

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: P450599

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450599
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
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-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3749 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

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

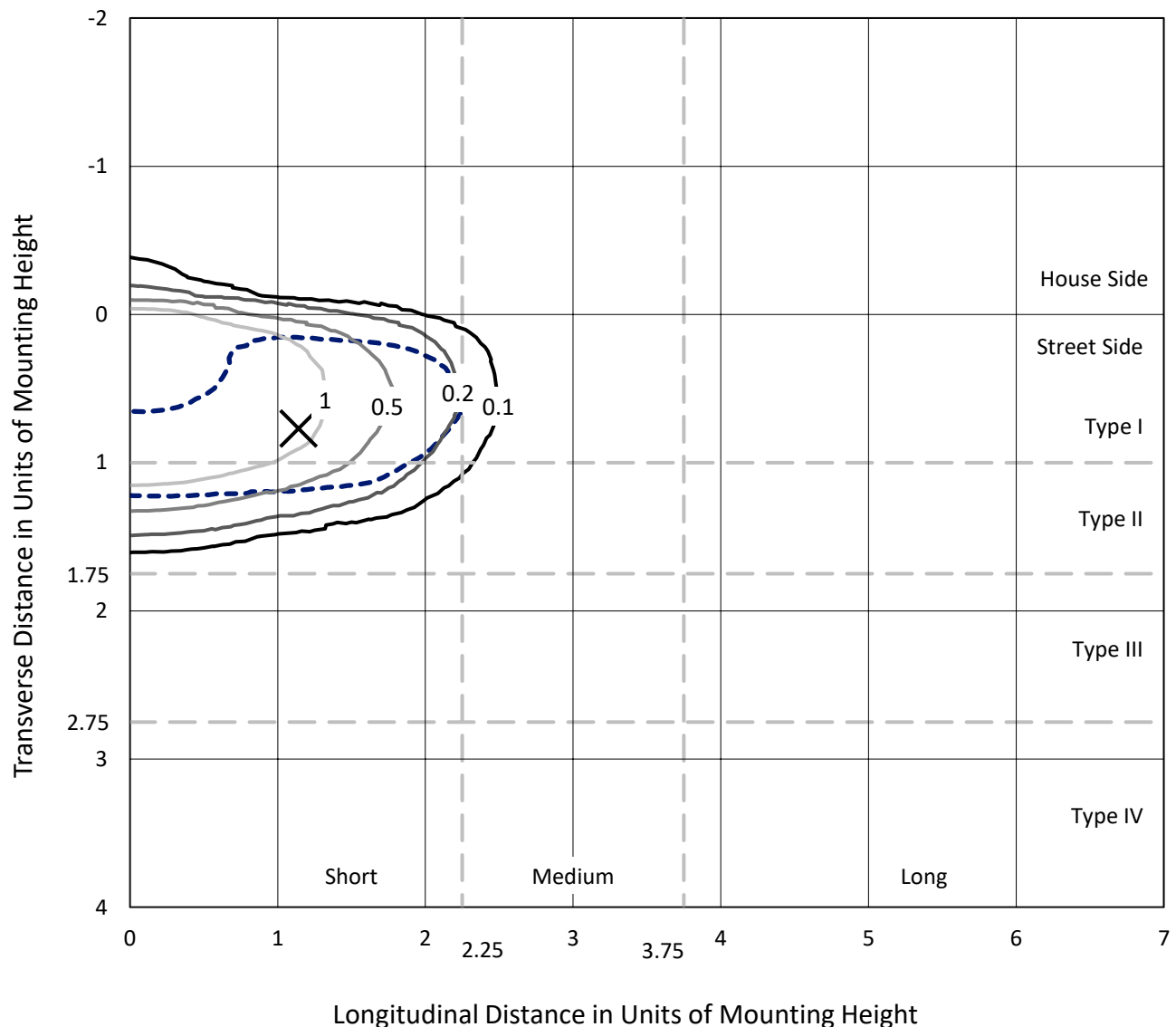


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

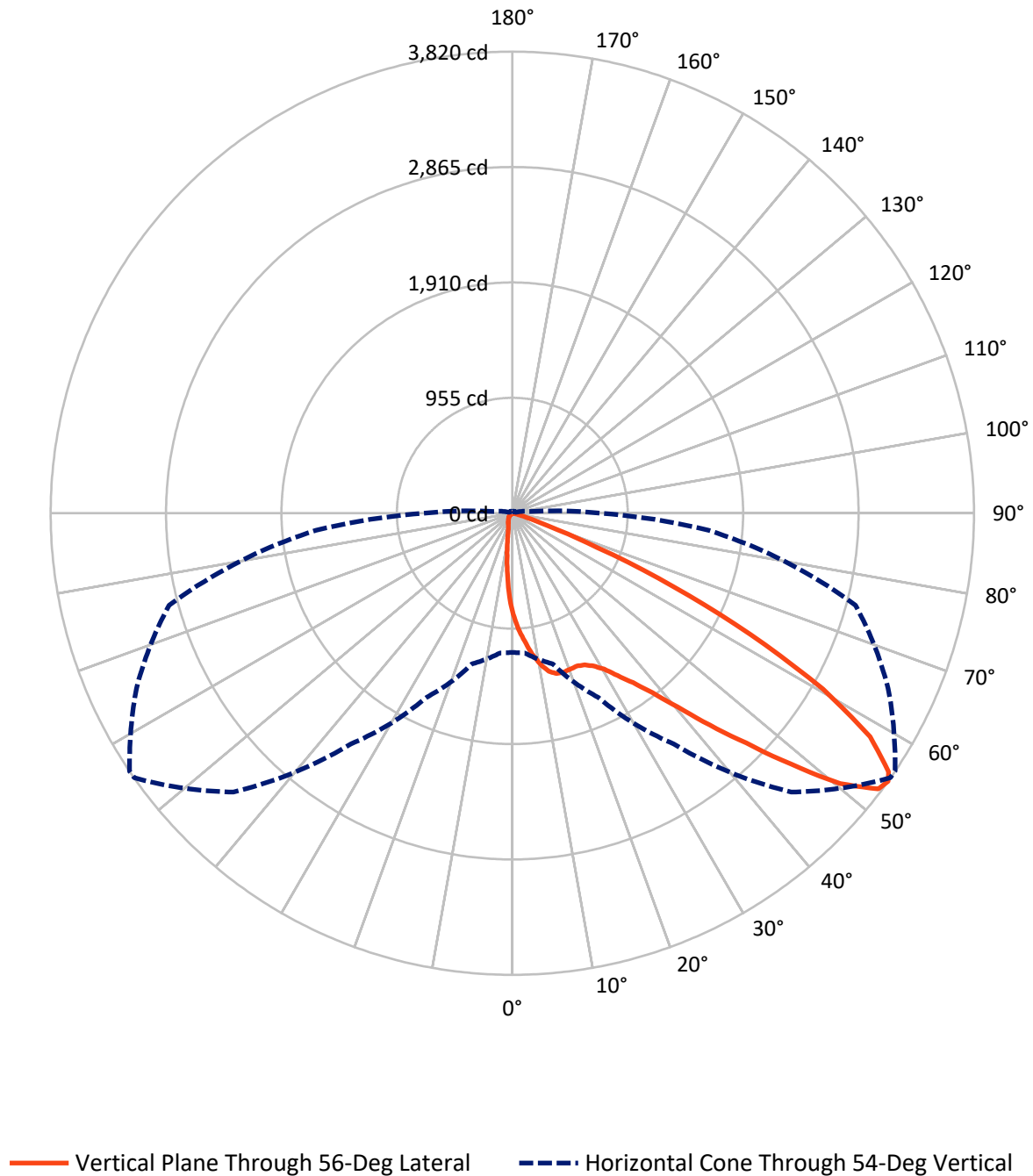


Based on 25 foot mounting height. Maximum calculated value = 2 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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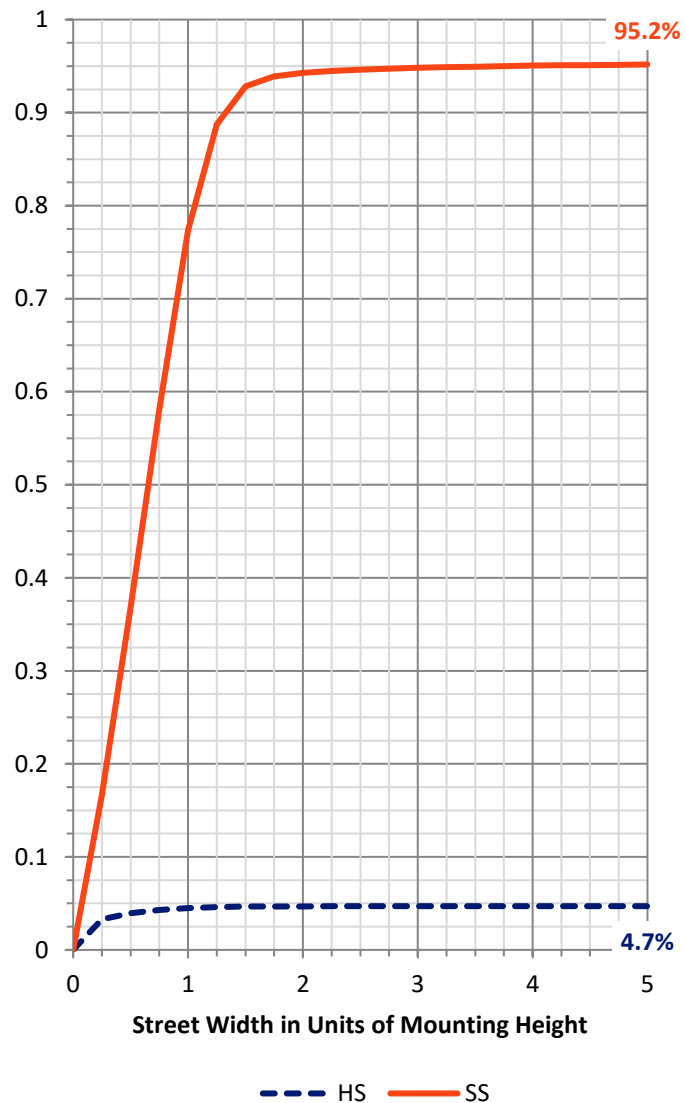
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	177.3	0.0	177.3
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	3571.7	0.0	3571.7
	% Fixture	95.3	0.0	95.3
Total	Lumens	3749.0	0.0	3749.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.6	2.0
10°-20°	199.0	5.3
20°-30°	344.6	9.2
30°-40°	594.8	15.9
40°-50°	1012.4	27.0
50°-60°	1001.9	26.7
60°-70°	457.3	12.2
70°-80°	58.7	1.6
80°-90°	6.6	0.2
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°	3749.0	100.0
0°-180°	3749.0	100.0

Coefficient of Utilization



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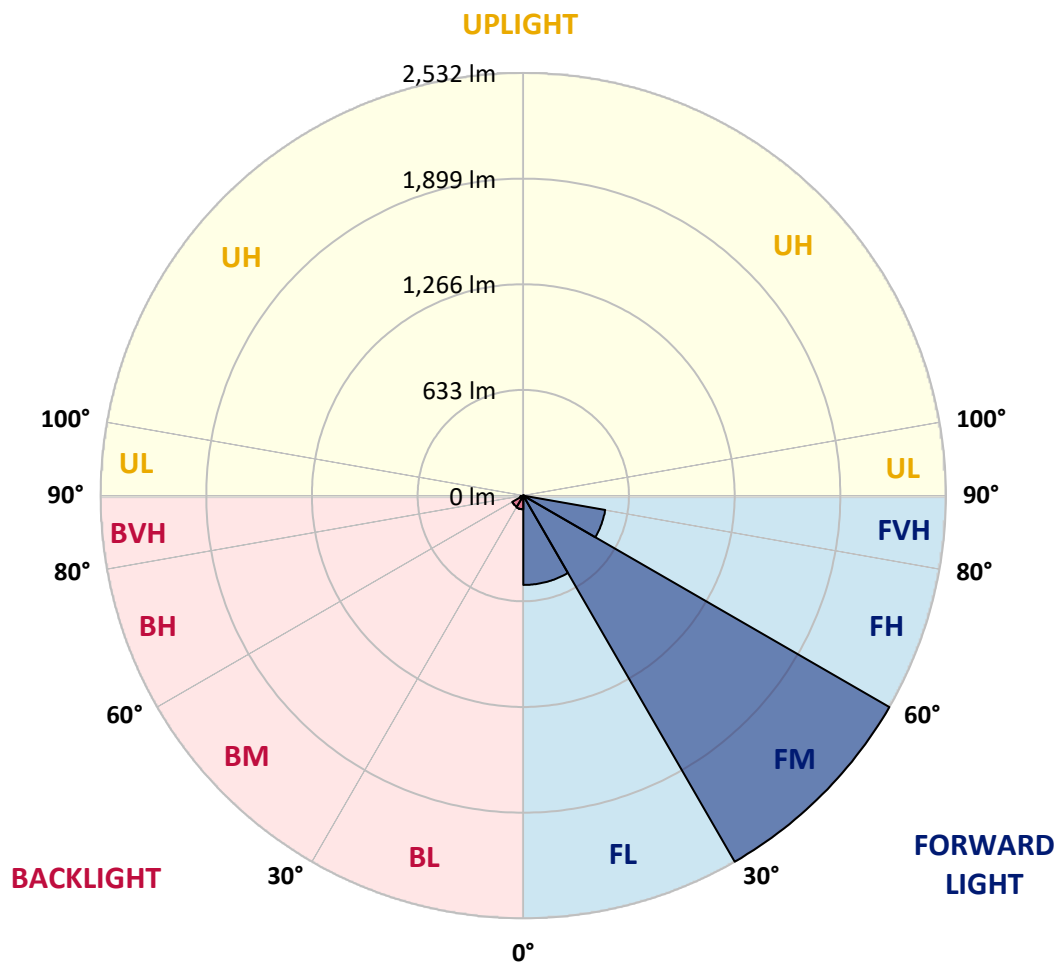
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	535.2	14.3			
FM	(30°-60°)	2532.4	67.5			
FH	(60°-80°)	498.3	13.3			G0/660
FVH	(80°-90°)	5.9	0.2			G0/10
BL	(0°-30°)	82.0	2.2	B0/110		
BM	(30°-60°)	76.8	2.0	B0/220		
BH	(60°-80°)	17.8	0.5	B0/110		G0/110
BVH	(80°-90°)	0.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	832.9	832.9	832.9	832.9	832.9	832.9	832.9	832.9	832.9	832.9	832.9
2.5°	1058.5	1051.2	1041.1	1033.2	1014.8	988.2	960.1	960.1	933.1	895.4	856.9
5°	1220.9	1216.1	1206.3	1186.0	1165.3	1128.1	1071.7	1061.8	1013.5	945.2	873.4
7.5°	1286.9	1289.2	1289.7	1284.4	1274.5	1237.9	1182.0	1175.1	1098.0	1006.4	894.9
10°	1223.7	1234.8	1245.7	1267.7	1298.8	1307.7	1276.1	1269.0	1193.1	1068.4	918.2
12.5°	1129.6	1135.7	1141.8	1176.4	1238.9	1310.5	1343.6	1343.3	1279.1	1130.1	947.8
15°	1085.9	1091.2	1091.7	1107.1	1161.2	1265.4	1372.4	1376.2	1363.1	1206.3	979.6
17.5°	1095.0	1099.3	1095.7	1099.5	1127.8	1215.9	1369.1	1381.8	1431.1	1279.4	1008.5
20°	1154.4	1162.7	1149.1	1138.5	1147.1	1202.7	1358.0	1375.7	1479.2	1350.7	1034.8
22.5°	1261.1	1265.7	1248.5	1219.4	1204.2	1230.3	1355.0	1372.4	1520.1	1409.1	1049.9
25°	1379.8	1378.3	1359.3	1326.7	1294.8	1285.9	1375.0	1390.6	1554.0	1461.7	1054.5
27.5°	1498.4	1502.9	1471.1	1430.6	1392.4	1369.4	1419.7	1431.4	1592.2	1521.7	1060.1
30°	1636.2	1628.9	1597.5	1551.3	1507.5	1475.4	1491.8	1495.1	1644.8	1601.1	1074.7
32.5°	1815.6	1795.3	1760.2	1679.2	1647.9	1593.5	1597.5	1601.6	1708.8	1679.8	1092.4
35°	2058.9	2057.9	1989.1	1880.1	1803.7	1736.2	1718.5	1721.7	1805.7	1796.6	1131.6
37.5°	2351.8	2355.9	2277.4	2167.7	2027.0	1919.8	1883.4	1883.9	1952.9	1958.0	1191.3
40°	2590.3	2600.9	2554.2	2480.0	2341.2	2173.5	2112.3	2106.7	2159.8	2153.5	1276.6
42.5°	2693.0	2702.9	2720.3	2746.1	2669.7	2531.4	2387.0	2394.6	2410.7	2366.5	1372.2
45°	2642.7	2658.4	2726.9	2886.3	2958.1	2911.6	2739.3	2712.7	2644.2	2597.9	1468.3
47.5°	2433.0	2471.2	2585.8	2851.1	3102.5	3259.8	3136.9	3101.8	2877.9	2766.9	1529.5
50°	2088.2	2090.5	2250.1	2589.3	3027.7	3479.6	3542.9	3516.6	3095.7	2861.7	1560.4
52.5°	1513.8	1563.7	1709.9	2102.7	2703.4	3446.3	3801.6	3790.8	3320.3	2910.3	1604.9
54°	1150.9	1160.5	1290.5	1680.3	2330.8	3262.9	3817.6	3820.1	3431.8	2939.6	1631.2
55°	943.5	920.4	1057.0	1431.4	2076.6	3100.7	3765.5	3777.6	3481.9	2954.8	1650.7
57.5°	447.2	447.4	551.9	755.0	1300.6	2407.7	3447.0	3490.0	3487.5	2980.9	1710.6
60°	226.4	227.9	250.9	348.5	642.5	1600.6	2850.1	2952.5	3219.1	2984.7	1730.3
62.5°	158.3	156.6	152.8	167.7	270.4	813.4	2121.9	2210.9	2735.0	2840.2	1667.6
65°	135.6	131.8	121.2	118.9	136.6	324.0	1321.6	1466.8	2088.2	2459.3	1489.0
67.5°	115.8	114.3	104.7	98.9	96.6	141.1	681.9	758.3	1427.3	1767.8	1127.8
70°	98.4	97.6	91.8	84.5	78.2	84.5	252.9	313.4	795.5	951.8	532.2
72.5°	79.9	80.7	81.7	72.3	65.8	59.9	108.0	125.7	332.9	340.2	186.2
75°	70.1	69.3	69.3	63.0	54.9	44.5	59.4	64.0	101.9	94.6	43.3
77.5°	49.3	47.6	55.6	51.9	45.8	31.6	33.9	35.9	42.2	36.2	20.2
80°	34.1	34.1	35.7	46.5	41.2	23.0	20.7	22.3	25.0	21.5	11.6
82.5°	19.2	19.7	23.3	24.8	24.0	15.4	13.7	13.9	16.7	14.7	7.3
85°	2.3	3.8	13.4	13.2	9.9	6.8	7.6	7.8	10.4	9.1	4.3
87.5°	0.3	0.5	2.8	3.5	2.5	2.8	2.8	2.8	3.5	4.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	832.9	832.9	832.9	832.9	832.9	832.9	832.9	832.9	832.9	832.9	832.9
2.5°	836.2	817.0	771.2	718.1	684.2	629.1	582.5	548.9	540.5	524.3	529.1
5°	835.2	795.2	701.9	603.3	498.0	419.6	361.2	315.2	294.9	281.5	272.2
7.5°	835.7	773.2	623.5	466.4	340.7	263.8	209.7	181.6	162.9	155.1	156.1
10°	837.2	748.4	532.4	345.5	229.9	170.5	137.3	123.9	117.6	116.6	116.4
12.5°	840.8	721.4	445.4	256.5	160.9	123.9	111.3	106.7	104.7	104.7	104.0
15°	844.6	691.5	373.1	190.7	123.9	106.5	100.7	98.4	97.1	97.1	96.9
17.5°	844.6	657.1	305.5	148.0	106.7	97.9	93.3	90.3	89.3	89.3	89.0
20°	839.2	617.2	245.6	119.1	96.9	89.8	85.2	82.0	80.7	80.2	79.9
22.5°	820.8	563.8	195.5	102.4	88.8	82.7	76.9	73.1	72.1	71.6	71.8
25°	787.9	503.6	154.8	90.0	81.4	74.1	69.1	66.3	65.3	65.3	65.5
27.5°	754.0	440.6	122.7	80.7	72.6	66.0	62.0	60.2	59.9	60.7	61.0
30°	722.6	377.4	99.4	73.1	64.8	59.2	56.4	55.9	55.9	56.2	56.4
32.5°	687.7	322.0	83.2	66.5	58.4	53.6	52.1	52.1	52.6	52.6	53.1
35°	665.7	274.4	73.1	60.2	53.6	49.6	48.6	48.8	49.6	50.6	51.1
37.5°	653.8	236.5	66.5	55.1	49.1	46.3	45.3	45.8	47.6	49.3	49.6
40°	654.9	207.9	61.2	50.8	45.5	42.5	41.7	43.3	45.0	46.8	47.0
42.5°	666.0	186.7	56.2	45.8	42.5	38.2	37.9	39.5	40.2	42.0	42.2
45°	679.1	171.2	50.8	40.5	36.9	33.1	33.4	34.7	35.7	38.4	39.0
47.5°	683.2	160.6	44.8	34.4	30.4	29.1	29.3	30.1	32.1	34.7	34.9
50°	687.7	154.0	39.0	29.1	25.8	25.5	25.8	26.3	27.6	28.6	28.3
52.5°	707.2	153.8	34.1	25.3	22.0	22.5	22.8	22.5	21.5	20.0	19.5
54°	725.4	154.5	31.9	23.5	20.2	21.0	20.7	19.5	16.9	15.4	14.7
55°	740.1	155.3	30.6	22.3	19.2	19.5	19.7	17.2	13.9	12.4	11.9
57.5°	768.9	153.5	27.6	19.5	16.9	15.9	15.7	11.4	7.6	6.6	6.1
60°	754.5	138.6	25.0	16.7	14.4	12.9	10.6	6.3	3.8	2.8	2.8
62.5°	697.9	117.6	22.3	13.7	11.9	9.9	5.6	3.5	1.8	1.0	0.8
65°	624.2	98.9	20.0	10.9	9.4	6.3	3.0	2.3	0.8	0.0	0.0
67.5°	464.1	73.4	16.9	8.6	7.1	4.0	2.0	1.3	0.3	0.0	0.0
70°	215.0	44.8	14.4	6.6	5.1	3.0	1.5	0.8	0.0	0.0	0.0
72.5°	61.7	28.1	11.9	4.8	3.5	2.5	1.3	0.5	0.3	0.0	0.0
75°	21.5	22.5	8.9	3.5	2.8	1.8	1.0	0.5	0.3	0.0	0.0
77.5°	12.9	18.2	5.6	3.0	2.3	1.5	1.0	0.5	0.3	0.3	0.0
80°	7.3	12.1	3.5	2.5	2.0	1.3	0.8	0.5	0.3	0.3	0.0
82.5°	4.0	5.8	2.8	2.3	1.8	1.3	0.8	0.5	0.3	0.3	0.3
85°	3.3	3.0	2.3	2.0	1.5	1.0	0.8	0.3	0.0	0.0	0.0
87.5°	2.5	2.0	2.0	2.0	1.5	1.0	0.8	0.3	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)