

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: P459534

Luminaire Tested: **GALN-SA9D-735-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459534
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-SA9D-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1200mA 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: 53468 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

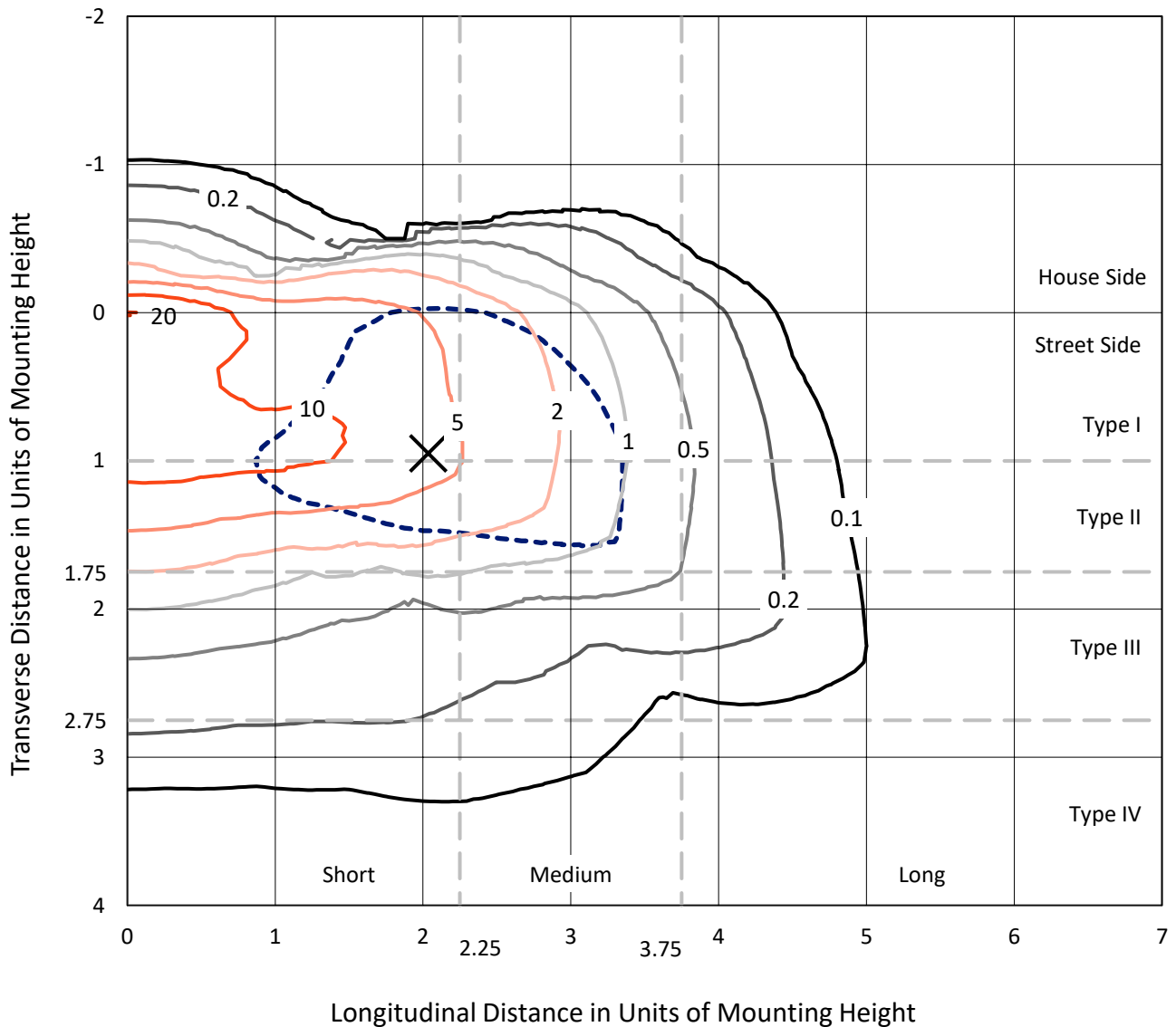
Input Watts (W): 552
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P459534
 CATALOG NUMBER: GALN-SA9D-735-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

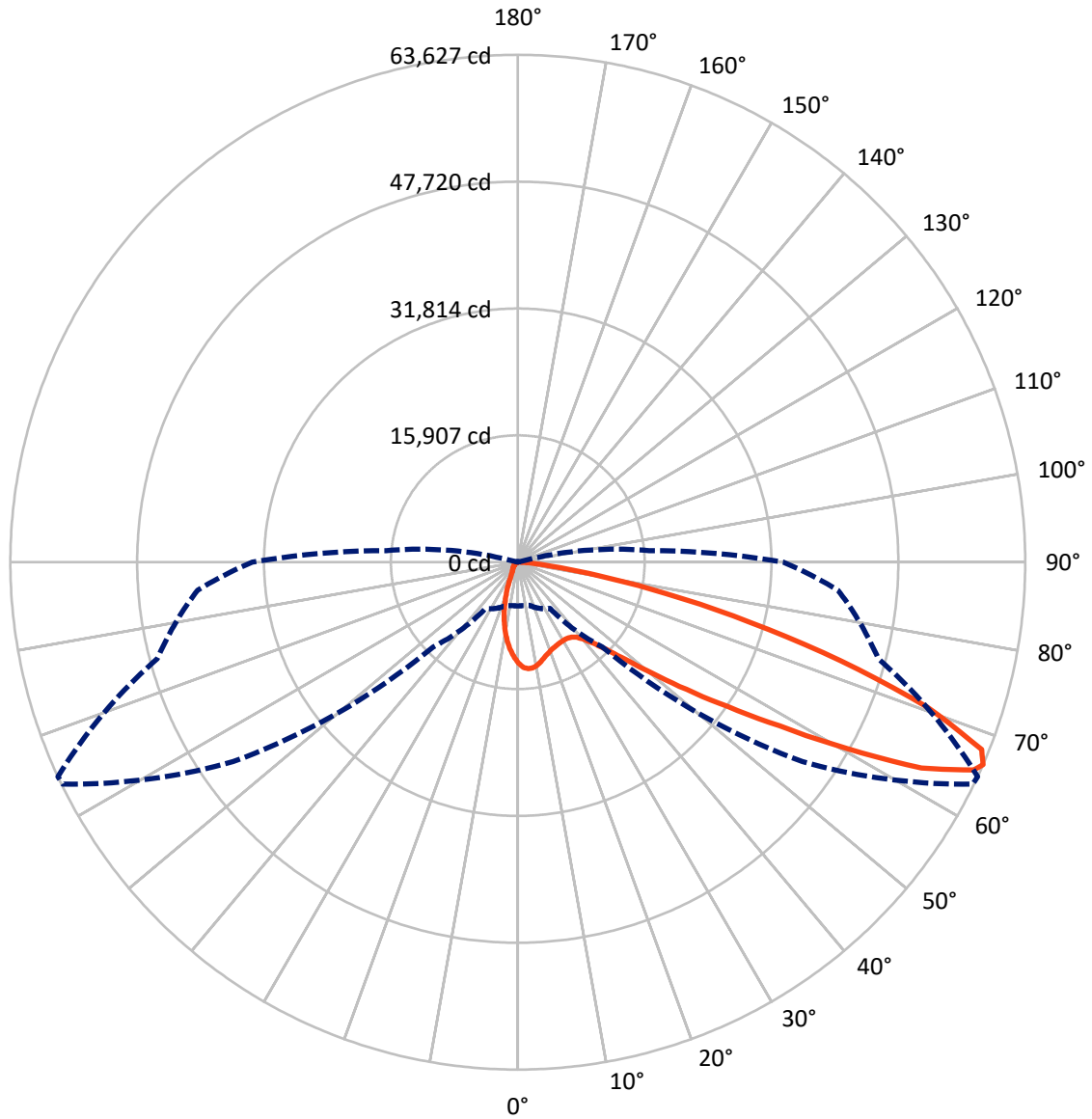
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.3 fc
 Type II - Short - N/A

REPORT NUMBER: P459534
CATALOG NUMBER: GALN-SA9D-735-U-SL2-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P459534

CATALOG NUMBER: GALN-SA9D-735-U-SL2-HSS

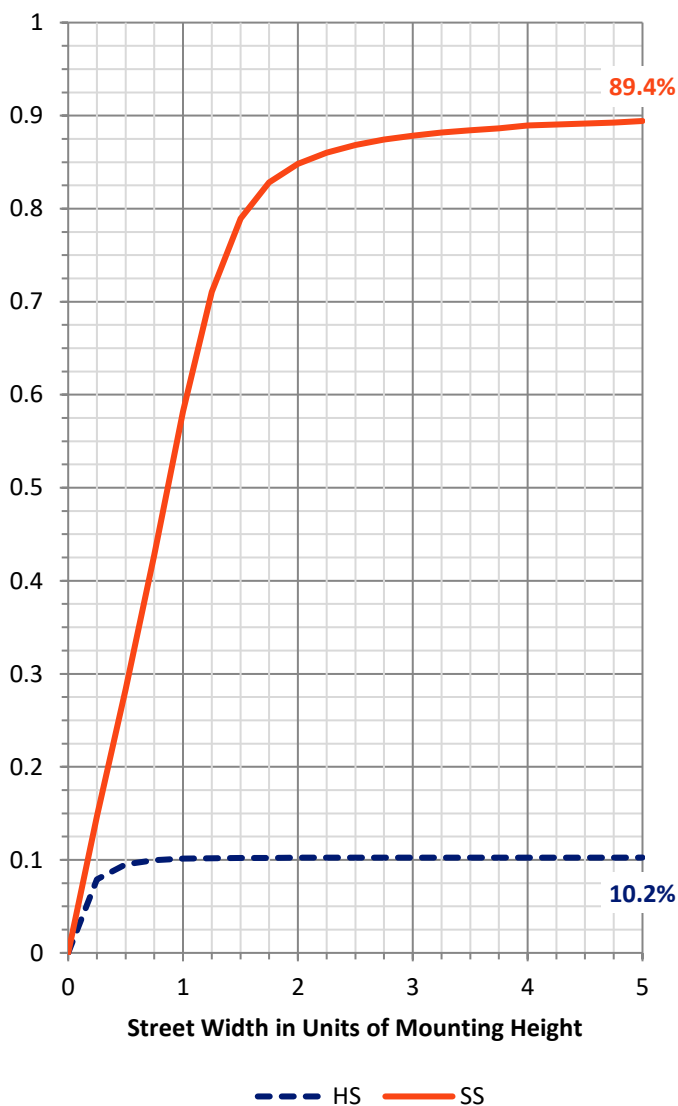
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5529.3	0.0	5529.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	47938.7	0.0	47938.7
	% Fixture	89.7	0.0	89.7
Total	Lumens	53468.0	0.0	53468.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1037.0	1.9
10°-20°	2259.4	4.2
20°-30°	3236.6	6.1
30°-40°	4727.3	8.8
40°-50°	7926.9	14.8
50°-60°	13228.7	24.7
60°-70°	14041.9	26.3
70°-80°	6359.5	11.9
80°-90°	650.7	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°	53468.0	100.0
0°-180°	53468.0	100.0

Coefficient of Utilization



REPORT NUMBER: P459534

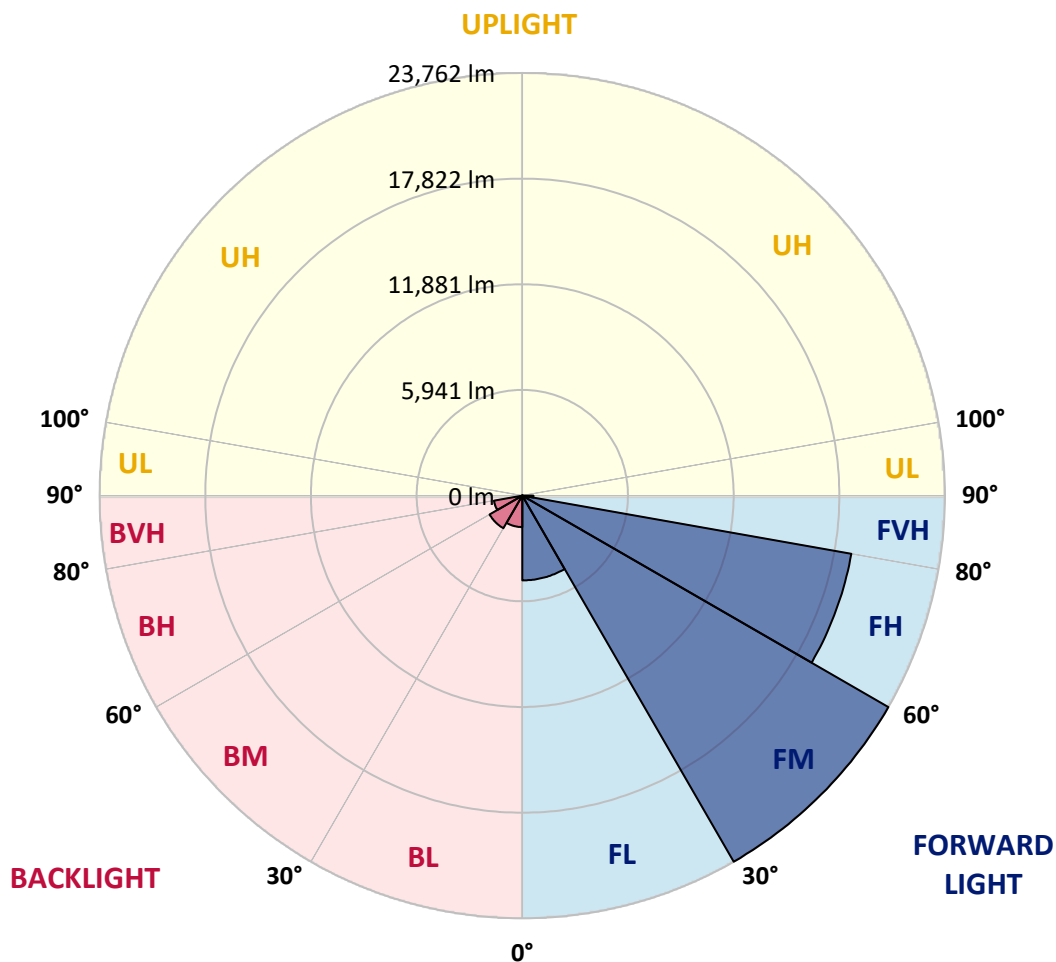
CATALOG NUMBER: GALN-SA9D-735-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4764.2	8.9			
FM (30°-60°)	23762.4	44.4			
FH (60°-80°)	18782.1	35.1			G5
FVH (80°-90°)	630.0	1.2			G4/750
BL (0°-30°)	1768.8	3.3	B3/2500		
BM (30°-60°)	2120.5	4.0	B2/2500		
BH (60°-80°)	1619.3	3.0	B3/2500		G3/2500
BVH (80°-90°)	20.7	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-G5

Type II Short





REPORT NUMBER: P459534

CATALOG NUMBER: GALN-SA9D-735-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	12679.2	12679.2	12679.2	12679.2	12679.2	12679.2	12679.2	12679.2	12679.2	12679.2	12679.2
2.5°	13361.8	13376.2	13394.3	13419.5	13437.6	13383.4	13307.6	13220.9	13202.9	13018.7	12794.8
5°	12646.7	12668.4	12827.3	12914.0	13109.0	13285.9	13397.9	13412.3	13405.1	13231.8	12874.2
7.5°	11628.3	11689.7	11845.0	11996.7	12361.4	12697.3	13094.5	13372.6	13390.7	13343.7	12899.5
10°	10801.4	10841.1	10920.5	11220.3	11523.6	12036.4	12592.6	13116.2	13159.5	13347.3	12877.9
12.5°	10154.9	10212.7	10310.2	10541.4	10906.1	11390.0	12022.0	12726.2	12816.5	13278.7	12816.5
15°	9703.5	9732.4	9829.9	10057.4	10411.3	10859.1	11498.3	12318.1	12397.6	13188.4	12805.6
17.5°	9490.5	9523.0	9591.6	9772.1	10064.7	10480.0	11104.7	11989.5	12090.6	13130.6	12845.4
20°	9548.2	9577.1	9580.7	9674.6	9873.3	10223.6	10815.8	11682.5	11812.5	13094.5	12910.4
22.5°	9876.9	9880.5	9837.2	9793.8	9862.4	10115.2	10638.9	11487.5	11621.1	13087.3	12986.2
25°	10368.0	10378.8	10306.6	10154.9	10017.7	10147.7	10599.1	11361.1	11480.3	13069.3	13033.1
27.5°	11046.9	11043.3	11021.7	10768.9	10378.8	10292.2	10631.6	11292.5	11393.6	13018.7	13051.2
30°	11996.7	11967.8	11920.9	11635.6	11039.7	10642.5	10768.9	11249.2	11343.1	12946.5	13004.3
32.5°	12932.0	13040.4	13033.1	12762.3	12018.4	11267.2	11054.2	11306.9	11375.6	12899.5	12935.6
35°	14022.6	14019.0	14297.1	14196.0	13325.7	12065.3	11541.7	11498.3	11552.5	12932.0	12903.1
37.5°	15033.8	15127.7	15561.0	15665.8	14871.3	13192.0	12231.4	11910.0	11928.1	13152.3	12982.6
40°	16294.1	16474.7	17121.1	17471.4	16770.8	14864.1	13249.8	12664.8	12668.4	13694.0	13282.3
42.5°	17919.2	18204.5	18807.6	19392.6	19017.0	16843.1	14777.4	13860.1	13852.9	14647.4	13968.5
45°	19894.6	20093.2	20779.4	21707.5	21469.1	19605.7	17001.9	15712.7	15618.8	16211.1	15185.5
47.5°	21599.1	21870.0	22566.9	23625.1	24708.4	22978.6	19659.9	18258.7	18197.3	18699.3	17272.8
50°	22343.0	22581.4	23314.5	24798.7	27424.1	27406.1	23617.8	21974.7	21870.0	22140.8	20501.3
52.5°	21526.9	21750.8	22491.1	24340.1	28702.5	32801.3	29352.6	26636.9	26510.5	26163.8	24358.1
55°	18731.8	18915.9	20010.2	22133.6	28211.4	36398.2	37254.1	32396.9	31905.7	30558.7	28724.2
57.5°	14914.6	14820.7	15499.7	17966.2	25329.6	37604.3	45365.0	39572.5	38695.0	34357.8	32418.5
60°	10335.5	10624.4	10898.9	12523.9	19045.9	35513.4	50410.0	48593.5	47437.9	38095.5	35957.6
62.5°	7598.2	7789.5	7970.1	8721.3	11975.0	28355.8	51302.0	57860.1	56834.5	42064.3	39334.2
65°	6009.2	6023.6	6095.9	6836.2	7890.7	18439.2	47015.4	63085.6	62822.0	45885.0	40702.8
66°	5474.7	5478.3	5590.3	6384.8	7081.7	15015.7	43581.0	63482.8	63627.3	46802.3	40302.0
67.5°	4785.0	4770.5	4933.0	5738.3	6449.8	10826.6	37434.6	61872.2	62728.1	47506.5	38861.1
70°	3708.8	3690.7	3889.4	4813.8	5940.6	7222.6	24881.8	53125.7	54505.2	46065.6	34383.1
72.5°	2470.1	2484.6	2824.0	3799.1	5669.7	6359.5	14968.8	40413.9	42364.0	38041.3	27048.6
75°	1440.9	1466.2	1852.6	2824.0	4922.2	6063.4	8472.1	28818.1	30064.0	26268.5	16850.3
77.5°	754.8	765.6	1036.4	1863.4	3773.8	5630.0	5644.4	18410.3	18995.4	12765.9	6670.1
80°	400.9	390.0	556.1	1123.1	2596.5	4943.9	4579.1	9746.9	10133.3	3791.9	1686.5
82.5°	151.7	166.1	296.1	736.7	1534.8	3549.9	3943.5	4308.3	4174.6	834.2	707.8
85°	28.9	36.1	126.4	437.0	772.8	1484.2	2907.1	2112.6	1957.3	314.2	408.1
87.5°	3.6	7.2	36.1	104.7	111.9	502.0	859.5	585.0	505.6	115.6	169.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P459534
 CATALOG NUMBER: GALN-SA9D-735-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12679.2	12679.2	12679.2	12679.2	12679.2	12679.2	12679.2	12679.2	12679.2	12679.2	12679.2
2.5°	12686.5	12589.0	12263.9	11942.5	11613.9	11317.8	11115.5	10786.9	10703.9	10584.7	10516.1
5°	12661.2	12433.7	11808.9	11126.4	10490.8	9804.6	9281.0	8775.4	8504.6	8367.4	8316.8
7.5°	12589.0	12227.8	11252.8	10183.8	9165.5	8139.8	7247.9	6568.9	6132.0	5832.2	5630.0
10°	12444.5	11946.1	10606.4	9136.6	7598.2	6243.9	5113.6	4254.1	3589.6	3380.2	3387.4
12.5°	12296.4	11632.0	9884.1	7973.7	6067.0	4358.8	3159.9	2481.0	2163.2	2058.4	2036.8
15°	12159.2	11332.2	9176.3	6847.0	4517.7	2824.0	2036.8	1798.4	1711.8	1693.7	1690.1
17.5°	12087.0	11054.2	8421.5	5557.8	3152.7	1917.6	1632.3	1567.3	1542.0	1524.0	1516.7
20°	12025.6	10812.2	7699.3	4351.6	2155.9	1570.9	1462.6	1401.2	1357.8	1339.8	1329.0
22.5°	11982.3	10563.0	6951.7	3369.3	1650.4	1394.0	1296.5	1217.0	1155.6	1133.9	1119.5
25°	11917.3	10288.6	6197.0	2462.9	1390.3	1238.7	1126.7	1032.8	953.4	913.7	906.4
27.5°	11823.4	9978.0	5370.0	1823.7	1242.3	1101.4	964.2	848.7	769.2	725.9	729.5
30°	11671.7	9653.0	4543.0	1448.1	1123.1	960.6	812.5	700.6	624.8	592.3	588.6
32.5°	11491.1	9259.3	3784.6	1242.3	1014.8	834.2	678.9	581.4	523.6	498.4	494.7
35°	11321.4	8862.1	3011.8	1115.9	902.8	718.6	570.6	487.5	444.2	422.5	426.1
37.5°	11227.5	8508.2	2347.3	1014.8	812.5	617.5	491.1	418.9	379.2	361.1	357.5
40°	11288.9	8219.3	1867.0	924.5	711.4	530.9	422.5	361.1	321.4	296.1	296.1
42.5°	11577.8	8092.9	1505.9	837.8	617.5	458.6	368.4	310.6	267.2	242.0	245.6
45°	12458.9	8226.5	1260.3	758.4	530.9	397.2	317.8	256.4	216.7	198.6	195.0
47.5°	13921.5	8728.5	1090.6	675.3	455.0	339.5	267.2	213.1	173.3	158.9	155.3
50°	16478.3	9764.9	964.2	592.3	386.4	288.9	220.3	169.7	137.2	122.8	122.8
52.5°	19995.7	12025.6	873.9	498.4	325.0	245.6	180.6	137.2	108.3	97.5	93.9
55°	23672.0	14409.0	827.0	418.9	270.8	202.2	144.5	108.3	83.1	72.2	68.6
57.5°	27207.4	16279.7	772.8	339.5	216.7	155.3	111.9	83.1	57.8	50.6	46.9
60°	30598.4	17792.8	657.3	270.8	169.7	111.9	83.1	57.8	39.7	32.5	32.5
62.5°	33631.9	18674.0	516.4	216.7	130.0	79.4	54.2	43.3	28.9	21.7	21.7
65°	33985.8	17529.2	390.0	166.1	93.9	50.6	32.5	32.5	21.7	14.4	14.4
66°	33274.4	16557.8	343.1	151.7	83.1	43.3	28.9	25.3	18.1	10.8	10.8
67.5°	31685.4	14900.2	296.1	130.0	68.6	32.5	21.7	21.7	14.4	7.2	7.2
70°	27377.2	12170.0	234.7	97.5	50.6	25.3	14.4	14.4	10.8	7.2	7.2
72.5°	20866.0	9086.0	191.4	72.2	36.1	18.1	10.8	10.8	10.8	7.2	7.2
75°	12585.3	4893.3	148.1	54.2	32.5	14.4	7.2	10.8	14.4	10.8	7.2
77.5°	4636.9	1664.8	115.6	43.3	25.3	14.4	7.2	7.2	14.4	10.8	10.8
80°	1137.6	433.4	83.1	36.1	25.3	14.4	7.2	7.2	14.4	14.4	14.4
82.5°	527.2	184.2	57.8	32.5	25.3	14.4	7.2	7.2	10.8	14.4	14.4
85°	303.3	86.7	46.9	36.1	25.3	14.4	7.2	7.2	10.8	14.4	14.4
87.5°	122.8	43.3	43.3	36.1	28.9	18.1	7.2	7.2	7.2	10.8	10.8
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)