

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: P452711

Luminaire Tested: **GALN-SA3C-830-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452711
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
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-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12065 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - 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

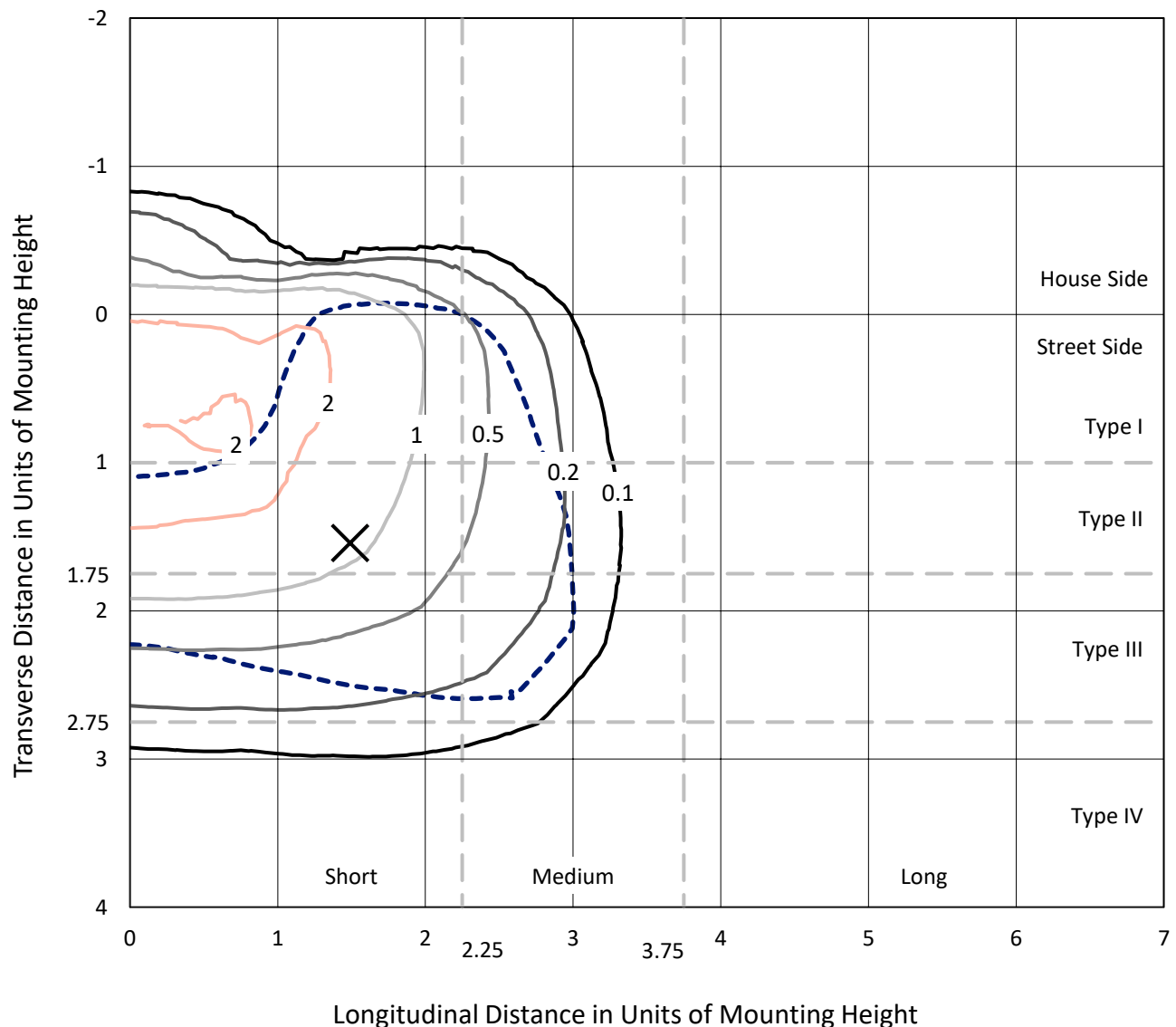


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Iso-Footcandle Lines of Horizontal Illumination

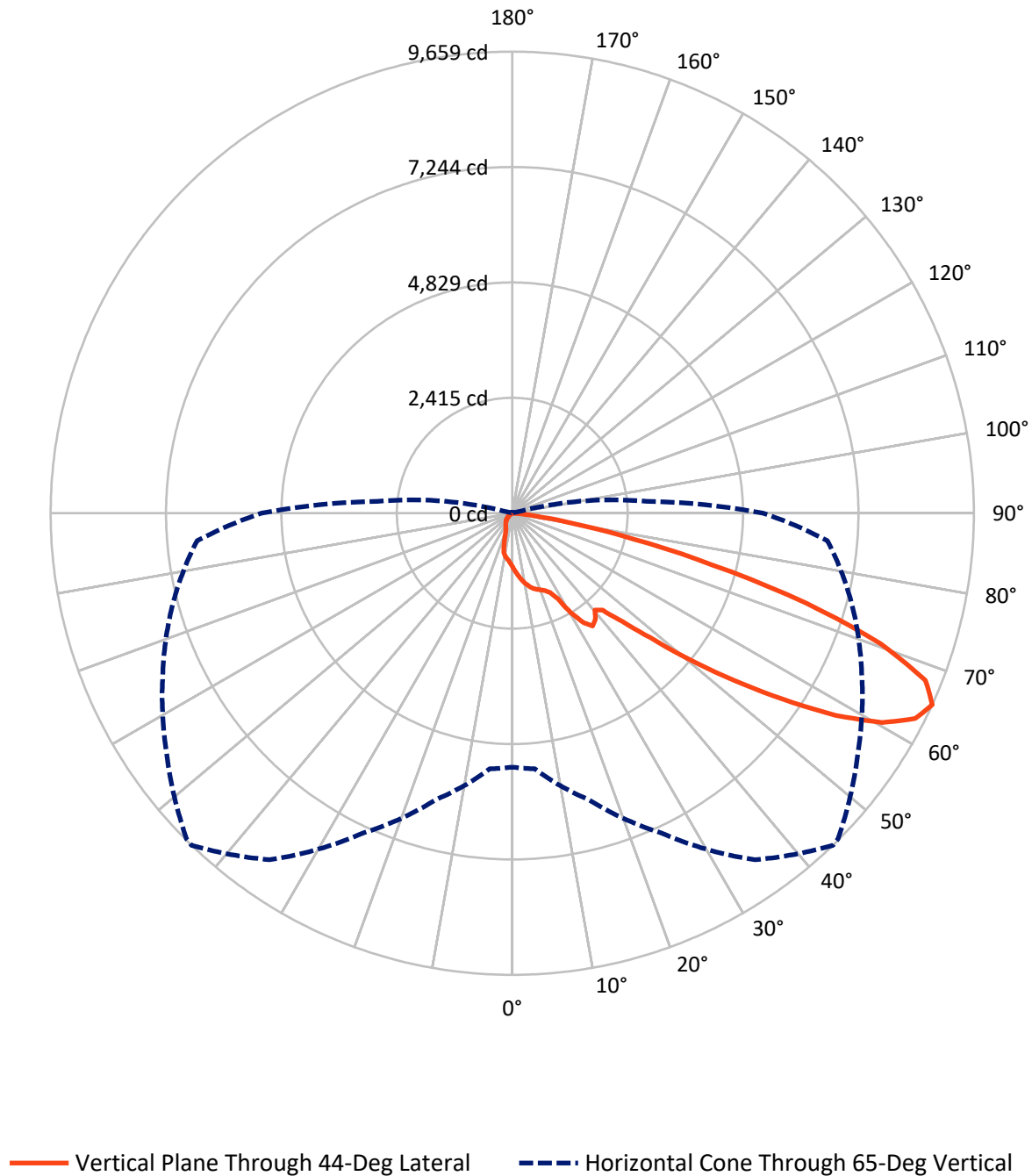
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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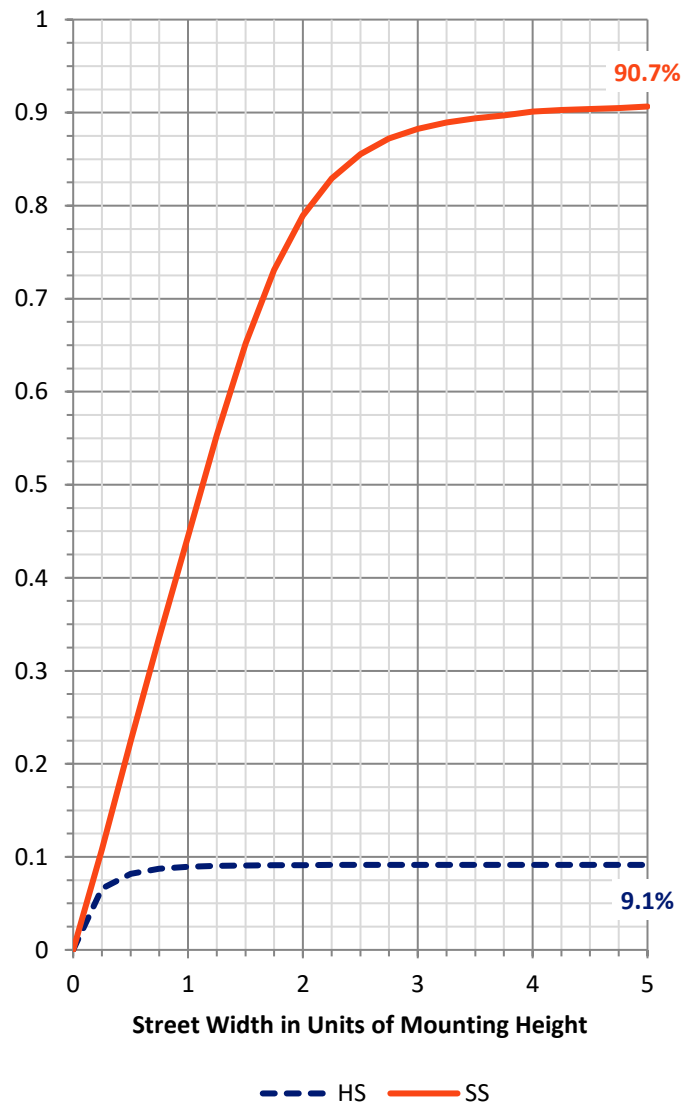
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1111.6	0.0	1111.6
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	10953.4	0.0	10953.4
	% Fixture	90.8	0.0	90.8
Total	Lumens	12065.0	0.0	12065.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.7	0.9
10°-20°	336.1	2.8
20°-30°	570.0	4.7
30°-40°	947.6	7.9
40°-50°	1654.6	13.7
50°-60°	3232.5	26.8
60°-70°	3750.5	31.1
70°-80°	1365.7	11.3
80°-90°	96.2	0.8
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°	12065.0	100.0
0°-180°	12065.0	100.0

Coefficient of Utilization



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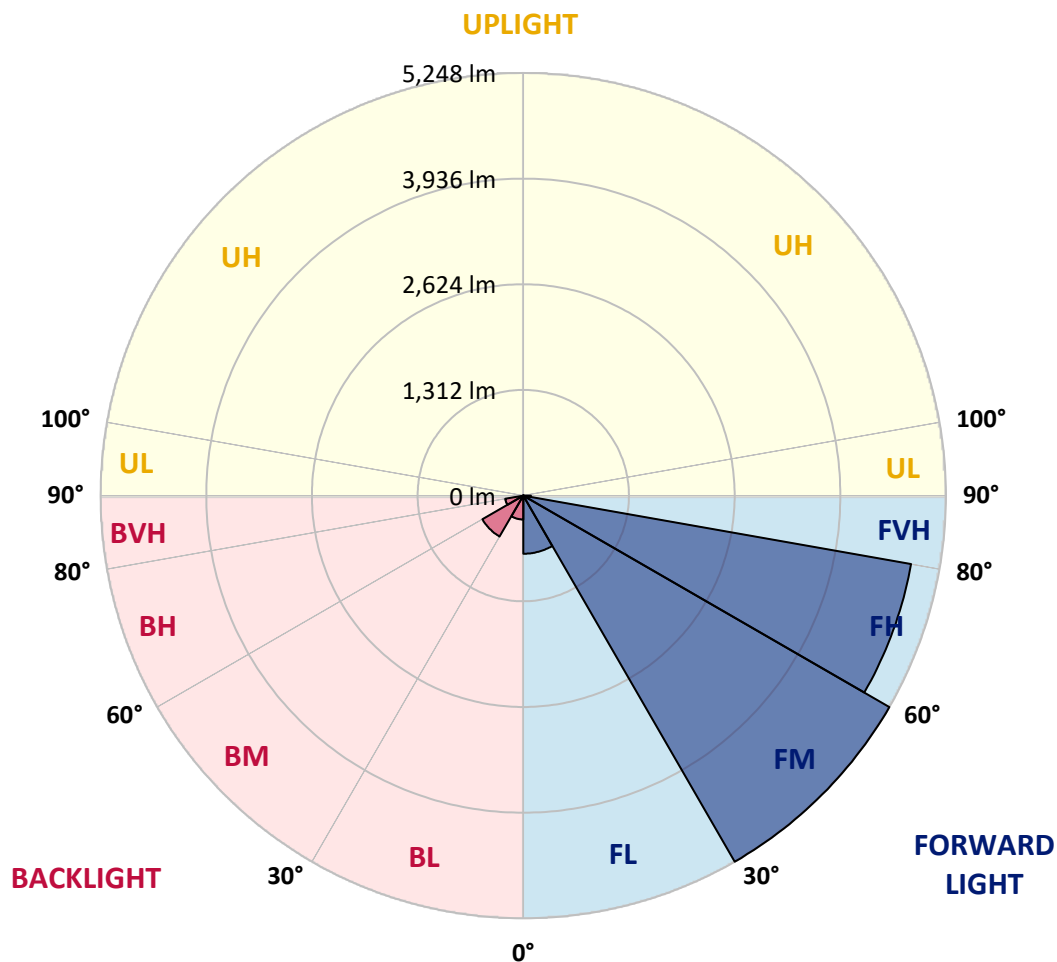
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	721.6	6.0			
FM	(30°-60°)	5248.3	43.5			
FH	(60°-80°)	4888.6	40.5			G2/5000
FVH	(80°-90°)	94.9	0.8			G1/100
BL	(0°-30°)	296.2	2.5	B1/500		
BM	(30°-60°)	586.5	4.9	B1/1000		
BH	(60°-80°)	227.6	1.9	B1/500		G1/500
BVH	(80°-90°)	1.3	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1122.9	1122.9	1122.9	1122.9	1122.9	1122.9	1122.9	1122.9	1122.9	1122.9	1122.9
2.5°	1263.9	1258.4	1255.6	1240.9	1229.8	1216.0	1216.0	1198.5	1178.2	1156.1	1135.8
5°	1405.0	1395.8	1383.8	1370.9	1345.1	1308.2	1308.2	1271.3	1228.9	1191.1	1149.6
7.5°	1540.5	1532.2	1511.9	1487.0	1444.6	1405.9	1403.2	1349.7	1299.0	1241.8	1182.8
10°	1659.4	1653.0	1635.5	1587.5	1543.3	1492.6	1491.7	1431.7	1372.7	1302.7	1229.8
12.5°	1742.4	1743.3	1720.3	1674.2	1617.0	1569.1	1565.4	1506.4	1444.6	1369.0	1279.6
15°	1801.4	1801.4	1777.5	1725.8	1674.2	1631.8	1628.1	1576.5	1512.9	1430.8	1334.0
17.5°	1818.0	1823.5	1797.7	1751.6	1710.2	1673.3	1672.4	1629.0	1578.3	1499.0	1389.3
20°	1811.6	1817.1	1796.8	1760.9	1732.3	1711.1	1708.3	1690.8	1643.8	1569.1	1448.3
22.5°	1797.7	1803.3	1788.5	1767.3	1753.5	1759.9	1755.3	1770.1	1745.2	1654.8	1518.4
25°	1800.5	1806.0	1795.0	1783.0	1795.0	1834.6	1846.6	1910.2	1888.1	1763.6	1594.0
27.5°	1887.2	1898.2	1882.5	1888.1	1930.5	2022.7	2045.7	2155.4	2057.7	1901.9	1712.0
30°	2079.8	2072.5	2043.0	2069.7	2217.2	2412.6	2406.2	2388.7	2235.6	2061.4	1852.1
32.5°	2255.0	2248.5	2246.7	2361.9	2629.3	2724.3	2719.6	2550.0	2395.1	2243.9	1990.4
35°	2326.0	2301.1	2295.6	2574.9	3022.0	2896.7	2868.1	2616.4	2588.7	2443.1	2131.5
37.5°	2539.9	2522.4	2436.6	2609.9	2865.3	2823.8	2801.7	2730.7	2795.2	2619.2	2291.0
40°	2980.5	2931.7	2854.2	2684.6	2643.1	2660.6	2682.8	2877.3	3039.6	2859.8	2503.9
42.5°	3528.2	3517.1	3373.3	3057.1	2746.4	2770.4	2798.9	3183.4	3390.8	3222.1	2851.5
45°	4185.5	4201.2	3993.7	3620.4	3212.9	3233.2	3274.6	3635.1	3866.5	3785.4	3398.2
47.5°	4782.9	4770.9	4700.8	4312.7	3936.6	3891.4	3958.7	4215.0	4524.8	4537.7	4076.7
50°	5384.0	5447.6	5343.4	5191.3	4912.0	4817.0	4792.1	4917.5	5389.5	5327.7	4891.7
52.5°	6247.8	6281.0	6085.6	6046.8	6110.4	5802.5	5777.6	5808.1	6230.3	6018.3	5502.0
55°	6790.8	6771.5	6698.6	7001.0	7252.7	6868.3	6836.9	6714.3	6928.2	6505.9	6089.2
57.5°	6962.3	6990.0	7159.6	7706.3	8301.8	7975.5	7918.3	7569.8	7431.6	6960.5	6629.5
60°	6885.8	6936.5	7302.5	8115.6	8941.6	8892.8	8843.9	8258.5	7792.9	7340.3	7008.4
62.5°	6340.9	6411.9	6997.3	8042.8	9158.3	9463.5	9402.6	8688.1	8033.6	7524.7	7074.8
65°	5313.9	5366.5	6207.2	7381.8	8850.4	9658.9	9636.8	8822.7	8071.4	7356.0	6620.3
67.5°	3788.1	3967.0	4746.0	6221.1	7939.5	9325.2	9363.0	8661.4	7716.4	6626.7	5482.6
70°	2381.3	2503.0	3061.7	4453.8	6364.9	8181.1	8305.5	7922.9	6696.8	5165.5	3670.1
72.5°	1135.8	1226.1	1624.4	2819.2	4492.5	6436.8	6535.5	6504.1	5178.4	3254.4	1893.6
75°	506.1	540.2	775.3	1439.1	2900.3	4326.5	4581.9	4624.3	3235.9	1592.1	736.6
77.5°	258.1	259.1	363.2	697.0	1448.3	2581.4	2632.1	2780.5	1754.4	701.6	256.3
80°	137.4	146.6	192.7	329.1	751.4	1271.3	1264.9	1390.2	778.1	343.9	85.7
82.5°	61.8	68.2	108.8	172.4	366.9	482.2	520.0	568.8	333.7	219.4	37.8
85°	18.4	22.1	53.5	86.7	132.8	139.2	155.8	201.0	189.0	155.8	19.4
87.5°	2.8	2.8	22.1	24.0	19.4	24.9	25.8	28.6	60.8	57.2	10.1
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°	1122.9	1122.9	1122.9	1122.9	1122.9	1122.9	1122.9	1122.9	1122.9	1122.9	1122.9
2.5°	1124.7	1118.3	1095.2	1075.9	1059.3	1049.1	1037.2	1029.8	1026.1	1023.3	1024.2
5°	1129.3	1113.7	1074.0	1042.7	1018.7	992.9	975.4	965.2	960.6	953.3	953.3
7.5°	1155.2	1130.3	1075.0	1027.0	985.5	950.5	917.3	905.3	897.0	895.2	893.3
10°	1192.0	1160.7	1085.1	1018.7	959.7	911.8	864.8	823.3	791.0	771.6	768.9
12.5°	1238.1	1193.0	1100.8	1013.2	937.6	852.8	728.3	644.4	588.2	570.7	573.4
15°	1280.5	1231.7	1116.4	1008.6	897.0	707.1	566.1	470.2	441.6	438.8	439.8
17.5°	1331.2	1273.2	1134.9	1002.1	785.5	540.2	420.4	394.6	400.1	409.3	408.4
20°	1383.8	1317.4	1157.0	963.4	626.9	406.6	371.5	374.3	382.6	390.9	392.7
22.5°	1440.0	1368.1	1182.8	870.3	478.5	354.0	352.2	355.9	364.2	373.4	375.2
25°	1517.5	1431.7	1202.2	748.6	362.3	327.3	331.0	337.4	344.8	354.9	356.8
27.5°	1617.0	1517.5	1212.3	590.0	313.5	303.3	304.2	313.5	322.7	331.9	331.9
30°	1746.1	1619.8	1192.0	446.2	289.5	280.3	276.6	282.1	294.1	303.3	304.2
32.5°	1861.3	1716.6	1138.6	341.1	272.0	259.1	249.8	250.8	255.4	260.9	261.8
35°	1976.6	1810.6	1047.3	286.7	253.5	238.8	224.9	217.6	213.9	211.1	213.9
37.5°	2124.1	1927.7	925.6	260.9	237.9	219.4	200.1	184.4	171.5	163.2	165.0
40°	2314.0	2090.0	781.8	244.3	223.1	201.0	175.2	154.9	132.8	125.4	121.7
42.5°	2627.5	2336.1	630.6	230.5	208.4	181.6	149.4	121.7	101.4	94.0	95.9
45°	3122.5	2646.8	485.8	215.7	193.6	160.4	125.4	95.9	79.3	75.6	77.4
47.5°	3778.9	3048.8	374.3	199.1	175.2	137.4	98.6	75.6	65.5	64.5	63.6
50°	4396.6	3423.1	312.5	180.7	153.0	114.3	81.1	63.6	57.2	56.2	56.2
52.5°	4955.3	3691.3	254.4	159.5	129.1	94.0	68.2	56.2	50.7	47.9	47.9
55°	5452.2	3866.5	206.5	133.7	101.4	74.7	59.0	50.7	44.3	40.6	39.6
57.5°	5827.4	3887.7	154.9	106.9	75.6	58.1	50.7	44.3	36.9	32.3	30.4
60°	5987.8	3704.3	114.3	81.1	56.2	46.1	40.6	36.0	27.7	23.0	22.1
62.5°	5826.5	3347.5	84.8	61.8	43.3	34.1	28.6	26.7	19.4	13.8	12.9
65°	5248.5	2832.1	67.3	47.0	32.3	24.9	18.4	17.5	12.0	6.5	5.5
67.5°	4204.9	2218.1	53.5	35.0	23.0	16.6	12.0	11.1	6.5	1.8	1.8
70°	2734.4	1417.9	43.3	25.8	14.8	11.1	7.4	5.5	3.7	0.9	0.0
72.5°	1352.4	662.9	35.0	20.3	10.1	5.5	2.8	1.8	2.8	0.0	0.0
75°	524.6	236.0	25.8	13.8	5.5	2.8	1.8	0.0	0.9	0.0	0.0
77.5°	174.2	78.4	15.7	7.4	3.7	1.8	0.0	0.0	0.0	0.0	0.0
80°	64.5	30.4	8.3	4.6	1.8	0.9	0.0	0.0	0.0	0.0	0.0
82.5°	25.8	12.0	5.5	3.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.9	7.4	3.7	2.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.2	5.5	3.7	2.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0
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)