

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: P522666

Luminaire Tested: **GALN-SA2B-830-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522666
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9100 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 82
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

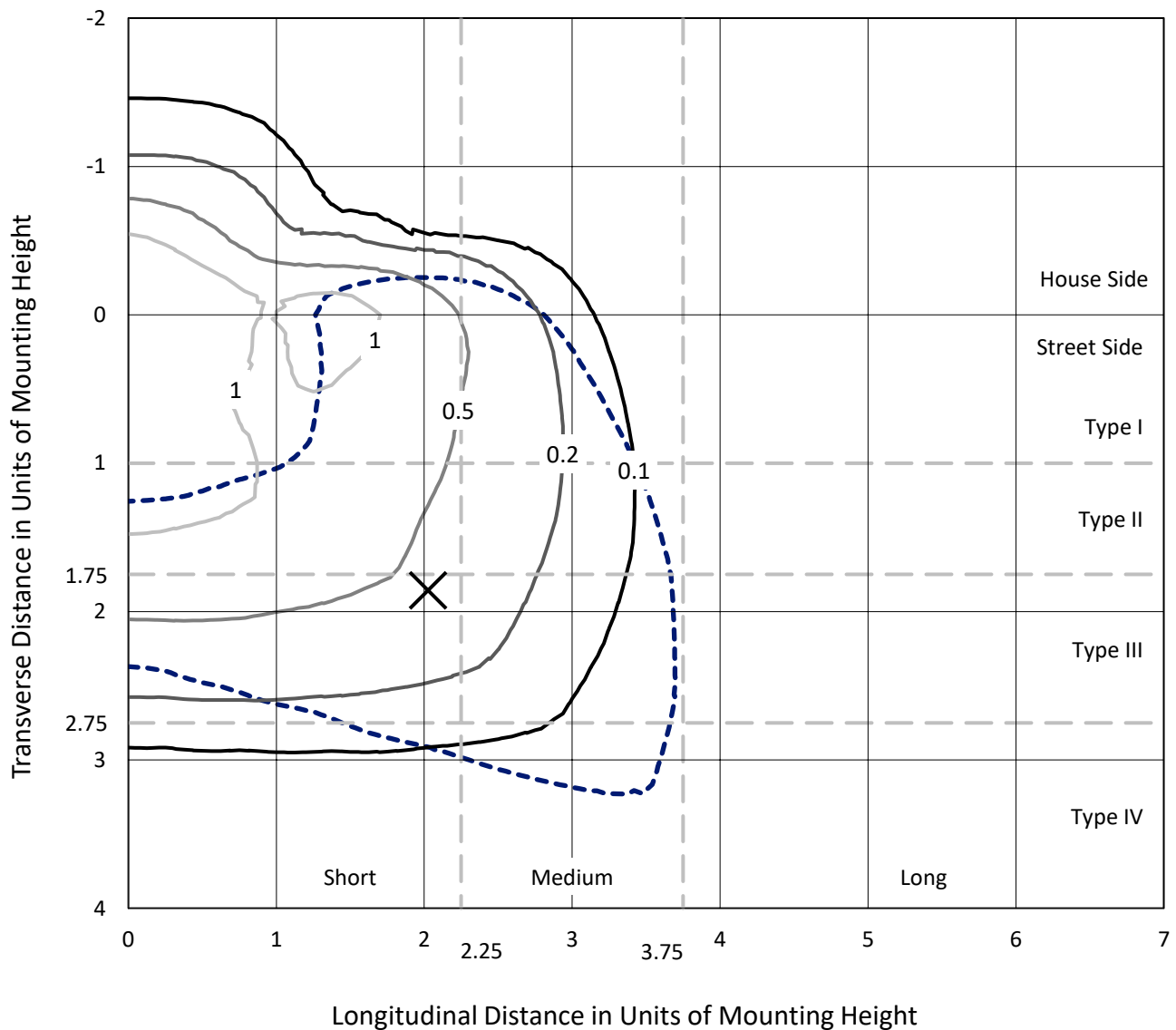


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

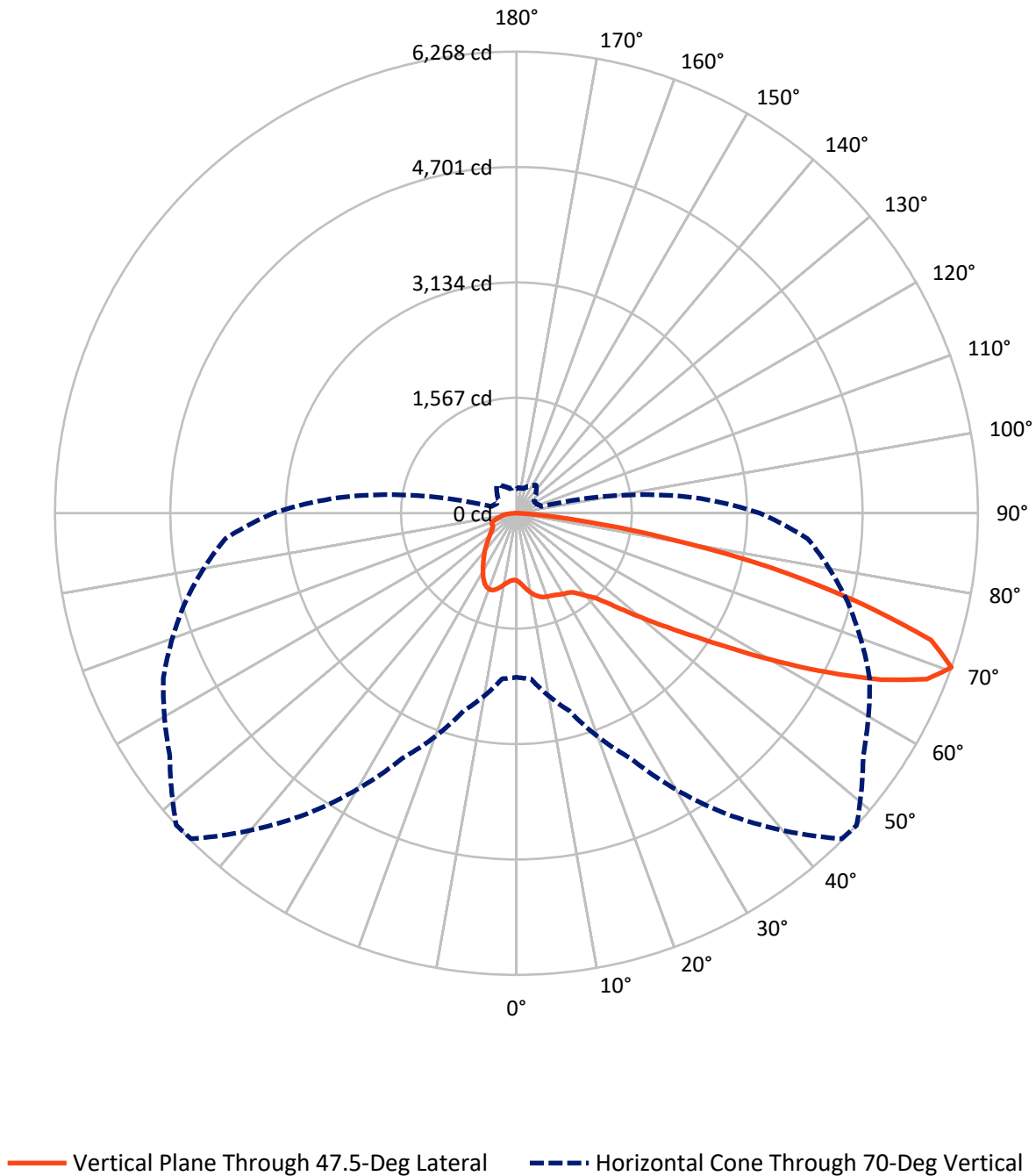


Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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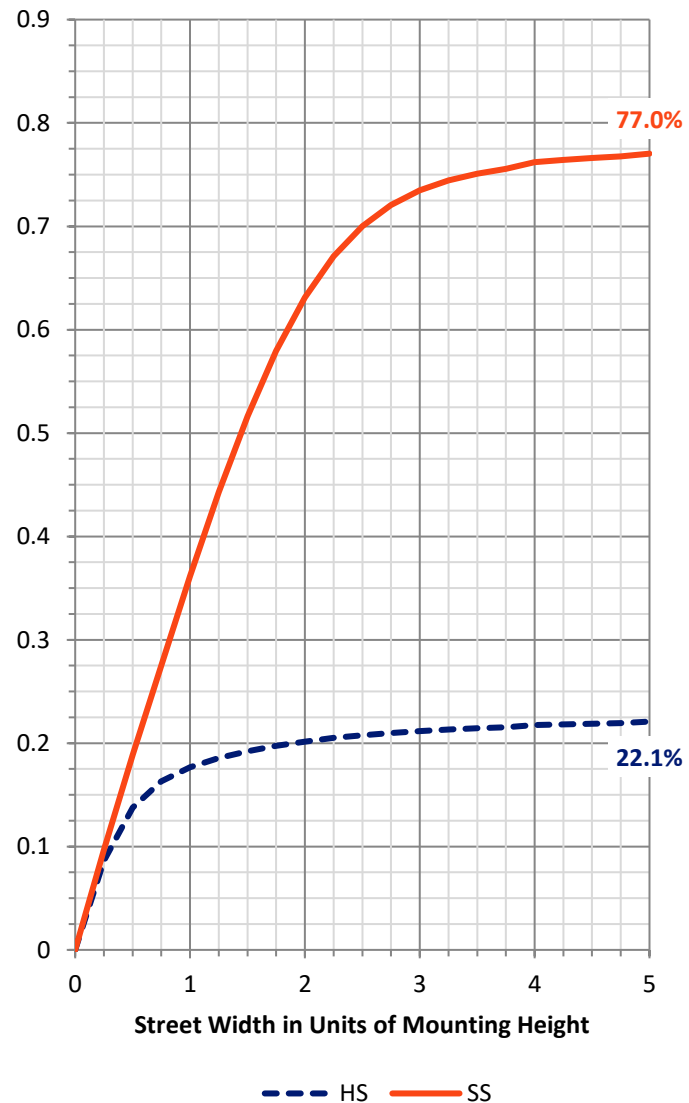
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2060.4	0.0	2060.4
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	7039.6	0.0	7039.6
	% Fixture	77.4	0.0	77.4
Total	Lumens	9100.0	0.0	9100.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.2	1.0
10°-20°	314.8	3.5
20°-30°	523.5	5.8
30°-40°	742.0	8.2
40°-50°	1095.4	12.0
50°-60°	1897.2	20.8
60°-70°	2679.9	29.4
70°-80°	1540.5	16.9
80°-90°	212.6	2.3
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°	9100.0	100.0
0°-180°	9100.0	100.0

Coefficient of Utilization



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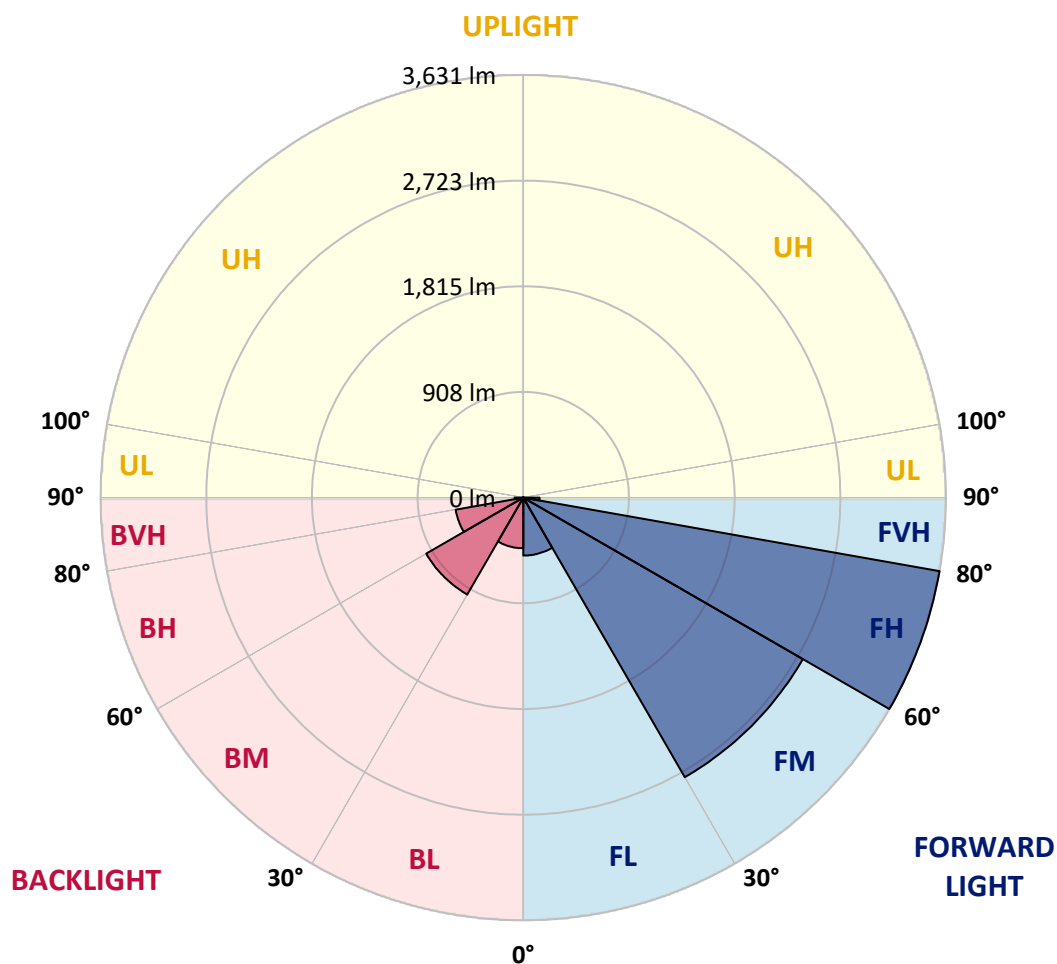
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	497.6	5.5			
FM	(30°-60°)	2772.6	30.5			
FH	(60°-80°)	3630.5	39.9			G2/5000
FVH	(80°-90°)	138.8	1.5			G2/225
BL	(0°-30°)	434.9	4.8	B1/500		
BM	(30°-60°)	962.0	10.6	B1/1000		
BH	(60°-80°)	589.9	6.5	B2/1000		G2/1000
BVH	(80°-90°)	73.7	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	913.5	913.5	913.5	913.5	913.5	913.5	913.5	913.5	913.5	913.5	913.5
2.5°	972.5	969.0	968.6	961.3	957.4	950.1	947.1	940.3	932.0	923.8	916.0
5°	1048.9	1048.9	1045.5	1035.3	1019.2	1002.6	995.3	982.2	958.8	939.8	923.8
7.5°	1127.3	1128.3	1121.5	1106.4	1083.5	1056.7	1049.9	1030.4	997.3	969.5	945.7
10°	1195.0	1195.0	1185.7	1165.3	1136.6	1107.3	1100.5	1078.6	1041.6	1007.0	975.9
12.5°	1246.6	1246.6	1234.4	1207.7	1176.5	1150.2	1142.4	1121.5	1086.9	1048.4	1009.0
15°	1280.2	1277.8	1264.1	1233.9	1203.8	1180.9	1175.5	1158.0	1126.3	1087.4	1043.1
17.5°	1281.7	1280.7	1267.5	1242.2	1215.9	1200.3	1196.9	1185.3	1160.4	1123.4	1076.7
20°	1253.4	1255.4	1246.6	1228.6	1215.9	1209.1	1207.7	1203.8	1186.2	1151.7	1104.9
22.5°	1223.2	1226.6	1218.4	1208.6	1207.7	1214.5	1215.4	1216.4	1205.2	1171.6	1128.8
25°	1215.9	1218.4	1210.1	1201.3	1206.7	1224.7	1228.6	1232.5	1223.7	1195.5	1157.0
27.5°	1252.9	1251.0	1234.9	1215.9	1219.3	1243.7	1249.0	1253.4	1249.0	1224.7	1192.1
30°	1357.6	1351.3	1319.2	1263.7	1246.1	1263.2	1268.5	1280.7	1280.7	1262.7	1230.1
32.5°	1532.9	1520.8	1461.8	1352.8	1291.9	1281.7	1287.0	1307.0	1317.2	1303.1	1267.5
35°	1745.7	1733.1	1648.8	1502.3	1375.7	1318.7	1317.2	1339.6	1366.9	1335.2	1289.0
37.5°	1959.5	1946.4	1845.1	1680.5	1497.9	1396.6	1387.8	1395.6	1407.3	1349.4	1318.7
40°	2173.3	2157.7	2069.1	1879.7	1647.4	1499.8	1476.9	1441.9	1437.0	1395.6	1376.1
42.5°	2385.1	2371.0	2326.2	2103.2	1826.6	1600.6	1565.6	1505.2	1523.7	1498.9	1481.8
45°	2598.9	2599.9	2552.1	2353.9	2042.8	1786.6	1739.4	1644.9	1688.8	1679.5	1689.3
47.5°	2788.3	2785.9	2768.8	2597.4	2311.1	2026.2	1965.4	1855.8	1930.8	1964.9	2039.4
50°	2971.9	2970.4	2971.4	2873.5	2622.7	2311.1	2243.9	2129.0	2297.9	2416.3	2549.7
52.5°	3234.9	3243.1	3184.2	3158.4	3001.6	2647.6	2573.6	2454.7	2731.8	2918.3	3178.9
55°	3498.8	3492.0	3445.7	3472.5	3398.0	3045.9	2968.5	2874.0	3214.9	3418.9	3810.4
57.5°	3654.1	3656.6	3703.8	3834.8	3887.4	3542.6	3472.5	3399.4	3757.8	3902.5	4372.4
60°	3793.9	3805.1	3940.9	4188.3	4331.0	4152.8	4090.4	4019.3	4256.0	4313.5	4860.3
62.5°	3837.7	3872.3	4109.4	4479.5	4763.4	4841.3	4763.9	4607.1	4730.3	4707.9	5191.0
65°	3619.1	3666.3	4091.4	4588.6	5149.6	5494.8	5445.6	5154.4	5134.5	4999.6	5245.0
67.5°	3043.5	3090.7	3636.6	4359.7	5309.3	6060.7	6011.5	5553.7	5379.9	5026.9	4836.0
70°	2226.9	2256.6	2778.6	3670.7	4988.4	6250.6	6267.6	5748.5	5292.2	4656.3	3970.6
72.5°	1283.1	1348.9	1714.6	2582.3	4075.3	5770.4	5888.8	5343.4	4738.1	3884.5	2776.1
75°	551.7	553.2	792.8	1424.3	2760.1	4638.3	4752.7	4429.4	3720.8	2686.1	1482.3
77.5°	262.5	267.3	348.7	636.0	1519.3	3204.7	3513.4	3129.2	2379.8	1290.4	560.0
80°	170.4	173.8	213.3	315.5	745.0	1858.2	2073.5	1805.1	1049.9	461.1	241.5
82.5°	103.2	104.2	142.7	192.8	410.0	841.5	991.9	783.5	448.0	276.1	142.2
85°	62.8	63.3	86.7	119.3	248.8	290.7	298.5	296.1	263.0	180.7	76.0
87.5°	30.2	31.2	44.8	56.5	97.9	90.1	85.2	98.9	124.2	97.4	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°	913.5	913.5	913.5	913.5	913.5	913.5	913.5	913.5	913.5	913.5	913.5
2.5°	912.6	911.1	907.7	906.2	905.3	905.7	905.3	905.3	905.7	905.7	905.7
5°	916.9	914.5	909.1	909.1	912.1	918.9	925.2	930.1	935.4	935.0	935.0
7.5°	935.9	931.5	925.2	927.2	934.5	945.2	956.4	967.1	977.8	978.8	978.3
10°	963.7	959.3	952.5	954.9	966.6	982.7	996.8	1012.4	1024.1	1027.5	1026.5
12.5°	995.3	986.6	980.7	987.5	1006.1	1027.5	1041.1	1052.8	1061.1	1065.9	1064.0
15°	1027.5	1019.2	1012.4	1026.5	1048.9	1068.9	1075.7	1077.6	1079.1	1084.0	1083.0
17.5°	1058.6	1047.4	1045.0	1063.5	1084.9	1093.7	1089.8	1081.5	1075.2	1079.1	1078.6
20°	1086.4	1077.6	1076.7	1095.2	1103.4	1095.2	1078.6	1064.0	1052.8	1053.8	1053.3
22.5°	1112.7	1105.9	1106.9	1114.6	1101.5	1073.3	1046.0	1026.0	1013.8	1016.3	1017.7
25°	1141.9	1135.1	1137.5	1124.9	1081.5	1032.3	992.9	975.9	971.0	975.9	979.3
27.5°	1179.9	1175.5	1174.1	1125.4	1046.0	972.0	927.2	920.8	925.2	935.9	941.3
30°	1220.8	1220.8	1213.0	1117.1	997.3	899.4	860.5	861.4	876.5	891.6	897.0
32.5°	1260.2	1268.5	1244.2	1094.7	934.5	828.8	799.1	800.1	813.2	831.7	836.6
35°	1292.9	1316.7	1271.0	1053.8	860.5	769.4	747.0	733.8	734.3	748.5	752.3
37.5°	1337.7	1382.0	1286.5	992.9	781.6	718.7	693.4	670.5	655.4	649.6	649.6
40°	1415.6	1480.8	1290.4	902.8	707.1	670.5	634.5	607.2	578.0	551.7	546.9
42.5°	1547.5	1629.8	1282.6	799.1	639.9	617.5	582.4	548.8	508.4	471.4	468.5
45°	1781.3	1823.7	1261.7	691.5	580.0	566.3	532.2	495.7	452.9	419.8	417.3
47.5°	2155.8	2095.9	1233.9	596.0	525.4	521.5	495.2	452.9	410.0	387.1	384.7
50°	2702.6	2524.4	1230.1	526.9	481.6	483.5	462.1	423.2	385.7	366.7	363.8
52.5°	3361.0	3042.0	1255.9	478.2	443.1	450.4	439.7	403.7	370.6	354.5	351.6
55°	3999.9	3507.5	1271.4	440.2	407.1	420.7	422.2	392.0	361.8	345.7	343.8
57.5°	4518.5	3858.2	1202.3	405.6	375.9	396.9	407.6	385.2	357.4	345.3	343.3
60°	4879.3	4023.7	1005.6	375.0	353.0	377.9	402.2	385.7	368.1	369.6	370.6
62.5°	4994.2	3950.2	754.3	352.1	337.5	371.5	411.0	405.6	387.6	398.8	400.8
65°	4803.8	3646.3	546.9	334.1	323.8	375.9	437.3	420.2	380.8	389.1	389.1
67.5°	4166.4	3141.4	425.6	317.5	308.2	384.2	463.6	418.8	364.7	374.5	365.7
70°	3305.0	2429.9	354.5	299.0	291.7	372.0	466.0	403.7	345.7	347.7	331.1
72.5°	2193.3	1597.7	304.8	281.5	266.4	334.5	446.1	384.2	327.2	316.0	299.5
75°	1074.7	796.7	265.9	259.5	233.3	291.2	418.8	365.7	307.3	289.7	280.5
77.5°	416.3	338.9	226.9	231.8	203.1	256.6	382.7	339.4	281.0	257.1	249.8
80°	202.1	192.3	186.0	193.3	167.0	218.6	349.6	316.5	256.6	230.3	219.6
82.5°	125.6	118.8	142.7	150.5	128.6	199.7	331.6	297.0	225.9	190.9	182.1
85°	63.8	68.2	95.4	102.7	92.0	158.7	273.2	223.0	163.1	135.4	136.3
87.5°	24.3	32.6	50.2	54.1	49.2	83.8	150.5	130.0	104.7	71.1	65.7
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)