

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: P457678

Luminaire Tested: **GALN-SA9A-740-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457678
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-740-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33930 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 274
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

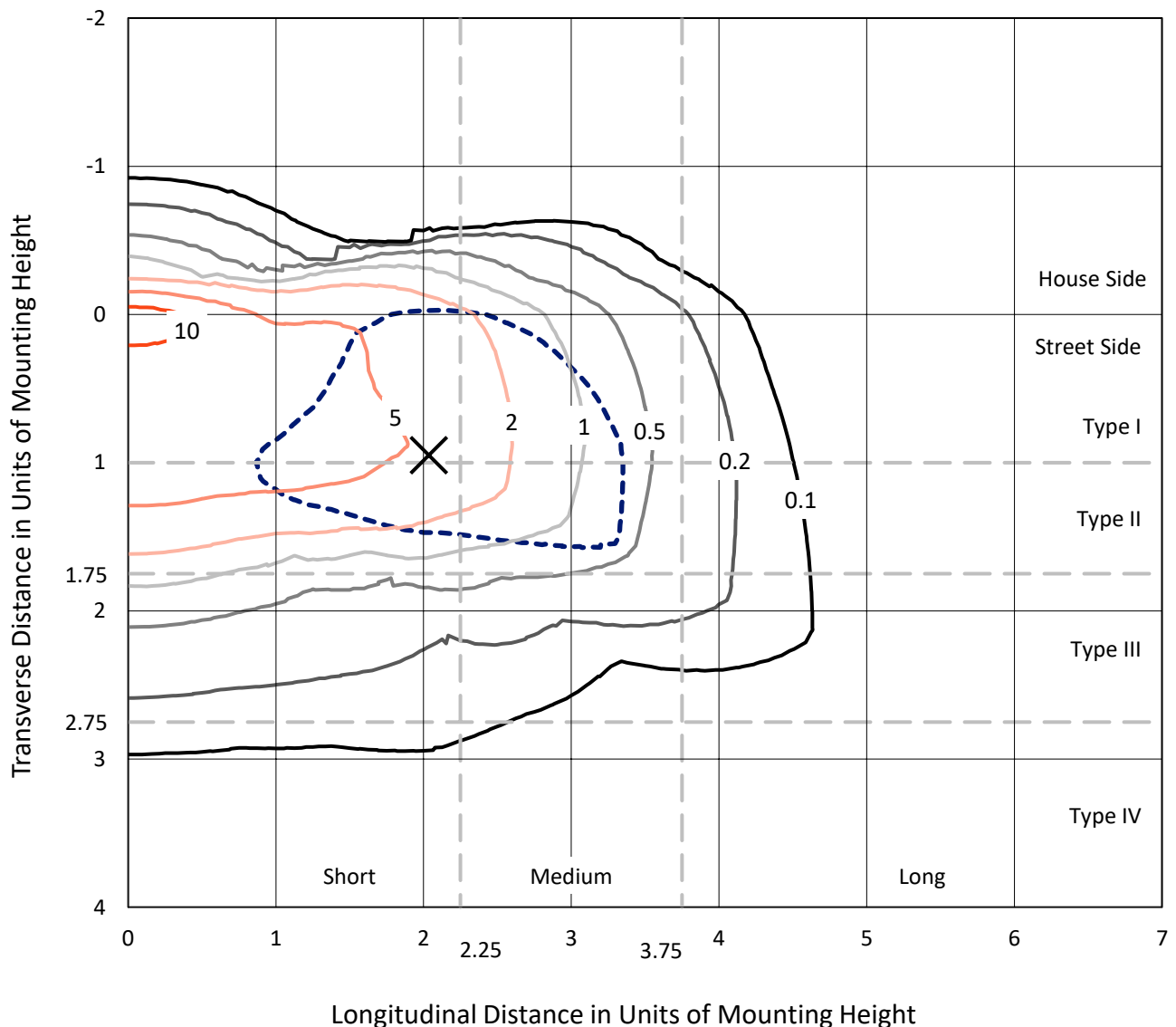




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Iso-Footcandle Lines of Horizontal Illumination

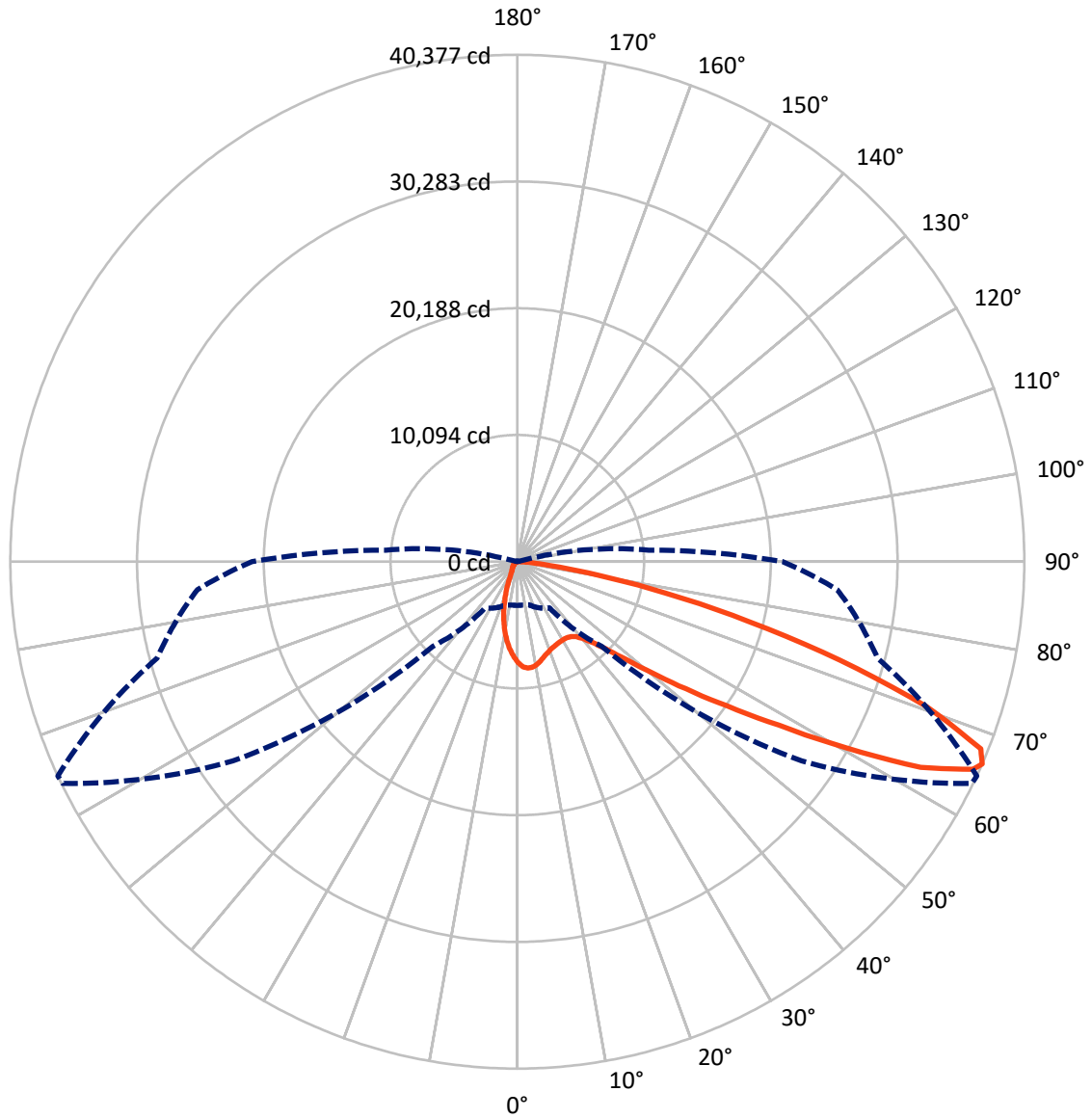
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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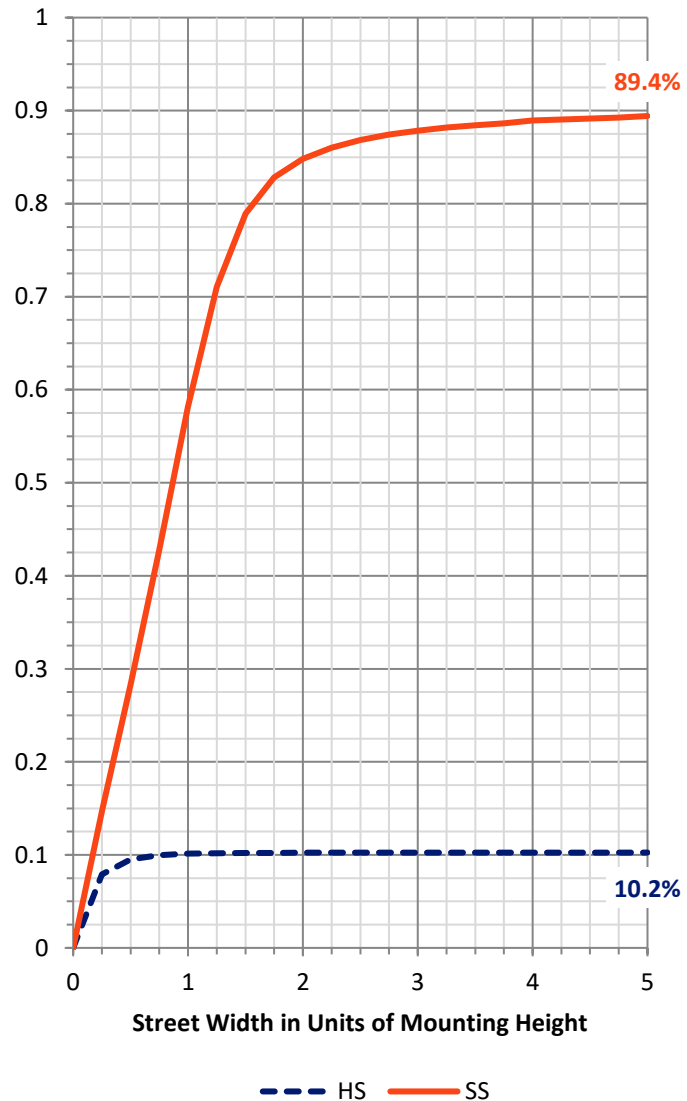
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3508.9	0.0	3508.9
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	30421.2	0.0	30421.2
	% Fixture	89.7	0.0	89.7
Total	Lumens	33930.0	0.0	33930.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	658.0	1.9
10°-20°	1433.8	4.2
20°-30°	2053.9	6.1
30°-40°	2999.9	8.8
40°-50°	5030.3	14.8
50°-60°	8394.8	24.7
60°-70°	8910.8	26.3
70°-80°	4035.7	11.9
80°-90°	412.9	1.2
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°	33930.0	100.0
0°-180°	33930.0	100.0



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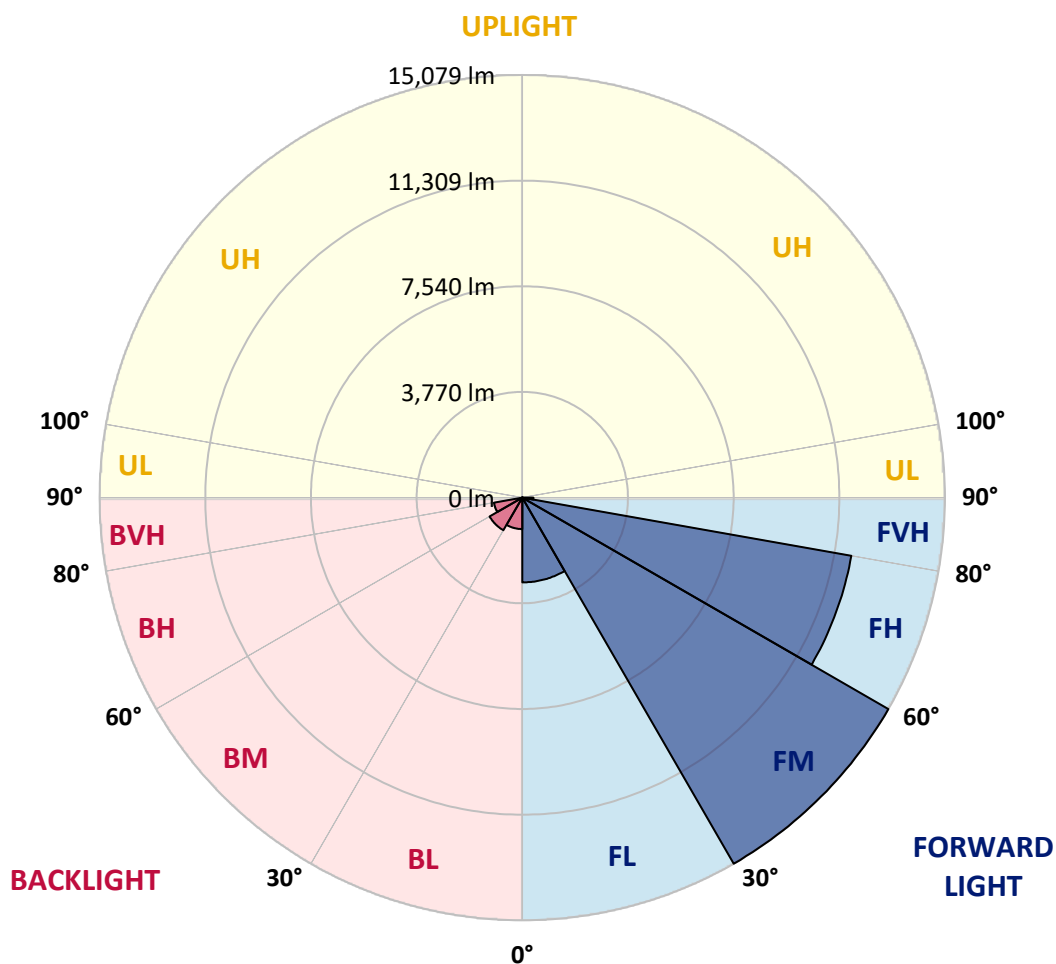
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3023.3	8.9			
FM	(30°-60°)	15079.3	44.4			
FH	(60°-80°)	11918.8	35.1			G4/12000
FVH	(80°-90°)	399.8	1.2			G3/500
BL	(0°-30°)	1122.4	3.3	B3/2500		
BM	(30°-60°)	1345.7	4.0	B2/2500		
BH	(60°-80°)	1027.6	3.0	B3/2500		G3/2500
BVH	(80°-90°)	13.2	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	8046.1	8046.1	8046.1	8046.1	8046.1	8046.1	8046.1	8046.1	8046.1	8046.1	8046.1
2.5°	8479.2	8488.3	8499.8	8515.8	8527.3	8492.9	8444.8	8389.8	8378.3	8261.5	8119.4
5°	8025.4	8039.2	8140.0	8195.0	8318.8	8431.1	8502.1	8511.3	8506.7	8396.7	8169.8
7.5°	7379.2	7418.1	7516.7	7612.9	7844.4	8057.5	8309.6	8486.1	8497.5	8467.7	8185.8
10°	6854.4	6879.6	6930.0	7120.2	7312.7	7638.1	7991.1	8323.3	8350.8	8470.0	8172.1
12.5°	6444.2	6480.8	6542.7	6689.4	6920.8	7227.9	7629.0	8075.8	8133.1	8426.5	8133.1
15°	6157.7	6176.1	6237.9	6382.3	6606.9	6891.1	7296.7	7816.9	7867.3	8369.2	8126.3
17.5°	6022.5	6043.1	6086.7	6201.3	6386.9	6650.4	7046.9	7608.3	7672.5	8332.5	8151.5
20°	6059.2	6077.5	6079.8	6139.4	6265.4	6487.7	6863.6	7413.6	7496.1	8309.6	8192.7
22.5°	6267.7	6270.0	6242.5	6215.0	6258.6	6419.0	6751.3	7289.8	7374.6	8305.0	8240.8
25°	6579.4	6586.3	6540.4	6444.2	6357.1	6439.6	6726.1	7209.6	7285.2	8293.6	8270.6
27.5°	7010.2	7007.9	6994.2	6833.8	6586.3	6531.3	6746.7	7166.1	7230.2	8261.5	8282.1
30°	7612.9	7594.6	7564.8	7383.8	7005.6	6753.6	6833.8	7138.6	7198.1	8215.6	8252.3
32.5°	8206.5	8275.2	8270.6	8098.8	7626.7	7150.0	7014.8	7175.2	7218.8	8185.8	8208.8
35°	8898.6	8896.3	9072.7	9008.6	8456.3	7656.5	7324.2	7296.7	7331.1	8206.5	8188.1
37.5°	9540.2	9599.8	9874.8	9941.3	9437.1	8371.5	7761.9	7557.9	7569.4	8346.3	8238.6
40°	10340.0	10454.6	10864.8	11087.1	10642.5	9432.5	8408.1	8036.9	8039.2	8690.0	8428.8
42.5°	11371.3	11552.3	11935.0	12306.3	12067.9	10688.4	9377.5	8795.4	8790.8	9295.0	8864.2
45°	12624.8	12750.9	13186.3	13775.2	13624.0	12441.5	10789.2	9971.1	9911.5	10287.3	9636.5
47.5°	13706.5	13878.4	14320.6	14992.1	15679.6	14581.9	12475.9	11586.7	11547.7	11866.3	10961.1
50°	14178.6	14329.8	14795.0	15736.9	17402.9	17391.5	14987.5	13944.8	13878.4	14050.2	13009.8
52.5°	13660.6	13802.7	14272.5	15445.9	18214.2	20815.2	18626.7	16903.4	16823.2	16603.2	15457.3
55°	11886.9	12003.8	12698.1	14045.6	17902.5	23097.7	23640.9	20558.6	20246.9	19392.1	18227.9
57.5°	9464.6	9405.0	9835.8	11401.1	16073.8	23863.2	28788.0	25112.1	24555.2	21803.0	20572.3
60°	6558.8	6742.1	6916.3	7947.5	12086.3	22536.3	31989.4	30836.7	30103.4	24174.8	22818.2
62.5°	4821.7	4943.1	5057.7	5534.4	7599.2	17994.2	32555.5	36717.1	36066.3	26693.4	24960.9
65°	3813.3	3822.5	3868.3	4338.1	5007.3	11701.3	29835.3	40033.2	39865.9	29118.0	25829.4
66°	3474.2	3476.5	3547.5	4051.7	4494.0	9528.8	27655.9	40285.3	40376.9	29700.0	25575.0
67.5°	3036.5	3027.3	3130.4	3641.5	4092.9	6870.4	23755.5	39263.2	39806.3	30146.9	24660.7
70°	2353.5	2342.1	2468.1	3054.8	3769.8	4583.3	15789.6	33712.8	34588.2	29232.5	21819.0
72.5°	1567.5	1576.7	1792.1	2410.8	3597.9	4035.6	9499.0	25646.1	26883.6	24140.5	17164.6
75°	914.4	930.4	1175.6	1792.1	3123.5	3847.7	5376.3	18287.5	19078.2	16669.6	10692.9
77.5°	479.0	485.8	657.7	1182.5	2394.8	3572.7	3581.9	11682.9	12054.2	8101.1	4232.7
80°	254.4	247.5	352.9	712.7	1647.7	3137.3	2905.8	6185.2	6430.4	2406.3	1070.2
82.5°	96.3	105.4	187.9	467.5	974.0	2252.7	2502.5	2734.0	2649.2	529.4	449.2
85°	18.3	22.9	80.2	277.3	490.4	941.9	1844.8	1340.6	1242.1	199.4	259.0
87.5°	2.3	4.6	22.9	66.5	71.0	318.5	545.4	371.3	320.8	73.3	107.7
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°	8046.1	8046.1	8046.1	8046.1	8046.1	8046.1	8046.1	8046.1	8046.1	8046.1	8046.1
2.5°	8050.6	7988.8	7782.5	7578.6	7370.0	7182.1	7053.8	6845.2	6792.5	6716.9	6673.3
5°	8034.6	7890.2	7493.8	7060.6	6657.3	6221.9	5889.6	5568.8	5396.9	5309.8	5277.7
7.5°	7988.8	7759.6	7140.8	6462.5	5816.3	5165.4	4599.4	4168.5	3891.3	3701.0	3572.7
10°	7897.1	7580.8	6730.6	5797.9	4821.7	3962.3	3245.0	2699.6	2277.9	2145.0	2149.6
12.5°	7803.1	7381.5	6272.3	5060.0	3850.0	2766.0	2005.2	1574.4	1372.7	1306.3	1292.5
15°	7716.1	7191.3	5823.1	4345.0	2866.9	1792.1	1292.5	1141.3	1086.3	1074.8	1072.5
17.5°	7670.2	7014.8	5344.2	3526.9	2000.6	1216.9	1035.8	994.6	978.5	967.1	962.5
20°	7631.3	6861.3	4885.8	2761.5	1368.1	996.9	928.1	889.2	861.7	850.2	843.3
22.5°	7603.8	6703.1	4411.5	2138.1	1047.3	884.6	822.7	772.3	733.3	719.6	710.4
25°	7562.5	6529.0	3932.5	1562.9	882.3	786.0	715.0	655.4	605.0	579.8	575.2
27.5°	7502.9	6331.9	3407.7	1157.3	788.3	699.0	611.9	538.5	488.1	460.6	462.9
30°	7406.7	6125.6	2882.9	919.0	712.7	609.6	515.6	444.6	396.5	375.8	373.5
32.5°	7292.1	5875.8	2401.7	788.3	644.0	529.4	430.8	369.0	332.3	316.3	314.0
35°	7184.4	5623.8	1911.3	708.1	572.9	456.0	362.1	309.4	281.9	268.1	270.4
37.5°	7124.8	5399.2	1489.6	644.0	515.6	391.9	311.7	265.8	240.6	229.2	226.9
40°	7163.8	5215.8	1184.8	586.7	451.5	336.9	268.1	229.2	204.0	187.9	187.9
42.5°	7347.1	5135.6	955.6	531.7	391.9	291.0	233.8	197.1	169.6	153.5	155.8
45°	7906.3	5220.4	799.8	481.3	336.9	252.1	201.7	162.7	137.5	126.0	123.8
47.5°	8834.4	5539.0	692.1	428.5	288.8	215.4	169.6	135.2	110.0	100.8	98.5
50°	10456.9	6196.7	611.9	375.8	245.2	183.3	139.8	107.7	87.1	77.9	77.9
52.5°	12689.0	7631.3	554.6	316.3	206.3	155.8	114.6	87.1	68.8	61.9	59.6
55°	15021.9	9143.8	524.8	265.8	171.9	128.3	91.7	68.8	52.7	45.8	43.5
57.5°	17265.4	10330.8	490.4	215.4	137.5	98.5	71.0	52.7	36.7	32.1	29.8
60°	19417.3	11291.1	417.1	171.9	107.7	71.0	52.7	36.7	25.2	20.6	20.6
62.5°	21342.3	11850.2	327.7	137.5	82.5	50.4	34.4	27.5	18.3	13.8	13.8
65°	21566.9	11123.8	247.5	105.4	59.6	32.1	20.6	20.6	13.8	9.2	9.2
66°	21115.4	10507.3	217.7	96.3	52.7	27.5	18.3	16.0	11.5	6.9	6.9
67.5°	20107.1	9455.4	187.9	82.5	43.5	20.6	13.8	13.8	9.2	4.6	4.6
70°	17373.2	7722.9	149.0	61.9	32.1	16.0	9.2	9.2	6.9	4.6	4.6
72.5°	13241.3	5765.8	121.5	45.8	22.9	11.5	6.9	6.9	6.9	4.6	4.6
75°	7986.5	3105.2	94.0	34.4	20.6	9.2	4.6	6.9	9.2	6.9	4.6
77.5°	2942.5	1056.5	73.3	27.5	16.0	9.2	4.6	4.6	9.2	6.9	6.9
80°	721.9	275.0	52.7	22.9	16.0	9.2	4.6	4.6	9.2	9.2	9.2
82.5°	334.6	116.9	36.7	20.6	16.0	9.2	4.6	4.6	6.9	9.2	9.2
85°	192.5	55.0	29.8	22.9	16.0	9.2	4.6	4.6	6.9	9.2	9.2
87.5°	77.9	27.5	27.5	22.9	18.3	11.5	4.6	4.6	4.6	6.9	6.9
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)