

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: P457303

Luminaire Tested: **GALN-SA8C-827-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457303
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8C-827-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34522 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G5

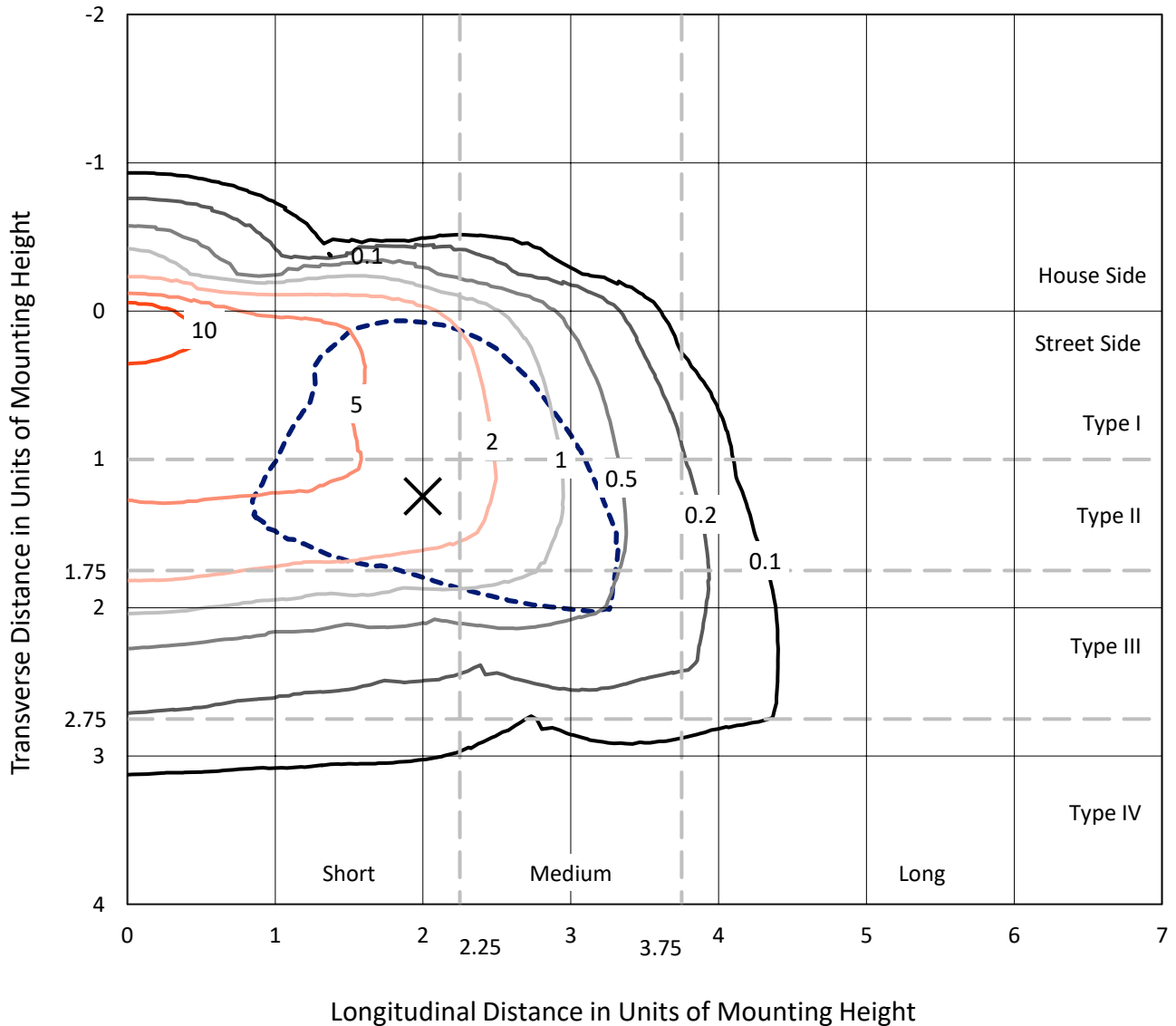
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

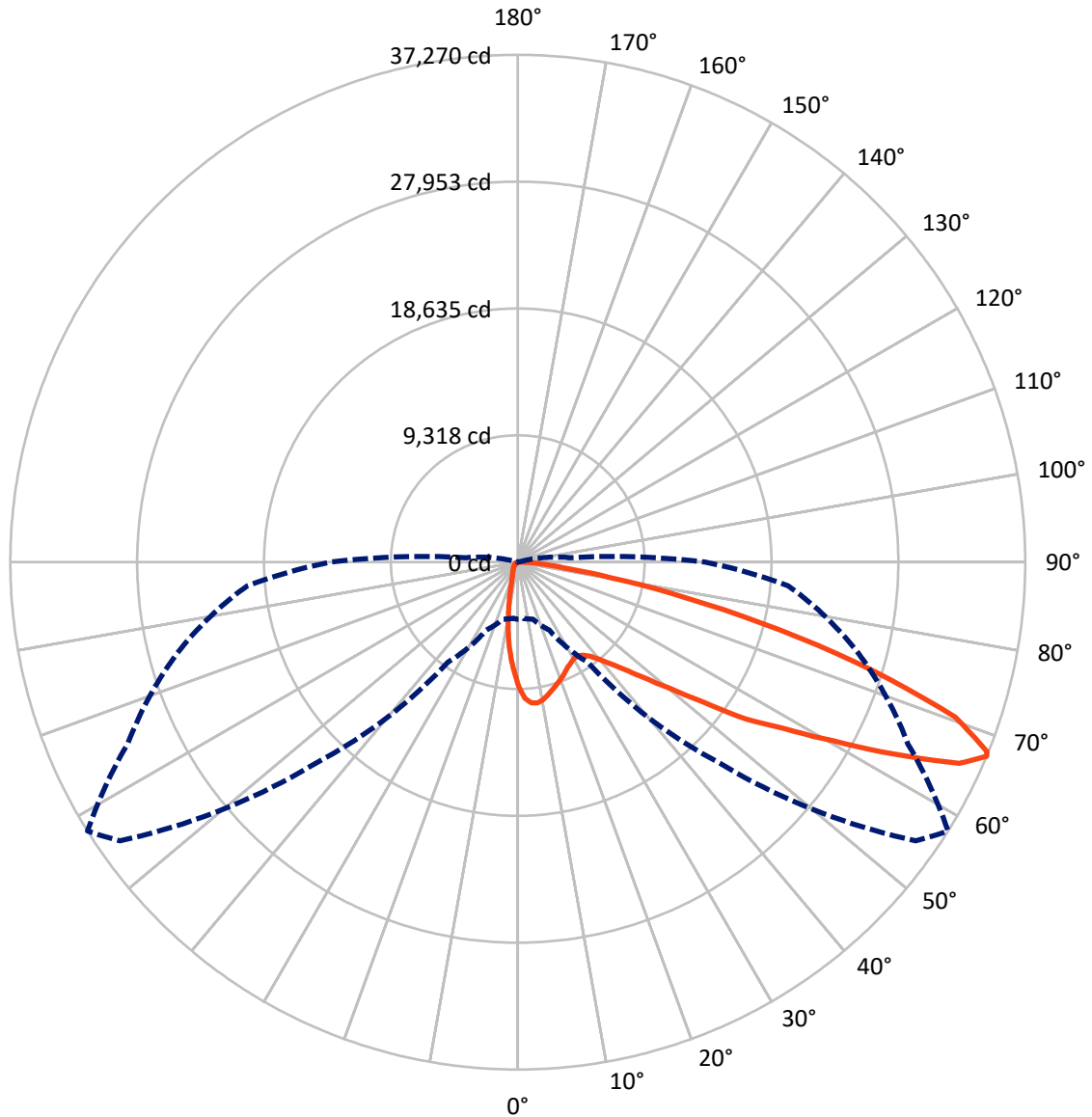
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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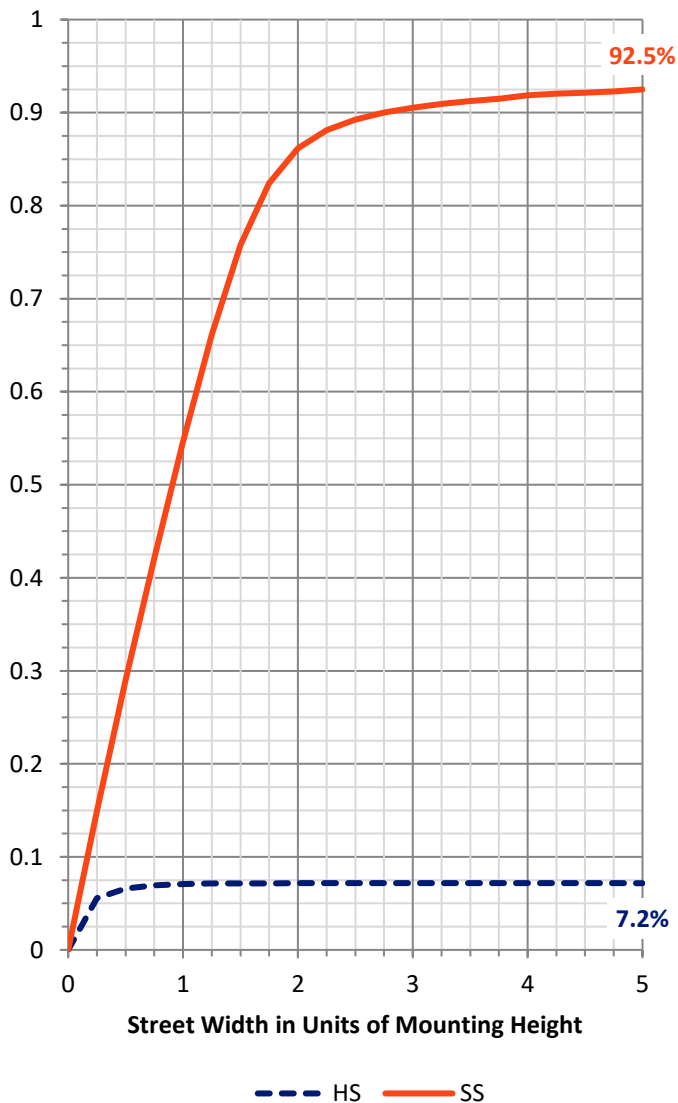
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2491.3	0.0	2491.3
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	32030.7	0.0	32030.7
	% Fixture	92.8	0.0	92.8
Total	Lumens	34522.0	0.0	34522.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	742.6	2.2
10°-20°	1603.9	4.6
20°-30°	2173.4	6.3
30°-40°	3014.3	8.7
40°-50°	4807.5	13.9
50°-60°	8310.2	24.1
60°-70°	9492.8	27.5
70°-80°	3957.6	11.5
80°-90°	419.6	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°	34522.0	100.0
0°-180°	34522.0	100.0



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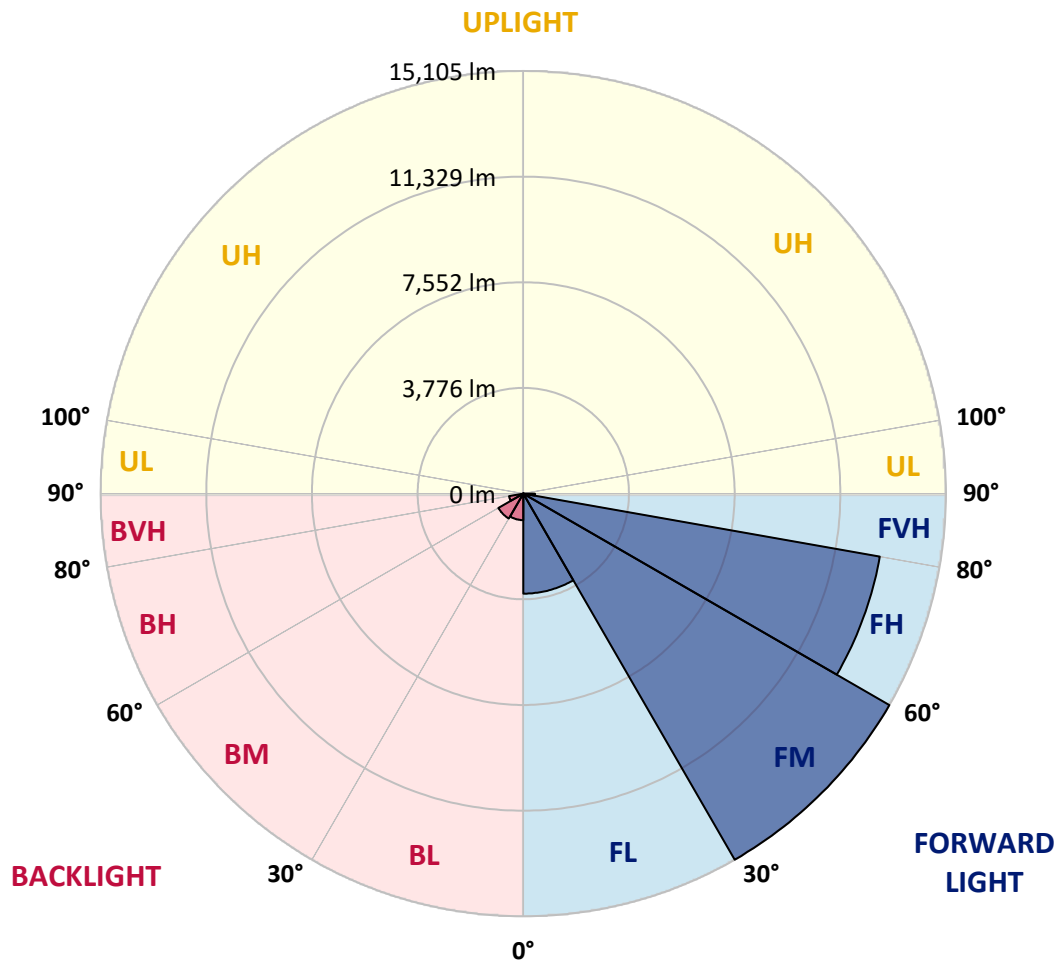
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3573.9	10.4			
FM (30°-60°)	15104.8	43.8			
FH (60°-80°)	12935.4	37.5			G5
FVH (80°-90°)	416.6	1.2			G3/500
BL (0°-30°)	946.0	2.7	B2/1000		
BM (30°-60°)	1027.2	3.0	B2/2500		
BH (60°-80°)	515.0	1.5	B2/1000		G2/1000
BVH (80°-90°)	3.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	9151.5	9151.5	9151.5	9151.5	9151.5	9151.5	9151.5	9151.5	9151.5	9151.5	9151.5
2.5°	10621.0	10637.1	10577.1	10528.7	10404.1	10270.3	10092.7	9998.1	9836.6	9557.5	9248.4
5°	10870.1	10890.9	10881.6	10870.1	10821.7	10692.5	10466.4	10383.3	10145.7	9691.3	9133.0
7.5°	10316.4	10392.6	10401.8	10491.8	10577.1	10588.7	10503.3	10441.0	10221.9	9689.0	8927.7
10°	9582.9	9633.6	9707.4	9811.2	10016.6	10187.3	10270.3	10261.1	10134.2	9617.5	8687.8
12.5°	8842.3	8870.0	8983.1	9160.7	9412.1	9702.8	9924.3	9968.1	9970.4	9532.1	8487.1
15°	8205.6	8194.1	8281.8	8487.1	8840.0	9204.5	9601.3	9670.5	9781.2	9449.1	8300.2
17.5°	7661.2	7721.2	7735.0	7961.1	8286.4	8759.3	9264.5	9386.8	9608.2	9377.5	8145.7
20°	7324.4	7356.7	7386.7	7513.6	7806.5	8304.8	8948.5	9116.9	9446.7	9312.9	7972.6
22.5°	7225.2	7246.0	7220.6	7259.8	7467.4	7910.4	8604.7	8828.5	9292.2	9253.0	7831.9
25°	7301.3	7322.1	7262.1	7216.0	7287.5	7589.7	8272.5	8544.8	9167.6	9241.4	7725.8
27.5°	7485.9	7525.1	7442.1	7359.0	7317.5	7416.7	8011.9	8327.9	9082.3	9296.8	7677.4
30°	7774.2	7797.3	7735.0	7633.5	7538.9	7439.7	7875.8	8178.0	9059.2	9426.0	7672.7
32.5°	8088.0	8136.4	8101.8	8034.9	7912.7	7677.4	7915.0	8182.6	9114.6	9612.8	7730.4
35°	8475.5	8530.9	8563.2	8549.4	8392.5	8099.5	8164.1	8390.2	9262.2	9956.6	7887.3
37.5°	8856.2	8904.6	9086.9	9149.2	9010.7	8733.9	8648.6	8798.5	9587.5	10406.4	8171.0
40°	9292.2	9356.8	9612.8	9850.5	9783.6	9492.9	9336.0	9460.6	10085.8	11084.6	8708.5
42.5°	9709.7	9825.1	10214.9	10634.8	10697.1	10371.8	10268.0	10309.5	10824.0	12060.5	9458.3
45°	10302.6	10411.0	10913.9	11483.7	11776.7	11523.0	11416.8	11409.9	11836.7	13433.1	10674.0
47.5°	11158.5	11255.4	11848.2	12411.1	12932.5	12967.1	12766.4	12835.6	13110.1	15038.7	12164.3
50°	12208.1	12436.5	12826.4	13412.3	14109.0	14671.9	14734.2	14641.9	14877.2	16898.0	13954.4
52.5°	13733.0	13820.6	14178.2	14660.3	15477.0	16432.0	17172.6	17045.7	16971.9	18669.7	15763.0
55°	14870.3	14987.9	15543.9	16206.0	17403.2	18662.8	20268.4	20312.2	19380.3	20372.2	17532.4
57.5°	14526.5	14706.5	15548.5	16879.6	19511.7	21814.0	23009.0	23039.0	21608.7	22026.3	19530.2
60°	12761.8	12847.1	14053.6	15829.9	19691.7	25228.2	26896.1	26653.9	23876.4	23876.4	21295.0
62.5°	9050.0	9183.8	10161.9	12775.6	17783.9	26414.0	31551.4	31050.8	26999.9	25645.8	22346.9
65°	5783.4	5654.2	6302.4	8064.9	13248.5	24663.0	35604.7	35634.7	29938.9	26354.0	21772.5
67°	4189.3	4138.6	4325.4	5513.5	8983.1	20732.1	35690.0	37270.2	31627.6	25906.5	19936.2
67.5°	3831.8	3871.0	4007.1	4973.7	8161.8	18865.8	35302.5	37173.4	32008.2	25636.6	19271.8
70°	2904.4	2837.5	2985.1	3518.0	4892.9	11901.3	30368.0	34093.6	31535.3	22958.3	15398.5
72.5°	2136.2	2129.3	2334.6	2876.7	3767.2	6339.4	22796.8	27336.7	25763.4	17481.7	9695.9
75°	1441.8	1506.4	1834.0	2403.8	3414.2	4110.9	15541.6	19832.4	17885.4	9926.6	3963.3
77.5°	821.3	825.9	1181.1	1930.9	3065.9	3308.1	9209.1	12634.9	9467.5	3301.2	1176.5
80°	355.3	389.9	586.0	1402.6	2542.2	2929.8	5280.5	6943.8	3829.5	699.0	380.6
82.5°	131.5	154.6	258.4	862.8	1854.7	2413.0	3190.4	3315.0	1298.8	246.8	237.6
85°	0.0	4.6	94.6	403.7	966.6	1077.3	2131.6	1965.5	574.4	117.7	154.6
87.5°	0.0	0.0	0.0	41.5	126.9	401.4	662.1	738.2	138.4	41.5	36.9
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°	9151.5	9151.5	9151.5	9151.5	9151.5	9151.5	9151.5	9151.5	9151.5	9151.5	9151.5
2.5°	9082.3	8932.3	8556.3	8180.3	7901.1	7668.1	7317.5	7126.0	7024.5	6874.6	6883.8
5°	8853.9	8549.4	7887.3	7202.1	6648.5	6108.7	5462.7	5202.1	4982.9	4858.3	4775.3
7.5°	8514.8	8064.9	7084.5	6171.0	5319.7	4376.2	3668.0	3195.1	2876.7	2759.1	2646.0
10°	8143.4	7545.9	6270.1	5003.7	3822.5	2849.0	2249.2	1815.5	1661.0	1517.9	1531.8
12.5°	7799.6	7072.9	5522.7	3949.4	2678.3	1810.9	1411.8	1234.2	1183.4	1167.3	1167.3
15°	7518.2	6620.8	4719.9	2969.0	1836.3	1301.1	1130.4	1081.9	1063.5	1058.9	1058.9
17.5°	7218.3	6191.7	3995.5	2193.9	1335.7	1088.9	1031.2	998.9	992.0	987.4	987.4
20°	6950.7	5760.3	3308.1	1633.3	1079.6	980.4	943.5	922.8	915.8	911.2	913.5
22.5°	6696.9	5377.4	2662.2	1234.2	950.4	892.8	855.9	835.1	821.3	809.7	812.0
25°	6470.8	5008.3	2140.8	1010.4	855.9	805.1	768.2	738.2	708.2	694.4	692.1
27.5°	6311.7	4685.3	1667.9	865.1	770.5	715.1	669.0	632.1	592.9	572.1	567.5
30°	6180.2	4357.7	1319.5	763.6	685.1	632.1	574.4	521.4	479.8	459.1	449.8
32.5°	6094.8	4046.3	1040.4	680.5	613.6	549.0	484.4	431.4	385.3	364.5	359.9
35°	6081.0	3785.6	851.2	611.3	549.0	479.8	412.9	355.3	316.0	295.3	290.7
37.5°	6180.2	3584.9	712.8	556.0	496.0	419.9	346.0	293.0	258.4	242.2	239.9
40°	6445.5	3458.0	618.2	509.8	447.5	364.5	295.3	249.1	214.5	198.4	198.4
42.5°	6950.7	3462.7	556.0	466.0	399.1	311.4	251.5	207.6	177.6	163.8	159.2
45°	7739.6	3619.5	502.9	422.2	353.0	269.9	214.5	170.7	140.7	129.2	129.2
47.5°	8796.2	3931.0	456.8	378.3	311.4	230.7	182.2	138.4	113.0	101.5	101.5
50°	10178.0	4431.6	417.5	341.4	276.8	198.4	147.6	113.0	87.7	78.4	76.1
52.5°	11622.2	5049.8	371.4	309.1	237.6	168.4	120.0	87.7	66.9	60.0	57.7
55°	13216.2	5654.2	327.6	276.8	193.8	140.7	94.6	69.2	48.4	41.5	41.5
57.5°	14824.1	6247.1	274.5	230.7	152.3	103.8	73.8	50.8	32.3	25.4	25.4
60°	16185.2	6438.6	233.0	186.9	115.3	73.8	53.1	32.3	18.5	11.5	11.5
62.5°	16372.1	5792.6	196.1	143.0	83.0	50.8	27.7	18.5	6.9	4.6	4.6
65°	15357.0	4706.1	163.8	108.4	55.4	25.4	11.5	6.9	2.3	0.0	0.0
67°	13760.6	3815.6	133.8	80.7	39.2	16.1	6.9	2.3	0.0	0.0	0.0
67.5°	13352.3	3638.0	129.2	76.1	34.6	13.8	4.6	2.3	0.0	0.0	0.0
70°	10477.9	2724.4	92.3	46.1	20.8	9.2	0.0	0.0	0.0	0.0	0.0
72.5°	6512.4	1541.0	66.9	27.7	13.8	4.6	0.0	0.0	0.0	0.0	0.0
75°	2461.5	539.8	46.1	18.5	9.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	765.9	205.3	27.7	13.8	4.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	258.4	78.4	18.5	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	159.2	32.3	11.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	99.2	13.8	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.5	4.6	2.3	0.0	0.0	0.0	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)