

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: P300668

Luminaire Tested: **GLNA-AF-02-LED-E1-AFL-8030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300668
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-02-LED-E1-AFL-8030-800-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive
Frontline WITH HOUSESIDE SHIELD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5971.1 lumens
Efficiency: N/A
Efficacy: 70.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 85
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



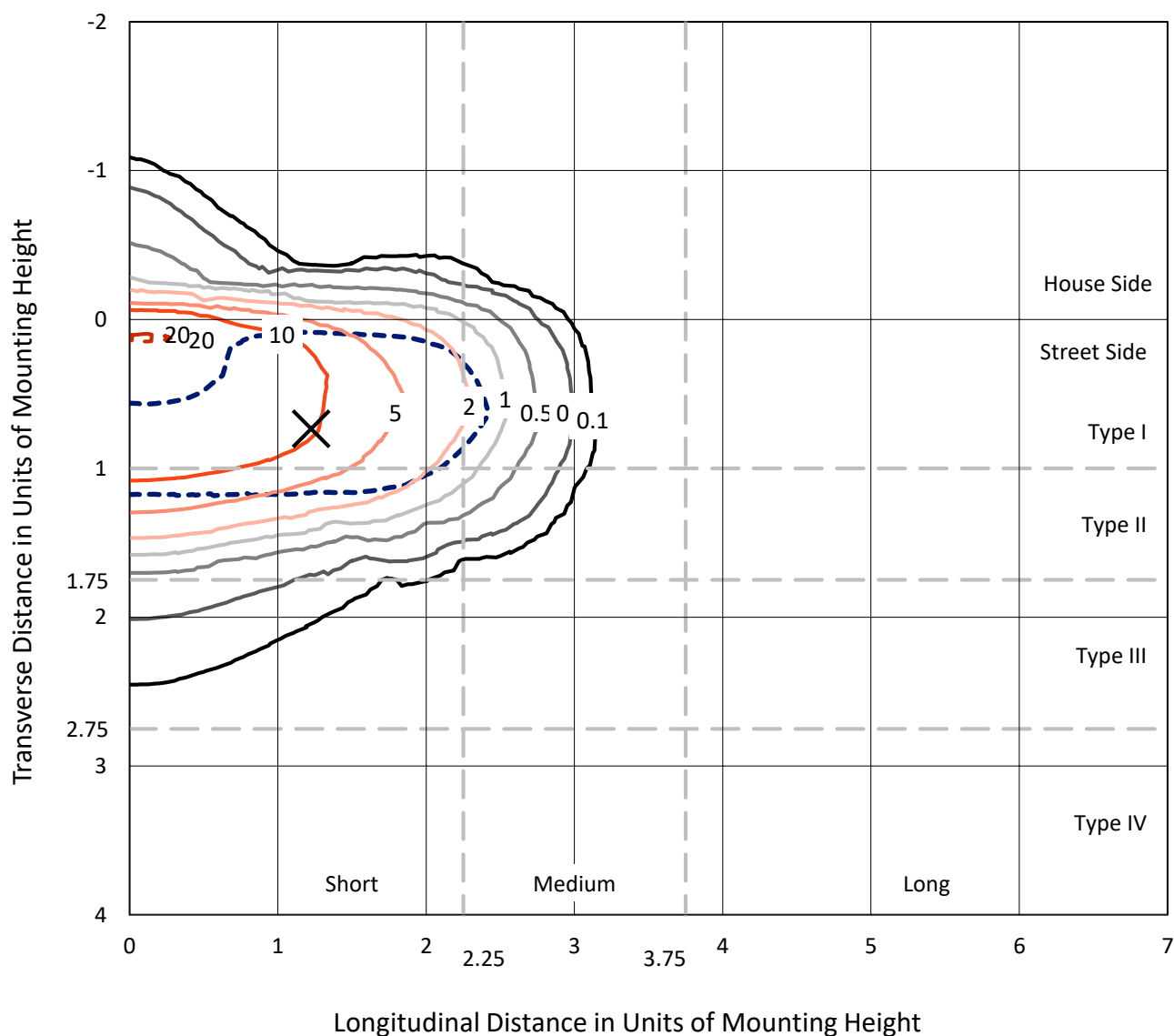
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

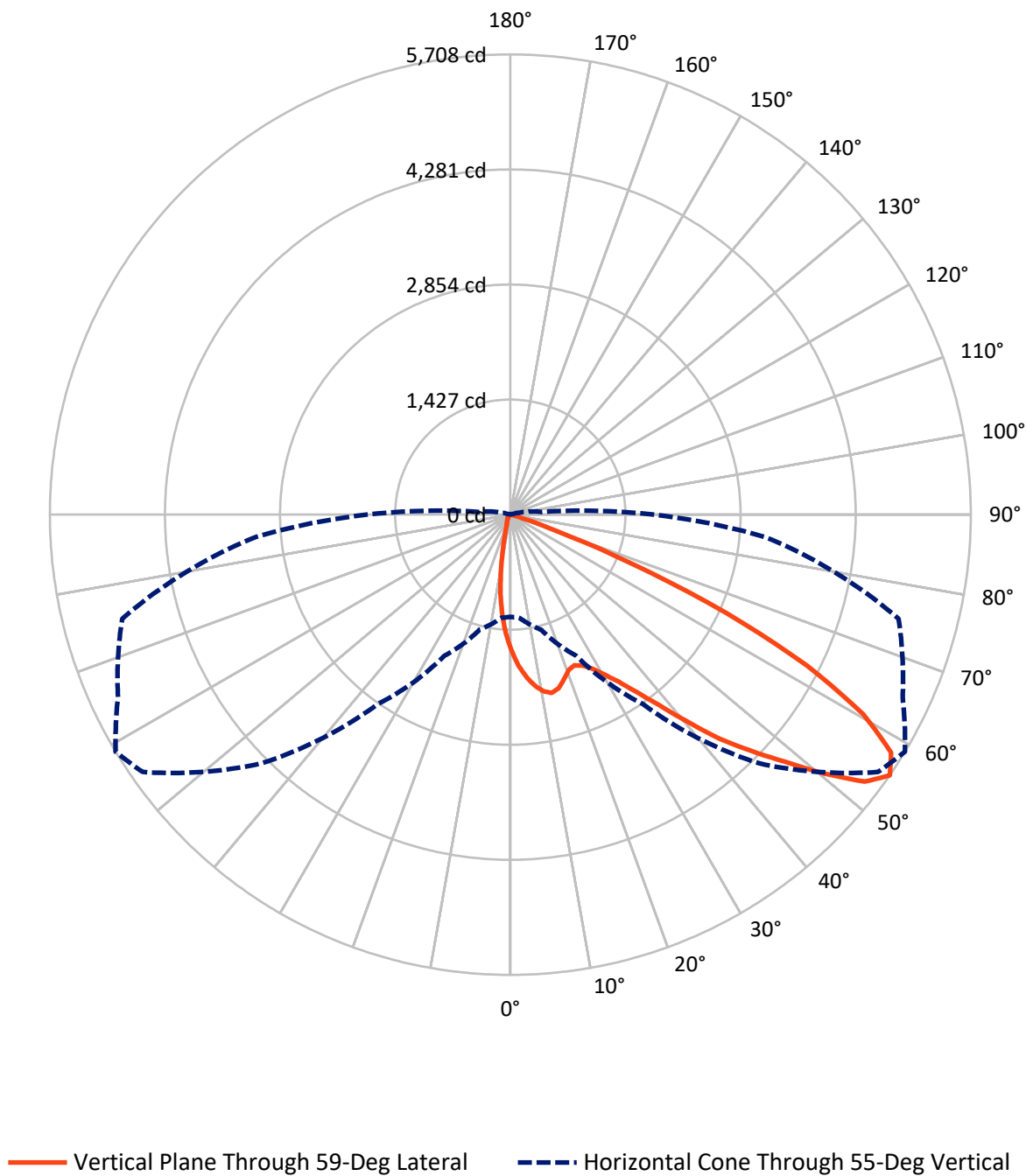


Based on 10 foot mounting height. Maximum calculated value = 20.9 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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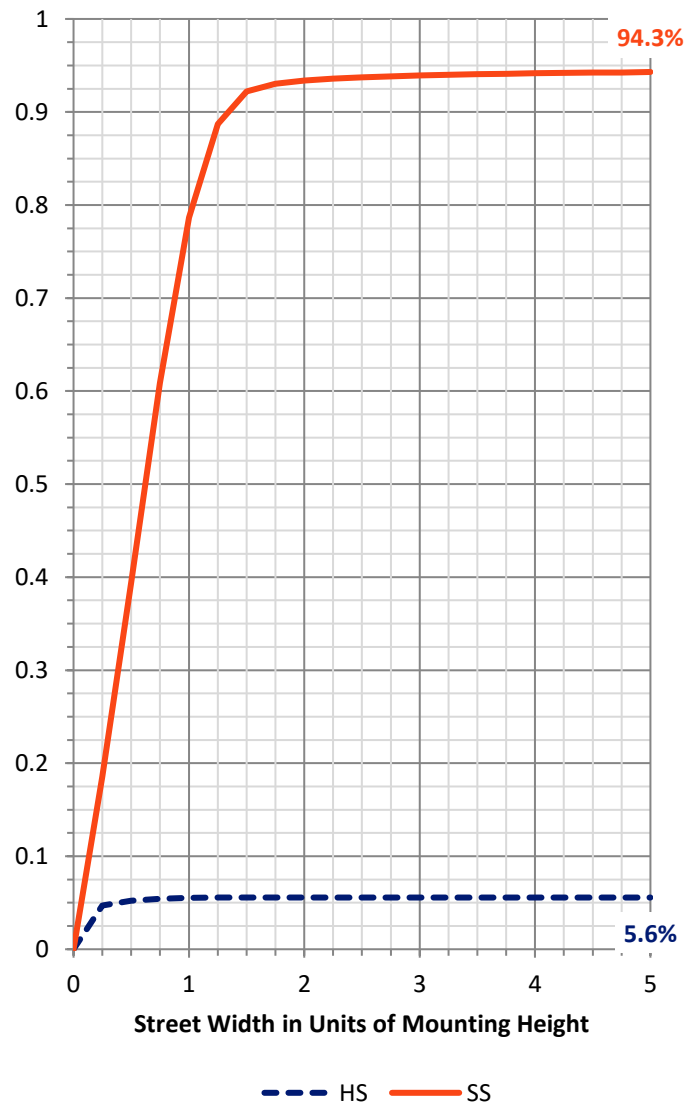
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	333.5	0.0	333.5
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	5637.6	0.0	5637.6
	% Fixture	94.4	0.0	94.4
Total	Lumens	5971.1	0.0	5971.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.8	2.4
10°-20°	337.1	5.6
20°-30°	573.6	9.6
30°-40°	986.5	16.5
40°-50°	1523.0	25.5
50°-60°	1531.1	25.6
60°-70°	785.2	13.1
70°-80°	85.1	1.4
80°-90°	8.9	0.1
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°	5971.1	100.0
0°-180°	5971.1	100.0

Coefficient of Utilization



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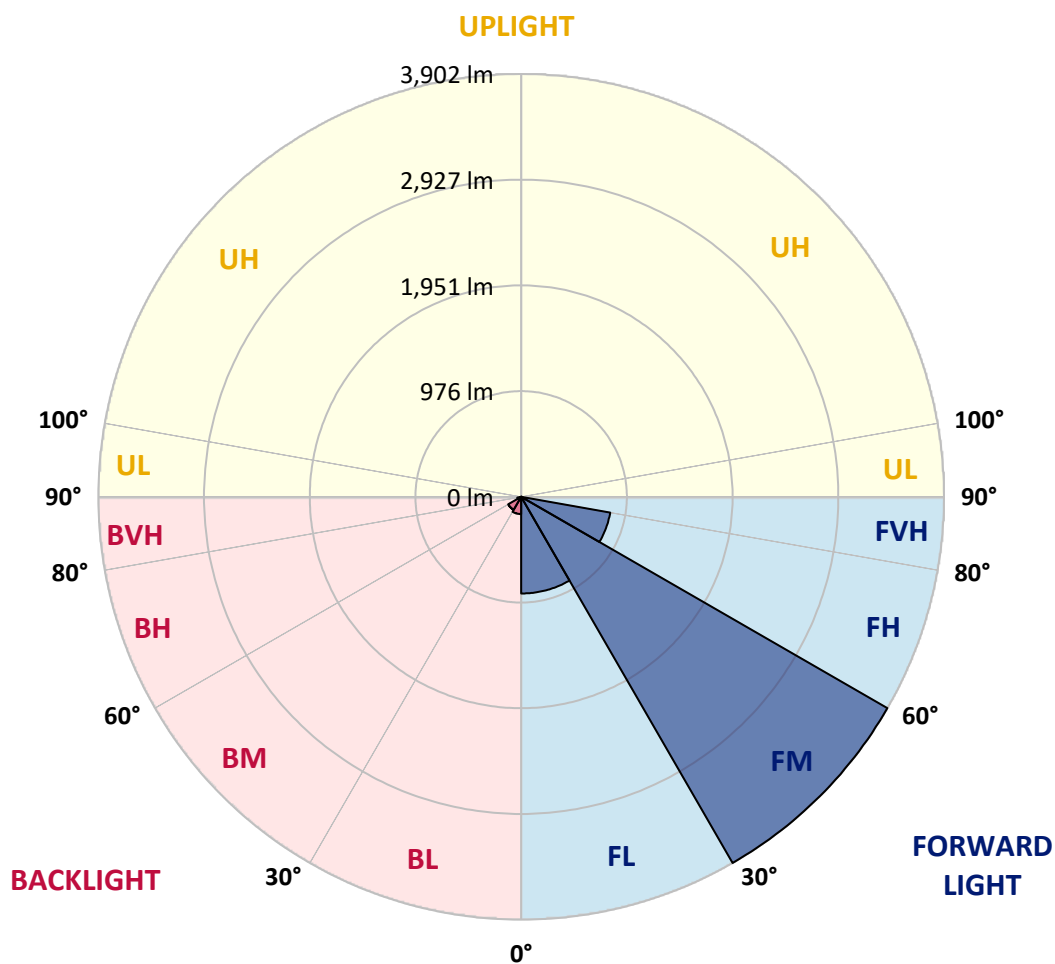
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	892.3	14.9			
FM	(30°-60°)	3902.1	65.3			
FH	(60°-80°)	834.5	14.0			G1/1800
FVH	(80°-90°)	8.7	0.1			G0/10
BL	(0°-30°)	159.2	2.7	B1/500		
BM	(30°-60°)	138.4	2.3	B0/220		
BH	(60°-80°)	35.7	0.6	B0/110		G0/110
BVH	(80°-90°)	0.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8
2.5°	1988.8	1967.7	1961.3	1957.1	1937.7	1913.4	1880.3	1864.8	1833.1	1782.0	1719.3
5°	2171.0	2167.1	2153.0	2145.3	2124.5	2090.0	2037.1	2011.7	1961.3	1875.4	1763.0
7.5°	2091.4	2115.7	2135.1	2167.5	2208.4	2206.9	2162.5	2136.1	2079.7	1966.3	1811.6
10°	1783.7	1803.5	1835.2	1908.8	2059.0	2191.4	2243.6	2224.6	2179.5	2049.8	1858.4
12.5°	1723.5	1721.4	1727.0	1748.5	1827.1	2016.0	2229.9	2268.3	2259.1	2126.3	1902.8
15°	1755.6	1753.1	1752.4	1759.8	1778.8	1858.4	2126.6	2236.9	2307.7	2197.1	1940.6
17.5°	1845.4	1834.8	1829.2	1823.2	1817.6	1837.3	2002.6	2149.2	2315.1	2259.1	1971.9
20°	1999.4	1981.8	1961.0	1927.2	1895.4	1885.6	1950.4	2059.0	2288.7	2306.3	1992.4
22.5°	2192.9	2170.3	2134.4	2072.7	2008.2	1970.9	1976.1	2030.4	2249.2	2357.8	2001.9
25°	2410.3	2381.4	2333.5	2247.8	2153.0	2086.8	2052.3	2071.3	2231.3	2418.0	2012.8
27.5°	2643.2	2611.1	2548.4	2431.8	2324.3	2234.8	2164.3	2161.8	2261.9	2497.0	2030.4
30°	2874.0	2869.1	2787.3	2664.0	2521.6	2412.7	2311.3	2298.2	2347.5	2606.2	2065.3
32.5°	3182.0	3145.0	3044.9	2918.1	2753.8	2623.1	2502.9	2472.6	2479.0	2733.4	2119.2
35°	3570.3	3529.8	3388.8	3213.7	3030.1	2875.8	2742.9	2701.7	2686.2	2941.7	2210.1
37.5°	3821.2	3820.5	3732.0	3553.7	3356.8	3186.6	3042.1	2993.8	2962.5	3193.3	2351.1
40°	3827.9	3844.5	3856.1	3854.3	3714.1	3557.3	3429.0	3369.4	3296.5	3529.4	2533.3
42.5°	3622.5	3665.1	3767.6	3941.7	4024.9	3962.5	3854.3	3795.8	3687.3	3889.2	2755.3
45°	3344.8	3374.4	3553.7	3874.4	4193.3	4364.2	4281.8	4177.1	4034.0	4264.5	2954.3
47.5°	3220.4	3225.7	3341.6	3693.6	4206.0	4693.3	4743.4	4573.2	4349.1	4566.8	3110.1
50°	2848.6	2858.1	3018.1	3380.4	4057.3	4848.7	5207.1	5045.7	4692.6	4799.8	3166.8
52.5°	2147.0	2160.4	2363.4	2865.5	3648.5	4782.5	5539.0	5499.9	5069.0	4913.6	3170.0
55°	1266.8	1284.4	1478.2	1928.9	2869.8	4361.0	5563.7	5707.5	5366.0	4980.9	3165.1
57.5°	591.6	604.0	715.0	993.7	1784.8	3446.6	5192.3	5565.1	5529.9	5016.5	3200.0
60°	314.3	317.8	344.6	430.3	806.6	2185.5	4467.5	5025.3	5380.5	5065.8	3242.6
62.5°	240.3	241.4	240.0	250.2	339.0	970.1	3376.8	4131.3	4779.0	5028.8	3195.4
65°	208.3	210.0	200.2	197.7	217.4	346.0	2006.1	2944.8	3755.3	4529.5	2873.7
67.5°	186.8	187.5	175.5	165.3	168.8	187.1	791.4	1612.1	2485.7	3320.1	2082.9
70°	172.0	171.3	158.2	142.0	137.4	127.9	251.6	590.9	1187.9	1683.7	968.7
72.5°	152.2	152.6	146.2	125.1	114.2	89.5	116.6	172.3	354.5	458.8	226.9
75°	135.0	133.2	125.4	112.1	94.1	58.8	57.8	76.8	109.2	108.5	49.0
77.5°	97.6	95.8	98.3	92.0	72.2	38.1	28.9	37.0	44.4	43.0	13.7
80°	71.5	70.5	63.4	76.5	63.8	26.1	18.0	19.7	22.9	19.4	4.2
82.5°	49.0	48.6	44.8	42.3	36.3	15.9	11.3	12.3	14.8	10.9	2.1
85°	7.8	8.8	32.4	25.7	21.5	7.0	7.8	8.5	9.9	6.0	0.7
87.5°	0.0	0.0	15.2	13.4	4.2	2.8	4.6	4.9	4.9	3.2	0.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8
2.5°	1687.2	1652.0	1586.8	1519.5	1457.1	1382.7	1331.6	1293.2	1248.8	1236.9	1262.9
5°	1698.8	1632.2	1492.0	1339.4	1196.0	1037.1	915.5	819.3	732.2	702.6	729.4
7.5°	1717.1	1618.1	1389.4	1138.2	888.7	640.6	470.8	359.1	287.9	266.8	278.0
10°	1735.5	1597.7	1270.7	900.0	558.9	311.9	203.0	162.1	146.9	143.8	145.5
12.5°	1750.6	1570.2	1125.9	639.9	298.8	167.0	132.8	126.2	124.0	124.0	124.7
15°	1759.8	1528.6	954.2	407.0	172.0	126.2	115.9	113.8	113.8	114.2	114.9
17.5°	1758.7	1475.8	766.4	246.3	128.6	111.7	105.7	104.0	103.6	104.3	104.7
20°	1745.7	1406.7	577.9	162.4	112.1	101.8	95.8	92.7	92.3	93.0	93.7
22.5°	1721.0	1321.4	413.3	125.1	101.1	92.3	84.9	82.1	82.1	82.8	83.5
25°	1691.1	1217.1	282.6	106.1	91.3	82.1	75.1	72.6	73.3	75.1	75.4
27.5°	1653.7	1099.8	192.0	90.9	79.3	71.9	66.6	64.8	66.6	69.1	69.8
30°	1621.6	977.5	137.1	78.6	67.3	62.0	58.8	58.8	61.3	65.9	67.0
32.5°	1597.0	859.1	105.7	69.4	58.5	53.9	52.2	53.9	57.8	62.4	63.4
35°	1593.8	761.5	89.5	62.0	52.2	47.6	46.9	50.0	53.9	57.4	58.1
37.5°	1618.1	671.3	80.7	56.0	46.5	42.3	41.6	45.5	49.3	53.6	54.6
40°	1664.3	600.5	74.4	50.4	41.9	37.4	35.9	38.8	44.0	49.7	51.1
42.5°	1724.2	542.0	67.3	44.8	37.4	31.0	29.2	32.4	38.1	44.0	45.8
45°	1781.3	491.6	59.6	38.4	31.4	24.0	23.3	27.5	30.3	36.3	37.7
47.5°	1812.6	447.2	52.9	31.4	24.3	19.4	19.4	20.4	23.3	30.3	31.7
50°	1802.1	411.6	45.8	23.3	16.9	14.8	14.8	14.4	18.7	24.3	25.4
52.5°	1780.9	391.1	39.5	18.0	11.6	10.6	9.5	10.6	13.0	15.5	15.9
55°	1777.8	387.6	33.1	14.4	8.1	7.0	5.3	5.3	5.3	4.9	4.2
57.5°	1802.4	393.3	27.8	11.6	6.0	4.6	2.8	0.0	0.0	0.0	0.0
60°	1827.8	399.2	24.0	8.1	4.2	2.5	0.4	0.0	0.0	0.0	0.0
62.5°	1785.5	385.9	20.1	4.9	3.2	1.1	0.0	0.0	0.0	0.0	0.0
65°	1568.4	328.4	15.9	3.5	2.1	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1115.6	219.9	10.6	2.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	509.2	92.0	6.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	108.9	28.5	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	22.2	20.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	7.0	32.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.2	23.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.7	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)