

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: P451546

Luminaire Tested: **GALN-SA2B-830-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451546
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9017 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): 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

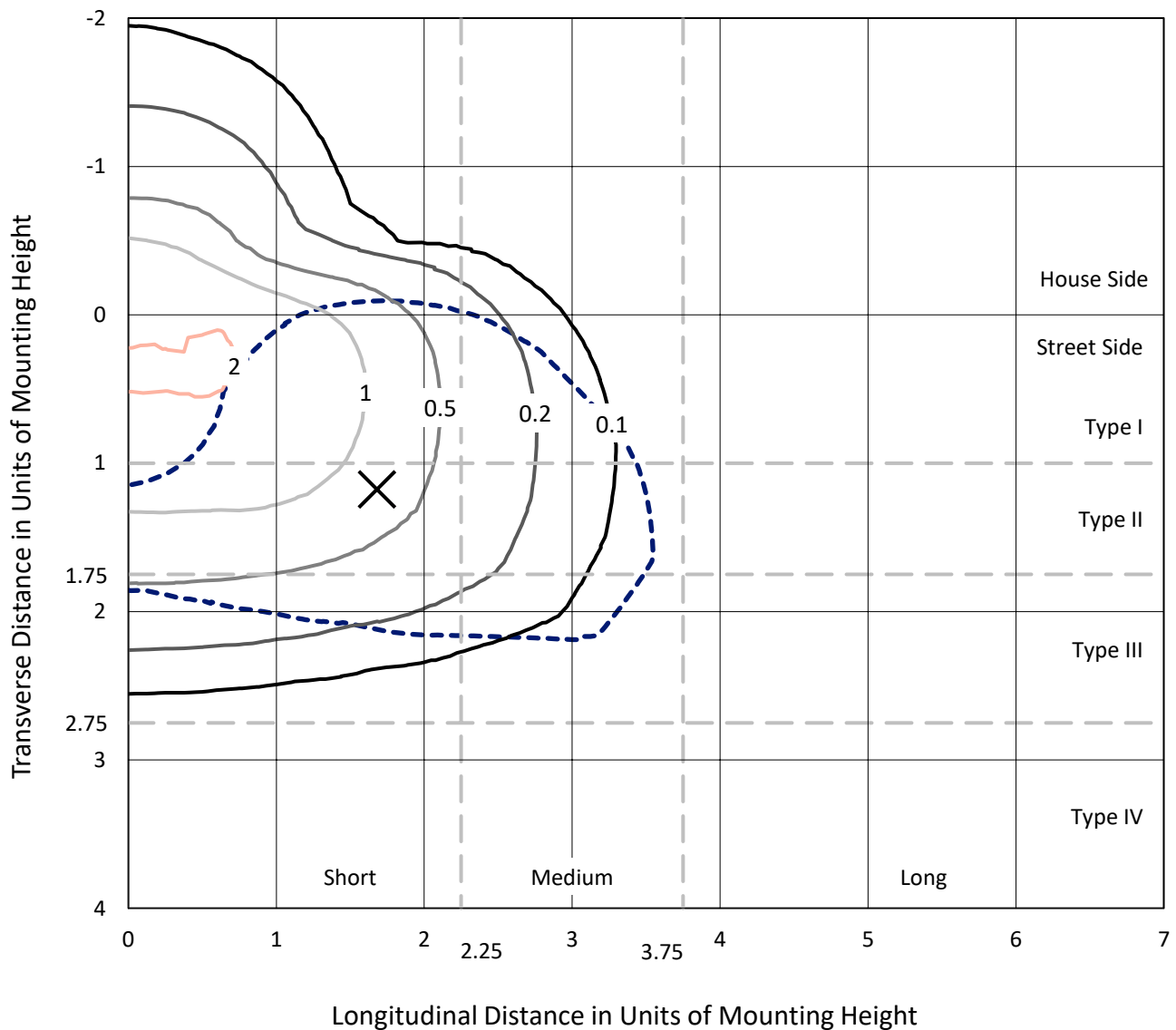


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

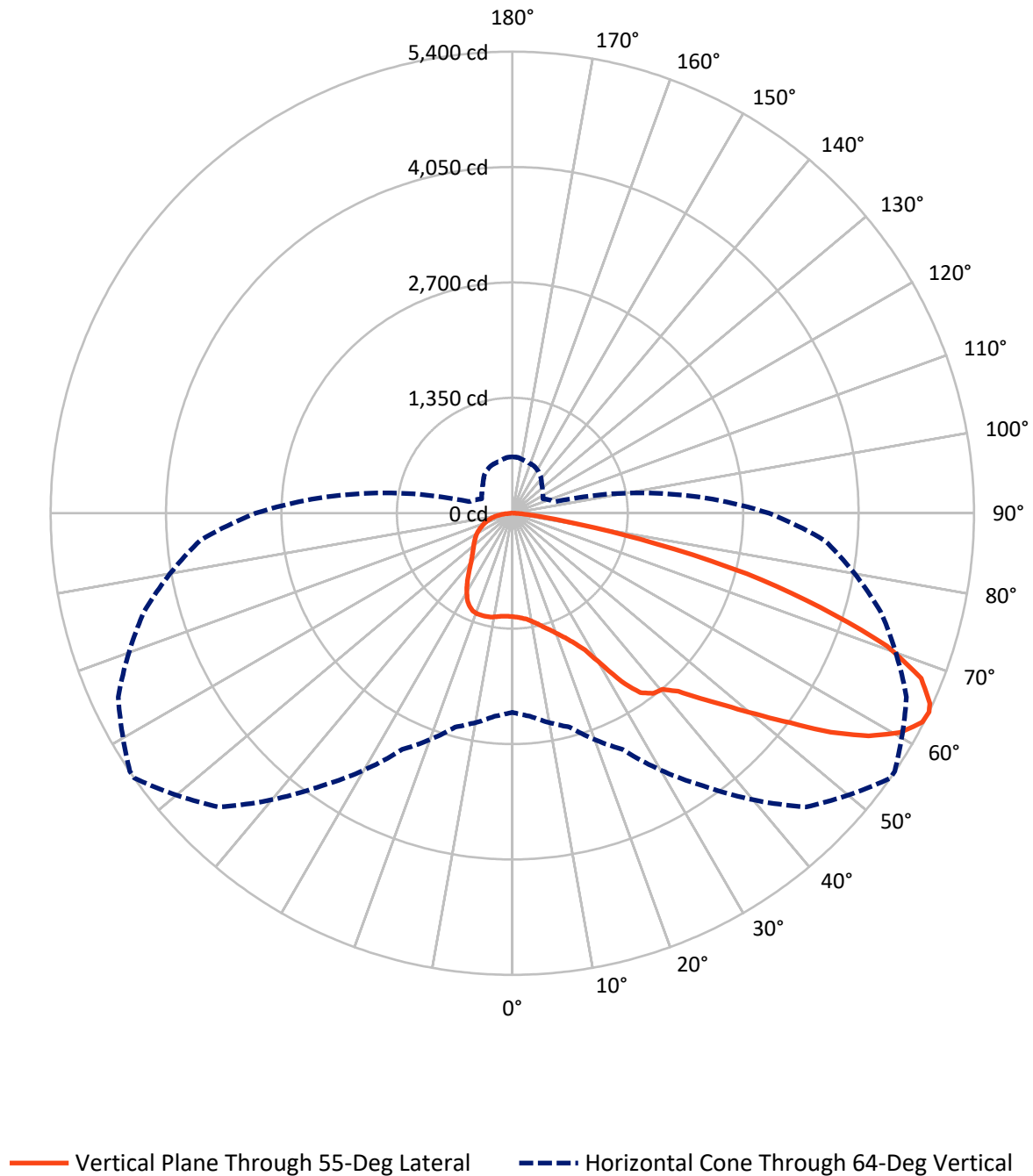


Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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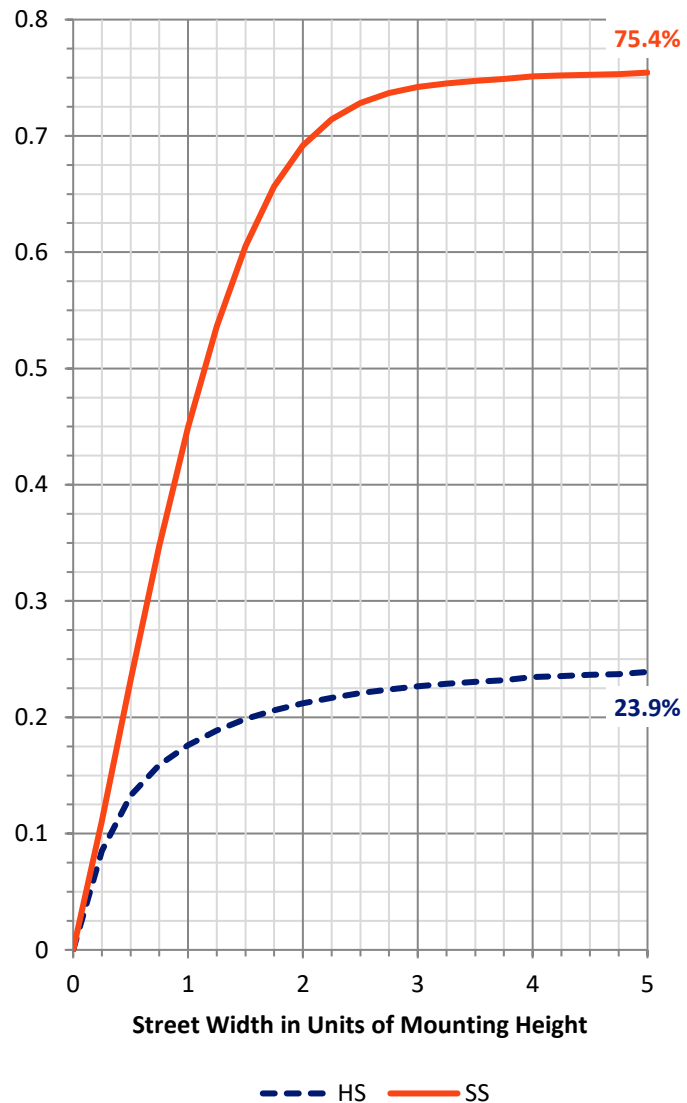
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2190.4	0.0	2190.4
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	6826.6	0.0	6826.6
	% Fixture	75.7	0.0	75.7
Total	Lumens	9017.0	0.0	9017.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.7	1.3
10°-20°	371.3	4.1
20°-30°	661.1	7.3
30°-40°	1017.1	11.3
40°-50°	1441.8	16.0
50°-60°	2087.0	23.1
60°-70°	2159.8	24.0
70°-80°	1011.5	11.2
80°-90°	149.7	1.7
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°	9017.0	100.0
0°-180°	9017.0	100.0

Coefficient of Utilization



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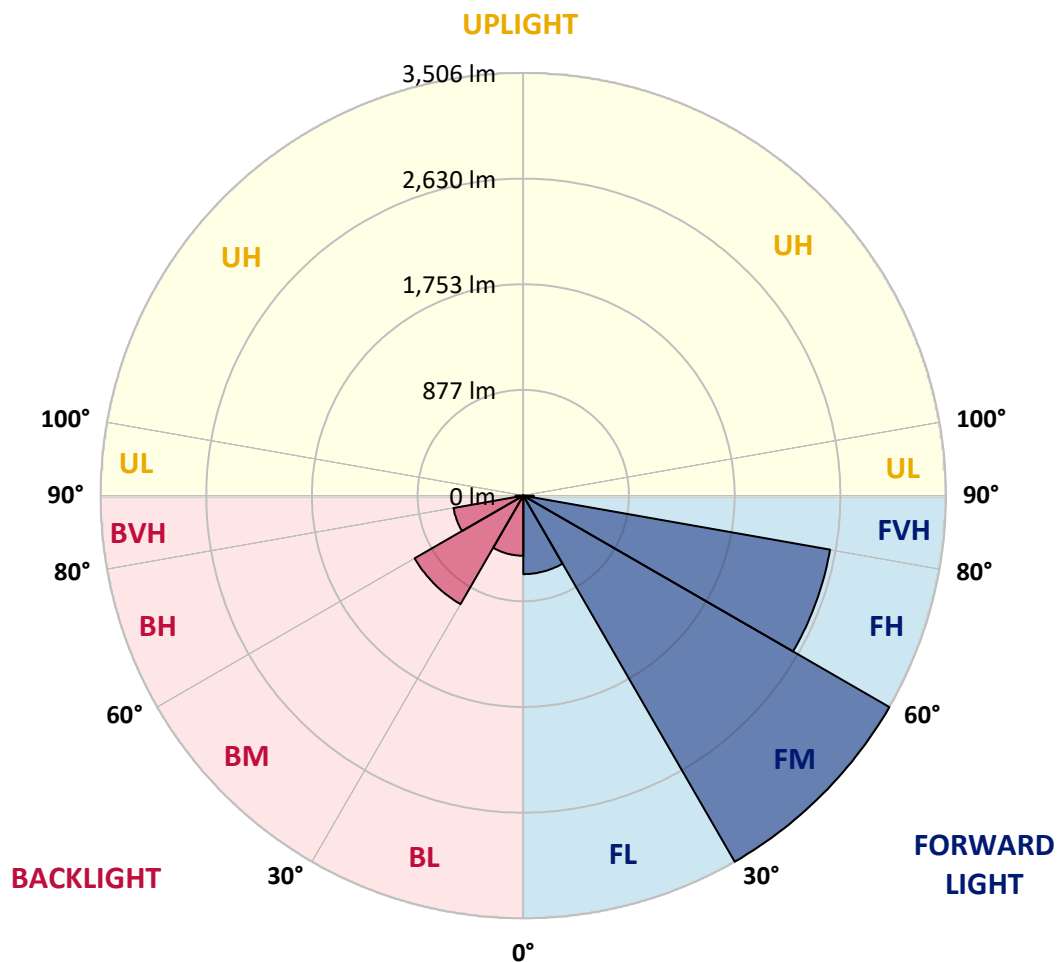
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	651.2	7.2			
FM	(30°-60°)	3506.1	38.9			
FH	(60°-80°)	2583.6	28.7			G2/5000
FVH	(80°-90°)	85.7	1.0			G1/100
BL	(0°-30°)	498.9	5.5	B1/500		
BM	(30°-60°)	1039.9	11.5	B2/2500		
BH	(60°-80°)	587.6	6.5	B2/1000		G2/1000
BVH	(80°-90°)	64.0	0.7			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1209.8	1209.8	1209.8	1209.8	1209.8	1209.8	1209.8	1209.8	1209.8	1209.8	1209.8
2.5°	1223.4	1222.9	1224.4	1222.9	1223.9	1220.4	1218.9	1219.9	1218.4	1215.8	1211.3
5°	1238.5	1238.0	1238.5	1236.4	1237.5	1235.4	1231.9	1232.9	1230.4	1224.9	1218.4
7.5°	1264.1	1262.1	1262.1	1261.6	1259.6	1256.6	1254.0	1253.0	1250.5	1243.5	1233.4
10°	1297.3	1297.3	1297.8	1293.7	1296.3	1290.7	1288.2	1287.7	1279.2	1270.1	1256.1
12.5°	1341.0	1343.5	1342.0	1340.0	1339.0	1337.0	1328.4	1330.4	1320.9	1305.3	1288.2
15°	1395.3	1399.3	1396.8	1395.8	1393.3	1385.7	1382.2	1380.7	1368.1	1345.5	1322.9
17.5°	1467.2	1462.1	1460.1	1457.6	1447.0	1441.5	1435.5	1434.5	1423.4	1396.8	1361.6
20°	1530.0	1537.0	1533.0	1530.5	1519.9	1509.4	1504.8	1503.3	1493.8	1464.6	1408.3
22.5°	1604.9	1606.4	1607.9	1601.9	1596.8	1588.8	1580.7	1578.2	1574.7	1544.6	1475.7
25°	1684.8	1690.8	1685.8	1679.8	1673.7	1673.2	1680.8	1679.8	1678.3	1649.1	1565.2
27.5°	1815.0	1820.5	1822.0	1815.5	1792.3	1794.4	1811.4	1817.0	1840.1	1791.8	1680.3
30°	1888.3	1893.9	1906.4	1931.1	1967.8	1999.9	2041.1	2053.7	2075.8	1984.9	1817.0
32.5°	1933.6	1935.6	1958.2	2004.0	2114.0	2234.2	2346.2	2350.8	2364.8	2237.2	1942.1
35°	2005.0	2006.5	2024.6	2074.8	2204.0	2404.0	2577.4	2583.0	2571.4	2315.6	2000.4
37.5°	2092.9	2096.9	2108.5	2150.2	2304.5	2546.3	2673.4	2669.4	2566.9	2377.9	2103.5
40°	2221.1	2221.1	2207.5	2263.8	2410.6	2627.7	2707.1	2700.1	2672.9	2558.3	2260.3
42.5°	2334.2	2332.2	2364.3	2402.5	2543.3	2753.4	2848.4	2859.9	2904.6	2785.0	2438.7
45°	2481.4	2490.5	2508.6	2577.9	2768.9	2968.0	3090.6	3101.7	3165.0	3051.9	2647.3
47.5°	2630.2	2633.2	2690.0	2782.5	3048.4	3259.0	3359.5	3377.6	3435.4	3364.0	2872.0
50°	2735.8	2764.4	2855.4	3001.2	3336.4	3613.8	3692.3	3713.9	3815.9	3703.8	3133.8
52.5°	2847.3	2875.5	2986.6	3208.7	3667.1	3976.7	4073.2	4087.8	4193.9	4047.6	3401.7
55°	2942.8	2969.0	3095.1	3392.7	3930.5	4347.2	4522.1	4505.0	4555.8	4312.5	3608.3
57.5°	2958.4	2979.5	3138.4	3510.3	4128.5	4664.8	4915.6	4925.7	4866.9	4510.5	3778.7
60°	2837.8	2881.0	3063.5	3497.7	4217.5	4886.0	5209.2	5216.2	5049.3	4612.1	3846.6
62.5°	2624.2	2619.7	2840.3	3295.7	4092.8	4936.2	5382.1	5374.5	5120.7	4563.3	3780.7
64°	2329.1	2383.4	2589.5	3047.4	3891.8	4858.8	5400.2	5396.1	5086.5	4461.8	3668.6
65°	2149.2	2146.2	2349.8	2844.3	3691.8	4742.2	5368.0	5362.5	5015.2	4370.8	3581.7
67.5°	1551.6	1558.6	1759.7	2194.9	3001.2	4286.4	5158.4	5137.8	4733.7	4069.2	3251.0
70°	939.9	943.9	1101.7	1456.1	2154.2	3465.1	4649.7	4650.8	4302.9	3618.9	2766.9
72.5°	495.1	505.6	569.0	826.8	1308.3	2431.2	3772.2	3861.6	3694.3	3088.6	2185.9
75°	275.4	276.9	321.7	407.6	667.5	1360.6	2835.3	2860.9	2924.8	2486.0	1616.4
77.5°	210.1	213.1	227.2	263.4	363.4	630.8	1715.9	1844.6	2061.2	1752.6	922.3
80°	170.4	173.4	185.5	207.1	241.8	299.1	797.2	866.5	1103.3	778.1	359.9
82.5°	132.7	130.7	146.3	160.3	175.9	176.9	327.2	361.9	449.3	334.7	155.8
85°	98.5	98.5	111.1	108.1	113.6	103.5	144.3	159.3	179.9	142.2	72.4
87.5°	39.2	43.2	72.9	65.3	50.8	40.7	53.3	56.3	62.3	55.8	30.2
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°	1209.8	1209.8	1209.8	1209.8	1209.8	1209.8	1209.8	1209.8	1209.8	1209.8	1209.8
2.5°	1211.8	1213.3	1209.8	1207.3	1206.3	1204.8	1203.3	1203.8	1205.8	1207.8	1207.3
5°	1217.9	1218.4	1212.3	1209.3	1207.3	1205.3	1205.3	1206.8	1210.8	1213.8	1213.8
7.5°	1232.9	1232.9	1224.4	1218.9	1215.8	1212.3	1211.3	1211.8	1214.8	1218.9	1219.4
10°	1256.6	1254.5	1243.5	1234.9	1229.4	1220.9	1213.3	1209.3	1210.8	1213.3	1213.3
12.5°	1285.2	1279.7	1265.6	1254.0	1240.5	1224.4	1208.8	1200.8	1200.3	1202.8	1201.8
15°	1315.9	1309.8	1290.2	1269.1	1245.5	1221.9	1203.3	1191.7	1182.7	1180.2	1185.7
17.5°	1351.5	1339.0	1311.8	1282.7	1247.5	1216.8	1187.7	1164.1	1148.0	1143.5	1145.0
20°	1394.8	1378.2	1341.5	1295.8	1246.0	1198.8	1153.5	1121.9	1095.7	1087.7	1088.7
22.5°	1454.6	1425.9	1372.2	1302.3	1233.4	1164.6	1101.7	1060.5	1028.9	1016.3	1023.8
25°	1522.4	1491.3	1401.3	1300.8	1200.8	1109.8	1040.4	986.6	958.0	939.4	943.4
27.5°	1615.9	1560.6	1432.5	1287.2	1154.0	1042.9	962.5	911.8	885.6	876.1	880.6
30°	1735.6	1650.6	1466.1	1250.5	1080.1	958.5	884.1	850.9	835.4	823.3	827.3
32.5°	1822.0	1713.9	1473.7	1188.7	1000.2	881.6	830.8	806.2	789.1	777.6	780.1
35°	1883.8	1767.7	1470.2	1112.8	916.8	818.3	788.6	768.5	740.9	715.7	711.2
37.5°	1966.8	1835.1	1444.5	1029.9	834.4	775.5	754.4	717.2	677.5	643.9	642.3
40°	2093.9	1914.0	1389.7	932.4	764.0	743.9	718.2	670.0	627.3	600.1	598.1
42.5°	2225.1	1986.9	1315.4	829.8	706.2	710.7	679.5	631.8	605.7	588.1	586.1
45°	2385.4	2065.8	1234.9	740.9	663.5	679.5	645.9	618.2	602.6	591.1	588.1
47.5°	2558.8	2146.7	1144.5	660.9	627.3	650.9	631.8	619.2	610.7	602.6	599.1
50°	2745.8	2237.2	1059.5	596.6	594.6	621.2	630.3	625.8	620.7	618.2	615.2
52.5°	2950.9	2329.6	988.2	551.4	566.0	600.1	630.8	634.3	634.3	632.8	630.8
55°	3089.6	2394.0	915.8	514.7	536.8	583.0	629.8	643.4	648.4	646.4	644.4
57.5°	3192.1	2429.2	824.8	483.0	512.2	566.5	624.3	644.4	649.4	651.9	650.9
60°	3213.3	2396.5	705.7	449.8	485.5	542.3	604.2	629.3	635.8	651.4	652.9
62.5°	3118.3	2296.0	587.1	417.2	452.9	505.6	577.0	612.2	625.3	649.4	651.9
64°	3001.7	2183.4	521.2	396.6	431.8	485.0	563.4	607.7	624.8	656.9	658.9
65°	2916.2	2101.5	480.0	383.5	418.2	471.5	555.9	609.2	629.3	668.5	671.5
67.5°	2601.6	1819.5	397.1	352.8	386.0	448.3	557.4	621.7	628.3	673.0	672.5
70°	2152.7	1448.6	332.7	324.7	354.9	429.7	551.4	601.6	602.1	631.8	624.8
72.5°	1611.9	1070.6	288.5	295.5	320.2	385.5	520.7	574.5	566.0	570.0	562.9
75°	1107.3	708.2	248.3	264.4	284.0	340.8	477.5	521.7	508.2	503.1	498.1
77.5°	591.1	391.5	206.6	233.7	246.8	294.5	416.7	459.4	445.3	425.7	419.2
80°	239.2	184.5	166.4	193.5	201.0	237.2	346.8	373.4	362.9	328.7	317.7
82.5°	120.1	110.6	130.7	152.3	152.8	169.4	257.8	283.0	259.4	217.6	208.1
85°	62.8	64.8	90.0	107.1	94.5	91.5	154.8	171.4	157.3	136.7	123.1
87.5°	22.6	26.1	47.2	46.7	33.2	17.6	34.2	16.6	9.0	5.5	7.0
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)