

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: P383108

Luminaire Tested: **GLEON-SA4C-735-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383108
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA4C-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1050mA 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: 22014.3 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

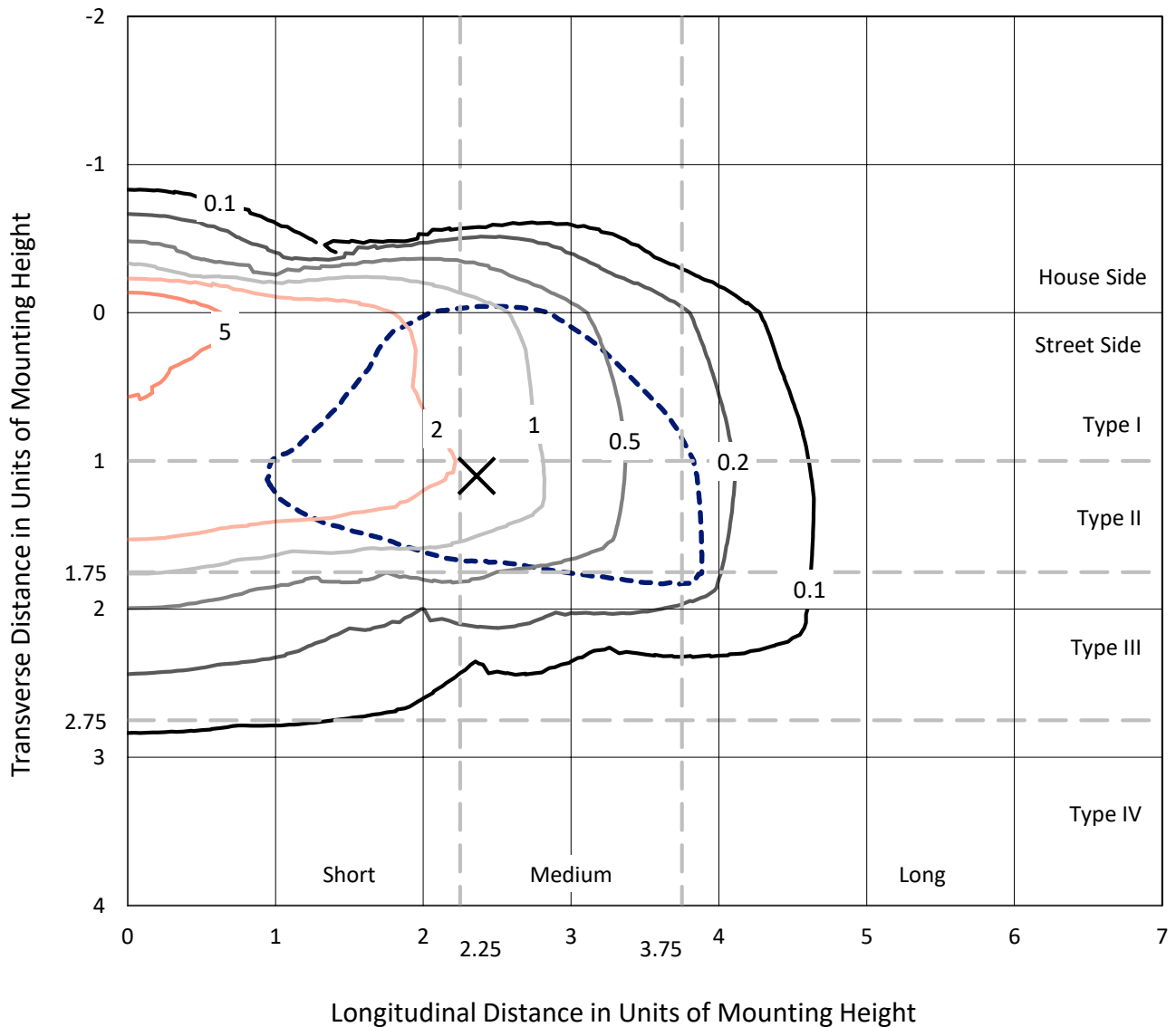
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P383108
 CATALOG NUMBER: GLEON-SA4C-735-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

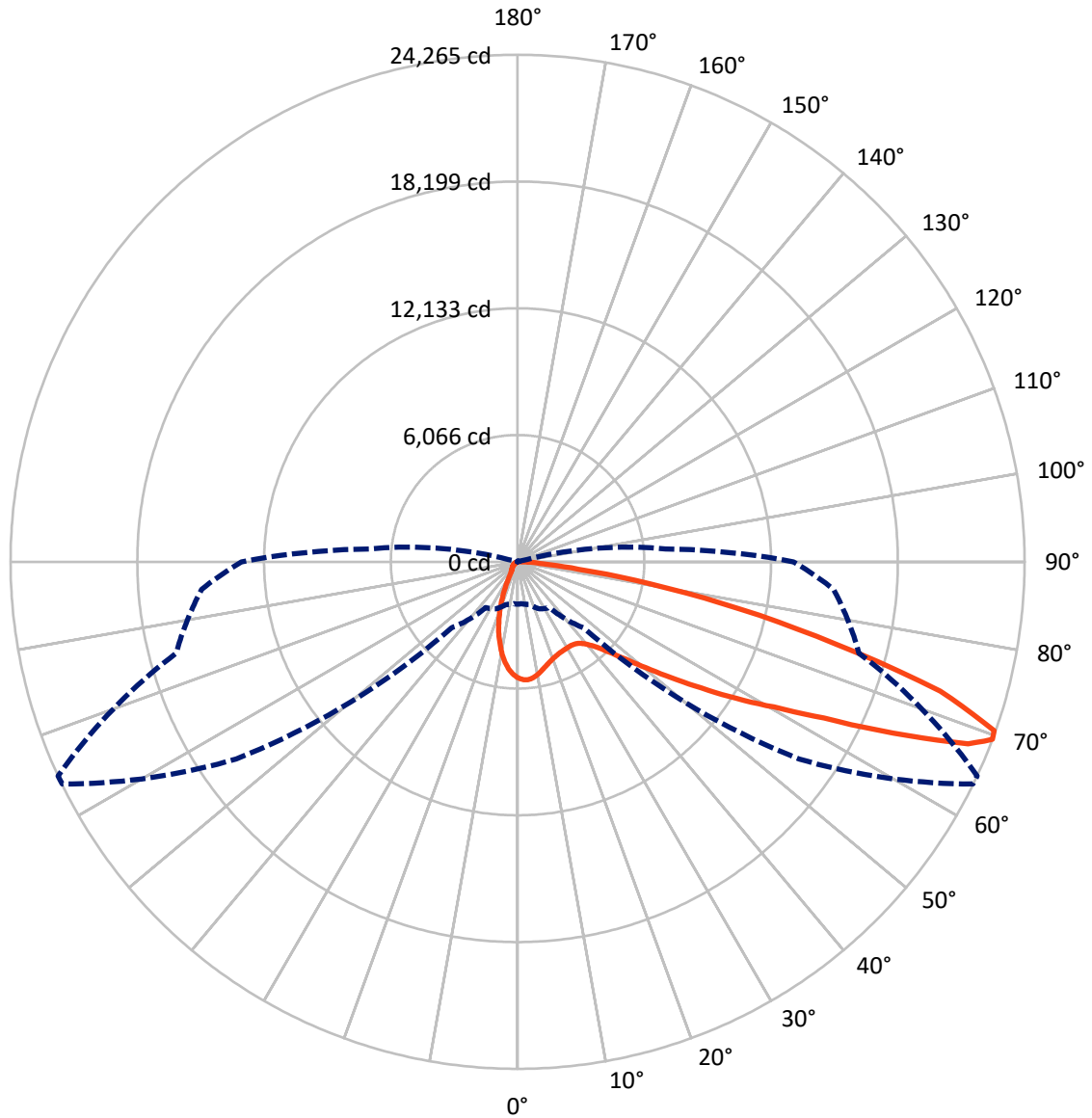
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type III - Medium - N/A

REPORT NUMBER: P383108
CATALOG NUMBER: GLEON-SA4C-735-U-SL2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P383108
 CATALOG NUMBER: GLEON-SA4C-735-U-SL2-HSS

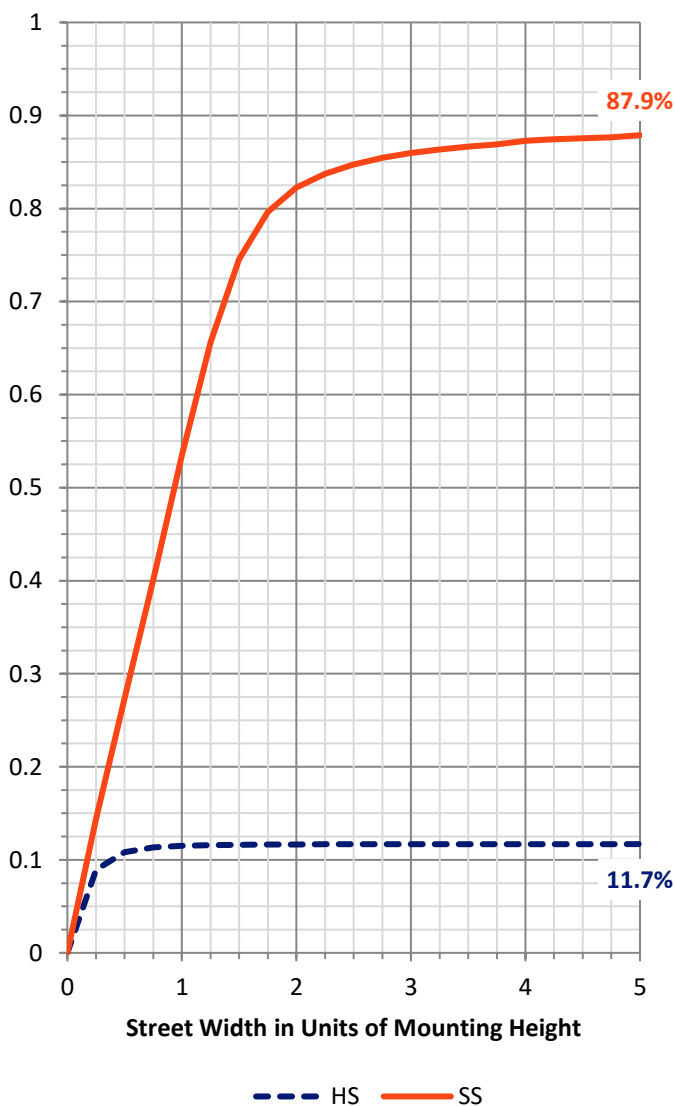
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2595.0	0.0	2595.0
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	19419.4	0.0	19419.4
	% Fixture	88.2	0.0	88.2
Total	Lumens	22014.3	0.0	22014.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.2	2.1
10°-20°	1018.3	4.6
20°-30°	1410.4	6.4
30°-40°	1966.6	8.9
40°-50°	3056.7	13.9
50°-60°	4907.2	22.3
60°-70°	5550.8	25.2
70°-80°	3260.0	14.8
80°-90°	379.2	1.7
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°	22014.3	100.0
0°-180°	22014.3	100.0

Coefficient of Utilization

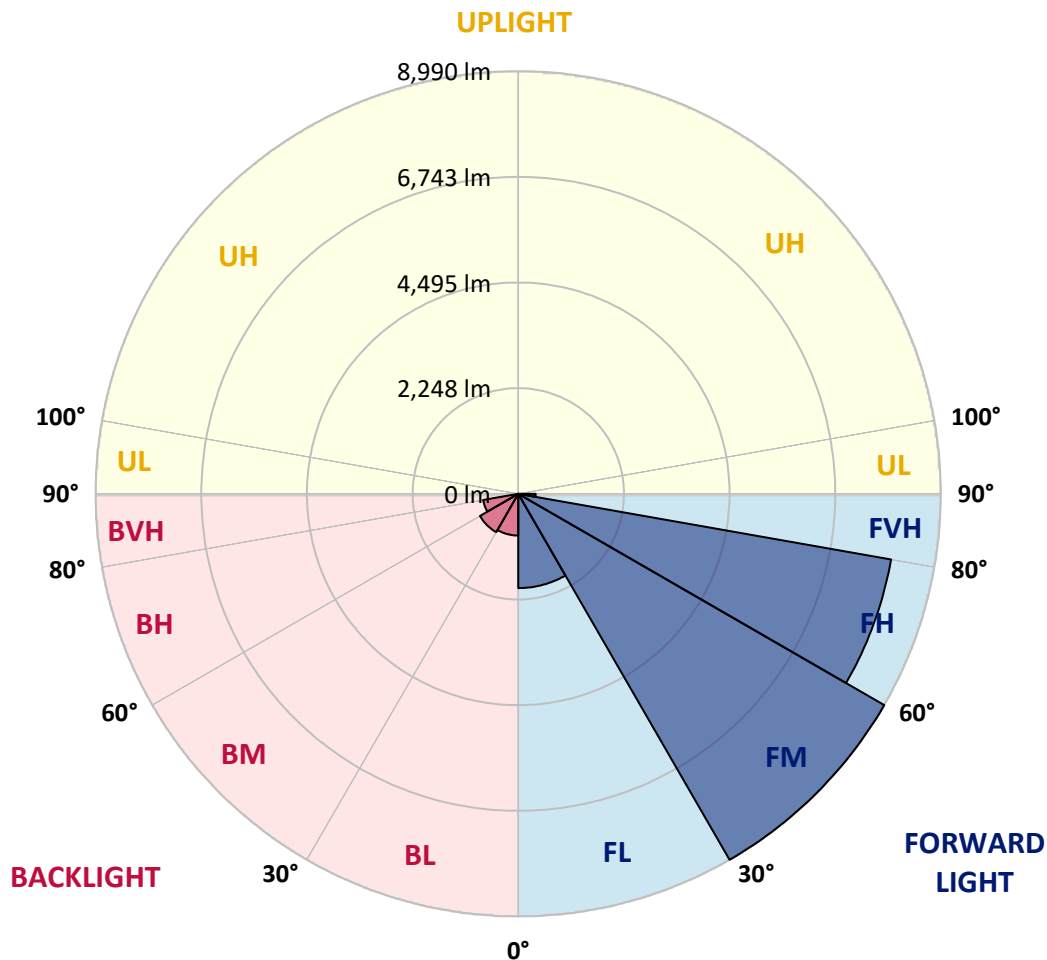


REPORT NUMBER: P383108
 CATALOG NUMBER: GLEON-SA4C-735-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2006.0	9.1			
FM (30°-60°)	8990.0	40.8			
FH (60°-80°)	8052.6	36.6			G4/12000
FVH (80°-90°)	370.7	1.7			G3/500
BL (0°-30°)	887.9	4.0	B2/1000		
BM (30°-60°)	940.4	4.3	B1/1000		
BH (60°-80°)	758.2	3.4	B2/1000		G2/1000
BVH (80°-90°)	8.5	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-G4
 Type III Medium





REPORT NUMBER: P383108

CATALOG NUMBER: GLEON-SA4C-735-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	5563.0	5563.0	5563.0	5563.0	5563.0	5563.0	5563.0	5563.0	5563.0	5563.0	5563.0
2.5°	5612.4	5598.4	5609.6	5633.8	5645.9	5645.9	5655.2	5644.1	5647.8	5620.8	5581.6
5°	5261.3	5239.9	5270.6	5338.6	5422.4	5494.1	5600.3	5656.2	5661.8	5662.7	5617.0
7.5°	4883.1	4863.5	4909.2	4989.3	5097.3	5230.5	5415.9	5577.9	5587.2	5674.8	5641.3
10°	4575.7	4561.7	4614.8	4700.5	4827.2	4976.2	5203.5	5429.0	5456.0	5649.6	5637.5
12.5°	4331.6	4320.4	4370.7	4469.5	4599.0	4763.8	5001.4	5263.2	5299.5	5592.8	5618.9
15°	4153.7	4151.8	4193.7	4288.8	4432.2	4585.9	4829.0	5109.4	5151.4	5531.3	5616.1
17.5°	4060.5	4063.3	4094.1	4175.1	4298.1	4450.8	4683.7	4980.0	5025.6	5476.5	5630.1
20°	4051.2	4054.0	4070.8	4116.4	4216.1	4351.2	4565.4	4871.0	4918.5	5435.5	5652.4
22.5°	4133.2	4131.3	4136.0	4131.3	4187.2	4289.7	4487.2	4787.1	4842.1	5408.5	5670.1
25°	4290.6	4287.8	4286.0	4251.5	4214.2	4269.2	4454.6	4739.6	4791.8	5388.9	5680.4
27.5°	4509.5	4507.7	4504.9	4448.0	4336.3	4301.8	4458.3	4721.9	4765.7	5373.1	5678.5
30°	4797.4	4810.4	4806.7	4727.5	4553.3	4401.5	4497.4	4712.6	4750.8	5342.3	5659.0
32.5°	5135.5	5161.6	5182.1	5097.3	4879.4	4599.0	4587.8	4722.9	4750.8	5319.0	5623.6
35°	5486.6	5520.2	5595.6	5565.8	5279.0	4896.1	4743.3	4784.3	4807.6	5332.1	5606.8
37.5°	5832.2	5872.3	6036.2	6122.9	5802.4	5289.2	4985.5	4936.2	4948.3	5411.3	5625.4
40°	6233.7	6294.3	6543.0	6682.7	6427.5	5815.5	5347.9	5197.0	5201.7	5585.4	5712.1
42.5°	6761.0	6823.4	7092.6	7311.5	7131.7	6480.6	5839.7	5595.6	5591.0	5911.4	5916.1
45°	7403.8	7469.0	7747.5	7990.6	7909.6	7268.7	6469.4	6177.8	6172.2	6425.6	6302.7
47.5°	8132.2	8196.5	8445.2	8695.8	8783.4	8189.0	7271.5	6972.4	6959.4	7140.1	6899.8
50°	8757.3	8799.2	9028.4	9365.5	9760.5	9319.9	8269.2	7981.3	7967.3	8089.4	7776.4
52.5°	8984.6	9008.8	9241.6	9713.9	10699.5	10851.3	9579.8	9209.0	9198.8	9251.9	8943.6
55°	8524.4	8568.2	8854.2	9554.6	11208.1	12582.1	11234.2	10729.3	10652.0	10537.4	10163.8
57.5°	7270.5	7340.4	7647.8	8579.4	10970.6	13955.1	13665.4	12448.9	12335.3	11634.8	11155.9
60°	5447.6	5533.2	5788.5	6793.6	9702.7	14444.2	16322.2	14365.0	14108.8	12508.5	12067.9
62.5°	3738.2	3781.1	3954.3	4609.2	7145.7	13643.1	18544.8	16931.3	16463.7	13458.6	13054.3
65°	2855.1	2870.0	2940.8	3166.2	4255.2	11082.3	19428.8	20317.4	19752.1	14595.1	14078.1
67.5°	2300.8	2288.7	2386.5	2708.8	2849.5	6761.0	18397.6	23521.0	23256.5	16114.5	15108.4
69°	2028.8	2012.0	2111.7	2486.2	2676.2	4469.5	16447.0	24248.5	24265.2	16916.4	15179.2
70°	1825.8	1836.9	1935.7	2353.9	2617.6	3508.1	14583.9	24063.1	24195.4	17216.4	14754.4
72.5°	1219.4	1249.2	1447.6	1954.3	2516.9	2654.8	8805.7	20649.1	21157.7	16541.0	12658.5
75°	687.5	709.8	945.5	1473.7	2371.6	2528.1	4651.1	15212.7	15704.6	13832.2	9761.4
77.5°	337.2	349.3	534.7	951.1	1983.2	2408.9	2638.0	10333.4	10895.1	9028.4	5521.1
80°	142.5	149.0	267.4	586.9	1417.8	2299.0	1959.0	6359.5	6429.4	3537.0	1470.9
82.5°	55.0	56.8	112.7	366.1	900.8	1792.3	1638.6	3015.3	2942.7	666.1	335.4
85°	6.5	7.5	41.0	219.8	501.2	922.2	1331.2	1299.5	1202.6	132.3	172.3
87.5°	0.0	0.0	2.8	67.1	149.0	432.2	692.1	539.4	486.3	42.9	89.4
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: P383108

CATALOG NUMBER: GLEON-SA4C-735-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5563.0	5563.0	5563.0	5563.0	5563.0	5563.0	5563.0	5563.0	5563.0	5563.0	5563.0
2.5°	5549.0	5539.7	5489.4	5416.9	5347.9	5262.2	5180.2	5130.9	5091.7	5065.7	5096.4
5°	5563.9	5523.0	5370.3	5174.7	4982.8	4766.6	4565.4	4394.9	4327.9	4253.4	4286.9
7.5°	5559.3	5482.1	5207.3	4858.9	4506.7	4142.5	3797.8	3532.3	3394.5	3259.4	3293.9
10°	5536.0	5405.7	4989.3	4473.2	3945.9	3422.4	2933.4	2561.7	2353.9	2165.8	2192.8
12.5°	5484.8	5303.2	4732.2	4031.6	3326.5	2636.2	2063.3	1587.4	1332.1	1219.4	1233.4
15°	5454.1	5203.5	4460.2	3584.5	2665.1	1836.0	1261.3	938.1	821.6	784.4	789.0
17.5°	5439.2	5107.6	4178.8	3073.1	1988.8	1169.1	815.1	719.2	694.0	687.5	689.3
20°	5424.3	5010.7	3889.1	2567.3	1370.3	786.2	669.8	641.8	632.5	624.1	626.0
22.5°	5399.2	4917.5	3578.0	2054.9	924.1	638.1	603.6	576.6	557.1	546.8	548.7
25°	5368.4	4819.7	3260.3	1530.5	674.4	569.2	536.6	498.4	475.1	456.5	457.4
27.5°	5319.0	4699.6	2932.4	1114.1	566.4	509.6	465.8	423.9	384.7	363.3	363.3
30°	5250.1	4563.6	2568.2	797.4	507.7	450.9	397.8	345.6	303.7	284.1	282.3
32.5°	5173.7	4422.0	2200.2	604.6	461.1	395.9	335.4	280.4	243.1	227.3	226.4
35°	5108.5	4269.2	1833.2	506.8	414.5	342.8	276.7	230.1	200.3	187.2	186.3
37.5°	5066.6	4116.4	1475.6	452.7	372.6	293.4	232.0	190.0	168.6	158.4	157.4
40°	5060.1	4002.8	1148.6	411.7	333.5	249.7	193.8	161.2	141.6	130.4	129.5
42.5°	5144.8	3937.6	881.2	377.3	293.4	211.5	164.9	137.9	117.4	106.2	105.3
45°	5367.5	3958.1	678.2	346.5	253.4	178.9	139.7	114.6	95.9	87.6	85.7
47.5°	5773.5	4099.6	539.4	315.8	215.2	151.8	119.2	95.0	79.2	70.8	69.9
50°	6496.4	4432.2	450.9	282.3	179.8	129.5	98.7	77.3	64.3	56.8	55.9
52.5°	7455.9	5024.7	402.4	249.7	149.0	109.9	81.0	61.5	50.3	44.7	43.8
55°	8514.2	5741.9	370.8	214.3	122.0	91.3	64.3	48.4	39.1	34.5	32.6
57.5°	9547.2	6363.2	340.9	179.8	101.5	74.5	51.2	38.2	30.7	26.1	25.2
60°	10496.4	6934.3	306.5	144.4	82.9	58.7	40.1	29.8	24.2	19.6	19.6
62.5°	11512.7	7375.8	259.0	112.7	68.0	44.7	32.6	27.0	19.6	16.8	15.8
65°	12589.6	7703.7	203.1	87.6	53.1	33.5	27.0	27.9	15.8	12.1	11.2
67.5°	13385.0	7638.5	150.0	68.9	41.0	26.1	26.1	29.8	14.0	9.3	8.4
69°	13209.9	7108.5	125.8	59.6	35.4	22.4	24.2	29.8	13.0	8.4	7.5
70°	12702.3	6521.6	110.9	53.1	31.7	20.5	23.3	28.9	12.1	8.4	7.5
72.5°	10578.4	4912.0	86.6	40.1	25.2	16.8	19.6	25.2	12.1	8.4	6.5
75°	7957.1	3143.9	66.1	28.9	18.6	13.0	14.9	18.6	12.1	7.5	6.5
77.5°	4329.7	1133.7	47.5	19.6	13.0	10.2	10.2	14.0	11.2	5.6	3.7
80°	1113.2	285.1	29.8	13.0	10.2	7.5	6.5	9.3	6.5	0.9	0.0
82.5°	274.8	64.3	15.8	9.3	7.5	2.8	2.8	4.7	2.8	0.0	0.0
85°	150.9	31.7	10.2	6.5	3.7	0.0	0.0	0.9	0.0	0.0	0.0
87.5°	77.3	9.3	2.8	1.9	0.9	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)