

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: P453169

Luminaire Tested: **GALN-SA4A-830-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453169
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4A-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10554 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 121
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

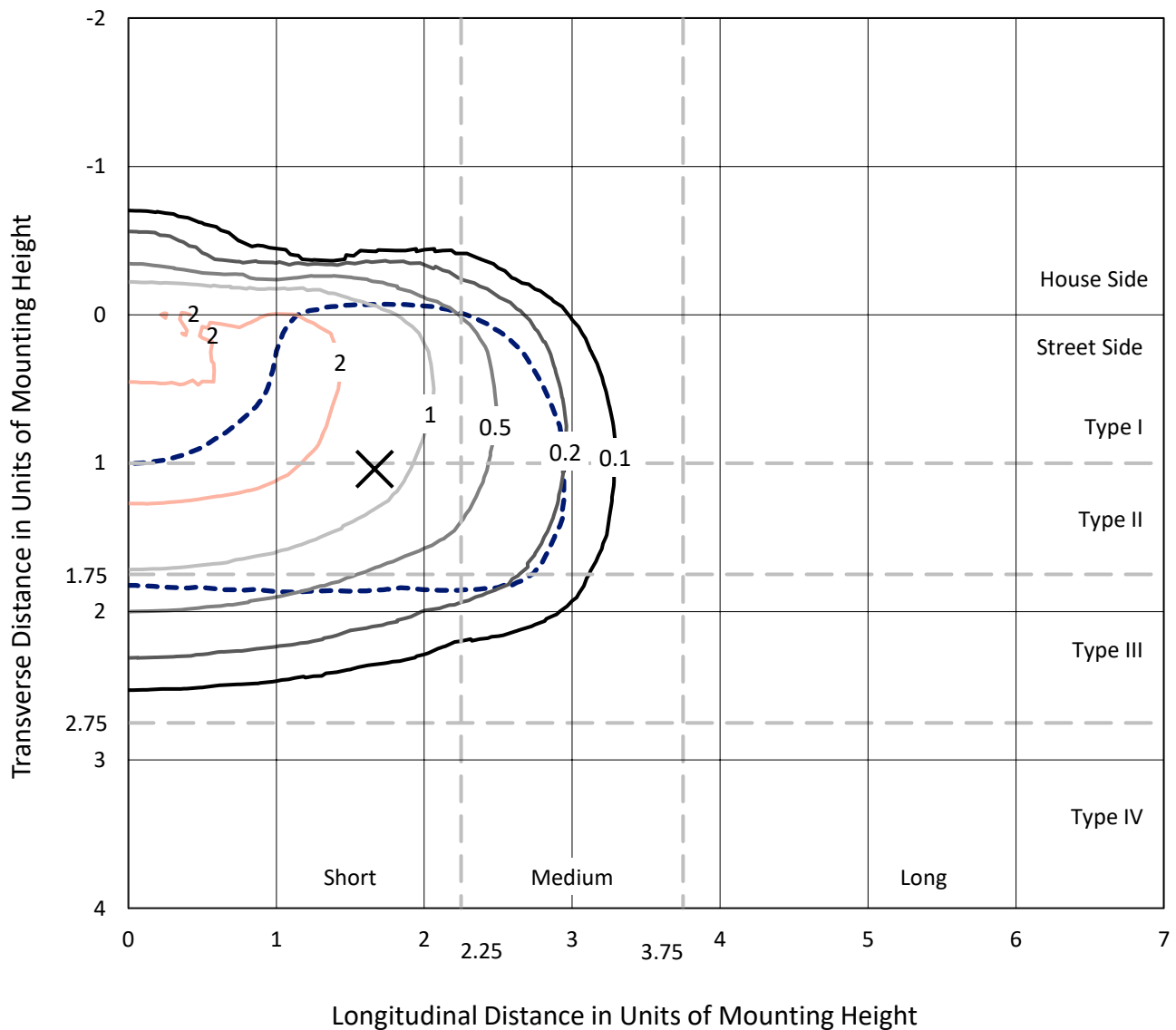


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Iso-Footcandle Lines of Horizontal Illumination

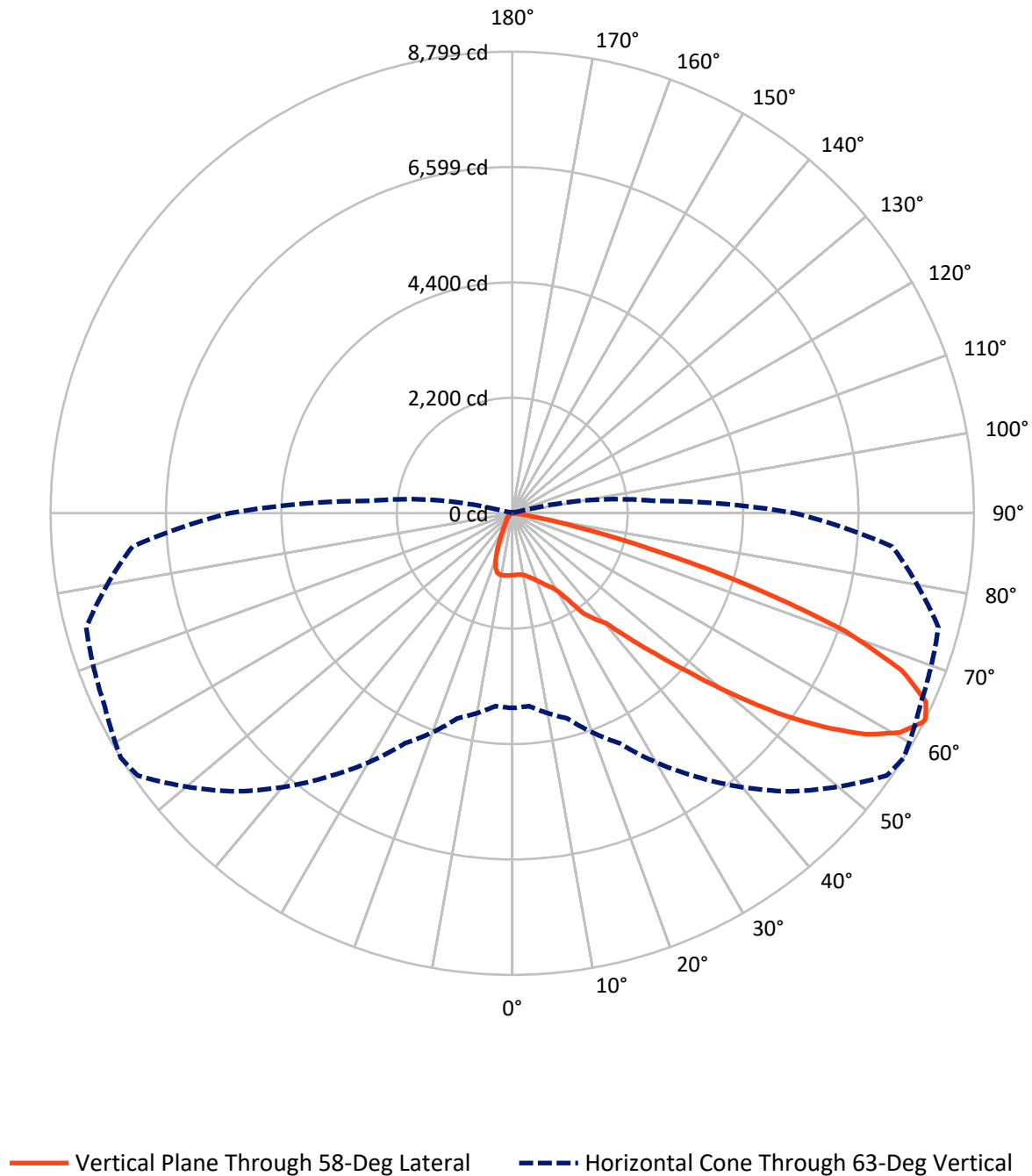
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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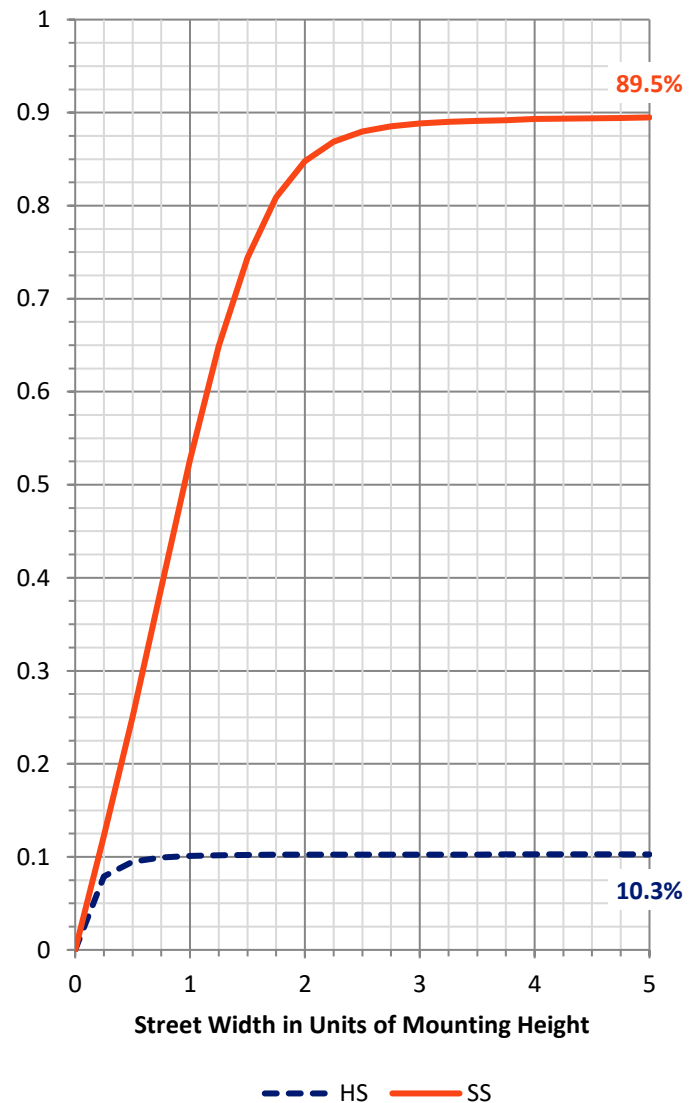
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1092.8	0.0	1092.8
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	9461.2	0.0	9461.2
	% Fixture	89.6	0.0	89.6
Total	Lumens	10554.0	0.0	10554.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.6	1.0
10°-20°	301.3	2.9
20°-30°	522.9	5.0
30°-40°	960.8	9.1
40°-50°	1808.7	17.1
50°-60°	3093.6	29.3
60°-70°	2962.2	28.1
70°-80°	755.4	7.2
80°-90°	38.6	0.4
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°	10554.0	100.0
0°-180°	10554.0	100.0

Coefficient of Utilization



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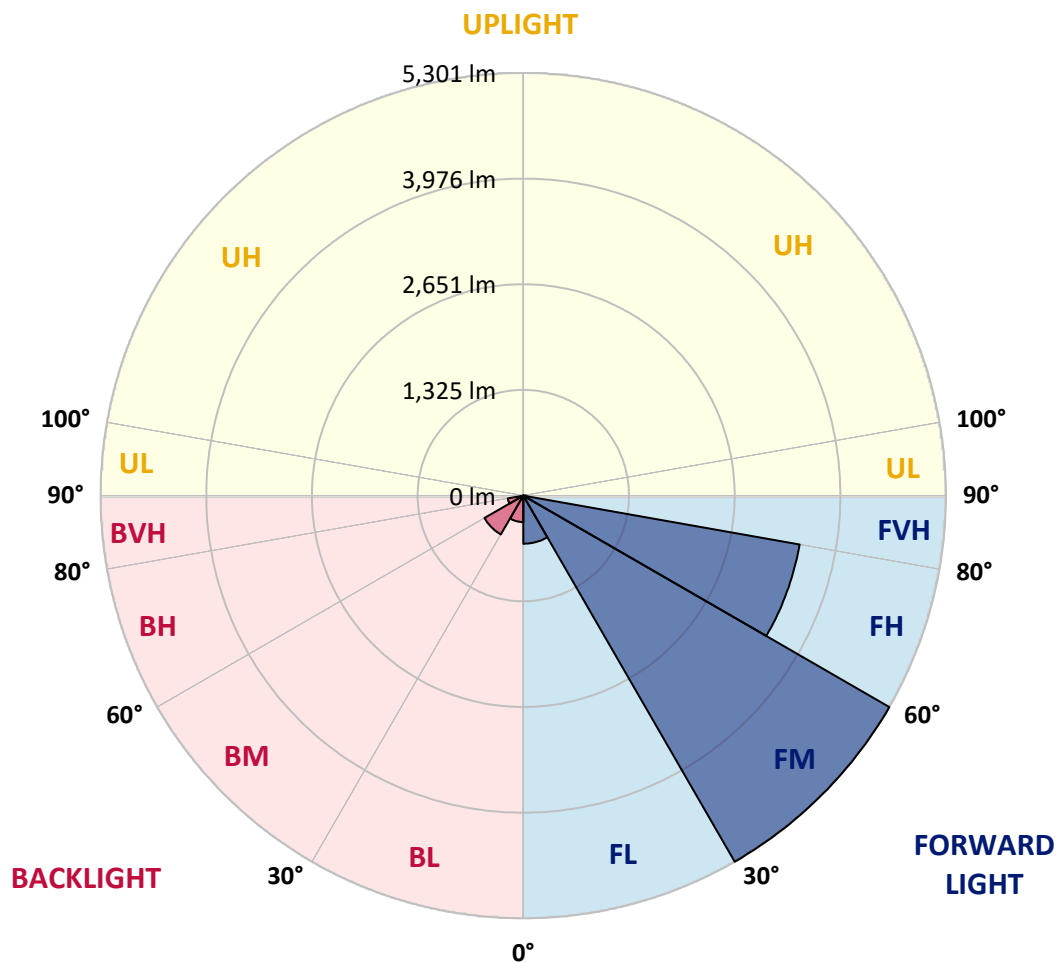
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	603.3	5.7			
FM	(30°-60°)	5301.1	50.2			
FH	(60°-80°)	3519.7	33.3			G2/5000
FVH	(80°-90°)	37.1	0.4			G1/100
BL	(0°-30°)	331.4	3.1	B1/500		
BM	(30°-60°)	562.1	5.3	B1/1000		
BH	(60°-80°)	197.8	1.9	B1/500		G1/500
BVH	(80°-90°)	1.5	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1181.6	1181.6	1181.6	1181.6	1181.6	1181.6	1181.6	1181.6	1181.6	1181.6	1181.6
2.5°	1152.2	1156.1	1160.1	1161.7	1167.3	1172.8	1176.8	1176.0	1182.4	1185.5	1185.5
5°	1106.1	1106.1	1116.4	1125.9	1141.8	1157.7	1172.8	1176.0	1187.9	1199.0	1203.0
7.5°	1067.1	1069.5	1077.5	1095.0	1116.4	1144.2	1174.4	1181.6	1202.2	1226.9	1237.2
10°	1048.9	1050.5	1060.8	1079.1	1106.1	1144.2	1186.3	1199.8	1231.6	1270.6	1284.9
12.5°	1044.9	1047.3	1057.6	1078.3	1109.3	1155.3	1212.6	1226.9	1272.9	1323.0	1344.5
15°	1052.0	1053.6	1064.0	1086.2	1120.4	1175.2	1247.5	1267.4	1322.2	1380.2	1408.0
17.5°	1077.5	1075.9	1083.0	1101.3	1139.4	1199.8	1289.6	1313.5	1377.8	1457.3	1475.6
20°	1185.5	1175.2	1168.8	1153.0	1168.1	1234.8	1340.5	1375.4	1454.9	1536.0	1548.7
22.5°	1418.4	1395.3	1350.0	1288.0	1240.4	1282.5	1401.7	1442.2	1544.7	1624.1	1624.1
25°	1714.7	1685.3	1640.0	1505.0	1388.2	1361.1	1470.8	1521.6	1642.4	1722.7	1696.5
27.5°	2085.8	2062.8	1974.6	1817.2	1638.5	1498.6	1551.0	1597.9	1729.0	1826.0	1771.1
30°	2387.8	2376.6	2304.3	2163.7	1966.6	1762.4	1700.4	1731.4	1844.3	1956.3	1899.9
32.5°	2642.8	2642.8	2568.9	2437.8	2253.5	2072.3	1953.9	1976.2	2084.2	2213.7	2108.9
35°	2923.3	2913.8	2854.2	2729.4	2522.8	2363.1	2314.7	2344.8	2442.6	2538.7	2280.5
37.5°	3218.1	3214.9	3152.9	3032.2	2863.7	2662.7	2549.1	2557.0	2607.1	2665.9	2481.5
40°	3538.3	3543.1	3462.0	3387.4	3228.4	3022.6	2804.9	2754.9	2801.7	2967.8	2852.6
42.5°	3916.6	3905.4	3870.5	3768.8	3640.8	3517.7	3256.2	3238.0	3279.3	3457.3	3332.5
45°	4356.0	4371.9	4311.5	4255.1	4169.2	4066.7	3848.2	3816.4	3861.7	4138.2	3961.1
47.5°	4796.2	4781.1	4820.0	4809.7	4855.8	4779.5	4586.4	4521.2	4630.1	4892.3	4631.7
50°	5131.5	5148.2	5229.2	5347.6	5545.5	5588.4	5403.2	5381.0	5429.5	5597.9	5231.6
52.5°	5349.2	5404.8	5532.0	5836.3	6193.1	6470.4	6329.7	6317.8	6298.0	6343.2	5805.3
55°	5491.4	5547.9	5713.9	6162.1	6776.3	7226.8	7234.0	7183.1	7052.0	7019.4	6341.7
57.5°	5404.0	5415.2	5651.9	6251.1	7099.7	7766.4	8000.0	7949.1	7706.8	7583.6	6815.2
60°	4857.4	4880.4	5210.2	5914.2	6959.1	7942.8	8507.7	8484.7	8219.3	8080.2	7183.9
62.5°	3888.7	3955.5	4294.8	5079.8	6305.1	7645.6	8713.5	8778.7	8572.1	8380.6	7299.9
63°	3710.8	3689.3	4047.7	4836.7	6131.9	7498.6	8716.7	8799.3	8588.0	8409.2	7268.2
65°	2746.9	2811.3	3044.1	3814.1	5102.9	6814.4	8520.4	8666.6	8529.2	8282.8	6916.1
67.5°	1542.3	1539.1	1796.6	2495.8	3571.7	5345.2	7704.4	8013.5	7984.9	7432.6	5733.0
70°	754.9	766.8	872.5	1293.6	2071.5	3687.7	6402.0	6735.8	6746.1	5837.9	3964.2
72.5°	341.7	347.2	422.7	630.1	1064.8	1963.4	4411.6	4730.2	4671.4	3720.3	2189.1
75°	180.4	192.3	232.8	317.0	513.3	809.7	2399.7	2708.0	2584.8	1699.6	805.7
77.5°	133.5	137.5	158.1	201.8	274.9	315.5	1035.4	1231.6	1153.8	615.0	267.0
80°	97.7	100.9	117.6	143.0	173.2	160.5	390.1	447.4	401.3	209.0	81.8
82.5°	59.6	60.4	85.8	106.5	108.9	89.8	128.7	138.3	144.6	117.6	44.5
85°	21.5	27.0	58.0	77.1	64.4	45.3	54.0	59.6	65.2	74.7	26.2
87.5°	2.4	3.2	27.8	37.3	18.3	16.7	19.9	22.2	23.8	27.8	12.7
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°	1181.6	1181.6	1181.6	1181.6	1181.6	1181.6	1181.6	1181.6	1181.6	1181.6	1181.6
2.5°	1188.7	1191.9	1189.5	1185.5	1184.7	1182.4	1177.6	1177.6	1177.6	1179.2	1177.6
5°	1206.2	1208.6	1203.0	1195.1	1186.3	1175.2	1163.3	1156.1	1155.3	1153.8	1149.8
7.5°	1239.6	1242.7	1230.0	1211.0	1187.1	1160.1	1134.7	1110.8	1099.7	1091.0	1091.0
10°	1288.0	1291.2	1265.8	1231.6	1183.9	1129.1	1068.7	1013.9	971.0	951.1	946.4
12.5°	1346.0	1347.6	1305.5	1245.9	1167.3	1061.6	932.9	812.9	729.4	691.3	687.3
15°	1409.6	1398.5	1342.9	1251.5	1119.6	922.5	700.0	553.0	466.4	441.0	450.5
17.5°	1474.0	1453.3	1371.5	1242.7	1012.3	700.0	470.4	377.4	350.4	343.3	343.3
20°	1534.4	1505.8	1392.1	1204.6	826.4	482.3	348.8	326.6	321.8	317.0	317.8
22.5°	1594.7	1551.0	1410.4	1119.6	615.8	344.9	312.3	305.1	298.8	292.4	291.6
25°	1653.5	1593.2	1417.6	962.3	419.5	296.4	285.3	275.7	263.0	255.9	254.3
27.5°	1714.7	1644.0	1412.8	763.6	305.9	265.4	254.3	240.8	225.7	213.0	213.0
30°	1832.3	1741.0	1396.1	549.1	257.4	233.6	219.3	197.9	181.2	168.5	167.7
32.5°	1992.8	1867.3	1338.9	386.2	228.8	205.8	184.3	160.5	143.0	133.5	133.5
35°	2135.9	1994.4	1231.6	284.5	205.8	178.8	152.6	129.5	116.0	109.7	107.3
37.5°	2353.6	2180.4	1083.8	231.2	183.6	154.9	127.9	106.5	95.4	90.6	90.6
40°	2680.2	2407.6	902.7	202.6	162.1	131.9	106.5	89.8	81.0	75.5	75.5
42.5°	3085.4	2685.7	719.1	182.0	142.2	113.6	89.0	76.3	68.3	64.4	63.6
45°	3595.5	2978.9	553.8	162.9	126.3	96.9	75.5	64.4	56.4	54.0	54.8
47.5°	4127.9	3237.2	429.1	146.2	109.7	81.8	64.4	55.6	50.1	46.9	46.9
50°	4582.4	3415.2	325.8	127.1	96.9	69.1	56.4	50.1	45.3	43.7	42.9
52.5°	4962.2	3466.8	249.5	110.4	85.0	59.6	50.1	45.3	41.3	38.9	38.9
55°	5285.6	3421.5	195.5	93.0	71.5	51.6	44.5	40.5	35.8	33.4	32.6
57.5°	5474.8	3276.1	149.4	77.1	58.0	42.9	38.9	34.2	28.6	24.6	24.6
60°	5570.1	3064.7	114.4	63.6	44.5	34.2	31.8	25.4	19.9	16.7	15.9
62.5°	5455.7	2784.3	86.6	50.1	33.4	25.4	21.5	18.3	12.7	9.5	9.5
63°	5385.0	2703.2	83.4	47.7	31.0	23.8	19.9	16.7	11.1	8.7	7.9
65°	4909.0	2349.6	68.3	38.1	24.6	16.7	13.5	11.9	7.9	4.0	3.2
67.5°	3898.3	1797.4	54.0	28.6	17.5	11.9	7.9	7.2	2.4	0.0	0.0
70°	2635.7	1160.9	42.1	20.7	11.9	7.2	4.0	3.2	0.8	0.0	0.0
72.5°	1374.6	595.2	32.6	15.1	7.2	4.8	2.4	0.8	0.0	0.0	0.0
75°	486.3	202.6	23.8	9.5	4.8	2.4	0.8	0.0	0.0	0.0	0.0
77.5°	147.0	75.5	15.1	7.2	3.2	1.6	0.0	0.0	0.0	0.0	0.0
80°	51.6	27.8	8.7	4.8	2.4	0.8	0.0	0.0	0.0	0.0	0.0
82.5°	25.4	13.5	5.6	4.0	2.4	0.8	0.0	0.0	0.0	0.0	0.0
85°	14.3	8.7	4.8	4.0	2.4	1.6	0.0	0.0	0.0	0.0	0.0
87.5°	10.3	6.4	4.8	4.0	3.2	1.6	0.8	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)