

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: P534185

Luminaire Tested: **GALN-SA9C-830-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534185
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9C-830-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29561 lumens
Efficiency: N/A
Efficacy: 61.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

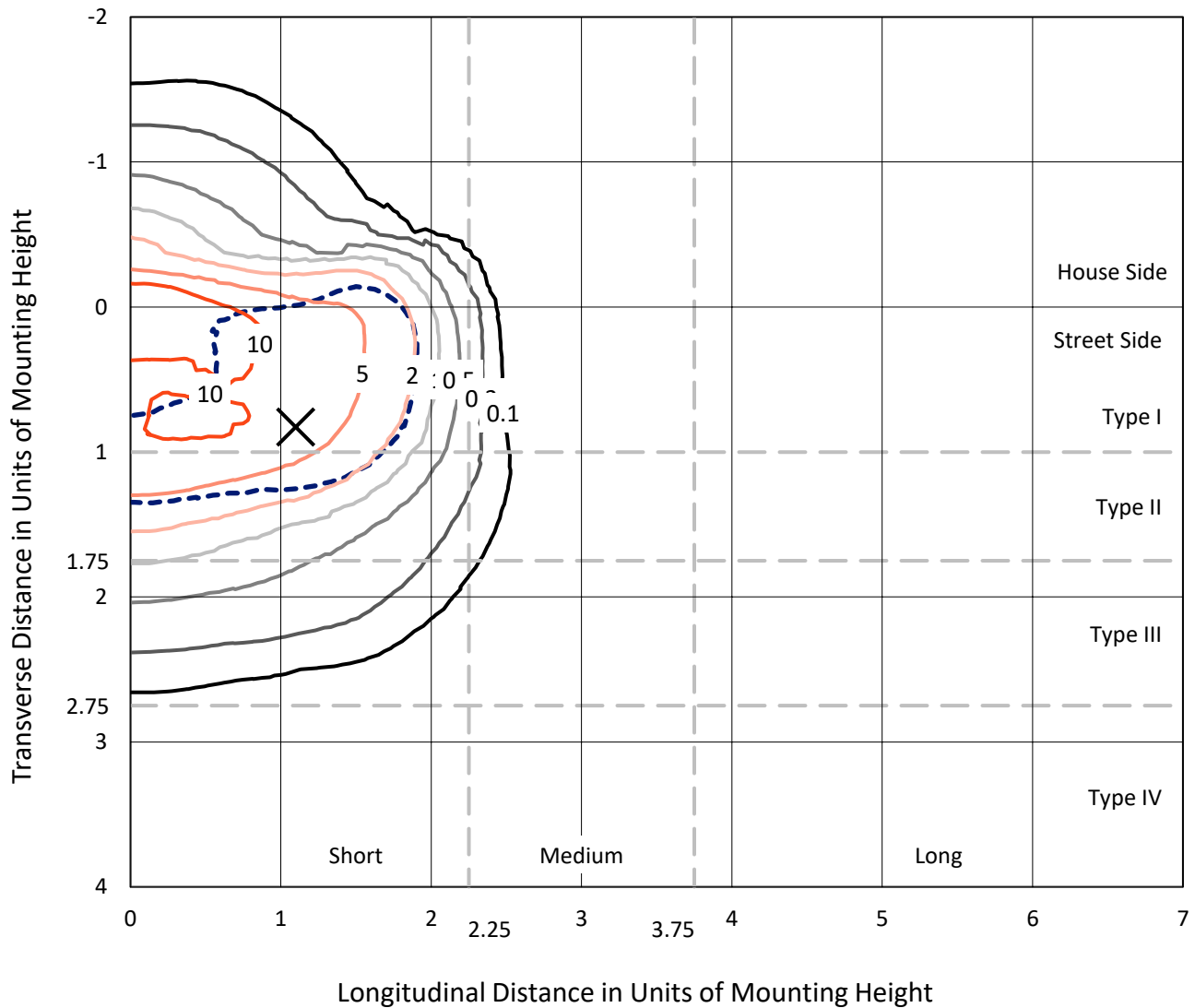
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

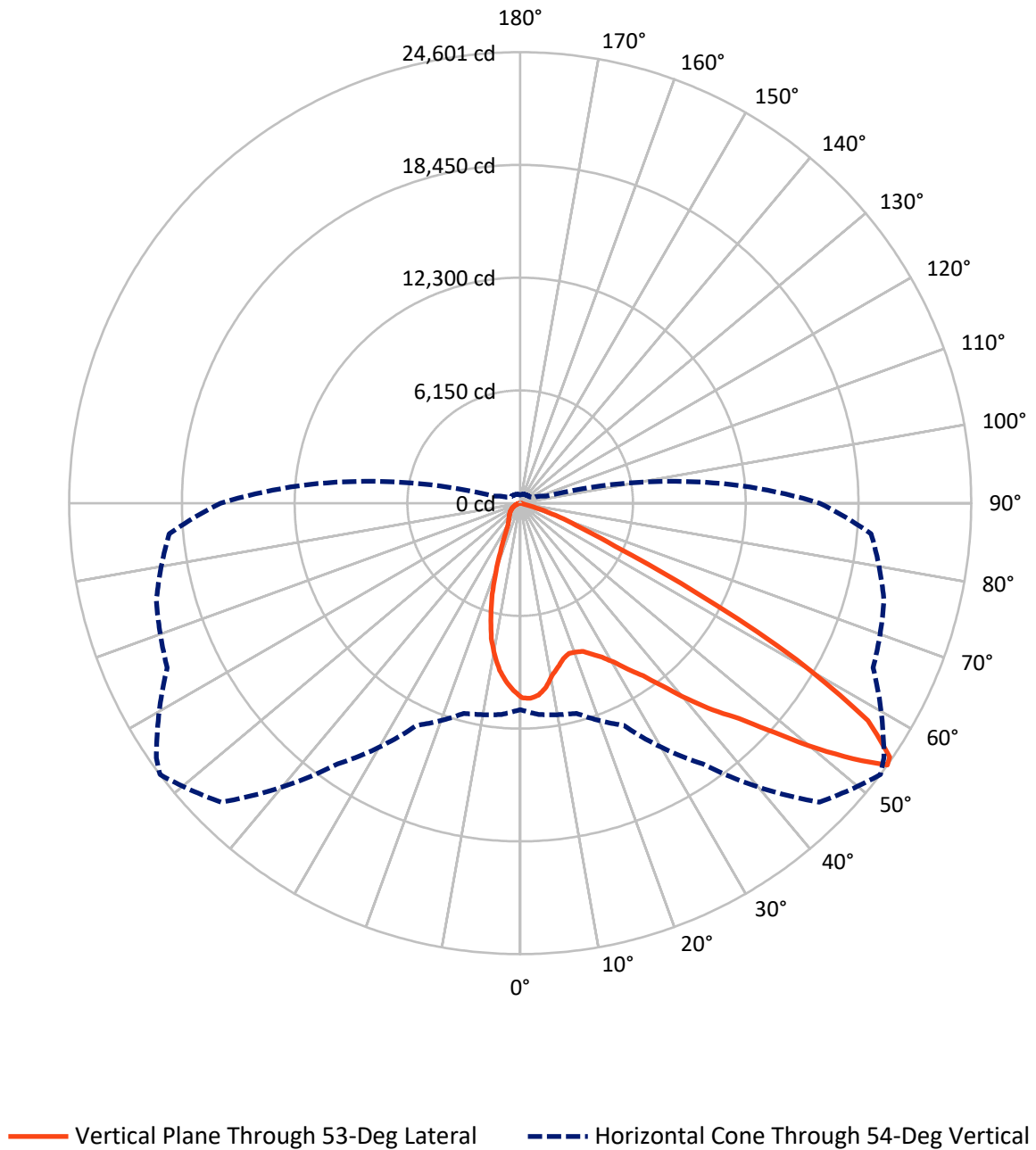
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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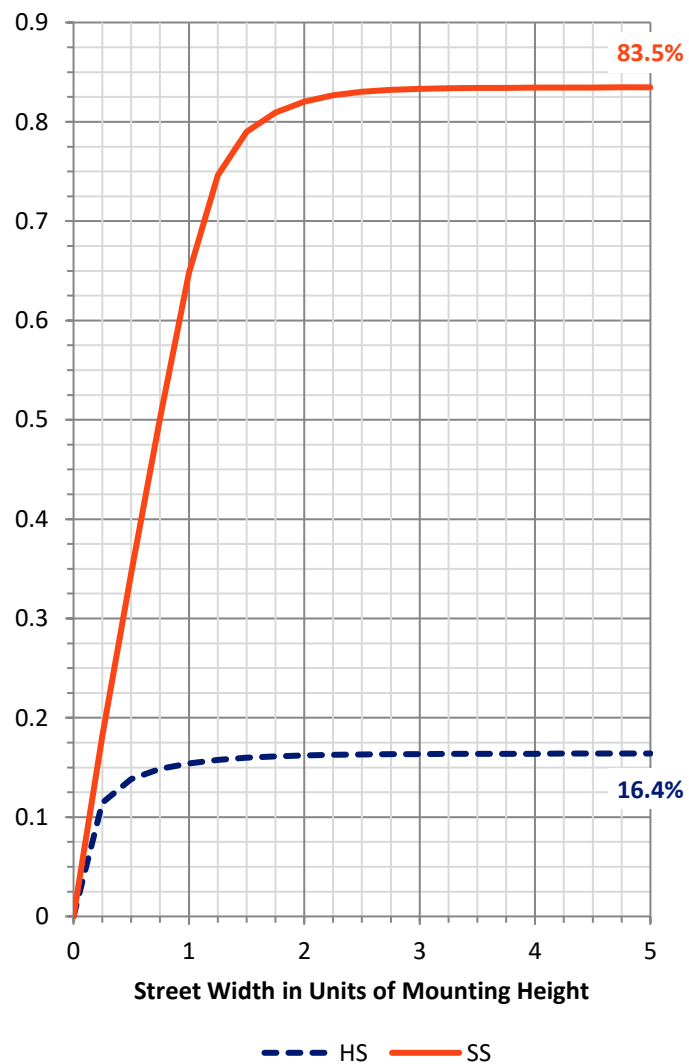
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4890.9	0.0	4890.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	24670.1	0.0	24670.1
	% Fixture	83.5	0.0	83.5
Total	Lumens	29561.0	0.0	29561.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	911.0	3.1
10°-20°	2088.6	7.1
20°-30°	2968.4	10.0
30°-40°	4580.9	15.5
40°-50°	7182.5	24.3
50°-60°	8343.5	28.2
60°-70°	3152.7	10.7
70°-80°	299.8	1.0
80°-90°	33.7	0.1
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°	29561.0	100.0
0°-180°	29561.0	100.0

Coefficient of Utilization



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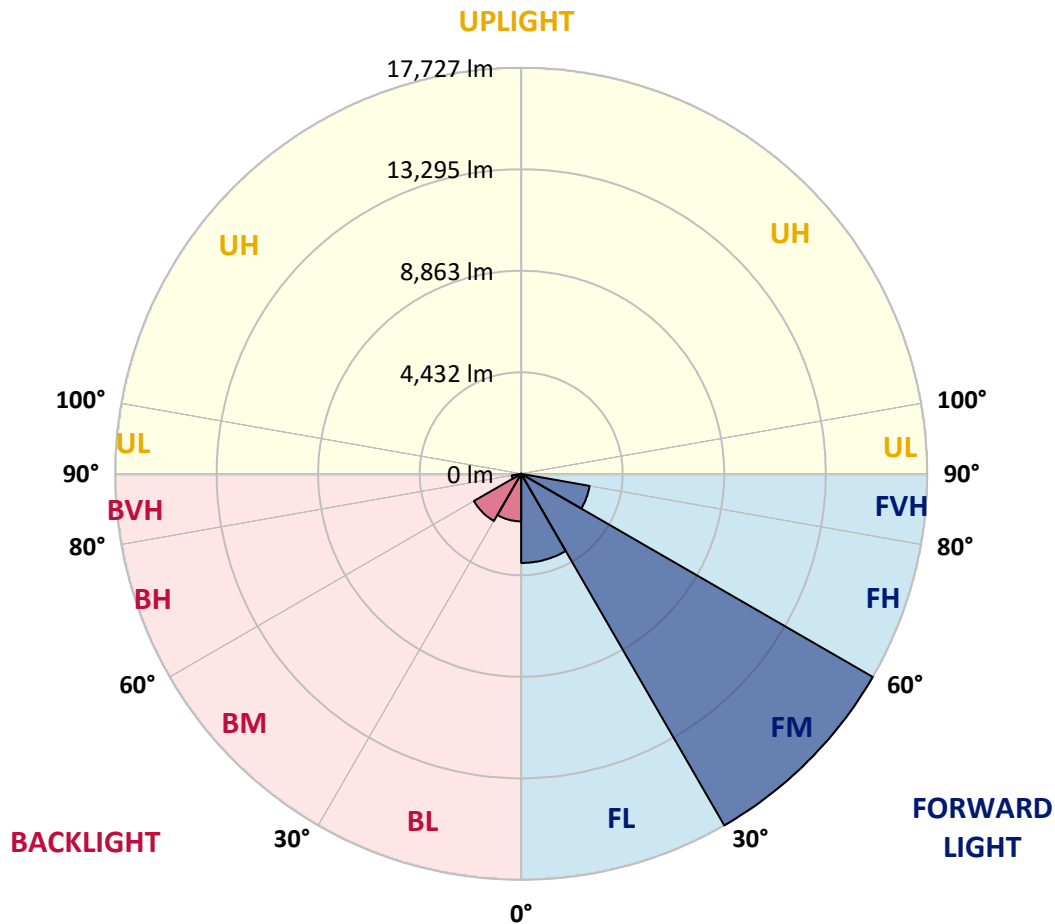
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3892.4	13.2			
FM	(30°-60°)	17726.8	60.0			
FH	(60°-80°)	3033.4	10.3			G2/5000
FVH	(80°-90°)	17.4	0.1			G1/100
BL	(0°-30°)	2075.5	7.0	B3/2500		
BM	(30°-60°)	2380.1	8.1	B2/2500		
BH	(60°-80°)	419.0	1.4	B1/500		G1/500
BVH	(80°-90°)	16.3	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	10617.8	10617.8	10617.8	10617.8	10617.8	10617.8	10617.8	10617.8	10617.8	10617.8	10617.8
2.5°	10562.7	10469.1	10562.7	10573.8	10639.8	10700.4	10661.9	10750.0	10700.4	10645.3	10628.8
5°	9709.1	9835.8	9841.3	10039.6	9995.5	10359.0	10518.7	10474.6	10744.5	10728.0	10689.4
7.5°	8943.6	8894.1	8960.2	9191.5	9483.3	9901.9	10133.2	10127.7	10513.2	10788.5	10761.0
10°	8233.2	8227.7	8365.4	8547.1	8794.9	9235.5	9554.9	9714.6	10314.9	10733.5	10794.0
12.5°	7754.1	7732.1	7880.8	8029.4	8420.5	8761.9	9169.4	9246.5	9934.9	10540.7	10639.8
15°	7440.2	7489.7	7500.8	7787.1	8035.0	8486.5	8806.0	8965.7	9758.7	10386.5	10766.5
17.5°	7385.1	7451.2	7456.7	7693.5	7957.9	8337.8	8618.7	8833.5	9610.0	10463.6	10772.0
20°	7495.3	7456.7	7489.7	7638.4	7897.3	8260.7	8668.3	8739.9	9560.4	10502.2	10832.6
22.5°	7809.2	7798.1	7715.5	7836.7	8018.4	8398.4	8783.9	8894.1	9703.6	10700.4	10882.2
25°	8156.1	8216.7	8139.6	8123.1	8249.7	8624.2	9136.4	9279.6	10182.7	11058.4	11036.4
27.5°	8806.0	8745.4	8745.4	8668.3	8635.2	8817.0	9516.4	9753.2	10716.9	11521.0	11212.6
30°	9428.3	9494.4	9444.8	9472.3	9252.0	9235.5	10056.1	10348.0	11664.2	12225.9	11587.1
32.5°	10414.0	10325.9	10408.5	10336.9	10045.1	9747.7	10788.5	11091.4	12809.7	13035.5	12148.8
35°	11234.6	11196.1	11548.5	11537.5	11063.9	10772.0	11565.0	12016.6	13608.2	14004.7	12809.7
37.5°	12402.1	12330.5	12732.6	12925.3	12501.3	12066.2	12677.5	13200.7	14351.7	14781.2	13487.0
40°	13602.7	13784.4	14324.1	14643.5	14192.0	13613.7	14037.8	14197.5	14847.3	15287.9	13949.6
42.5°	15122.7	15387.0	15937.7	16213.1	16174.5	15546.7	15420.1	15414.6	15205.3	15144.7	14291.1
45°	16582.1	16482.9	17331.0	17931.3	18416.0	18234.2	16752.8	16587.6	15772.5	15359.5	14379.2
47.5°	17220.9	17187.9	17766.1	18834.5	20486.7	20712.4	18691.3	18052.5	16730.8	16262.7	14858.3
50°	16394.8	16565.6	17138.3	18322.3	20855.6	22579.4	21070.4	20211.3	17848.7	17364.1	15992.8
52.5°	13696.3	13812.0	14357.2	15860.6	19600.0	23680.8	23350.4	22854.7	19902.9	19098.8	17969.9
54°	11262.2	11570.6	11867.9	13376.9	17364.1	23069.5	24600.5	24220.5	21241.1	20541.7	19214.5
55°	9808.3	9990.0	10204.8	11708.2	15816.6	22034.2	24457.3	24490.4	22138.8	20993.3	20051.6
57.5°	7164.8	7291.5	7071.2	7737.6	10860.1	17892.8	22370.1	23262.3	23350.4	21670.7	20563.8
60°	5474.1	5529.2	5281.4	5386.0	6751.8	12281.0	17303.5	18377.4	21064.9	18939.1	17419.2
62.5°	4246.0	4257.0	4251.5	4433.3	4653.6	7225.4	10821.6	11774.3	14522.4	13448.5	11829.4
65°	3128.1	3078.5	3166.6	3717.3	3970.7	4543.4	5699.9	6393.8	7891.8	6663.7	4763.7
67.5°	2026.6	2043.2	2131.3	2764.6	3403.4	3486.0	3508.1	3453.0	3458.5	1905.5	1195.1
70°	1217.1	1244.6	1217.1	1564.0	2434.2	2500.3	2285.5	2230.4	1740.3	451.6	446.1
72.5°	721.4	682.9	611.3	671.9	1013.3	1211.6	1090.4	1084.9	682.9	264.3	264.3
75°	302.9	275.4	225.8	203.8	269.9	258.8	258.8	231.3	181.7	176.2	165.2
77.5°	60.6	60.6	44.1	49.6	66.1	77.1	93.6	93.6	110.1	110.1	104.6
80°	0.0	5.5	16.5	33.0	49.6	71.6	82.6	82.6	93.6	93.6	77.1
82.5°	0.0	5.5	16.5	33.0	44.1	66.1	82.6	82.6	93.6	99.1	82.6
85°	0.0	5.5	16.5	27.5	44.1	55.1	55.1	49.6	38.6	33.0	22.0
87.5°	0.0	0.0	5.5	11.0	5.5	11.0	11.0	11.0	11.0	11.0	11.0
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°	10617.8	10617.8	10617.8	10617.8	10617.8	10617.8	10617.8	10617.8	10617.8	10617.8	10617.8
2.5°	10667.4	10661.9	10529.7	10314.9	10265.4	10083.6	10061.6	9951.4	10012.0	9808.3	9786.2
5°	10579.3	10513.2	10353.5	10215.8	9813.8	9527.4	9301.6	9026.2	8866.5	8894.1	8789.4
7.5°	10705.9	10535.2	10254.3	9775.2	9285.1	8783.9	8514.1	7952.3	7748.6	7445.7	7401.6
10°	10573.8	10447.1	10012.0	9219.0	8541.6	7820.2	7186.8	6564.5	6090.9	5887.2	5843.1
12.5°	10562.7	10342.5	9615.5	8734.4	7754.1	6718.7	5799.0	5022.5	4554.4	4290.1	4229.5
15°	10392.0	10127.7	9169.4	7985.4	6630.6	5341.9	4339.6	3590.7	3232.7	3078.5	3122.6
17.5°	10408.5	10012.0	8723.3	7192.4	5523.7	3921.1	2962.9	2577.4	2483.7	2522.3	2522.3
20°	10392.0	9753.2	8183.6	6278.2	4229.5	2720.5	2175.3	2037.7	2098.2	2219.4	2191.9
22.5°	10303.9	9632.0	7688.0	5314.4	3111.5	2015.6	1745.8	1751.3	1844.9	1993.6	2026.6
25°	10370.0	9362.2	7060.2	4339.6	2269.0	1608.1	1514.5	1553.0	1652.1	1762.3	1784.3
27.5°	10320.4	9169.4	6404.8	3370.4	1657.7	1382.3	1376.8	1420.8	1464.9	1547.5	1547.5
30°	10375.5	8993.2	5760.5	2505.8	1365.8	1266.6	1244.6	1277.7	1321.7	1338.2	1332.7
32.5°	10579.3	8861.0	5017.0	1872.4	1206.1	1156.5	1156.5	1156.5	1151.0	1173.0	1178.5
35°	11025.3	8883.1	4361.7	1448.4	1101.4	1062.9	1046.4	1024.3	1013.3	1024.3	1029.8
37.5°	11510.0	8872.0	3684.3	1233.6	1024.3	991.3	952.7	919.7	914.2	925.2	908.7
40°	11724.8	8976.7	3056.5	1106.9	952.7	914.2	853.6	826.1	831.6	842.6	831.6
42.5°	12016.6	9009.7	2648.9	1007.8	886.7	826.1	787.5	754.5	749.0	765.5	760.0
45°	12011.1	8822.5	2219.4	952.7	826.1	760.0	710.4	682.9	682.9	693.9	699.4
47.5°	12363.6	8794.9	1905.5	903.2	782.0	715.9	655.4	633.3	627.8	627.8	616.8
50°	13184.2	9180.4	1663.2	848.1	726.9	666.4	616.8	589.3	567.2	556.2	550.7
52.5°	14786.7	10381.0	1475.9	782.0	666.4	616.8	572.7	550.7	523.2	495.6	490.1
54°	16339.8	11620.1	1464.9	726.9	616.8	583.8	545.2	534.2	501.2	462.6	451.6
55°	17039.2	12341.6	1503.5	682.9	583.8	561.7	528.7	517.7	484.6	440.6	435.1
57.5°	17617.4	12622.4	1481.4	567.2	528.7	523.2	495.6	479.1	440.6	380.0	369.0
60°	14180.9	9543.9	1062.9	501.2	484.6	473.6	451.6	440.6	391.0	324.9	319.4
62.5°	8960.2	5490.6	677.4	440.6	424.1	407.5	380.0	369.0	324.9	258.8	242.3
65°	3816.5	2274.5	457.1	391.0	363.5	335.9	313.9	297.4	258.8	192.8	187.2
67.5°	991.3	809.6	380.0	341.4	302.9	264.3	247.8	220.3	176.2	132.2	126.7
70°	446.1	407.5	319.4	286.4	242.3	203.8	181.7	154.2	115.7	88.1	82.6
72.5°	264.3	258.8	242.3	214.8	181.7	154.2	132.2	104.6	77.1	49.6	49.6
75°	165.2	159.7	165.2	148.7	126.7	115.7	99.1	71.6	44.1	22.0	22.0
77.5°	99.1	99.1	99.1	93.6	88.1	88.1	71.6	44.1	22.0	5.5	5.5
80°	77.1	77.1	82.6	77.1	77.1	77.1	60.6	33.0	11.0	0.0	0.0
82.5°	77.1	82.6	93.6	88.1	77.1	66.1	55.1	33.0	11.0	0.0	0.0
85°	22.0	16.5	27.5	38.6	55.1	49.6	38.6	27.5	11.0	0.0	0.0
87.5°	11.0	11.0	11.0	11.0	5.5	5.5	5.5	5.5	5.5	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)