

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: P192669

Luminaire Tested: **GLEON-AF-01-LED-E1-AFL-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192669
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: GLEON-AF-01-LED-E1-AFL-7030-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4934.1 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 59
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



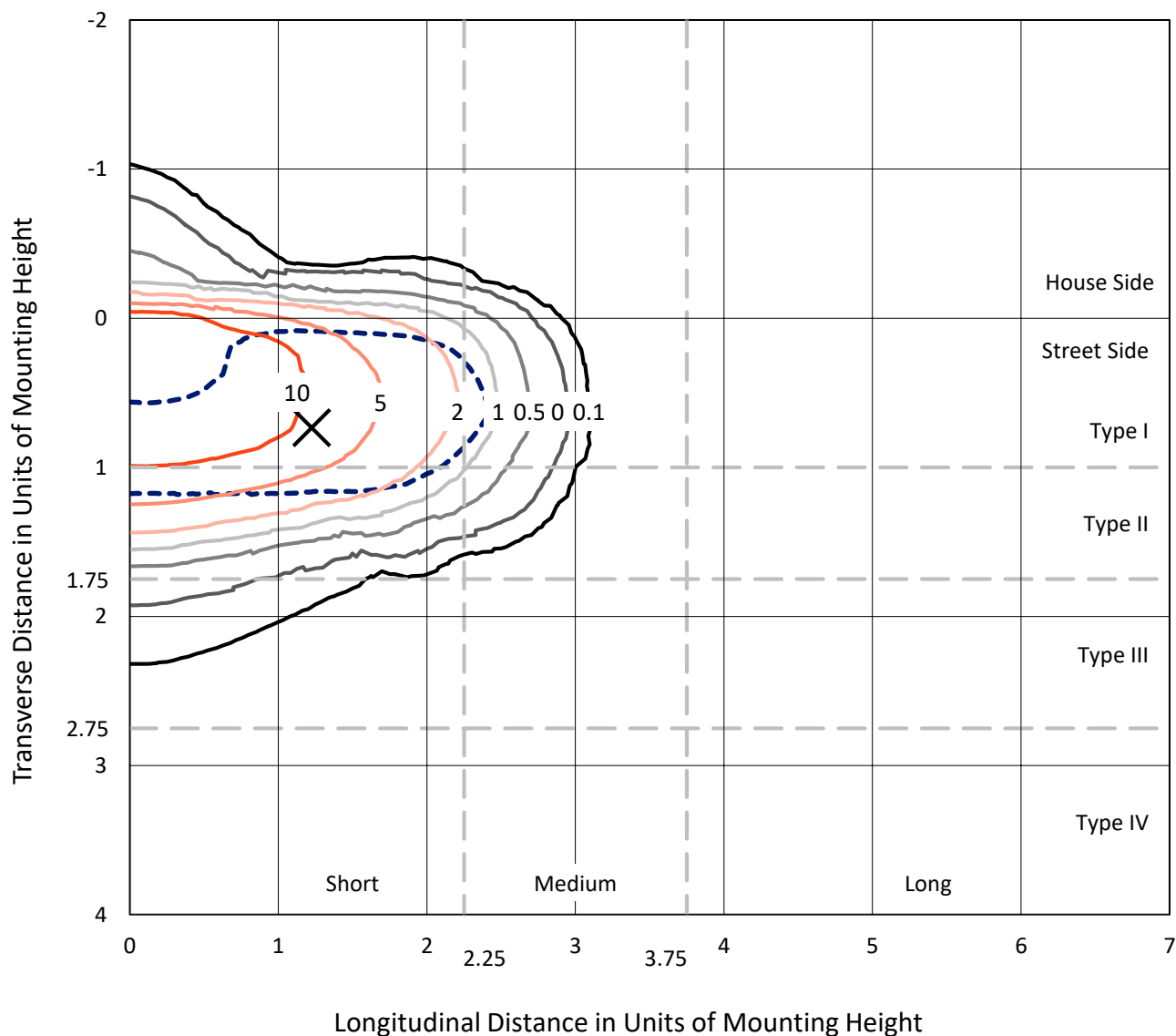
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

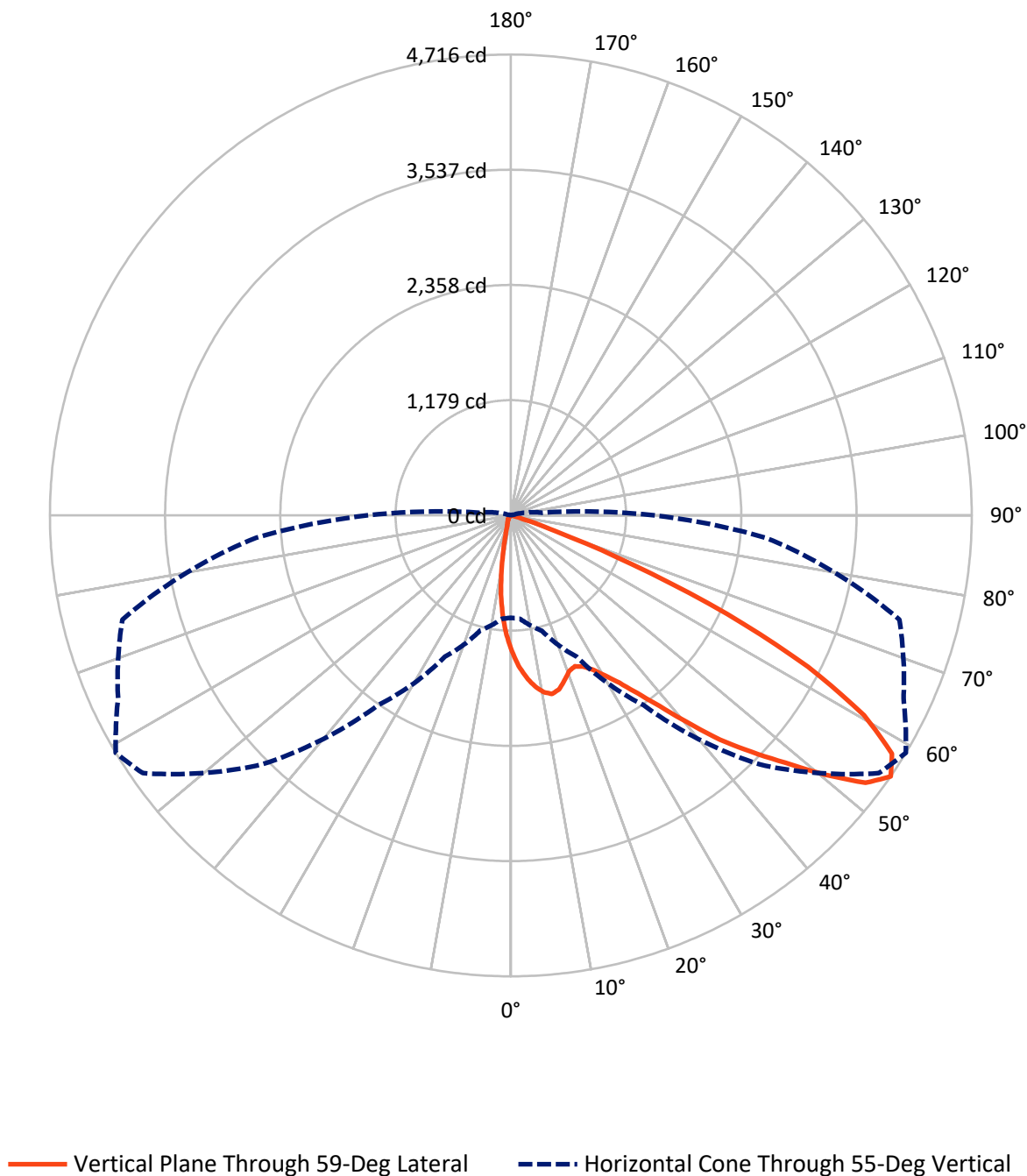


Based on 10 foot mounting height. Maximum calculated value = 17.3 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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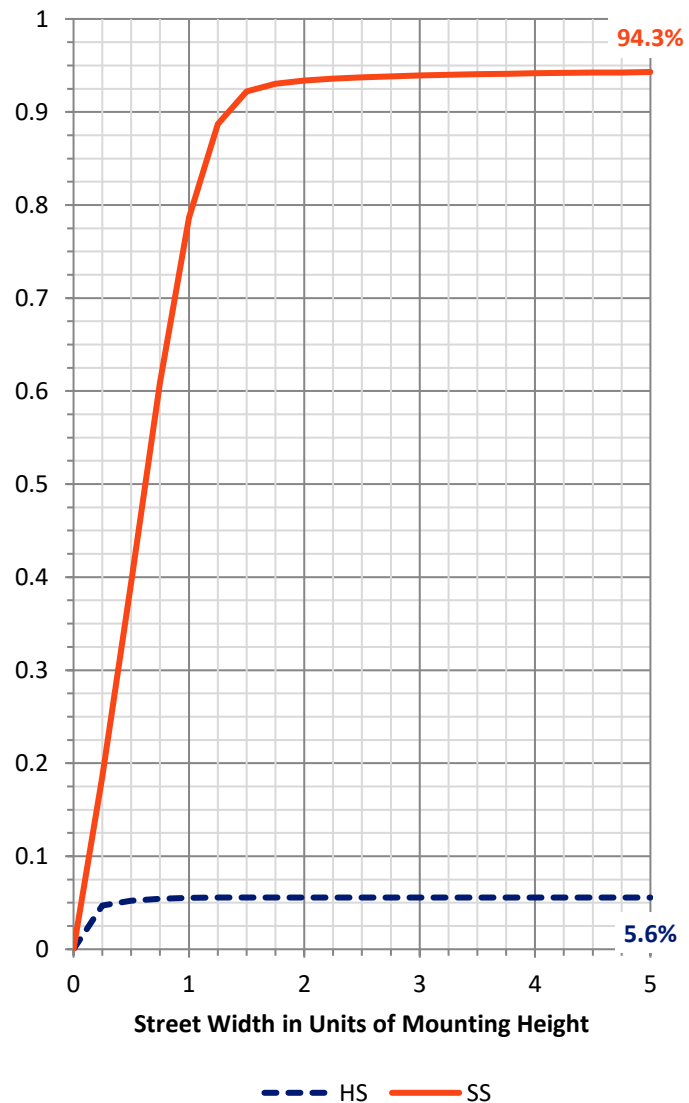
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	275.6	0.0	275.6
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	4658.5	0.0	4658.5
	% Fixture	94.4	0.0	94.4
Total	Lumens	4934.1	0.0	4934.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.3	2.4
10°-20°	278.5	5.6
20°-30°	474.0	9.6
30°-40°	815.1	16.5
40°-50°	1258.5	25.5
50°-60°	1265.2	25.6
60°-70°	648.8	13.1
70°-80°	70.3	1.4
80°-90°	7.4	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°	4934.1	100.0
0°-180°	4934.1	100.0



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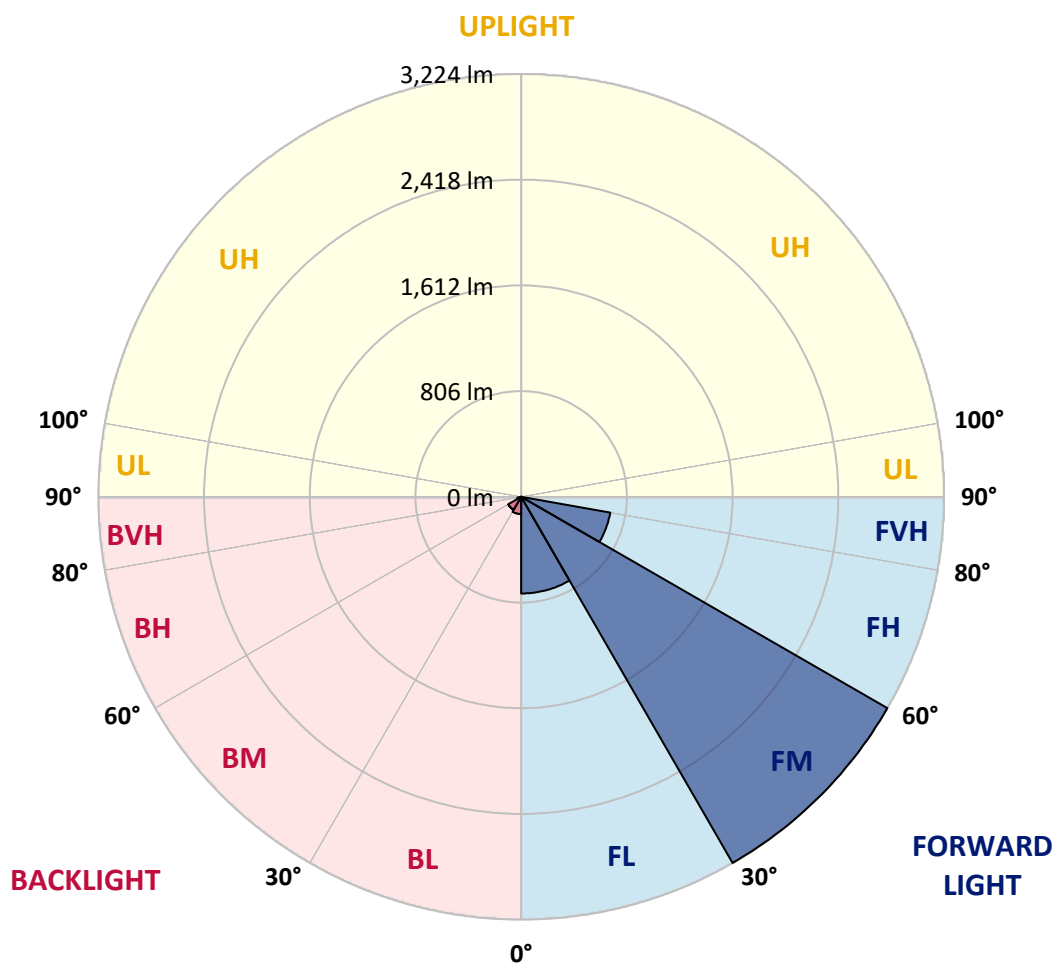
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	737.3	14.9			
FM	(30°-60°)	3224.4	65.3			
FH	(60°-80°)	689.6	14.0			G1/1800
FVH	(80°-90°)	7.2	0.1			G0/10
BL	(0°-30°)	131.5	2.7	B1/500		
BM	(30°-60°)	114.4	2.3	B0/220		
BH	(60°-80°)	29.5	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°	1388.9	1388.9	1388.9	1388.9	1388.9	1388.9	1388.9	1388.9	1388.9	1388.9	1388.9
2.5°	1643.5	1626.0	1620.8	1617.2	1601.2	1581.1	1553.7	1541.0	1514.8	1472.5	1420.7
5°	1793.9	1790.8	1779.2	1772.7	1755.6	1727.1	1683.3	1662.4	1620.8	1549.7	1456.8
7.5°	1728.2	1748.2	1764.3	1791.1	1824.8	1823.6	1787.1	1765.2	1718.5	1624.8	1497.0
10°	1474.0	1490.3	1516.5	1577.3	1701.3	1810.9	1853.9	1838.3	1800.9	1693.8	1535.7
12.5°	1424.2	1422.4	1427.2	1444.9	1509.8	1665.8	1842.6	1874.4	1866.8	1757.0	1572.4
15°	1450.6	1448.7	1448.0	1454.1	1469.9	1535.7	1757.3	1848.4	1907.0	1815.6	1603.6
17.5°	1524.9	1516.2	1511.5	1506.5	1501.9	1518.2	1654.8	1775.9	1913.1	1866.8	1629.5
20°	1652.2	1637.6	1620.5	1592.5	1566.2	1558.1	1611.7	1701.3	1891.3	1905.8	1646.3
22.5°	1812.1	1793.4	1763.7	1712.7	1659.4	1628.6	1633.0	1677.7	1858.6	1948.3	1654.1
25°	1991.7	1967.9	1928.2	1857.4	1779.2	1724.4	1695.8	1711.5	1843.7	1998.2	1663.3
27.5°	2184.2	2157.7	2105.9	2009.5	1920.7	1846.7	1788.5	1786.4	1869.1	2063.4	1677.7
30°	2374.9	2370.8	2303.3	2201.3	2083.7	1993.8	1909.9	1899.2	1939.9	2153.6	1706.6
32.5°	2629.5	2598.8	2516.1	2411.3	2275.7	2167.6	2068.3	2043.2	2048.5	2258.7	1751.2
35°	2950.2	2916.7	2800.4	2655.5	2503.9	2376.4	2266.6	2232.5	2219.7	2430.8	1826.3
37.5°	3157.6	3157.0	3084.0	2936.6	2773.8	2633.1	2513.8	2473.8	2448.0	2638.7	1942.7
40°	3163.2	3176.8	3186.4	3185.0	3069.1	2939.5	2833.5	2784.3	2724.1	2916.4	2093.3
42.5°	2993.3	3028.5	3113.4	3257.1	3325.9	3274.4	3185.0	3136.7	3046.9	3213.8	2276.8
45°	2763.9	2788.4	2936.6	3201.6	3465.0	3606.3	3538.2	3451.7	3333.5	3523.9	2441.3
47.5°	2661.1	2665.5	2761.3	3052.1	3475.5	3878.2	3919.5	3779.0	3593.7	3773.7	2570.0
50°	2353.9	2361.7	2494.0	2793.3	3352.7	4006.6	4302.8	4169.5	3877.7	3966.2	2616.9
52.5°	1774.2	1785.3	1953.0	2367.8	3014.9	3951.9	4577.1	4544.7	4188.7	4060.3	2619.5
55°	1046.8	1061.4	1221.5	1594.0	2371.4	3603.7	4597.5	4716.2	4434.2	4115.9	2615.4
57.5°	488.9	499.1	590.8	821.1	1474.9	2848.1	4290.6	4598.6	4569.6	4145.3	2644.2
60°	259.7	262.7	284.7	355.5	666.5	1805.9	3691.7	4152.6	4446.1	4186.0	2679.5
62.5°	198.7	199.5	198.3	206.7	280.1	801.6	2790.4	3413.8	3949.0	4155.4	2640.5
65°	172.1	173.5	165.4	163.4	179.6	285.9	1657.7	2433.4	3103.2	3742.9	2374.6
67.5°	154.3	154.9	145.0	136.6	139.6	154.6	654.0	1332.2	2054.0	2743.5	1721.2
70°	142.1	141.5	130.8	117.4	113.5	105.7	207.9	488.3	981.5	1391.3	800.5
72.5°	125.7	126.0	120.8	103.4	94.3	74.0	96.3	142.4	293.0	379.1	187.5
75°	111.6	110.1	103.7	92.6	77.8	48.6	47.7	63.5	90.2	89.7	40.4
77.5°	80.7	79.2	81.3	76.1	59.6	31.4	23.9	30.6	36.7	35.5	11.4
80°	59.1	58.2	52.5	63.2	52.7	21.6	14.9	16.3	18.9	16.1	3.5
82.5°	40.4	40.2	36.9	35.0	30.0	13.1	9.3	10.2	12.2	9.1	1.7
85°	6.4	7.3	26.8	21.3	17.8	5.8	6.4	7.0	8.2	4.9	0.5
87.5°	0.0	0.0	12.6	11.0	3.5	2.3	3.9	4.1	4.1	2.6	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°	1388.9	1388.9	1388.9	1388.9	1388.9	1388.9	1388.9	1388.9	1388.9	1388.9	1388.9
2.5°	1394.1	1365.0	1311.2	1255.6	1204.0	1142.7	1100.4	1068.7	1032.0	1022.0	1043.7
5°	1403.8	1348.8	1232.9	1106.8	988.2	856.9	756.5	677.0	605.1	580.6	602.8
7.5°	1419.0	1337.2	1148.1	940.5	734.3	529.4	389.1	296.7	237.8	220.3	229.8
10°	1434.0	1320.2	1050.0	743.7	461.8	257.8	167.7	134.0	121.4	118.8	120.3
12.5°	1446.6	1297.6	930.4	528.9	246.9	138.0	109.8	104.3	102.4	102.4	103.0
15°	1454.1	1263.1	788.6	336.3	142.1	104.3	95.8	94.1	94.1	94.3	94.9
17.5°	1453.2	1219.5	633.3	203.5	106.3	92.4	87.4	85.9	85.7	86.2	86.6
20°	1442.5	1162.4	477.6	134.3	92.6	84.1	79.2	76.6	76.3	76.9	77.5
22.5°	1422.1	1091.9	341.6	103.4	83.6	76.3	70.2	67.8	67.8	68.4	69.1
25°	1397.4	1005.7	233.5	87.6	75.4	67.8	62.1	60.0	60.5	62.1	62.3
27.5°	1366.5	908.8	158.7	75.2	65.5	59.4	55.0	53.5	55.0	57.1	57.7
30°	1340.1	807.8	113.3	64.9	55.6	51.3	48.6	48.6	50.7	54.4	55.2
32.5°	1319.7	709.8	87.4	57.4	48.3	44.6	43.0	44.6	47.7	51.6	52.5
35°	1317.0	629.3	74.0	51.3	43.0	39.4	38.7	41.3	44.6	47.4	48.1
37.5°	1337.2	554.7	66.6	46.3	38.5	35.0	34.3	37.5	40.8	44.2	45.2
40°	1375.2	496.1	61.4	41.6	34.6	30.8	29.7	32.0	36.4	41.1	42.2
42.5°	1424.7	447.9	55.6	36.9	30.8	25.6	24.1	26.8	31.4	36.4	37.8
45°	1471.9	406.2	49.1	31.6	25.9	19.7	19.2	22.7	25.0	30.0	31.1
47.5°	1497.8	369.6	43.7	25.9	20.1	16.1	16.1	16.9	19.2	25.0	26.2
50°	1489.1	340.2	37.8	19.2	13.9	12.2	12.2	11.9	15.4	20.1	21.0
52.5°	1471.6	323.2	32.6	14.9	9.7	8.7	7.8	8.7	10.8	12.8	13.1
55°	1469.0	320.3	27.5	11.9	6.7	5.8	4.4	4.4	4.4	4.1	3.5
57.5°	1489.4	324.9	23.1	9.7	4.9	3.9	2.3	0.0	0.0	0.0	0.0
60°	1510.4	330.0	19.7	6.7	3.5	2.0	0.3	0.0	0.0	0.0	0.0
62.5°	1475.4	318.8	16.6	4.1	2.6	0.9	0.0	0.0	0.0	0.0	0.0
65°	1296.1	271.4	13.1	2.9	1.7	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	921.9	181.7	8.7	1.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	420.7	76.1	5.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	90.0	23.6	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	18.3	17.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	5.8	27.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	3.5	19.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.5	2.9	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)