

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: P452704

Luminaire Tested: **GALN-SA3C-830-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452704
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3C-830-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16997 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 160
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



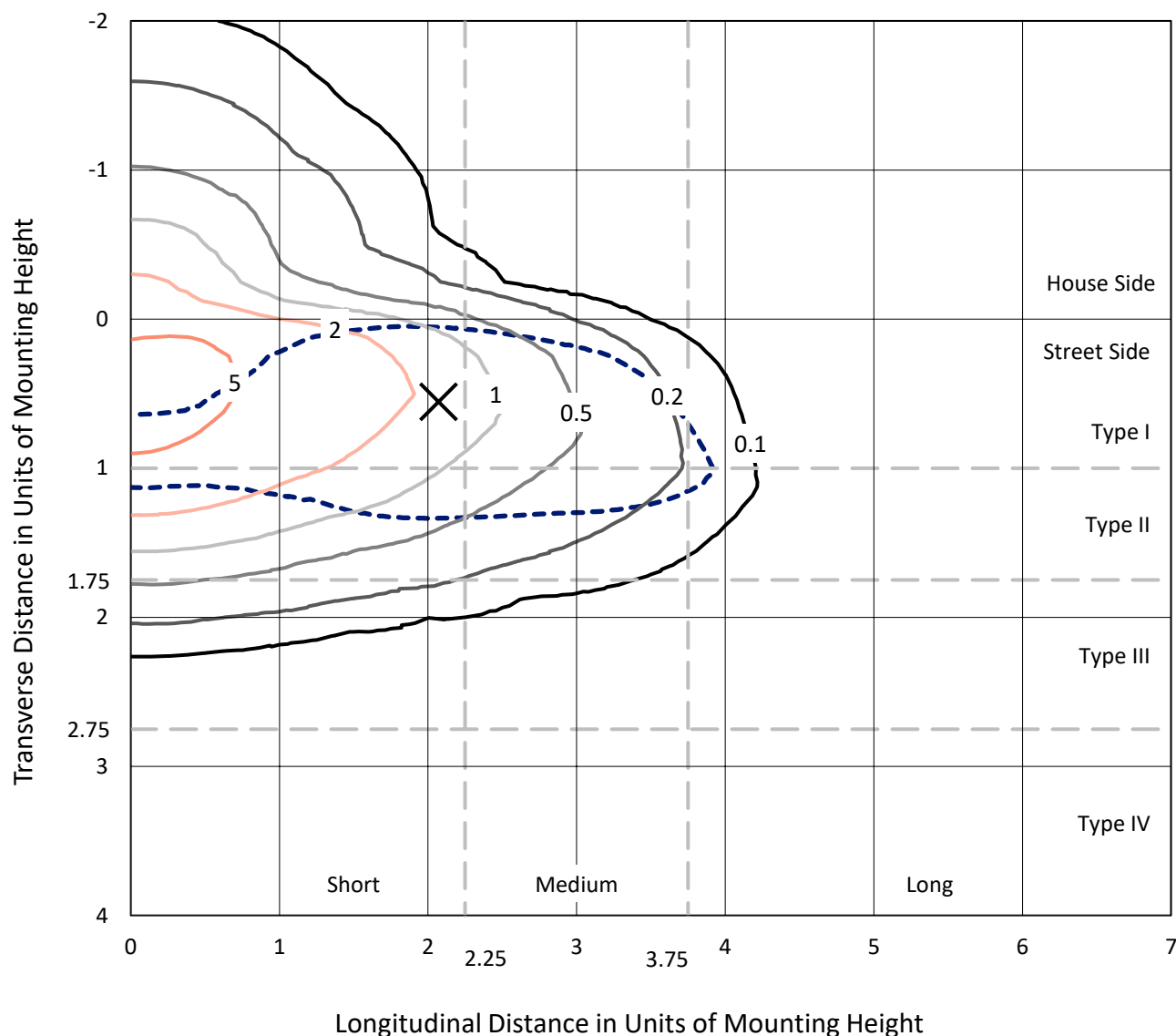
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

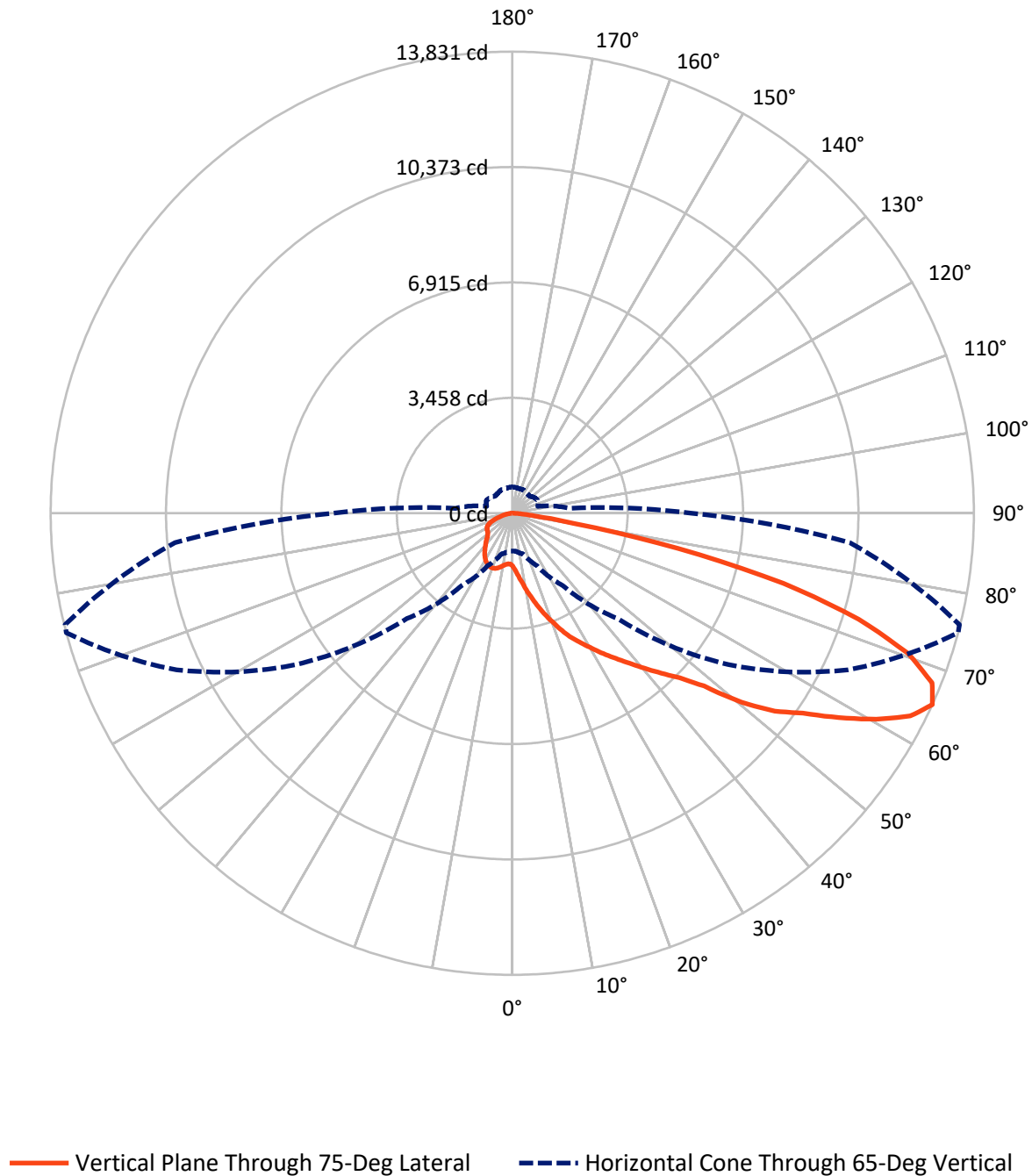


Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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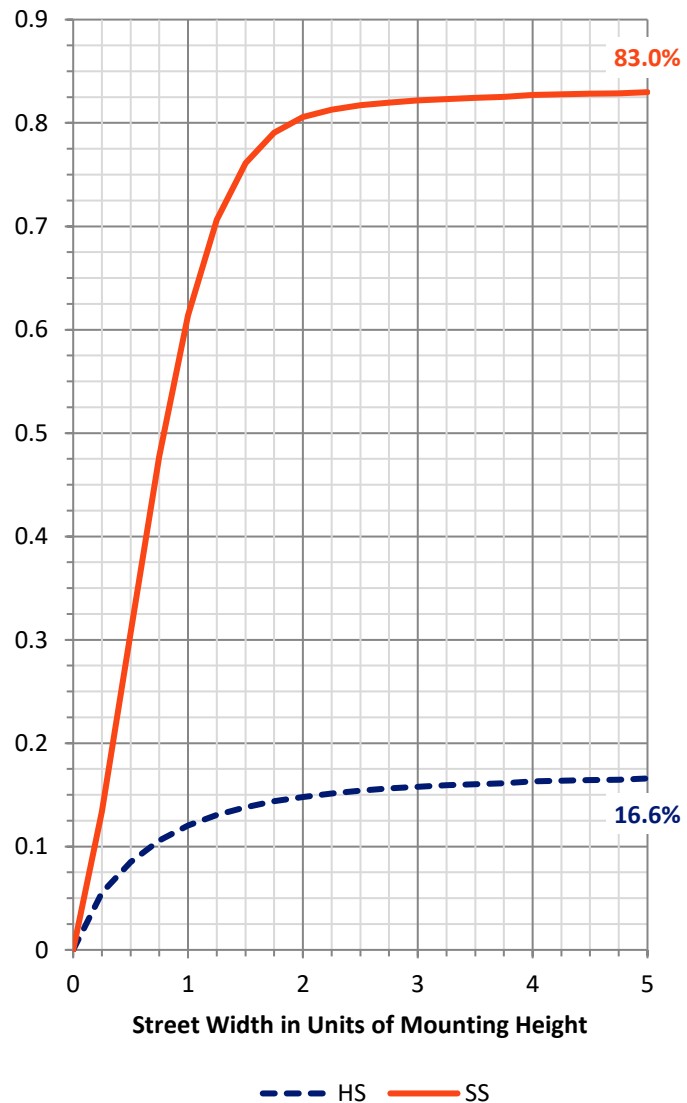
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2857.4	0.0	2857.4
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	14139.6	0.0	14139.6
	% Fixture	83.2	0.0	83.2
Total	Lumens	16997.0	0.0	16997.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.9	1.1
10°-20°	751.5	4.4
20°-30°	1451.7	8.5
30°-40°	2358.0	13.9
40°-50°	3243.7	19.1
50°-60°	3829.7	22.5
60°-70°	3355.4	19.7
70°-80°	1601.9	9.4
80°-90°	213.2	1.3
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°	16997.0	100.0
0°-180°	16997.0	100.0

Coefficient of Utilization



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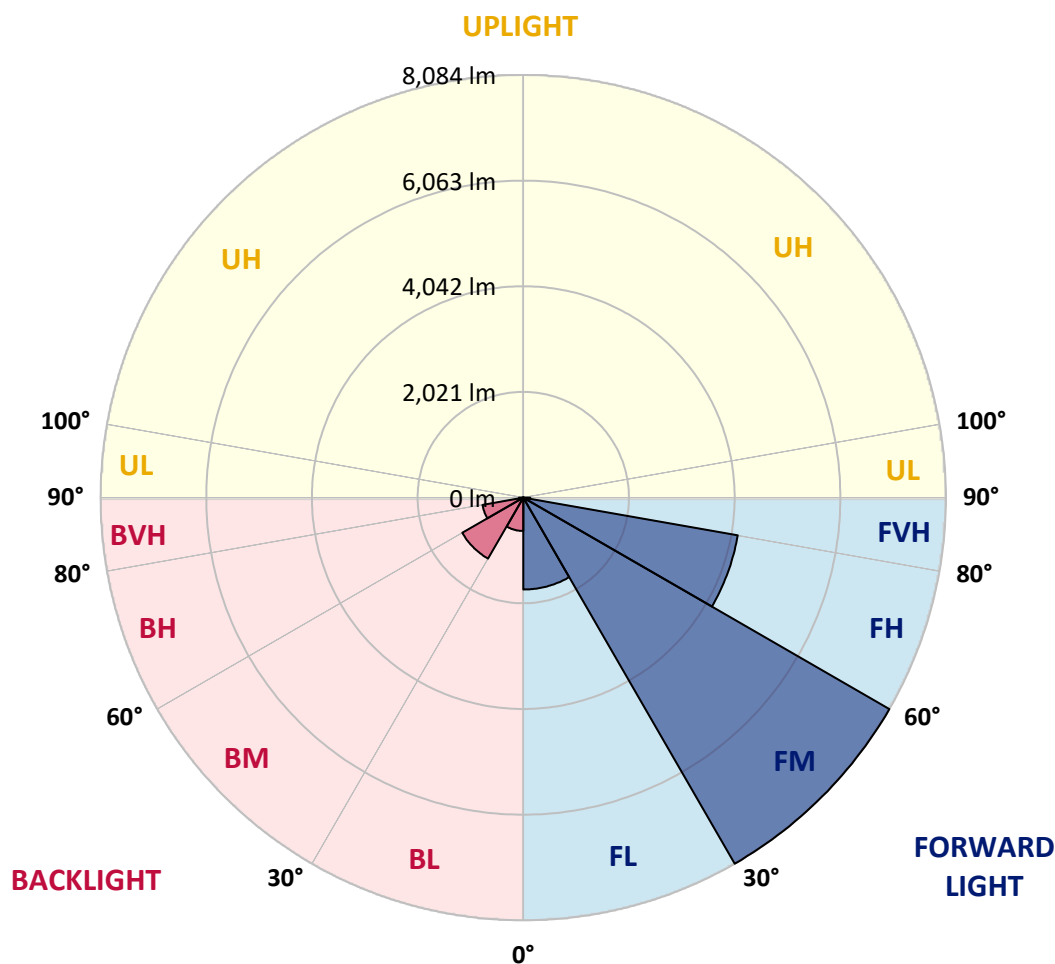
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1757.2	10.3			
FM	(30°-60°)	8084.1	47.6			
FH	(60°-80°)	4165.0	24.5			G2/5000
FVH	(80°-90°)	133.2	0.8			G2/225
BL	(0°-30°)	637.9	3.8	B2/1000		
BM	(30°-60°)	1347.3	7.9	B2/2500		
BH	(60°-80°)	792.3	4.7	B2/1000		G2/1000
BVH	(80°-90°)	79.9	0.5			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2
2.5°	2098.3	2084.4	2069.7	2029.1	1985.8	1936.9	1866.9	1799.6	1710.1	1707.4	1641.0
5°	2680.0	2670.8	2605.3	2567.5	2467.0	2333.4	2220.0	2043.9	1880.7	1861.3	1732.3
7.5°	3214.7	3178.8	3153.9	3085.6	2986.1	2814.6	2595.2	2357.3	2084.4	2058.6	1844.7
10°	3617.6	3613.9	3601.0	3542.0	3467.3	3296.8	3053.4	2712.3	2342.6	2291.9	1981.2
12.5°	3919.0	3921.8	3920.0	3919.0	3865.6	3720.8	3457.2	3097.6	2603.5	2567.5	2138.8
15°	4117.3	4144.9	4156.0	4202.1	4206.7	4109.9	3883.1	3470.1	2897.6	2844.1	2308.5
17.5°	4248.2	4262.0	4313.6	4392.0	4455.6	4438.1	4236.2	3814.9	3198.1	3108.7	2484.6
20°	4373.6	4397.5	4437.2	4544.1	4656.6	4708.2	4566.2	4168.0	3495.9	3438.7	2679.1
22.5°	4634.5	4668.6	4682.4	4736.8	4832.7	4923.9	4859.4	4506.3	3822.2	3744.8	2885.6
25°	5076.0	5112.0	5073.3	5060.4	5091.7	5136.9	5123.1	4825.3	4130.2	4019.5	3081.0
27.5°	5651.3	5655.9	5580.3	5508.4	5431.0	5407.9	5365.5	5108.3	4397.5	4305.3	3277.4
30°	6269.0	6246.9	6121.5	5991.5	5860.6	5731.5	5609.8	5381.2	4695.3	4589.3	3470.1
32.5°	6842.4	6830.4	6691.2	6489.3	6268.1	6146.4	5900.2	5656.9	5014.3	4911.9	3668.3
35°	7272.0	7289.6	7136.5	6916.2	6674.6	6566.8	6256.1	5946.3	5344.3	5232.8	3884.0
37.5°	7577.2	7568.0	7432.5	7241.6	7029.6	6935.5	6671.9	6262.6	5699.3	5592.3	4120.0
40°	7686.0	7680.5	7580.0	7440.8	7306.2	7273.0	7107.0	6603.7	6105.8	5980.4	4404.0
42.5°	7616.8	7628.8	7562.4	7524.6	7499.8	7523.7	7539.4	7050.8	6549.3	6434.0	4711.9
45°	7404.8	7398.3	7389.1	7450.9	7591.0	7748.7	7967.2	7473.0	7031.4	6939.2	5124.9
47.5°	7025.9	7072.0	7095.0	7265.6	7571.7	7945.0	8459.5	8039.1	7731.2	7651.0	5754.6
50°	6495.8	6532.7	6669.1	6972.4	7428.8	8018.8	8940.7	8964.7	8898.3	8748.0	6438.6
52.5°	5667.9	5725.1	6006.3	6562.2	7135.6	7988.4	9232.0	9758.4	9846.0	9733.6	7112.6
55°	4741.4	4821.6	5118.5	5847.7	6731.8	7822.4	9433.0	10218.5	10567.9	10463.7	7761.6
57.5°	3834.2	3919.0	4224.2	4930.4	6027.5	7455.5	9564.8	10731.1	11550.6	11415.1	8569.2
60°	2873.6	2962.1	3223.9	3951.3	5024.4	6738.3	9475.4	11175.4	12532.5	12474.4	9377.7
62.5°	1854.0	1951.7	2179.4	2781.4	3861.9	5758.3	8996.9	11420.7	13382.5	13312.4	9967.7
65°	1129.3	1140.4	1265.8	1726.7	2643.1	4458.4	7902.6	11095.2	13830.5	13809.3	10147.5
67.5°	730.2	747.7	804.8	1034.4	1584.8	3096.7	6318.8	10021.2	13568.7	13561.3	9776.0
70°	616.8	622.3	648.1	697.9	921.0	1877.9	4437.2	8309.2	12574.0	12574.0	8882.6
72.5°	551.3	558.7	567.9	583.6	657.3	1063.9	2647.7	6468.1	10856.4	10928.3	7560.6
75°	500.6	498.8	504.3	507.1	560.5	695.1	1369.0	4783.8	8398.6	8254.8	5475.2
77.5°	428.7	431.5	428.7	440.7	495.1	529.2	695.1	3210.1	5089.9	4903.7	2748.2
80°	352.2	356.8	361.4	368.8	423.2	402.0	417.6	1463.1	1882.5	1842.9	849.1
82.5°	264.6	271.0	278.4	295.9	332.8	265.5	263.7	625.1	679.4	622.3	312.5
85°	106.9	126.3	190.8	208.4	209.3	145.7	162.3	260.9	277.5	271.0	122.6
87.5°	24.9	29.5	61.8	93.1	85.7	54.4	59.9	84.8	96.8	89.4	41.5
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°	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2
2.5°	1610.6	1578.3	1523.0	1480.6	1450.2	1423.4	1406.8	1396.7	1393.0	1392.1	1393.0
5°	1665.0	1607.8	1520.2	1464.9	1434.5	1417.0	1406.8	1405.9	1406.8	1407.8	1405.0
7.5°	1739.6	1657.6	1543.3	1491.7	1468.6	1455.7	1451.1	1449.2	1450.2	1449.2	1449.2
10°	1839.2	1726.7	1588.5	1535.0	1515.6	1500.9	1493.5	1488.9	1485.2	1481.5	1479.7
12.5°	1948.9	1803.3	1637.3	1585.7	1558.0	1535.0	1518.4	1506.4	1498.1	1489.8	1488.0
15°	2071.5	1884.4	1691.7	1619.8	1580.2	1546.0	1517.5	1498.1	1483.4	1471.4	1470.5
17.5°	2188.6	1960.9	1728.6	1635.5	1577.4	1529.5	1491.7	1464.9	1446.5	1430.8	1429.0
20°	2314.0	2033.7	1745.2	1625.3	1549.7	1491.7	1441.9	1409.6	1388.4	1370.9	1368.1
22.5°	2440.3	2095.5	1743.3	1593.1	1501.8	1433.6	1381.0	1346.9	1322.0	1304.5	1298.1
25°	2561.1	2145.3	1720.3	1541.4	1435.4	1364.4	1311.0	1279.6	1257.5	1236.3	1236.3
27.5°	2669.9	2174.8	1677.0	1478.7	1367.2	1292.5	1250.1	1221.5	1201.3	1187.4	1179.1
30°	2776.8	2188.6	1618.0	1399.5	1295.3	1231.7	1197.6	1181.0	1162.5	1146.9	1145.0
32.5°	2872.7	2185.9	1544.2	1322.0	1227.1	1181.9	1168.1	1155.2	1135.8	1113.7	1108.1
35°	2965.8	2167.4	1456.6	1237.2	1169.9	1152.4	1156.1	1137.6	1102.6	1074.9	1070.3
37.5°	3067.2	2134.2	1360.7	1168.1	1122.0	1138.6	1147.8	1107.2	1050.1	1006.7	996.6
40°	3184.3	2096.4	1261.2	1098.9	1084.2	1125.7	1125.7	1051.0	972.6	945.9	938.5
42.5°	3321.7	2065.1	1178.2	1040.8	1052.8	1094.3	1089.7	976.3	944.0	930.2	926.5
45°	3539.2	2054.0	1092.5	990.1	1027.0	1057.4	1019.6	950.5	932.1	921.0	917.3
47.5°	3883.1	2066.9	1016.9	952.3	997.5	1020.6	941.3	933.0	920.1	904.4	902.6
50°	4202.1	2054.9	963.4	931.1	971.7	976.3	909.0	911.8	904.4	886.9	883.2
52.5°	4463.0	2017.1	929.3	920.1	949.6	898.9	878.6	888.7	886.0	863.8	860.1
55°	4749.7	1994.1	912.7	920.1	934.8	831.6	850.0	864.8	861.1	845.4	844.5
57.5°	5097.3	1998.7	900.7	922.8	920.1	797.5	821.4	838.9	838.0	833.4	833.4
60°	5453.1	2000.5	882.3	921.9	902.6	770.7	791.9	816.8	818.7	821.4	821.4
62.5°	5571.1	1920.3	846.3	905.3	863.8	744.9	764.3	798.4	796.5	803.9	804.8
65°	5350.8	1698.2	792.8	867.5	814.0	726.5	743.1	774.4	764.3	783.6	787.3
67.5°	4870.5	1405.0	709.9	799.3	758.7	707.1	729.2	741.2	722.8	760.6	761.5
70°	4209.5	1097.1	604.8	702.5	696.0	686.8	718.2	699.7	673.9	720.0	710.8
72.5°	3519.9	838.0	483.1	574.4	612.1	656.4	698.8	646.3	610.3	624.1	607.5
75°	2644.0	619.5	388.1	449.9	509.8	613.1	681.3	581.7	526.4	513.5	509.8
77.5°	1347.8	404.7	290.4	336.5	382.6	554.1	657.3	506.1	436.1	415.8	406.6
80°	481.2	251.7	204.7	232.3	258.1	476.6	574.4	418.5	338.3	334.7	338.3
82.5°	223.1	162.3	137.4	152.1	153.0	318.1	437.9	312.5	257.2	390.9	330.0
85°	95.9	81.1	77.4	75.6	70.1	142.0	246.2	167.8	261.8	117.1	107.9
87.5°	28.6	32.3	28.6	21.2	15.7	15.7	24.9	9.2	6.5	4.6	4.6
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)