

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: P450600

Luminaire Tested: **GALN-SA1B-830-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450600
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-830-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4620 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 44
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: 24 FT

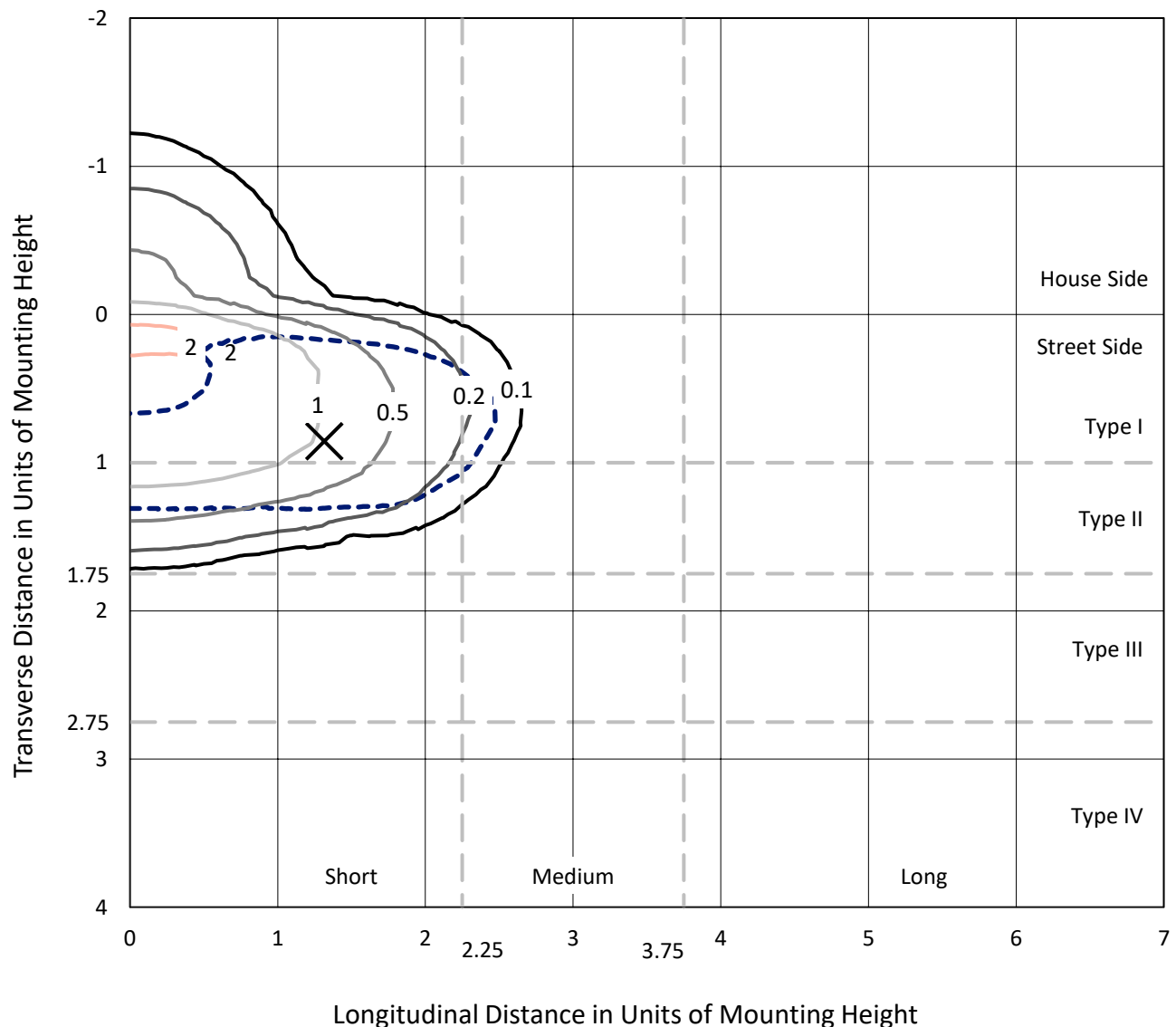


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

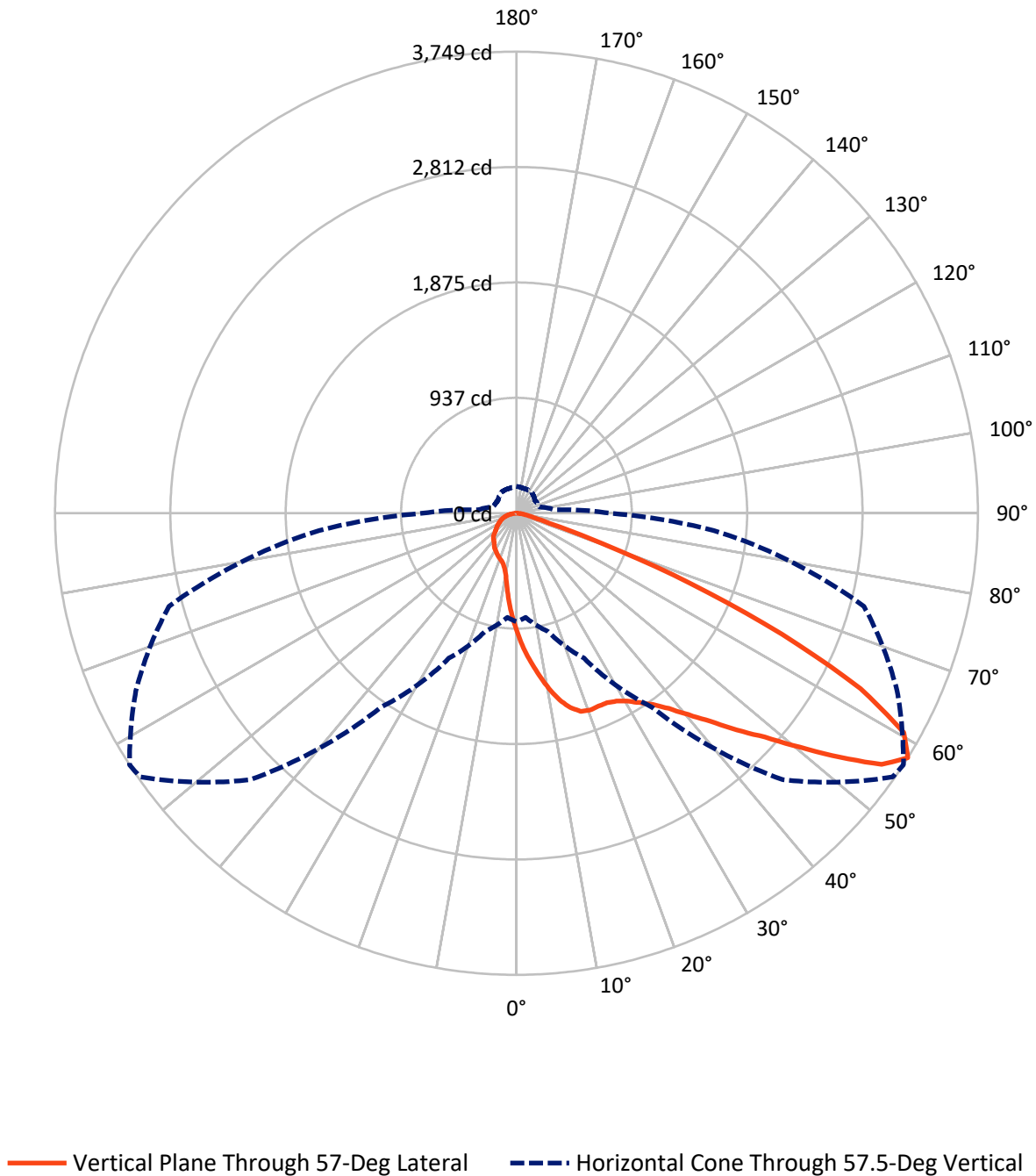


Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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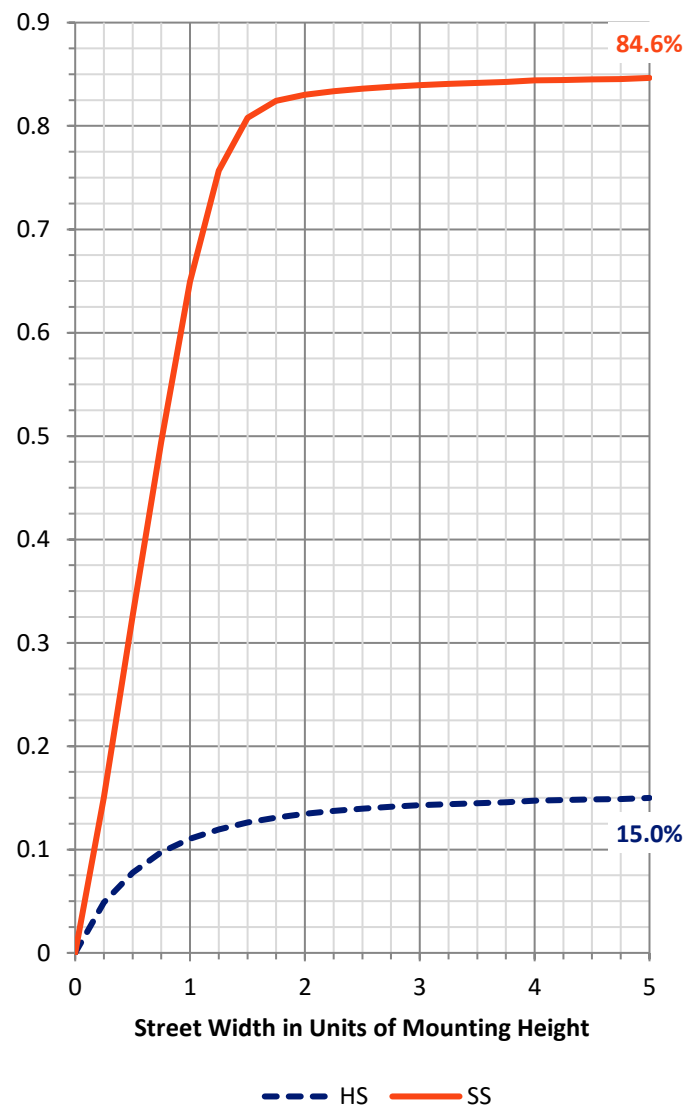
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	702.6	0.0	702.6
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	3917.4	0.0	3917.4
	% Fixture	84.8	0.0	84.8
Total	Lumens	4620.0	0.0	4620.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.3	2.0
10°-20°	274.9	6.0
20°-30°	456.5	9.9
30°-40°	687.6	14.9
40°-50°	1032.4	22.3
50°-60°	1157.2	25.0
60°-70°	677.2	14.7
70°-80°	200.3	4.3
80°-90°	40.5	0.9
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°	4620.0	100.0
0°-180°	4620.0	100.0

Coefficient of Utilization



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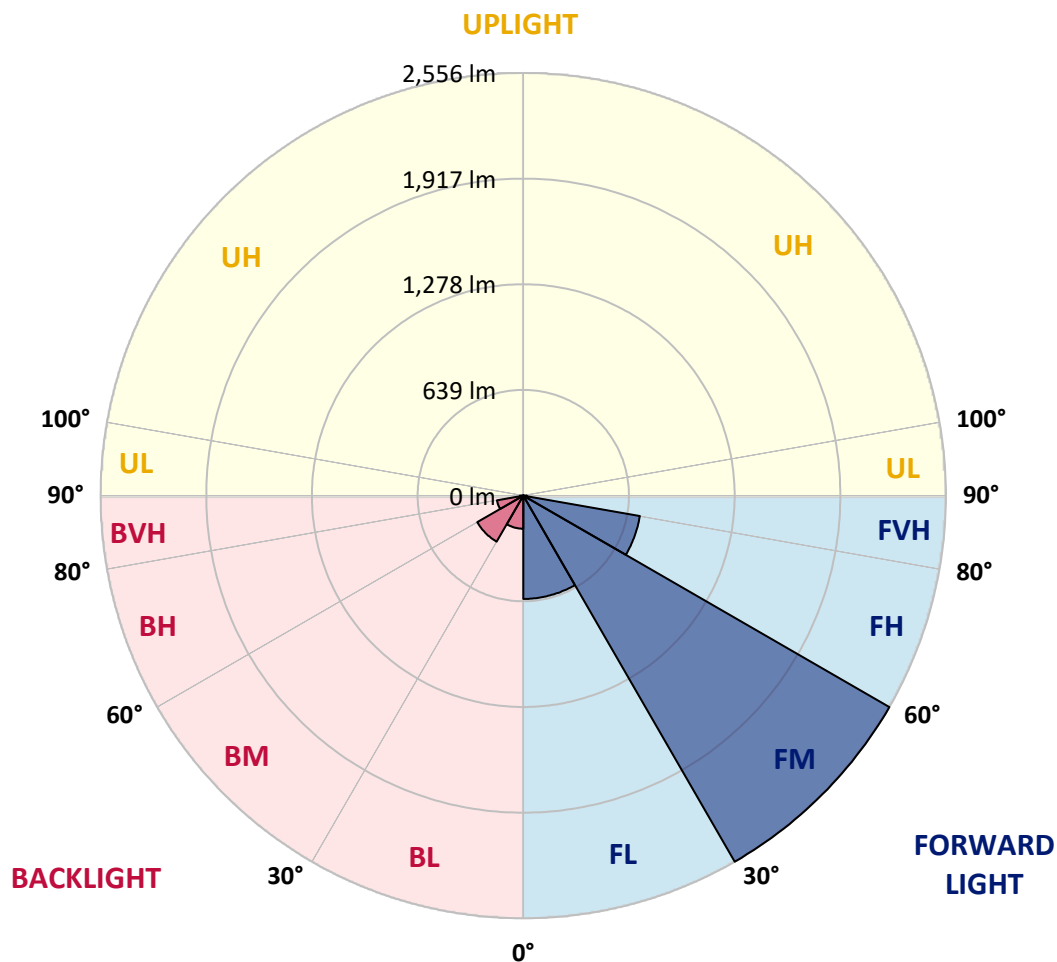
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	624.5	13.5			
FM	(30°-60°)	2556.0	55.3			
FH	(60°-80°)	715.9	15.5			G1/1800
FVH	(80°-90°)	21.0	0.5			G1/100
BL	(0°-30°)	200.2	4.3	B1/500		
BM	(30°-60°)	321.2	7.0	B1/1000		
BH	(60°-80°)	161.7	3.5	B1/500		G1/500
BVH	(80°-90°)	19.5	0.4			G1/100
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°	57°	65°	75°	85°
0°	970.6	970.6	970.6	970.6	970.6	970.6	970.6	970.6	970.6	970.6	970.6
2.5°	1206.1	1192.9	1182.5	1173.4	1161.5	1129.4	1097.3	1096.8	1071.3	1031.8	991.3
5°	1402.6	1384.9	1387.1	1358.8	1330.5	1283.9	1215.9	1212.4	1158.0	1084.2	1009.0
7.5°	1530.5	1530.8	1523.7	1507.5	1476.9	1424.0	1346.9	1329.5	1253.9	1141.8	1029.3
10°	1523.9	1530.8	1542.7	1556.6	1565.9	1539.9	1469.6	1448.3	1350.0	1211.6	1051.8
12.5°	1436.4	1447.1	1464.0	1498.9	1555.3	1598.3	1574.3	1557.1	1461.2	1281.2	1076.6
15°	1381.8	1388.1	1397.5	1421.0	1481.7	1584.6	1646.8	1637.7	1566.2	1359.8	1104.4
17.5°	1365.1	1371.4	1374.5	1388.9	1432.1	1537.6	1675.4	1691.6	1659.2	1432.1	1132.5
20°	1381.8	1384.9	1384.9	1393.4	1427.3	1510.0	1674.2	1706.8	1735.6	1518.9	1158.8
22.5°	1425.6	1426.8	1425.1	1428.1	1453.4	1517.6	1662.3	1702.7	1797.3	1592.5	1179.2
25°	1496.6	1498.7	1487.0	1479.9	1498.4	1551.0	1668.9	1706.0	1845.6	1662.8	1192.9
27.5°	1577.3	1579.8	1565.7	1549.2	1557.8	1592.2	1694.6	1728.0	1881.8	1732.1	1201.5
30°	1676.2	1677.2	1653.4	1633.7	1628.1	1653.7	1738.6	1769.8	1926.8	1813.8	1214.4
32.5°	1777.3	1784.9	1754.3	1726.5	1717.2	1725.0	1803.6	1833.7	1980.4	1901.5	1235.1
35°	1914.9	1916.2	1879.5	1845.6	1814.8	1824.9	1886.8	1908.6	2054.5	2002.9	1264.5
37.5°	2086.6	2098.3	2047.7	1984.5	1946.5	1931.9	1987.5	2011.3	2158.5	2127.3	1308.7
40°	2277.3	2281.6	2238.4	2198.9	2129.6	2087.1	2125.6	2151.4	2286.7	2275.8	1360.1
42.5°	2397.2	2406.5	2409.8	2405.8	2353.7	2282.4	2297.0	2309.2	2438.4	2415.1	1412.7
45°	2437.7	2451.6	2498.6	2598.2	2603.8	2533.5	2499.4	2511.0	2603.8	2555.8	1463.0
47.5°	2370.6	2394.4	2481.1	2685.5	2838.5	2843.8	2740.9	2715.3	2754.5	2672.3	1499.4
50°	2197.4	2202.5	2335.2	2631.1	2948.5	3140.4	3034.0	2986.4	2897.7	2758.6	1524.4
52.5°	1929.3	1935.1	2046.4	2378.5	2880.7	3347.8	3376.9	3291.9	3043.1	2825.6	1540.9
55°	1432.1	1465.8	1588.2	1909.1	2559.5	3328.3	3649.5	3601.2	3218.8	2878.7	1566.7
57.5°	880.6	849.7	994.9	1298.9	1925.0	3060.8	3733.7	3749.4	3412.3	2923.2	1609.9
60°	405.1	411.2	471.1	669.9	1173.4	2394.4	3516.8	3615.9	3519.3	2921.7	1620.8
62.5°	279.2	273.6	258.5	294.1	535.1	1514.3	2970.5	3138.4	3304.8	2830.9	1577.6
65°	249.6	244.0	214.7	204.8	245.8	660.1	2159.5	2371.4	2782.6	2601.8	1469.8
67.5°	233.2	225.6	195.2	176.0	175.5	262.8	1273.3	1528.5	2063.9	2199.7	1273.6
70°	216.0	209.9	179.8	158.6	149.5	165.1	559.7	732.6	1340.1	1585.1	992.1
72.5°	198.8	191.7	164.6	141.9	130.0	123.7	214.5	278.9	757.2	950.4	608.2
75°	173.7	170.2	147.2	128.5	115.6	99.9	136.1	155.3	362.1	436.5	305.2
77.5°	152.0	148.2	130.7	112.3	102.9	81.2	96.6	105.5	152.7	177.0	137.8
80°	111.3	115.1	110.3	99.1	91.8	63.7	65.0	72.3	90.8	100.4	84.2
82.5°	70.6	77.6	85.0	76.4	69.5	50.3	45.0	47.8	62.0	65.8	37.4
85°	29.6	30.1	49.3	46.5	39.7	29.8	27.1	28.6	33.1	34.6	17.4
87.5°	11.4	11.1	17.4	16.2	12.4	8.6	8.6	9.6	13.2	12.1	5.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	970.6	970.6	970.6	970.6	970.6	970.6	970.6	970.6	970.6	970.6	970.6
2.5°	973.9	955.9	920.3	876.0	843.7	807.2	775.1	752.1	743.5	739.5	731.9
5°	973.1	937.7	863.9	786.5	724.3	660.6	606.7	571.8	568.8	545.5	543.2
7.5°	973.4	919.3	801.7	687.9	593.0	527.8	483.3	471.6	457.7	454.2	456.0
10°	974.1	895.8	734.9	590.3	498.5	455.7	439.0	434.5	435.0	436.5	436.7
12.5°	975.2	873.0	665.6	516.2	445.3	427.6	425.9	429.9	434.2	437.5	438.3
15°	976.4	846.9	598.1	456.5	418.8	417.3	423.1	429.9	436.0	440.8	441.6
17.5°	974.9	816.6	541.4	419.8	404.1	411.5	421.1	429.7	435.2	439.8	440.3
20°	971.4	782.7	486.8	394.0	395.0	406.9	417.3	425.4	431.4	433.7	435.5
22.5°	957.7	742.2	439.3	374.0	384.1	400.6	413.0	417.8	411.0	406.1	407.4
25°	934.4	689.6	395.0	357.8	374.3	391.7	404.4	392.7	387.2	385.2	386.2
27.5°	905.4	632.0	361.6	340.9	361.6	381.9	378.3	376.3	373.8	370.5	371.2
30°	874.0	575.6	333.3	327.8	348.0	359.6	361.1	364.4	361.6	356.6	358.6
32.5°	844.9	522.5	311.8	316.6	338.4	336.6	348.0	351.8	338.9	321.9	322.7
35°	820.1	473.2	295.6	305.7	321.9	322.7	334.1	320.9	307.0	298.9	299.4
37.5°	801.4	434.7	285.0	296.4	300.9	310.6	304.5	297.7	295.9	290.3	290.6
40°	790.3	401.1	278.2	289.1	288.3	294.9	275.4	282.2	284.8	283.0	283.2
42.5°	779.2	377.3	271.1	278.9	278.7	265.8	261.5	267.3	273.9	274.6	274.1
45°	770.3	358.9	263.8	263.5	268.6	248.3	247.1	250.6	260.0	264.5	264.3
47.5°	760.5	343.4	252.6	245.6	247.1	237.5	235.4	237.0	248.3	255.7	257.7
50°	748.1	328.0	238.7	229.1	222.8	227.4	227.9	228.1	239.5	247.8	249.6
52.5°	738.2	316.4	222.8	215.7	208.1	218.2	222.0	222.5	229.4	236.2	237.5
55°	744.0	309.8	207.1	202.1	195.2	208.9	216.2	217.2	218.8	223.8	224.6
57.5°	761.5	311.3	194.5	187.9	182.8	197.8	210.2	210.9	209.9	216.0	217.0
60°	766.8	310.6	185.1	172.2	169.2	185.9	201.3	202.8	202.6	211.4	213.2
62.5°	744.5	300.9	175.8	159.1	157.0	173.7	188.9	195.0	196.2	208.9	211.2
65°	692.2	281.2	163.4	145.2	145.2	160.8	177.0	185.4	188.9	205.9	208.4
67.5°	623.1	258.0	150.7	133.3	132.8	148.4	164.4	173.0	178.5	201.6	203.1
70°	517.2	226.6	135.0	120.4	120.4	134.5	149.0	159.3	167.4	193.5	193.5
72.5°	354.3	188.4	116.1	105.7	106.0	119.1	133.8	145.4	155.0	177.3	177.8
75°	224.1	147.2	95.3	90.0	91.0	103.4	118.6	130.7	150.0	175.3	176.0
77.5°	119.1	103.4	75.9	74.6	75.9	87.2	104.2	120.9	150.5	152.0	149.5
80°	77.1	73.3	59.9	57.4	57.9	70.3	92.8	114.8	120.9	122.4	116.8
82.5°	42.0	46.5	42.5	40.0	40.0	54.9	79.2	91.3	86.7	72.1	68.8
85°	18.0	21.7	22.0	19.2	18.5	33.9	53.1	49.8	46.3	44.3	43.8
87.5°	5.1	7.1	7.1	5.3	4.0	9.4	10.6	3.0	0.0	0.3	0.5
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)