

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: P450834

Luminaire Tested: **GALN-SA1C-830-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450834
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1C-830-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4626 lumens
Efficiency: N/A
Efficacy: 81.2 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): 57
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

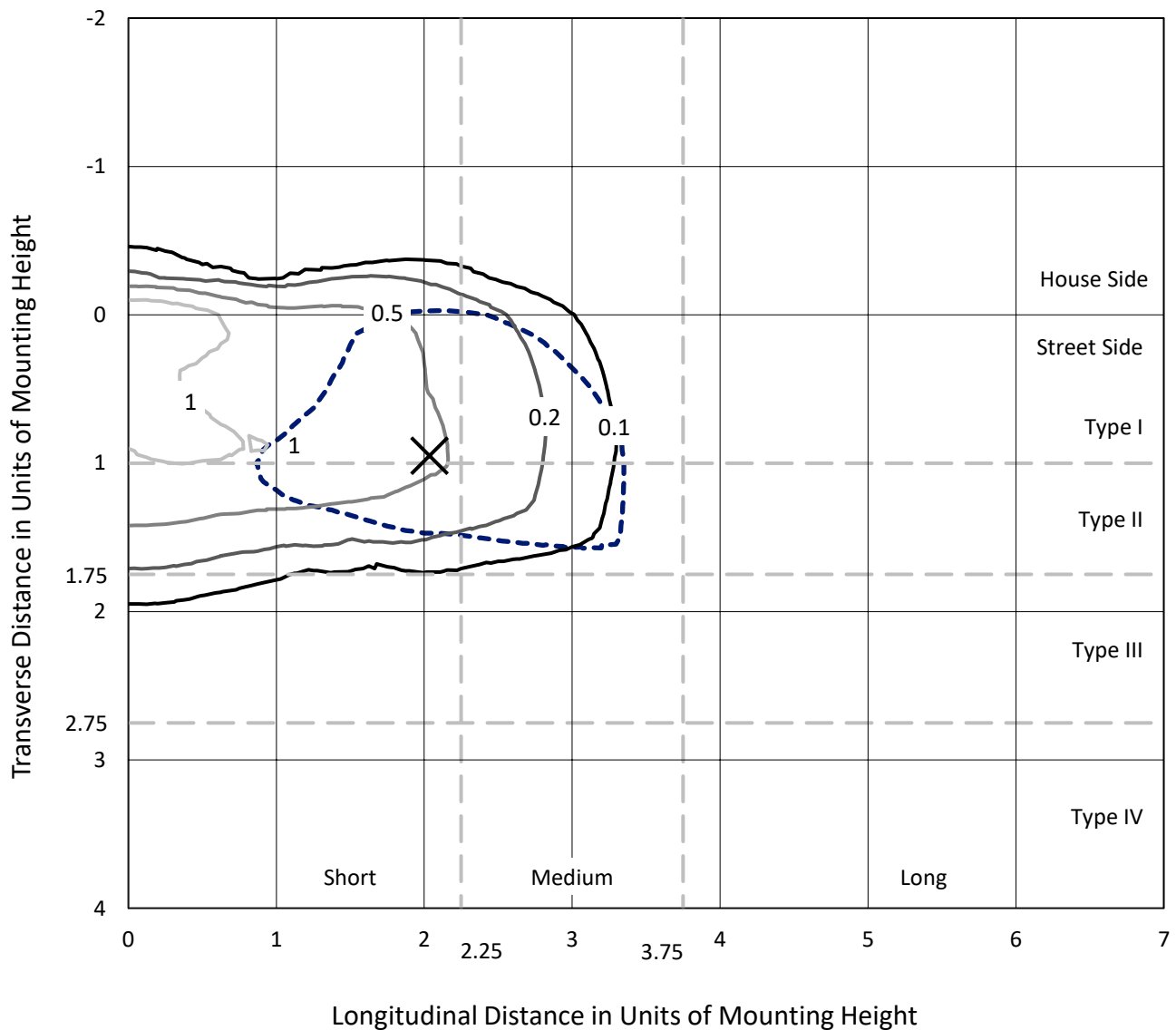


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Iso-Footcandle Lines of Horizontal Illumination

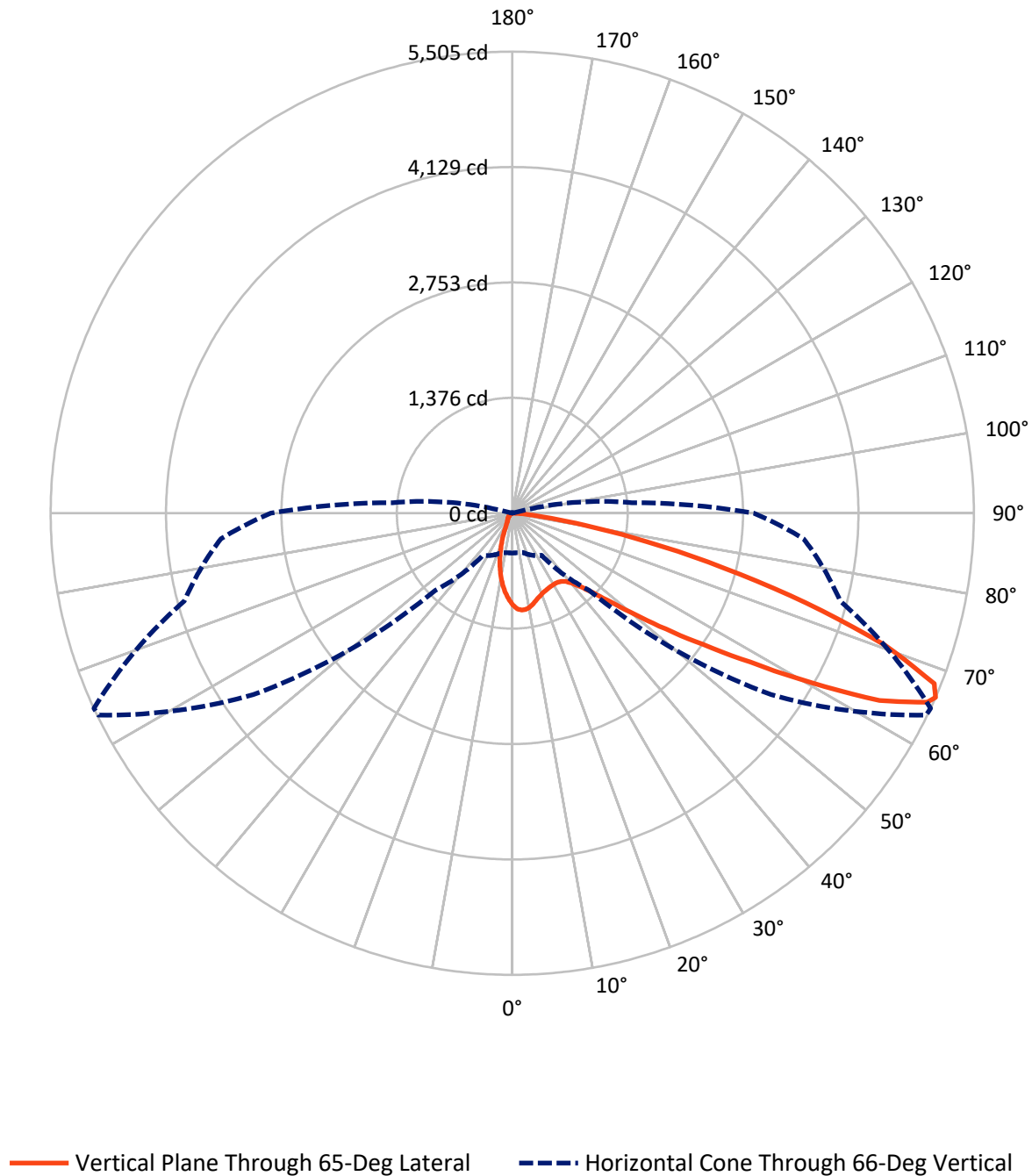
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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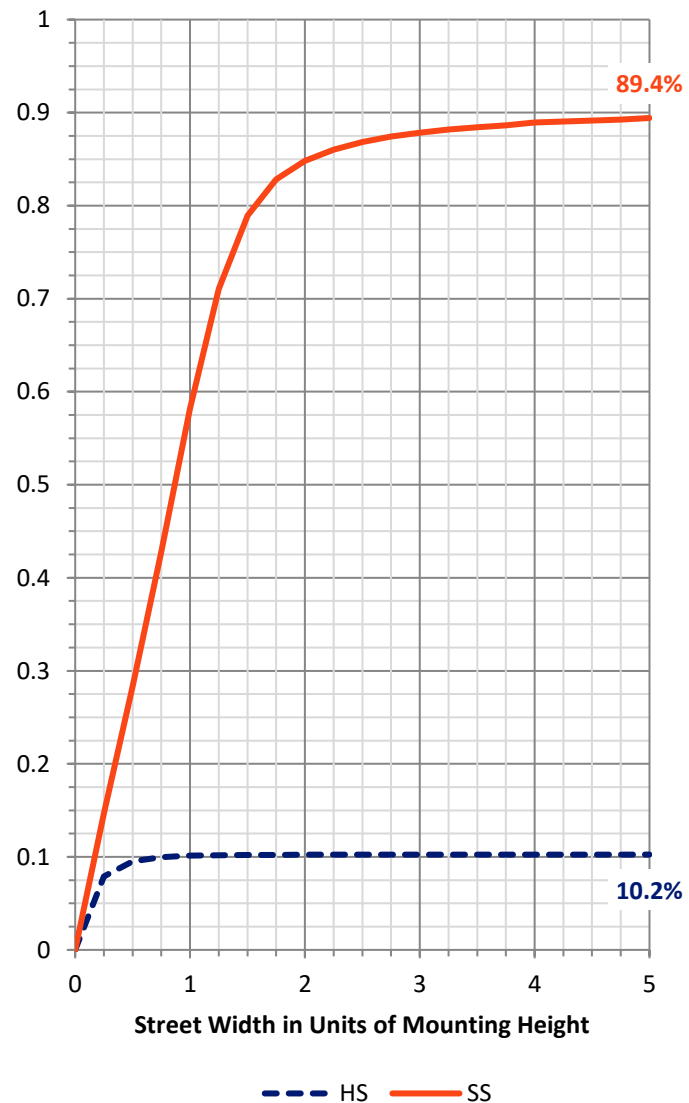
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	478.4	0.0	478.4
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	4147.6	0.0	4147.6
	% Fixture	89.7	0.0	89.7
Total	Lumens	4626.0	0.0	4626.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.7	1.9
10°-20°	195.5	4.2
20°-30°	280.0	6.1
30°-40°	409.0	8.8
40°-50°	685.8	14.8
50°-60°	1144.5	24.7
60°-70°	1214.9	26.3
70°-80°	550.2	11.9
80°-90°	56.3	1.2
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°	4626.0	100.0
0°-180°	4626.0	100.0

Coefficient of Utilization



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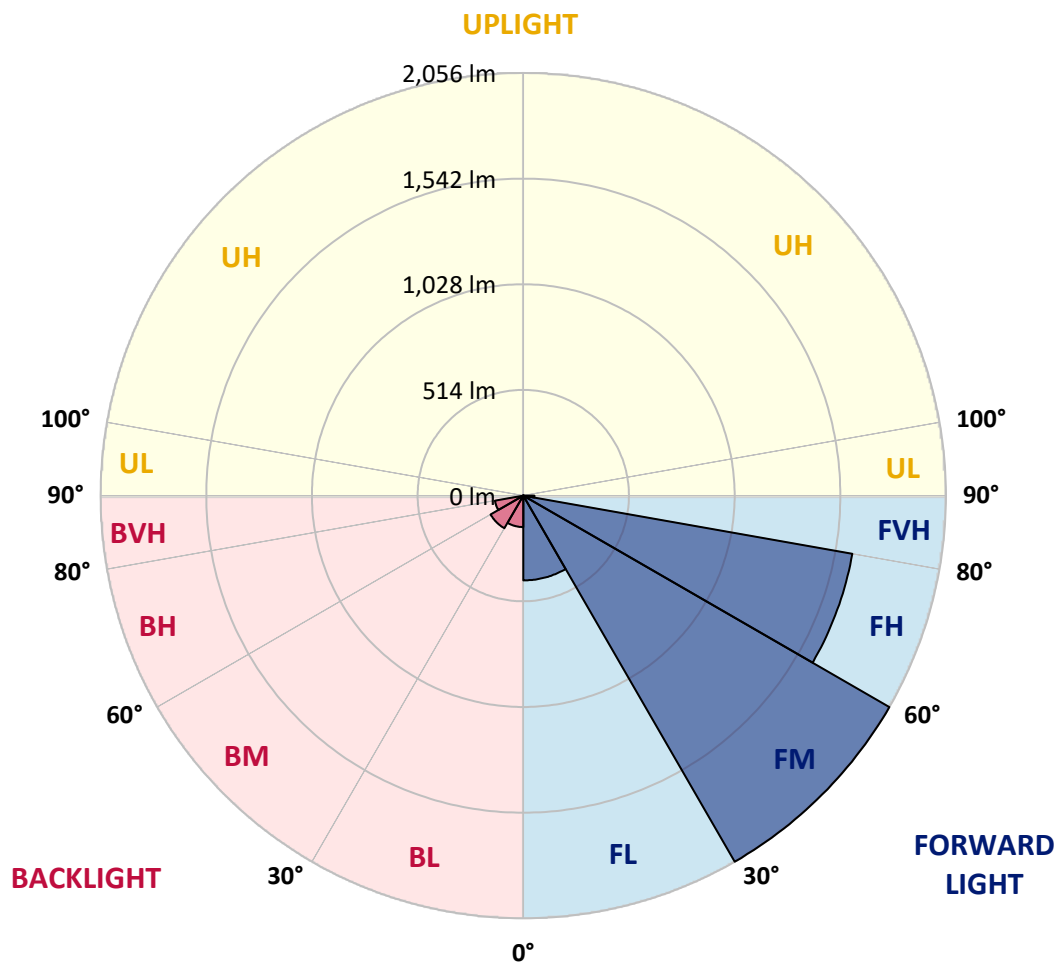
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	412.2	8.9			
FM	(30°-60°)	2055.9	44.4			
FH	(60°-80°)	1625.0	35.1			G1/1800
FVH	(80°-90°)	54.5	1.2			G1/100
BL	(0°-30°)	153.0	3.3	B1/500		
BM	(30°-60°)	183.5	4.0	B0/220		
BH	(60°-80°)	140.1	3.0	B1/500		G1/500
BVH	(80°-90°)	1.8	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°	64°	65°	75°	85°
0°	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0
2.5°	1156.0	1157.3	1158.9	1161.0	1162.6	1157.9	1151.4	1143.9	1142.3	1126.4	1107.0
5°	1094.2	1096.1	1109.8	1117.3	1134.2	1149.5	1159.2	1160.4	1159.8	1144.8	1113.9
7.5°	1006.1	1011.4	1024.8	1037.9	1069.5	1098.6	1132.9	1157.0	1158.5	1154.5	1116.1
10°	934.5	938.0	944.8	970.8	997.0	1041.4	1089.5	1134.8	1138.6	1154.8	1114.2
12.5°	878.6	883.6	892.0	912.0	943.6	985.5	1040.1	1101.1	1108.9	1148.9	1108.9
15°	839.5	842.0	850.5	870.2	900.8	939.5	994.8	1065.8	1072.6	1141.0	1107.9
17.5°	821.1	823.9	829.9	845.5	870.8	906.7	960.8	1037.3	1046.1	1136.1	1111.4
20°	826.1	828.6	828.9	837.0	854.2	884.5	935.8	1010.8	1022.0	1132.9	1117.0
22.5°	854.5	854.9	851.1	847.4	853.3	875.2	920.5	993.9	1005.4	1132.3	1123.6
25°	897.0	898.0	891.7	878.6	866.7	878.0	917.0	983.0	993.3	1130.7	1127.6
27.5°	955.8	955.5	953.6	931.7	898.0	890.5	919.8	977.0	985.8	1126.4	1129.2
30°	1037.9	1035.4	1031.4	1006.7	955.1	920.8	931.7	973.3	981.4	1120.1	1125.1
32.5°	1118.9	1128.2	1127.6	1104.2	1039.8	974.8	956.4	978.3	984.2	1116.1	1119.2
35°	1213.2	1212.9	1237.0	1228.2	1152.9	1043.9	998.6	994.8	999.5	1118.9	1116.4
37.5°	1300.7	1308.8	1346.3	1355.4	1286.6	1141.4	1058.3	1030.4	1032.0	1137.9	1123.2
40°	1409.8	1425.4	1481.3	1511.6	1451.0	1286.0	1146.4	1095.7	1096.1	1184.8	1149.2
42.5°	1550.4	1575.0	1627.2	1677.8	1645.3	1457.2	1278.5	1199.2	1198.5	1267.3	1208.5
45°	1721.3	1738.4	1797.8	1878.1	1857.5	1696.3	1471.0	1359.4	1351.3	1402.6	1313.8
47.5°	1868.7	1892.2	1952.5	2044.0	2137.8	1988.1	1701.0	1579.7	1574.4	1617.8	1494.4
50°	1933.1	1953.7	2017.1	2145.6	2372.7	2371.1	2043.4	1901.2	1892.2	1915.6	1773.8
52.5°	1862.5	1881.9	1945.9	2105.9	2483.3	2837.9	2539.6	2304.6	2293.7	2263.7	2107.4
55°	1620.7	1636.6	1731.3	1915.0	2440.8	3149.1	3223.2	2802.9	2760.5	2643.9	2485.2
57.5°	1290.4	1282.3	1341.0	1554.4	2191.5	3253.5	3924.9	3423.8	3347.9	2972.6	2804.8
60°	894.2	919.2	943.0	1083.6	1647.8	3072.6	4361.4	4204.3	4104.3	3296.0	3111.0
62.5°	657.4	673.9	689.6	754.6	1036.1	2453.3	4438.6	5006.0	4917.3	3639.4	3403.2
65°	519.9	521.2	527.4	591.5	682.7	1595.3	4067.7	5458.1	5435.3	3969.9	3521.6
66°	473.7	474.0	483.7	552.4	612.7	1299.1	3770.6	5492.5	5505.0	4049.3	3486.9
67.5°	414.0	412.7	426.8	496.5	558.0	936.7	3238.8	5353.1	5427.2	4110.2	3362.2
70°	320.9	319.3	336.5	416.5	514.0	624.9	2152.7	4596.4	4715.7	3985.6	2974.8
72.5°	213.7	215.0	244.3	328.7	490.5	550.2	1295.1	3496.6	3665.3	3291.3	2340.2
75°	124.7	126.9	160.3	244.3	425.9	524.6	733.0	2493.3	2601.1	2272.7	1457.9
77.5°	65.3	66.2	89.7	161.2	326.5	487.1	488.4	1592.8	1643.5	1104.5	577.1
80°	34.7	33.7	48.1	97.2	224.6	427.7	396.2	843.3	876.7	328.1	145.9
82.5°	13.1	14.4	25.6	63.7	132.8	307.1	341.2	372.7	361.2	72.2	61.2
85°	2.5	3.1	10.9	37.8	66.9	128.4	251.5	182.8	169.3	27.2	35.3
87.5°	0.3	0.6	3.1	9.1	9.7	43.4	74.4	50.6	43.7	10.0	14.7
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°	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0
2.5°	1097.6	1089.2	1061.1	1033.3	1004.8	979.2	961.7	933.3	926.1	915.8	909.8
5°	1095.4	1075.7	1021.7	962.6	907.7	848.3	803.0	759.2	735.8	723.9	719.6
7.5°	1089.2	1057.9	973.6	881.1	793.0	704.3	627.1	568.3	530.5	504.6	487.1
10°	1076.7	1033.6	917.7	790.5	657.4	540.2	442.4	368.1	310.6	292.4	293.1
12.5°	1063.9	1006.4	855.2	689.9	524.9	377.1	273.4	214.6	187.2	178.1	176.2
15°	1052.0	980.5	793.9	592.4	390.9	244.3	176.2	155.6	148.1	146.5	146.2
17.5°	1045.8	956.4	728.6	480.9	272.8	165.9	141.2	135.6	133.4	131.9	131.2
20°	1040.4	935.5	666.1	376.5	186.5	135.9	126.5	121.2	117.5	115.9	115.0
22.5°	1036.7	913.9	601.5	291.5	142.8	120.6	112.2	105.3	100.0	98.1	96.9
25°	1031.1	890.2	536.2	213.1	120.3	107.2	97.5	89.4	82.5	79.0	78.4
27.5°	1022.9	863.3	464.6	157.8	107.5	95.3	83.4	73.4	66.6	62.8	63.1
30°	1009.8	835.2	393.1	125.3	97.2	83.1	70.3	60.6	54.1	51.2	50.9
32.5°	994.2	801.1	327.4	107.5	87.8	72.2	58.7	50.3	45.3	43.1	42.8
35°	979.5	766.7	260.6	96.5	78.1	62.2	49.4	42.2	38.4	36.6	36.9
37.5°	971.4	736.1	203.1	87.8	70.3	53.4	42.5	36.2	32.8	31.2	30.9
40°	976.7	711.1	161.5	80.0	61.6	45.9	36.6	31.2	27.8	25.6	25.6
42.5°	1001.7	700.2	130.3	72.5	53.4	39.7	31.9	26.9	23.1	20.9	21.2
45°	1077.9	711.8	109.0	65.6	45.9	34.4	27.5	22.2	18.7	17.2	16.9
47.5°	1204.5	755.2	94.4	58.4	39.4	29.4	23.1	18.4	15.0	13.7	13.4
50°	1425.7	844.9	83.4	51.2	33.4	25.0	19.1	14.7	11.9	10.6	10.6
52.5°	1730.0	1040.4	75.6	43.1	28.1	21.2	15.6	11.9	9.4	8.4	8.1
55°	2048.1	1246.7	71.5	36.2	23.4	17.5	12.5	9.4	7.2	6.2	5.9
57.5°	2354.0	1408.5	66.9	29.4	18.7	13.4	9.7	7.2	5.0	4.4	4.1
60°	2647.3	1539.4	56.9	23.4	14.7	9.7	7.2	5.0	3.4	2.8	2.8
62.5°	2909.8	1615.7	44.7	18.7	11.2	6.9	4.7	3.7	2.5	1.9	1.9
65°	2940.4	1516.6	33.7	14.4	8.1	4.4	2.8	2.8	1.9	1.2	1.2
66°	2878.9	1432.6	29.7	13.1	7.2	3.7	2.5	2.2	1.6	0.9	0.9
67.5°	2741.4	1289.1	25.6	11.2	5.9	2.8	1.9	1.9	1.2	0.6	0.6
70°	2368.6	1052.9	20.3	8.4	4.4	2.2	1.2	1.2	0.9	0.6	0.6
72.5°	1805.3	786.1	16.6	6.2	3.1	1.6	0.9	0.9	0.9	0.6	0.6
75°	1088.9	423.4	12.8	4.7	2.8	1.2	0.6	0.9	1.2	0.9	0.6
77.5°	401.2	144.0	10.0	3.7	2.2	1.2	0.6	0.6	1.2	0.9	0.9
80°	98.4	37.5	7.2	3.1	2.2	1.2	0.6	0.6	1.2	1.2	1.2
82.5°	45.6	15.9	5.0	2.8	2.2	1.2	0.6	0.6	0.9	1.2	1.2
85°	26.2	7.5	4.1	3.1	2.2	1.2	0.6	0.6	0.9	1.2	1.2
87.5°	10.6	3.7	3.7	3.1	2.5	1.6	0.6	0.6	0.6	0.9	0.9
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)