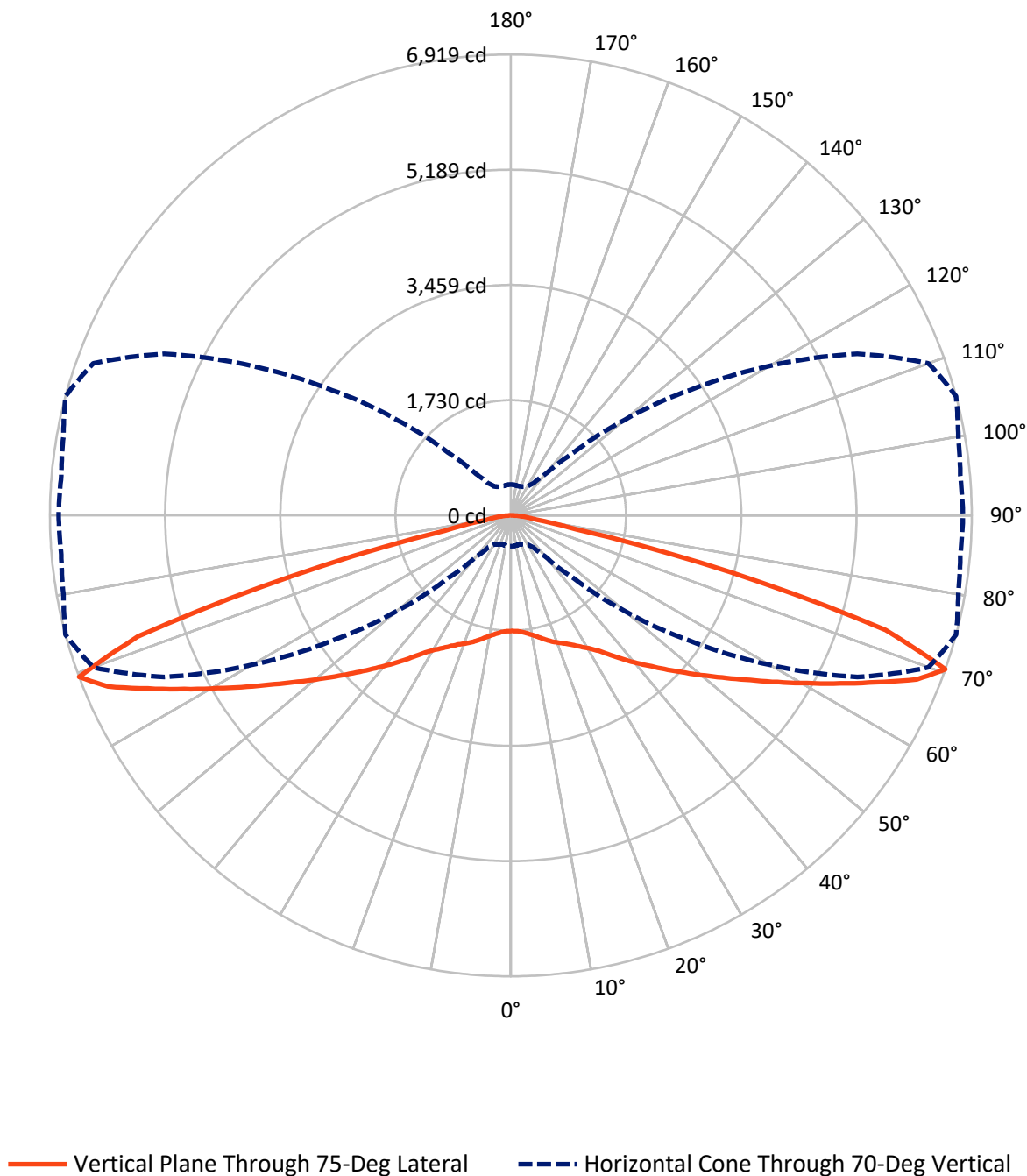


Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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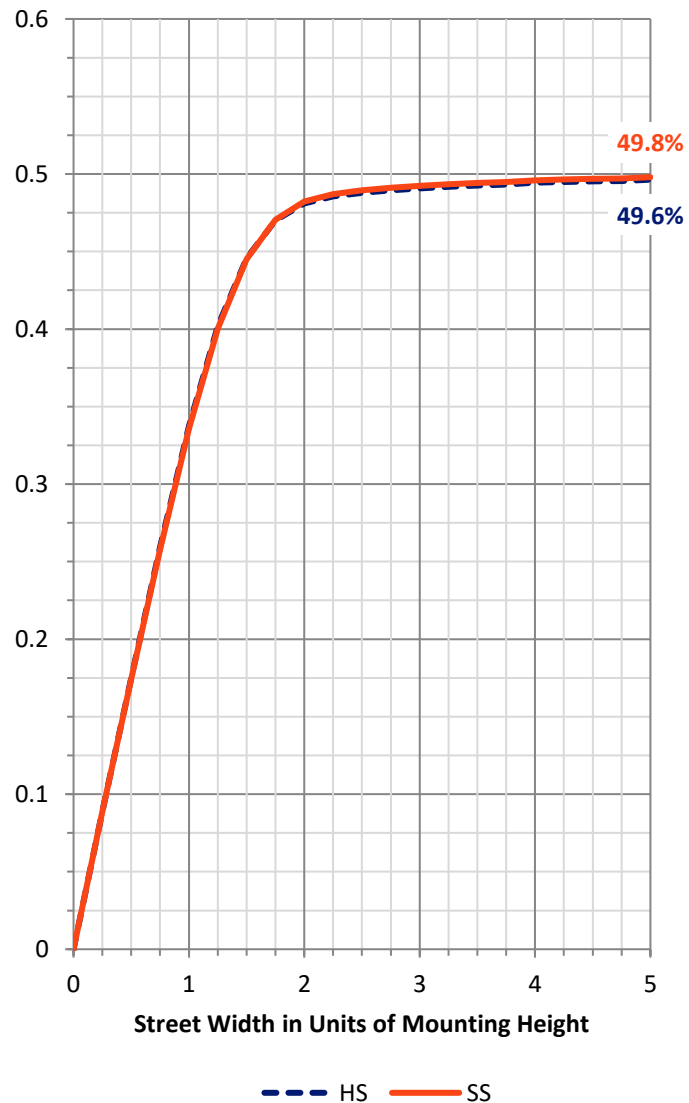
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7820.2	0.0	7820.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7820.2	0.0	7820.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	15640.5	0.0	15640.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.4	1.1
10°-20°	517.0	3.3
20°-30°	973.1	6.2
30°-40°	1723.1	11.0
40°-50°	2881.6	18.4
50°-60°	4015.5	25.7
60°-70°	3723.7	23.8
70°-80°	1484.0	9.5
80°-90°	156.0	1.0
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°	15640.5	100.0
0°-180°	15640.5	100.0

Coefficient of Utilization



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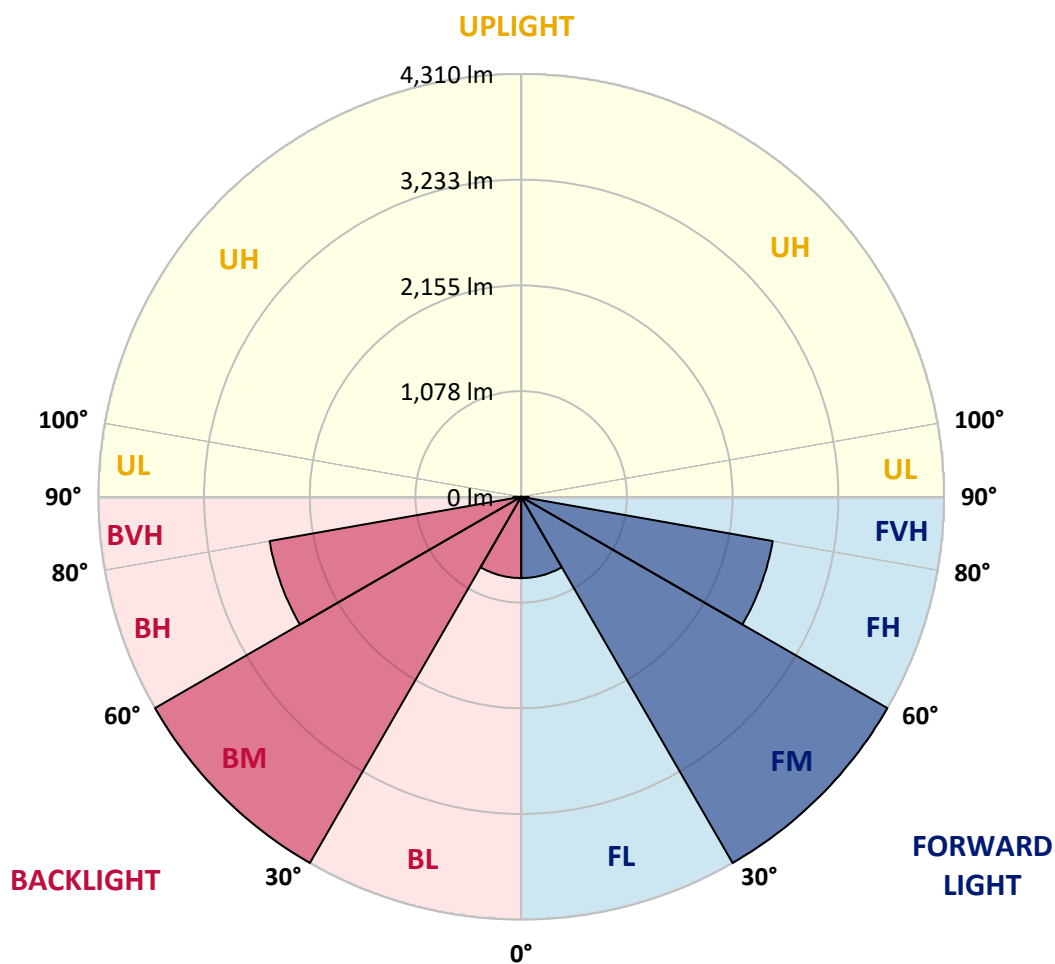
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	828.2	5.3			
FM	(30°-60°)	4310.1	27.6			
FH	(60°-80°)	2603.9	16.6			G2/5000
FVH	(80°-90°)	78.0	0.5			G1/100
BL	(0°-30°)	828.2	5.3	B2/1000		
BM	(30°-60°)	4310.1	27.6	B3/5000		
BH	(60°-80°)	2603.9	16.6	B4/5000		G4/5000
BVH	(80°-90°)	78.0	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1734.9	1734.9	1734.9	1734.9	1734.9	1734.9	1734.9	1734.9	1734.9	1734.9	1734.9
2.5°	1732.0	1730.4	1732.0	1731.2	1732.7	1732.7	1734.2	1737.1	1737.1	1739.3	1738.6
5°	1715.0	1714.2	1716.5	1718.6	1720.9	1725.3	1729.7	1736.3	1741.6	1745.2	1748.9
7.5°	1681.7	1681.7	1684.7	1689.8	1694.9	1704.6	1715.0	1728.3	1741.6	1752.6	1762.3
10°	1654.3	1655.9	1659.5	1668.4	1677.2	1692.0	1706.1	1725.3	1743.8	1762.3	1777.0
12.5°	1638.1	1640.3	1647.0	1660.2	1675.1	1694.9	1716.5	1740.8	1761.5	1783.6	1798.5
15°	1643.3	1644.7	1654.3	1670.6	1689.8	1715.0	1743.8	1772.6	1797.0	1820.6	1840.6
17.5°	1672.1	1674.3	1685.4	1703.9	1723.8	1753.4	1784.4	1817.0	1847.2	1873.9	1898.3
20°	1723.8	1726.0	1740.1	1760.0	1783.6	1814.0	1845.1	1879.0	1913.0	1941.1	1968.6
22.5°	1797.0	1800.7	1814.0	1833.9	1860.5	1893.0	1930.1	1966.2	1998.8	2024.7	2049.0
25°	1893.0	1901.2	1913.7	1936.0	1964.1	1993.7	2033.6	2070.5	2101.5	2125.9	2143.6
27.5°	2029.1	2040.2	2049.8	2071.2	2098.6	2126.6	2166.6	2199.1	2228.7	2252.4	2265.6
30°	2209.4	2220.5	2230.2	2250.8	2276.0	2302.6	2340.4	2369.1	2387.7	2406.1	2405.4
32.5°	2428.3	2440.1	2443.8	2466.0	2491.8	2520.6	2554.7	2570.9	2585.7	2588.0	2574.5
35°	2672.9	2678.8	2693.7	2723.2	2752.8	2776.4	2808.9	2817.0	2817.0	2806.0	2776.4
37.5°	2941.3	2945.0	2965.7	2998.9	3029.2	3053.6	3075.7	3092.0	3084.0	3060.3	3010.7
40°	3235.5	3242.2	3271.7	3301.3	3335.2	3358.2	3381.8	3384.8	3376.6	3341.9	3274.6
42.5°	3516.4	3522.3	3551.8	3598.5	3642.7	3674.5	3696.7	3701.1	3675.3	3643.5	3560.0
45°	3758.1	3773.6	3812.0	3866.6	3931.0	3976.2	4006.4	4019.0	3996.0	3954.7	3857.8
47.5°	3949.5	3965.0	4019.7	4084.7	4164.6	4237.8	4288.1	4314.6	4308.7	4277.7	4172.1
50°	4090.0	4104.8	4163.9	4243.7	4336.8	4427.7	4513.5	4577.1	4599.3	4585.3	4488.4
52.5°	4106.2	4130.6	4200.2	4307.3	4428.5	4552.8	4674.6	4782.6	4855.8	4866.9	4795.2
55°	3879.2	3903.8	3999.8	4158.7	4339.1	4541.6	4736.7	4918.7	5062.7	5136.8	5099.0
57.5°	3344.1	3387.7	3488.9	3675.3	3940.7	4243.7	4554.9	4878.0	5171.5	5367.3	5404.9
60°	2562.7	2614.6	2716.5	2914.6	3210.4	3571.8	3987.2	4464.8	4982.9	5423.5	5686.6
62.5°	1644.1	1692.8	1799.9	1972.1	2213.1	2605.0	3050.6	3617.6	4314.0	5009.5	5636.3
65°	844.9	871.6	927.7	1032.0	1219.7	1512.3	1912.2	2477.8	3273.9	4132.0	5038.4
67.5°	535.2	540.4	553.0	567.7	615.7	717.1	903.2	1255.9	1910.8	2806.0	3866.6
70°	462.7	462.7	456.8	454.6	460.5	474.5	503.3	585.4	806.5	1332.0	2230.2
72.5°	423.6	419.1	408.7	400.7	399.2	399.2	405.2	417.7	453.1	542.6	873.0
75°	390.3	377.7	363.8	354.1	350.4	346.7	346.0	348.2	355.5	369.7	417.0
77.5°	349.6	333.3	317.1	307.4	303.0	297.9	293.5	288.3	284.6	289.0	309.8
80°	300.9	282.3	269.8	263.9	259.5	252.1	242.4	233.6	225.4	224.0	236.5
82.5°	242.4	221.0	221.8	224.0	215.9	205.5	195.1	185.5	171.5	164.1	171.5
85°	195.9	184.7	179.6	193.7	181.8	166.3	150.0	133.1	110.9	93.1	101.3
87.5°	76.2	76.2	113.8	175.2	157.5	128.6	110.2	93.9	58.4	45.2	45.8
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°	1734.9	1734.9	1734.9	1734.9	1734.9	1734.9	1734.9	1734.9
2.5°	1737.9	1739.3	1738.6	1737.9	1737.9	1737.1	1737.9	1737.9
5°	1751.2	1754.8	1754.8	1756.4	1756.4	1757.1	1757.8	1757.1
7.5°	1771.1	1777.7	1782.2	1787.4	1788.1	1788.9	1790.3	1788.9
10°	1791.1	1804.4	1814.0	1823.6	1828.0	1829.5	1830.9	1830.9
12.5°	1816.2	1834.7	1851.7	1868.7	1876.8	1881.2	1881.2	1884.1
15°	1857.6	1876.1	1896.0	1918.9	1933.1	1940.3	1942.6	1942.6
17.5°	1916.0	1932.2	1949.3	1971.5	1989.2	1998.8	2001.0	2000.2
20°	1984.0	1999.6	2009.2	2023.2	2038.7	2049.8	2052.8	2052.8
22.5°	2061.6	2070.5	2072.0	2076.4	2088.9	2103.8	2110.5	2111.9
25°	2147.4	2149.5	2143.6	2143.6	2151.8	2165.8	2172.5	2173.2
27.5°	2258.3	2247.1	2232.3	2227.2	2232.3	2248.7	2256.8	2259.7
30°	2396.5	2369.9	2335.9	2317.4	2314.4	2335.9	2350.6	2352.9
32.5°	2554.7	2516.2	2471.1	2433.4	2423.8	2437.1	2454.8	2454.2
35°	2742.4	2696.6	2641.9	2593.9	2571.6	2585.0	2610.1	2613.1
37.5°	2959.0	2899.0	2836.3	2775.7	2741.0	2744.6	2771.3	2780.1
40°	3200.7	3123.0	3044.0	2962.7	2913.2	2903.6	2936.2	2941.3
42.5°	3459.4	3359.6	3259.9	3159.3	3095.8	3081.0	3118.7	3116.4
45°	3735.1	3608.0	3491.3	3380.4	3305.0	3282.8	3313.9	3313.9
47.5°	4031.5	3874.9	3735.9	3610.3	3528.2	3496.4	3526.1	3528.2
50°	4345.7	4179.3	4016.1	3876.3	3778.0	3737.3	3775.8	3781.7
52.5°	4658.4	4496.6	4331.7	4172.1	4053.0	4003.5	4047.8	4067.0
55°	4975.5	4816.5	4659.2	4503.2	4361.9	4303.6	4350.9	4375.3
57.5°	5310.3	5163.3	5013.3	4855.8	4719.8	4628.9	4679.1	4711.6
60°	5702.9	5577.2	5421.2	5247.5	5110.0	5017.6	5046.4	5075.3
62.5°	6013.3	6062.1	5929.8	5728.8	5552.1	5433.8	5461.9	5492.3
65°	5863.3	6363.7	6481.3	6278.0	6033.3	5849.3	5837.4	5852.9
67.5°	4900.9	5872.9	6581.8	6775.5	6570.8	6314.9	6267.6	6290.6
70°	3278.4	4489.1	5739.8	6671.3	6918.9	6819.9	6773.2	6787.3
72.5°	1574.5	2614.6	3894.1	5132.2	5886.3	6232.1	6343.0	6397.0
75°	575.8	1037.9	1876.8	2828.1	3414.4	3952.5	4303.6	4447.0
77.5°	347.5	419.1	599.5	902.6	1022.3	1144.3	1097.0	1120.7
80°	257.2	290.5	329.0	369.7	383.0	383.0	368.1	356.3
82.5°	180.4	201.8	220.2	242.4	248.3	237.3	195.1	155.2
85°	116.1	125.6	133.9	147.8	144.1	137.4	92.5	82.1
87.5°	53.2	60.6	63.6	70.3	67.3	64.4	45.8	38.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)