

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: P455240

Luminaire Tested: **GALN-SA6B-830-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455240
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-SA6B-830-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27076 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 243
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

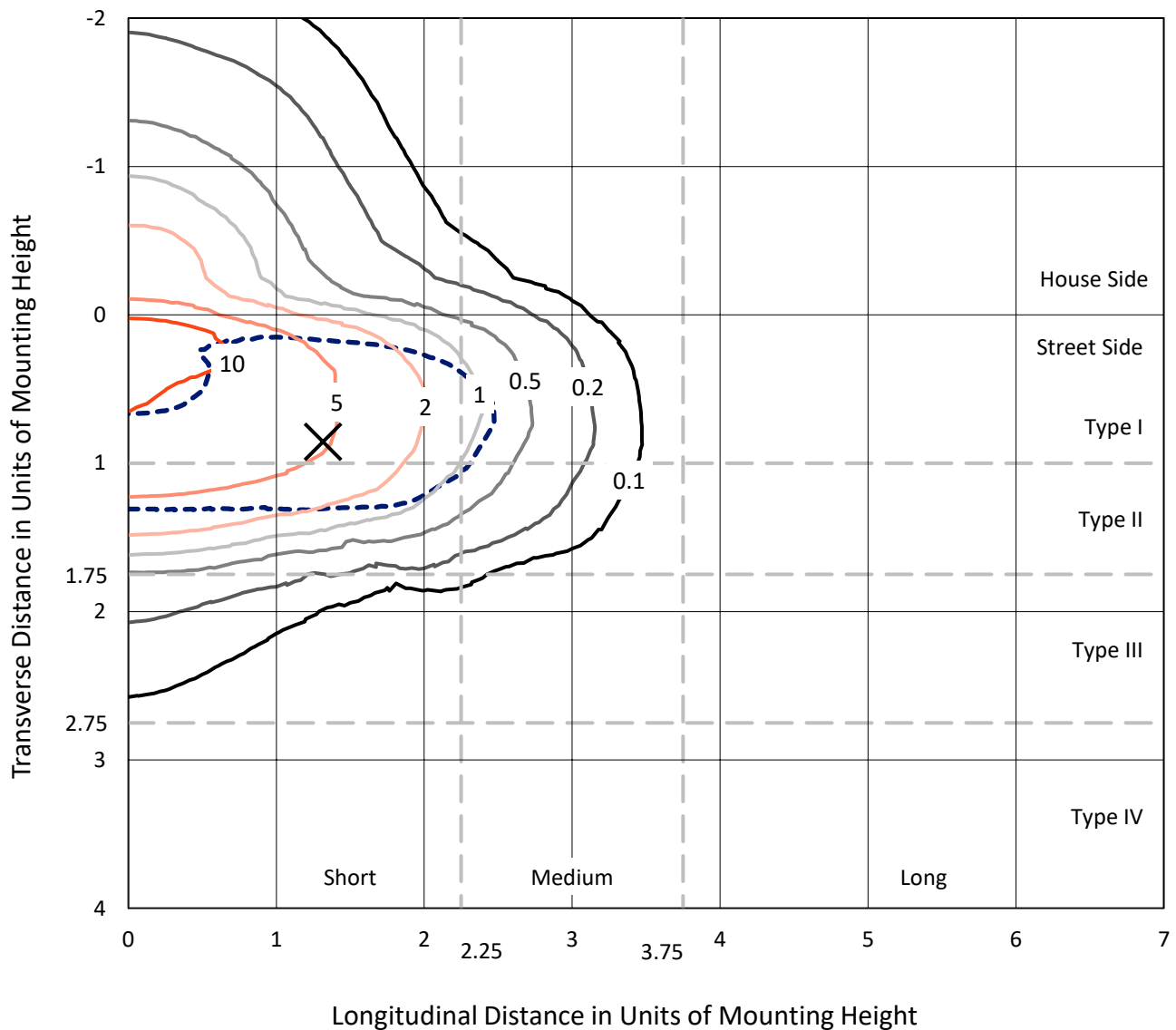


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

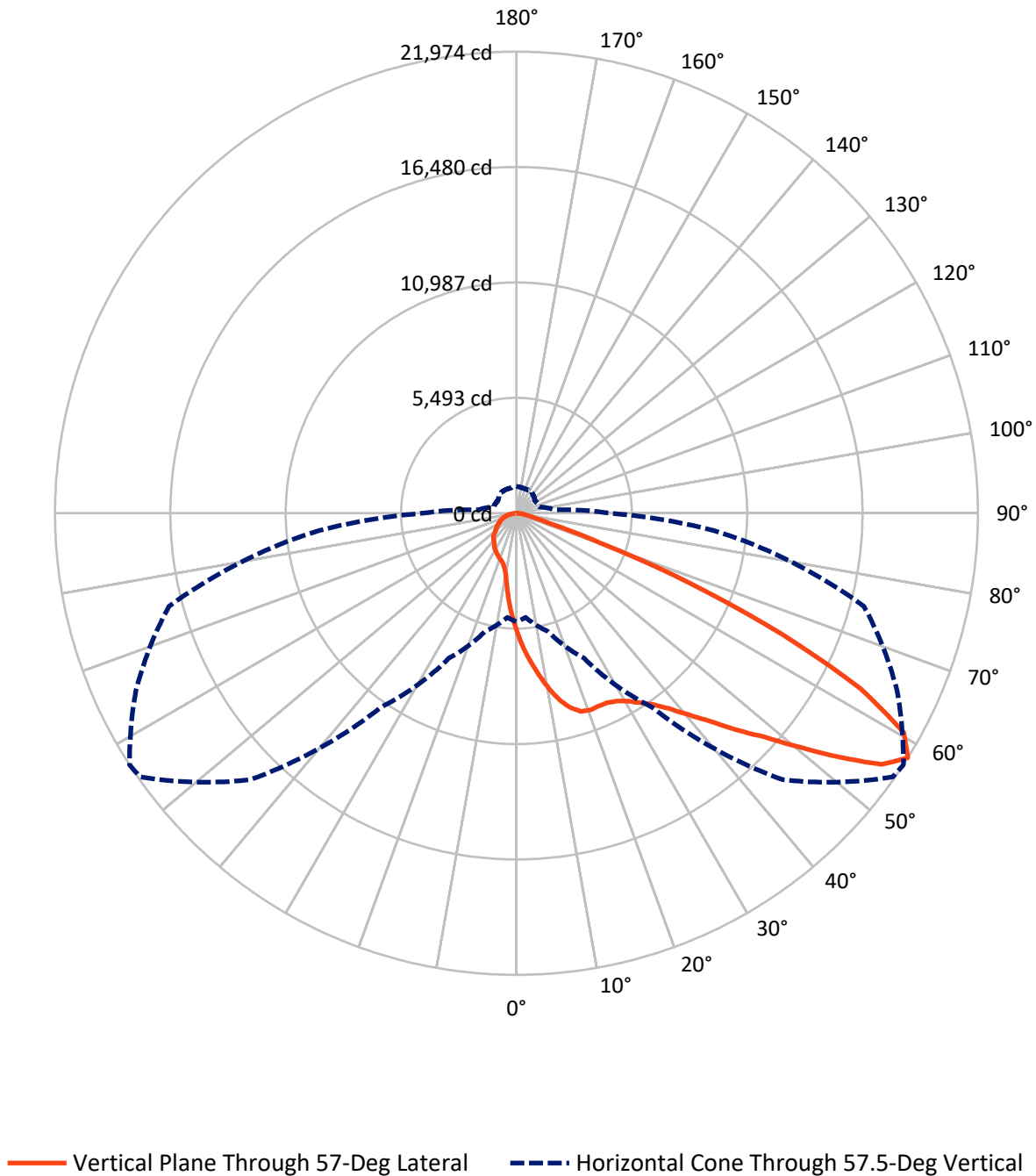


Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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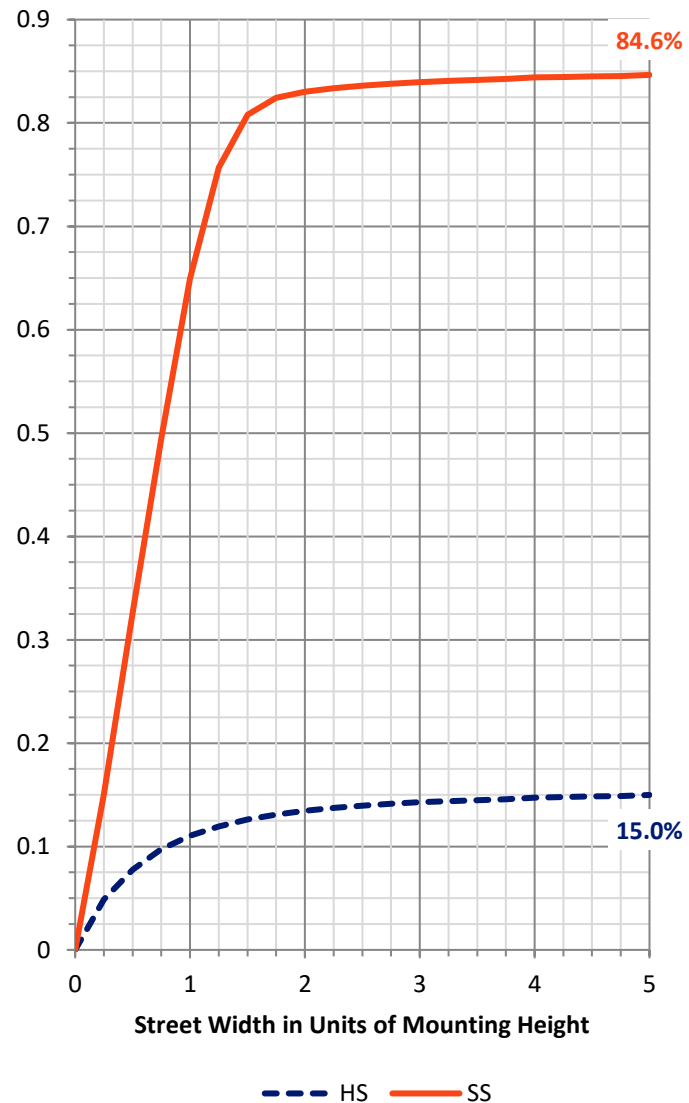
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4117.5	0.0	4117.5
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	22958.5	0.0	22958.5
	% Fixture	84.8	0.0	84.8
Total	Lumens	27076.0	0.0	27076.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	546.7	2.0
10°-20°	1611.2	6.0
20°-30°	2675.4	9.9
30°-40°	4029.9	14.9
40°-50°	6050.5	22.3
50°-60°	6781.9	25.0
60°-70°	3969.1	14.7
70°-80°	1174.0	4.3
80°-90°	237.3	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°	27076.0	100.0
0°-180°	27076.0	100.0

Coefficient of Utilization



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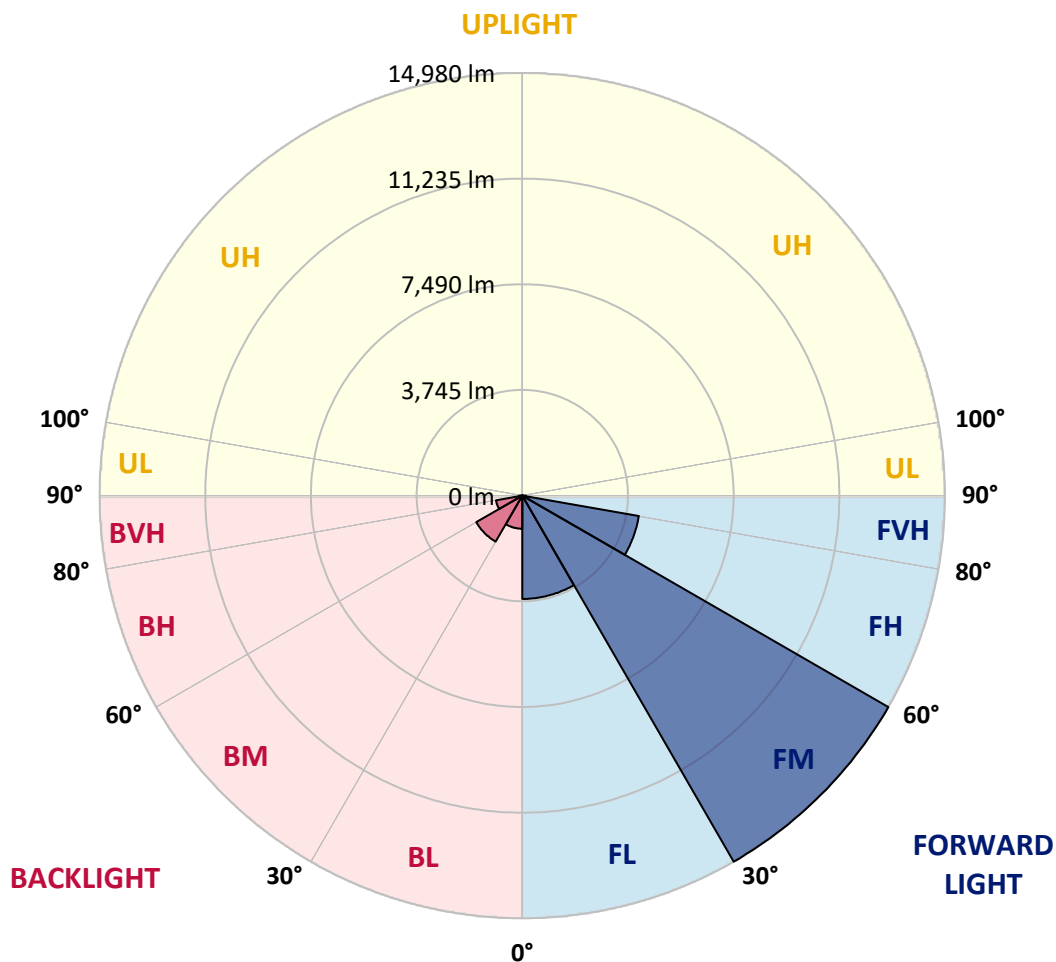
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3660.1	13.5			
FM	(30°-60°)	14979.6	55.3			
FH	(60°-80°)	4195.7	15.5			G2/5000
FVH	(80°-90°)	123.1	0.5			G2/225
BL	(0°-30°)	1173.2	4.3	B3/2500		
BM	(30°-60°)	1882.7	7.0	B2/2500		
BH	(60°-80°)	947.4	3.5	B2/1000		G2/1000
BVH	(80°-90°)	114.2	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	5688.4	5688.4	5688.4	5688.4	5688.4	5688.4	5688.4	5688.4	5688.4	5688.4	5688.4
2.5°	7068.2	6991.1	6930.4	6877.0	6807.4	6619.1	6430.9	6427.9	6278.2	6047.0	5809.9
5°	8219.8	8116.1	8129.4	7963.4	7797.4	7524.7	7126.0	7105.3	6786.6	6353.8	5913.6
7.5°	8969.8	8971.2	8929.7	8834.9	8655.6	8345.8	7893.7	7791.5	7348.3	6691.7	6032.2
10°	8931.2	8971.2	9040.9	9122.4	9177.3	9024.6	8612.6	8488.1	7911.5	7100.8	6164.1
12.5°	8418.4	8480.7	8580.0	8784.5	9115.0	9367.0	9226.2	9125.4	8563.7	7508.4	6309.4
15°	8098.3	8135.3	8190.2	8328.0	8683.7	9286.9	9651.5	9598.2	9178.7	7969.3	6472.4
17.5°	8000.5	8037.5	8055.3	8139.8	8393.2	9011.3	9819.0	9913.9	9724.2	8393.2	6636.9
20°	8098.3	8116.1	8116.1	8166.5	8365.1	8849.7	9811.6	10002.8	10171.8	8901.6	6791.1
22.5°	8354.7	8362.1	8351.7	8369.5	8517.7	8894.2	9741.9	9979.1	10533.4	9332.9	6911.1
25°	8771.2	8783.0	8714.8	8673.3	8781.5	9089.8	9780.5	9998.3	10816.5	9744.9	6991.1
27.5°	9244.0	9258.8	9175.8	9079.4	9129.8	9331.4	9931.7	10127.3	11028.4	10151.0	7041.5
30°	9823.5	9829.4	9690.1	9574.5	9541.9	9691.6	10189.5	10371.8	11292.2	10629.7	7117.1
32.5°	10416.3	10460.8	10281.4	10118.4	10063.6	10109.5	10570.4	10746.8	11606.4	11144.0	7238.7
35°	11222.6	11230.0	11015.1	10816.5	10635.7	10694.9	11058.1	11185.5	12040.7	11738.4	7410.6
37.5°	12228.9	12297.1	12000.7	11630.2	11407.8	11321.9	11647.9	11787.3	12649.9	12467.6	7669.9
40°	13346.4	13371.6	13118.2	12887.0	12480.9	12231.9	12457.2	12608.4	13401.3	13337.6	7970.8
42.5°	14049.0	14103.8	14123.1	14099.4	13794.0	13376.1	13462.1	13533.2	14290.6	14154.2	8279.1
45°	14286.1	14367.6	14643.3	15227.3	15259.9	14847.8	14647.7	14715.9	15259.9	14978.3	8574.0
47.5°	13893.3	14032.7	14541.0	15738.6	16635.3	16666.4	16063.2	15913.5	16143.2	15661.5	8787.5
50°	12878.1	12907.7	13685.9	15419.9	17280.0	18404.9	17780.9	17502.3	16982.1	16166.9	8934.2
52.5°	11307.1	11341.1	11993.3	13939.3	16882.8	19620.2	19790.7	19292.7	17834.3	16559.7	9030.5
55°	8393.2	8590.3	9307.7	11188.5	15000.5	19506.1	21388.4	21105.3	18864.4	16870.9	9181.7
57.5°	5160.7	4979.9	5830.6	7612.1	11281.9	17938.0	21881.9	21973.8	19998.2	17131.8	9435.1
60°	2374.3	2409.9	2761.2	3926.1	6877.0	14032.7	20610.3	21191.3	20625.1	17122.9	9498.9
62.5°	1636.3	1603.6	1514.7	1723.7	3136.2	8874.9	17408.9	18393.0	19368.3	16590.8	9245.4
65°	1462.8	1430.2	1258.3	1200.5	1440.6	3868.3	12655.8	13897.8	16307.7	15248.0	8614.1
67.5°	1366.5	1322.0	1144.2	1031.6	1028.6	1539.9	7462.4	8957.9	12095.5	12891.4	7463.9
70°	1265.7	1230.2	1053.8	929.3	875.9	967.8	3279.9	4293.7	7853.7	9289.9	5814.3
72.5°	1164.9	1123.4	964.9	831.5	761.8	724.8	1256.8	1634.8	4437.5	5569.8	3564.5
75°	1018.2	997.5	862.6	752.9	677.3	585.4	797.4	910.0	2122.4	2558.1	1788.9
77.5°	890.8	868.5	766.3	658.1	603.2	475.8	566.2	618.0	895.2	1037.5	807.8
80°	652.1	674.4	646.2	581.0	538.0	373.5	380.9	423.9	532.1	588.4	493.5
82.5°	413.5	455.0	498.0	447.6	407.6	294.9	263.8	280.1	363.1	385.3	219.4
85°	173.4	176.4	289.0	272.7	232.7	174.9	158.6	167.5	194.2	203.0	102.3
87.5°	66.7	65.2	102.3	94.9	72.6	50.4	50.4	56.3	77.1	71.1	32.6
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°	5688.4	5688.4	5688.4	5688.4	5688.4	5688.4	5688.4	5688.4	5688.4	5688.4	5688.4
2.5°	5707.6	5602.4	5393.4	5134.0	4944.3	4730.9	4542.7	4407.8	4357.4	4333.7	4289.2
5°	5703.2	5495.7	5062.9	4609.4	4244.8	3871.3	3555.6	3351.1	3333.3	3196.9	3183.6
7.5°	5704.7	5387.5	4698.3	4031.4	3475.6	3093.2	2832.3	2764.1	2682.6	2661.9	2672.3
10°	5709.1	5249.7	4307.0	3459.3	2921.2	2670.8	2573.0	2546.3	2549.2	2558.1	2559.6
12.5°	5715.0	5116.3	3900.9	3025.0	2610.0	2506.3	2495.9	2519.6	2544.8	2564.1	2568.5
15°	5722.4	4963.6	3505.2	2675.2	2454.4	2445.5	2479.6	2519.6	2555.2	2583.3	2587.8
17.5°	5713.6	4785.7	3173.2	2460.3	2368.4	2411.4	2467.7	2518.1	2550.7	2577.4	2580.4
20°	5692.8	4587.1	2853.1	2309.1	2315.1	2384.7	2445.5	2492.9	2528.5	2541.8	2552.2
22.5°	5612.8	4350.0	2574.4	2192.0	2251.3	2347.7	2420.3	2448.5	2408.4	2380.3	2387.7
25°	5476.4	4041.7	2315.1	2097.2	2193.5	2295.8	2369.9	2301.7	2269.1	2257.3	2263.2
27.5°	5306.0	3703.8	2119.4	1997.9	2119.4	2238.0	2217.2	2205.4	2190.6	2171.3	2175.7
30°	5122.2	3373.3	1953.4	1920.8	2039.4	2107.6	2116.5	2135.7	2119.4	2089.8	2101.6
32.5°	4951.7	3062.0	1827.4	1855.6	1983.1	1972.7	2039.4	2061.6	1986.0	1886.7	1891.2
35°	4806.5	2773.0	1732.6	1791.9	1886.7	1891.2	1957.9	1880.8	1799.3	1751.9	1754.8
37.5°	4696.8	2547.8	1670.3	1737.0	1763.7	1820.0	1784.5	1744.4	1734.1	1701.5	1703.0
40°	4631.6	2350.6	1630.3	1694.1	1689.6	1728.1	1614.0	1654.0	1668.9	1658.5	1660.0
42.5°	4566.4	2211.3	1588.8	1634.8	1633.3	1557.7	1532.5	1566.6	1605.1	1609.6	1606.6
45°	4514.5	2103.1	1545.8	1544.4	1574.0	1455.4	1448.0	1468.8	1523.6	1550.3	1548.8
47.5°	4456.7	2012.7	1480.6	1439.1	1448.0	1391.7	1379.8	1388.7	1455.4	1498.4	1510.3
50°	4384.1	1922.3	1399.1	1342.8	1305.7	1332.4	1335.4	1336.9	1403.6	1452.5	1462.8
52.5°	4326.3	1854.1	1305.7	1264.2	1219.8	1279.1	1301.3	1304.3	1344.3	1384.3	1391.7
55°	4360.4	1815.6	1213.9	1184.2	1144.2	1224.2	1267.2	1273.1	1282.0	1311.7	1316.1
57.5°	4462.6	1824.5	1139.7	1101.2	1071.6	1159.0	1231.6	1236.1	1230.2	1265.7	1271.7
60°	4493.8	1820.0	1084.9	1009.3	991.5	1089.4	1179.8	1188.7	1187.2	1239.0	1249.4
62.5°	4363.3	1763.7	1030.1	932.3	920.4	1018.2	1107.1	1142.7	1150.1	1224.2	1237.6
65°	4056.5	1648.1	957.4	850.7	850.7	942.6	1037.5	1086.4	1107.1	1206.4	1221.3
67.5°	3651.9	1511.8	883.3	781.1	778.1	870.0	963.4	1013.8	1046.4	1181.2	1190.1
70°	3030.9	1328.0	791.4	705.5	705.5	788.5	873.0	933.7	981.2	1133.8	1133.8
72.5°	2076.4	1104.2	680.3	619.5	621.0	698.1	784.0	852.2	908.5	1039.0	1041.9
75°	1313.2	862.6	558.8	527.6	533.6	606.2	695.1	766.3	878.9	1027.1	1031.6
77.5°	698.1	606.2	444.6	437.2	444.6	511.3	610.6	708.5	881.9	890.8	875.9
80°	452.0	429.8	351.3	336.4	339.4	412.0	543.9	672.9	708.5	717.3	684.7
82.5°	246.0	272.7	249.0	234.2	234.2	321.6	463.9	535.0	508.4	422.4	403.1
85°	105.2	127.5	128.9	112.6	108.2	198.6	311.2	292.0	271.2	259.4	256.4
87.5°	29.6	41.5	41.5	31.1	23.7	54.8	62.2	17.8	0.0	1.5	3.0
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)