

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: P450835

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450835
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5643 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

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

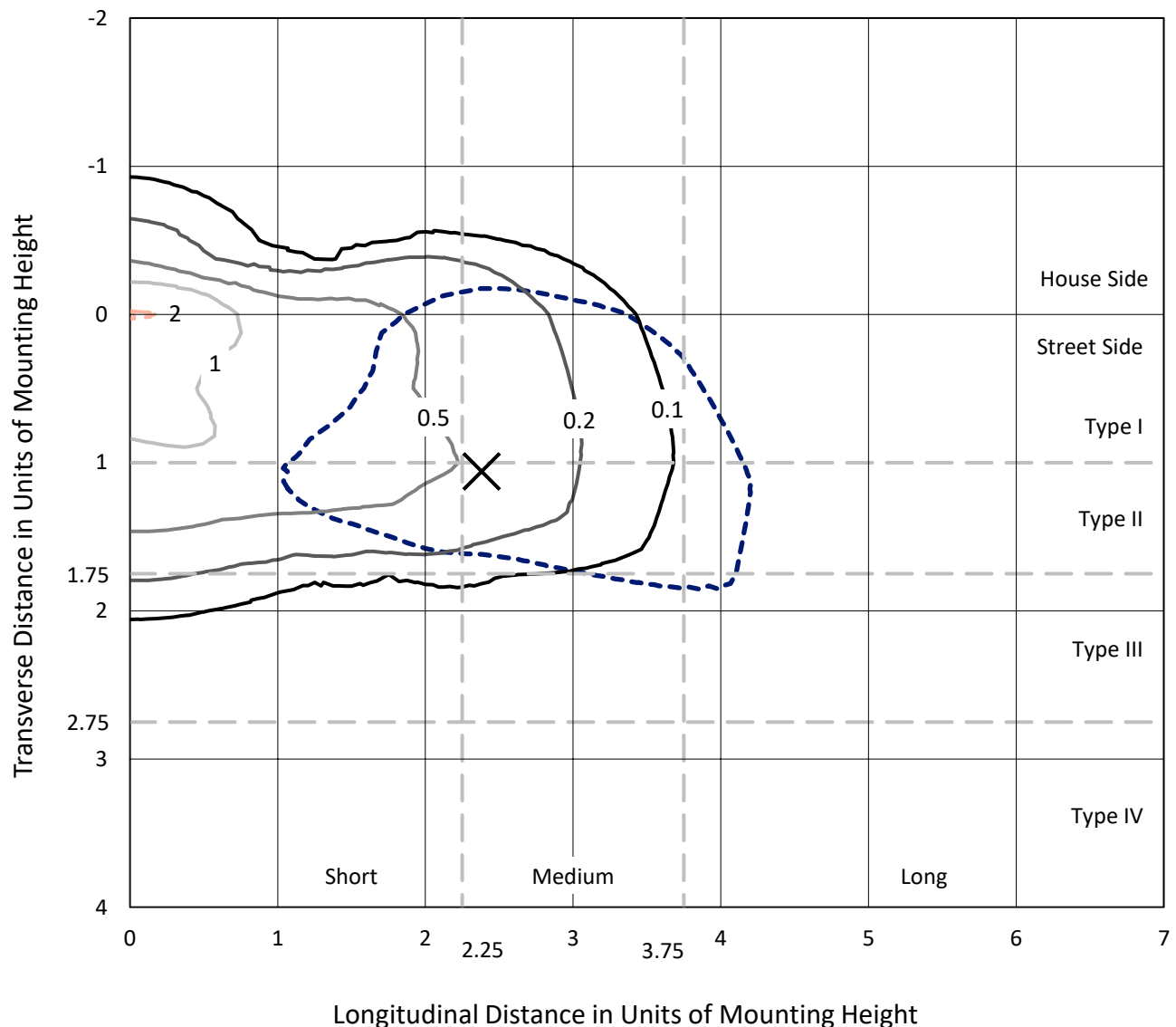


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Iso-Footcandle Lines of Horizontal Illumination

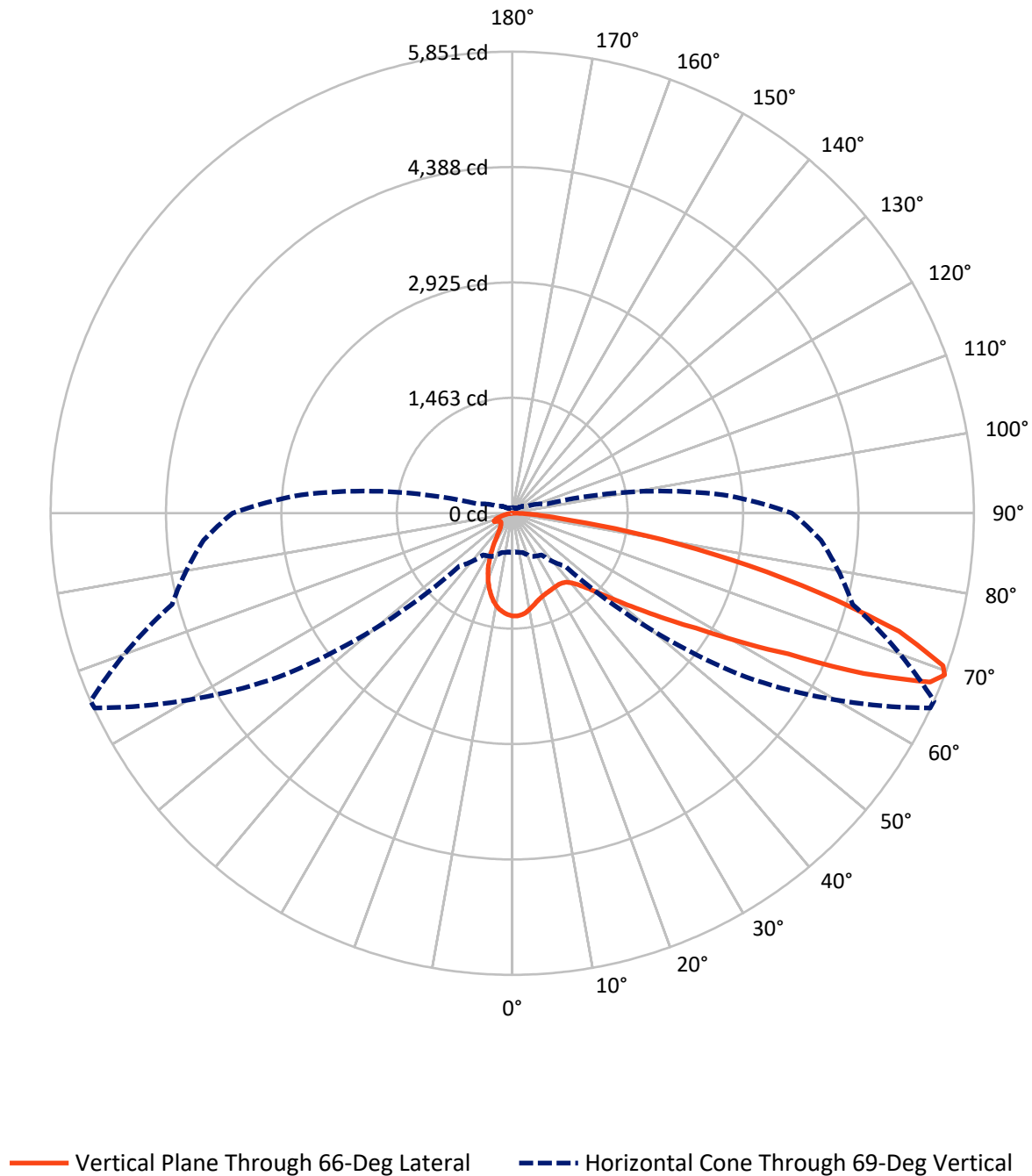
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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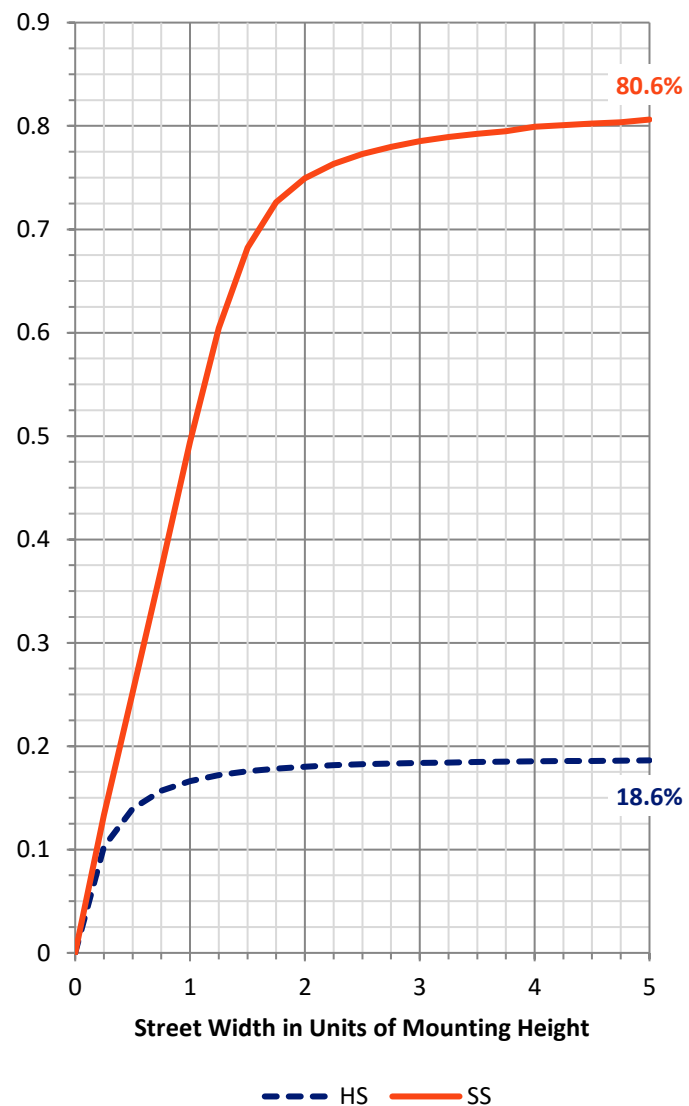
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1061.3	0.0	1061.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	4581.8	0.0	4581.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	5643.0	0.0	5643.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.2	2.0
10°-20°	268.4	4.8
20°-30°	365.4	6.5
30°-40°	491.0	8.7
40°-50°	733.2	13.0
50°-60°	1166.3	20.7
60°-70°	1434.4	25.4
70°-80°	933.3	16.5
80°-90°	137.8	2.4
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°	5643.0	100.0
0°-180°	5643.0	100.0

Coefficient of Utilization



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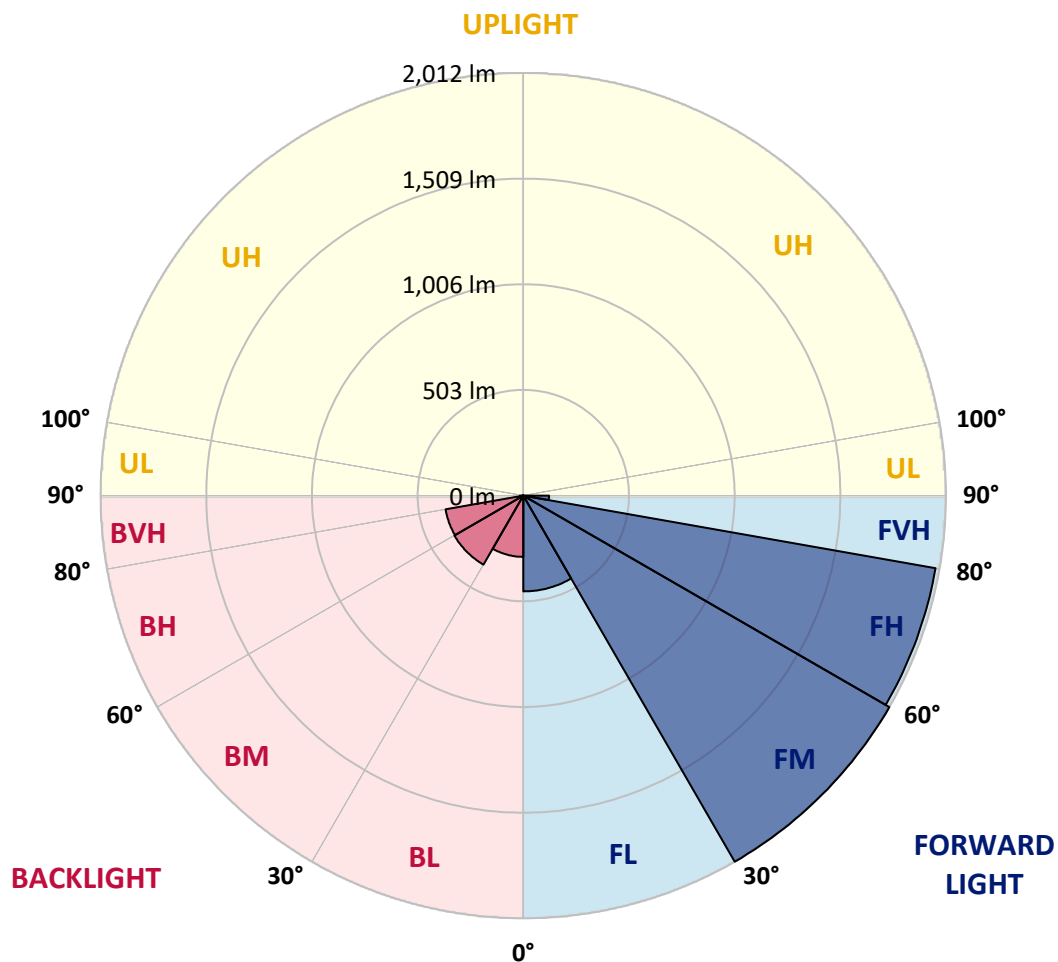
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	455.7	8.1			
FM	(30°-60°)	2011.6	35.6			
FH	(60°-80°)	1992.0	35.3			G2/5000
FVH	(80°-90°)	122.5	2.2			G2/225
BL	(0°-30°)	291.3	5.2	B1/500		
BM	(30°-60°)	378.9	6.7	B1/1000		
BH	(60°-80°)	375.7	6.7	B1/500		G1/500
BVH	(80°-90°)	15.3	0.3			G1/100
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1303.1	1303.1	1303.1	1303.1	1303.1	1303.1	1303.1	1303.1	1303.1	1303.1	1303.1
2.5°	1257.5	1262.5	1268.1	1274.4	1286.3	1292.8	1297.5	1302.8	1303.4	1306.3	1304.1
5°	1164.7	1170.6	1179.1	1190.9	1208.8	1236.6	1265.3	1288.8	1291.6	1304.7	1308.4
7.5°	1087.2	1090.6	1097.5	1116.6	1141.9	1172.8	1214.7	1262.2	1269.1	1300.3	1311.3
10°	1024.1	1027.5	1035.6	1055.3	1080.3	1119.1	1165.0	1227.5	1233.1	1286.9	1311.9
12.5°	976.9	980.0	988.8	1008.1	1036.9	1073.1	1123.8	1190.0	1198.1	1269.1	1305.9
15°	940.9	946.9	954.1	970.0	1000.3	1035.3	1084.4	1155.6	1162.2	1250.3	1301.9
17.5°	925.6	928.4	933.4	948.1	970.3	1004.7	1054.1	1128.8	1136.6	1237.2	1300.9
20°	926.3	929.1	930.0	938.1	954.1	983.8	1032.5	1107.5	1116.9	1225.6	1302.5
22.5°	947.5	947.8	944.4	941.6	947.8	972.5	1017.2	1091.6	1102.5	1220.6	1303.8
25°	980.3	985.9	980.9	967.8	956.3	968.1	1011.3	1082.8	1093.1	1213.4	1302.2
27.5°	1033.4	1034.4	1030.3	1012.5	982.5	973.8	1008.8	1076.3	1085.0	1208.1	1294.4
30°	1104.7	1101.9	1098.1	1078.4	1031.3	995.3	1014.1	1070.3	1079.4	1200.3	1285.0
32.5°	1176.9	1185.6	1182.2	1159.1	1097.8	1037.2	1031.3	1069.7	1077.2	1194.4	1274.7
35°	1253.4	1257.5	1273.8	1261.9	1199.1	1105.0	1063.4	1079.4	1085.3	1194.7	1267.5
37.5°	1313.4	1324.4	1362.5	1372.8	1313.8	1194.7	1115.6	1106.9	1109.4	1210.0	1270.3
40°	1385.9	1404.7	1453.8	1495.9	1457.2	1311.3	1204.4	1157.8	1160.9	1246.9	1288.8
42.5°	1477.8	1490.9	1556.9	1614.1	1607.8	1465.3	1311.9	1241.3	1242.8	1320.3	1340.3
45°	1585.3	1604.1	1678.1	1764.1	1778.8	1639.7	1467.2	1367.5	1366.6	1434.4	1436.6
47.5°	1722.8	1734.4	1807.8	1901.6	1960.9	1858.8	1655.6	1548.8	1538.8	1600.6	1582.8
50°	1849.4	1867.5	1923.1	2025.6	2173.4	2115.3	1903.4	1783.8	1760.3	1818.1	1788.1
52.5°	1902.5	1921.6	1968.4	2095.6	2355.6	2447.2	2218.1	2064.1	2025.0	2069.4	2058.4
55°	1810.3	1835.0	1878.8	2033.4	2435.6	2830.0	2642.5	2388.1	2359.7	2340.6	2343.8
57.5°	1562.5	1585.9	1645.0	1815.6	2340.0	3107.8	3248.4	2804.7	2743.8	2655.9	2670.9
60°	1189.4	1204.1	1234.7	1423.8	2056.6	3180.0	3936.6	3331.3	3292.5	2970.0	2980.6
62.5°	844.7	861.3	882.5	976.9	1505.6	2976.6	4475.3	4066.6	3928.1	3295.3	3285.0
65°	685.9	674.7	700.3	744.4	883.4	2306.9	4596.6	5087.2	4896.6	3723.8	3580.6
67.5°	564.1	552.2	577.5	655.9	671.9	1339.1	4159.7	5749.7	5711.6	4189.7	3880.9
69°	499.4	493.1	515.3	604.7	645.0	950.9	3623.8	5841.9	5850.9	4464.4	3927.2
70°	450.0	452.5	474.1	578.8	632.8	784.1	3097.2	5714.7	5791.6	4601.6	3877.2
72.5°	331.3	336.6	366.6	479.4	621.3	665.3	1843.1	4991.6	5127.5	4609.7	3546.9
75°	231.6	229.1	255.6	360.9	586.9	659.4	1082.5	3860.3	4014.4	3984.4	2980.3
77.5°	151.6	155.6	176.9	255.0	493.8	654.4	705.6	2738.8	2838.8	2664.7	1762.8
80°	106.9	106.6	118.4	174.1	366.3	628.8	577.8	1726.3	1700.9	1047.2	522.8
82.5°	61.3	65.6	79.4	122.5	245.0	553.4	531.6	825.6	753.8	298.4	176.6
85°	34.1	35.6	47.2	74.1	143.1	416.9	464.1	375.6	354.4	124.7	75.9
87.5°	10.9	11.9	19.7	37.5	65.0	196.9	262.8	173.4	160.0	45.0	30.6
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°	1303.1	1303.1	1303.1	1303.1	1303.1	1303.1	1303.1	1303.1	1303.1	1303.1	1303.1
2.5°	1305.0	1308.8	1298.8	1289.1	1280.3	1268.1	1257.2	1248.1	1241.9	1240.9	1237.8
5°	1309.4	1309.7	1290.6	1265.0	1240.0	1212.5	1184.1	1163.8	1144.7	1134.1	1128.8
7.5°	1312.5	1309.7	1275.3	1233.8	1185.6	1135.6	1085.6	1045.6	1014.7	1002.5	1007.2
10°	1311.3	1302.5	1252.2	1185.6	1115.6	1040.9	969.1	912.8	861.3	834.7	835.3
12.5°	1304.4	1290.0	1217.8	1131.6	1028.8	928.8	818.8	742.8	683.1	647.8	636.9
15°	1298.4	1273.4	1177.5	1058.1	930.3	787.5	653.4	559.7	509.7	481.9	481.6
17.5°	1292.2	1257.5	1133.4	980.3	817.2	633.4	492.8	421.3	397.8	400.6	395.9
20°	1285.6	1238.8	1087.5	893.8	679.4	472.5	369.1	340.0	346.6	359.4	361.3
22.5°	1278.1	1218.8	1038.1	798.4	534.4	355.6	299.4	295.0	311.9	331.9	334.7
25°	1266.6	1193.8	975.9	698.8	412.2	286.6	262.2	265.3	281.9	298.8	300.6
27.5°	1250.3	1162.8	913.1	574.4	309.7	245.9	239.7	243.8	251.9	262.2	264.7
30°	1228.4	1127.8	840.9	466.9	248.1	225.6	223.1	225.3	230.0	234.4	235.6
32.5°	1206.6	1094.1	768.1	357.5	221.3	212.2	209.7	209.7	209.7	210.3	210.6
35°	1186.3	1062.2	690.0	278.4	207.2	201.6	198.1	194.4	193.8	191.6	191.6
37.5°	1175.0	1033.1	606.9	233.1	196.9	192.8	188.1	181.9	178.4	178.8	178.1
40°	1177.2	1014.1	531.3	207.5	188.4	184.1	176.9	169.7	167.5	167.5	166.9
42.5°	1201.9	1007.8	458.8	194.1	180.3	175.3	166.3	159.7	158.4	158.1	158.8
45°	1258.8	1023.1	393.8	185.3	173.4	165.9	156.9	150.9	149.7	149.7	149.4
47.5°	1369.7	1072.8	347.2	179.7	168.4	158.8	149.4	143.4	141.3	140.6	140.6
50°	1542.2	1180.6	312.5	174.7	162.2	152.2	142.5	135.6	132.2	131.9	131.6
52.5°	1781.9	1348.8	299.1	170.9	155.3	145.3	134.7	128.1	123.8	122.8	122.2
55°	2062.2	1583.4	317.5	168.1	148.1	137.5	126.6	119.7	115.6	113.8	113.4
57.5°	2386.9	1865.3	387.5	164.4	141.6	129.1	118.4	111.6	107.2	105.0	104.4
60°	2678.4	2155.0	509.7	162.2	135.9	120.0	109.1	102.8	98.8	96.6	96.3
62.5°	2998.8	2431.3	655.6	168.1	133.4	111.3	100.3	94.7	91.3	89.1	89.1
65°	3340.9	2707.8	752.2	188.1	137.2	104.4	90.9	86.3	83.1	81.6	81.3
67.5°	3571.6	2803.4	619.7	208.8	146.6	96.9	81.9	78.1	76.3	74.7	74.7
69°	3546.6	2682.5	457.2	214.1	149.4	93.1	76.9	74.1	71.6	70.9	70.3
70°	3467.5	2544.7	383.1	210.6	147.2	89.7	73.8	70.3	68.1	67.5	67.2
72.5°	3088.4	2206.9	285.3	183.1	125.3	77.8	65.3	62.2	60.3	59.4	59.4
75°	2565.9	1803.8	222.8	145.6	98.1	65.6	55.9	53.4	51.9	51.3	50.9
77.5°	1438.1	1007.2	160.0	114.1	74.4	53.1	46.9	44.7	43.1	42.5	42.5
80°	400.6	287.8	94.1	75.3	50.6	40.3	37.2	35.6	33.4	31.9	32.8
82.5°	150.9	124.7	53.8	45.3	32.2	26.9	25.9	24.7	23.8	21.6	21.6
85°	73.4	60.6	34.4	24.1	17.8	14.1	13.4	12.8	12.2	10.6	10.9
87.5°	25.3	26.9	15.0	8.8	5.3	3.4	2.8	1.6	1.6	1.6	1.6
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)