

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: P455217

Luminaire Tested: **GALN-SA6B-827-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455217  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6B-827-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20404 lumens  
Efficiency: N/A  
Efficacy: 84.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G4

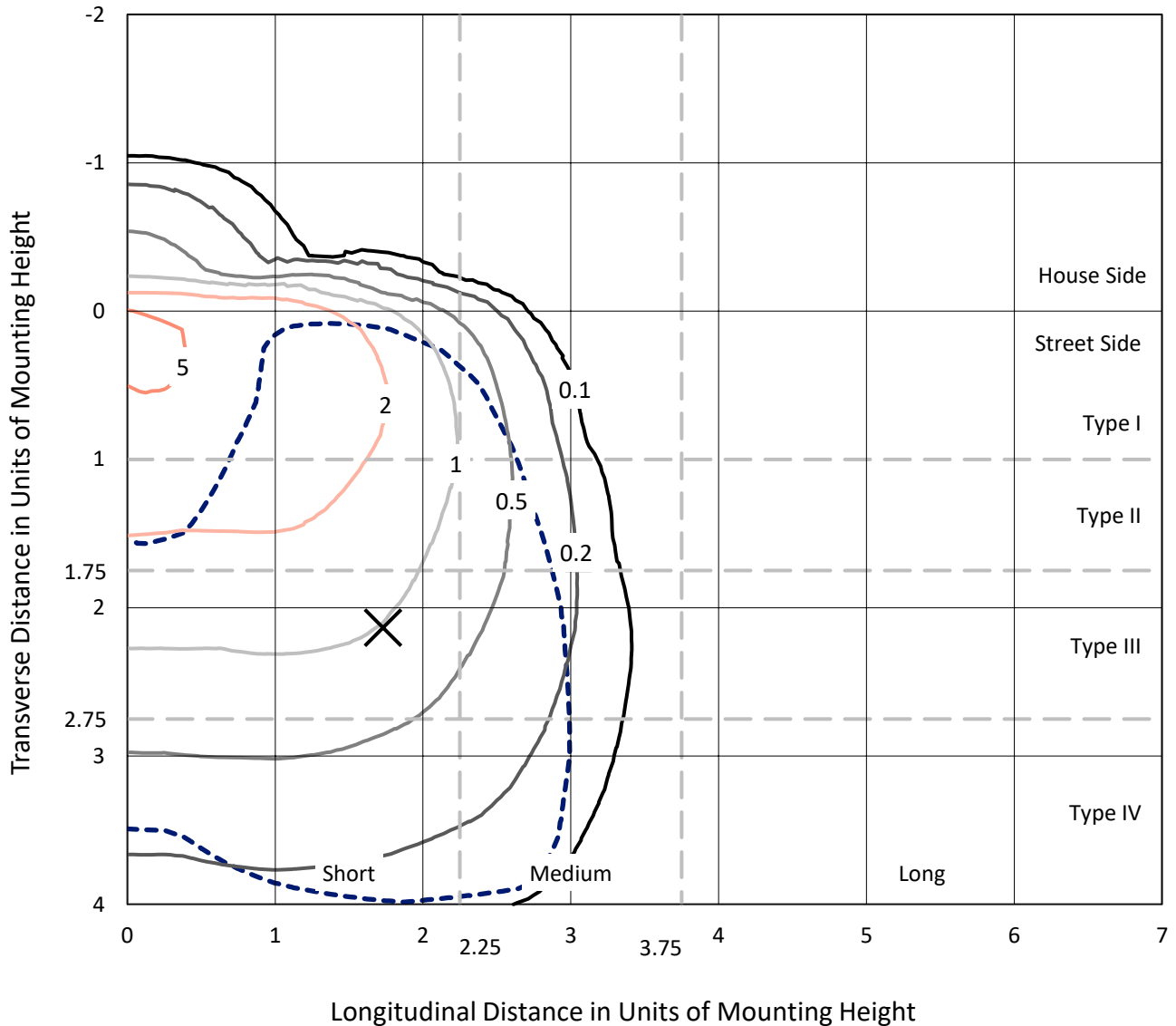
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P455217  
 CATALOG NUMBER: GALN-SA6B-827-U-SL4-HSS

### Iso-Footcandle Lines of Horizontal Illumination

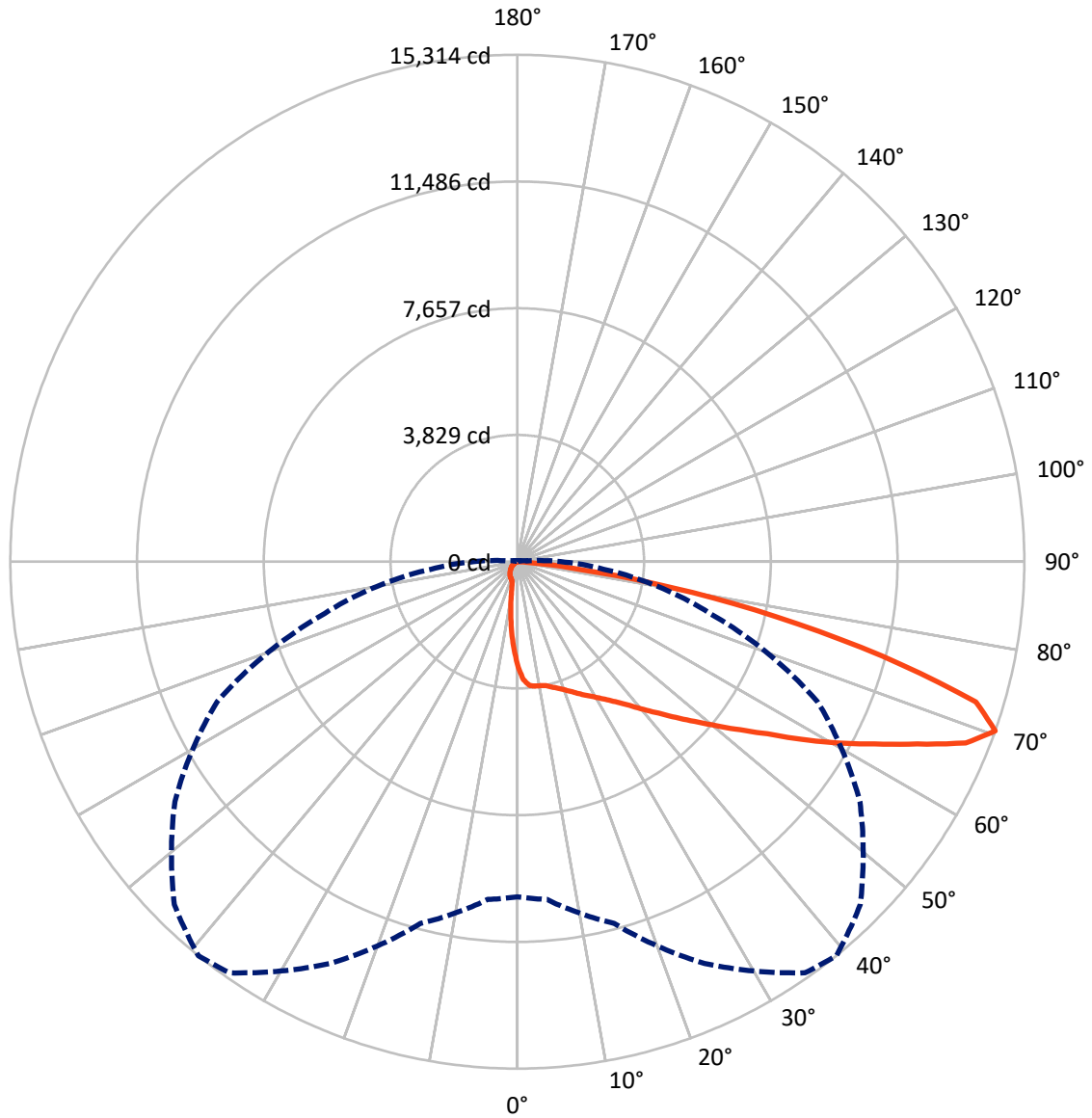
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc  
 Type IV - Short - N/A

REPORT NUMBER: P455217  
CATALOG NUMBER: GALN-SA6B-827-U-SL4-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P455217

CATALOG NUMBER: GALN-SA6B-827-U-SL4-HSS

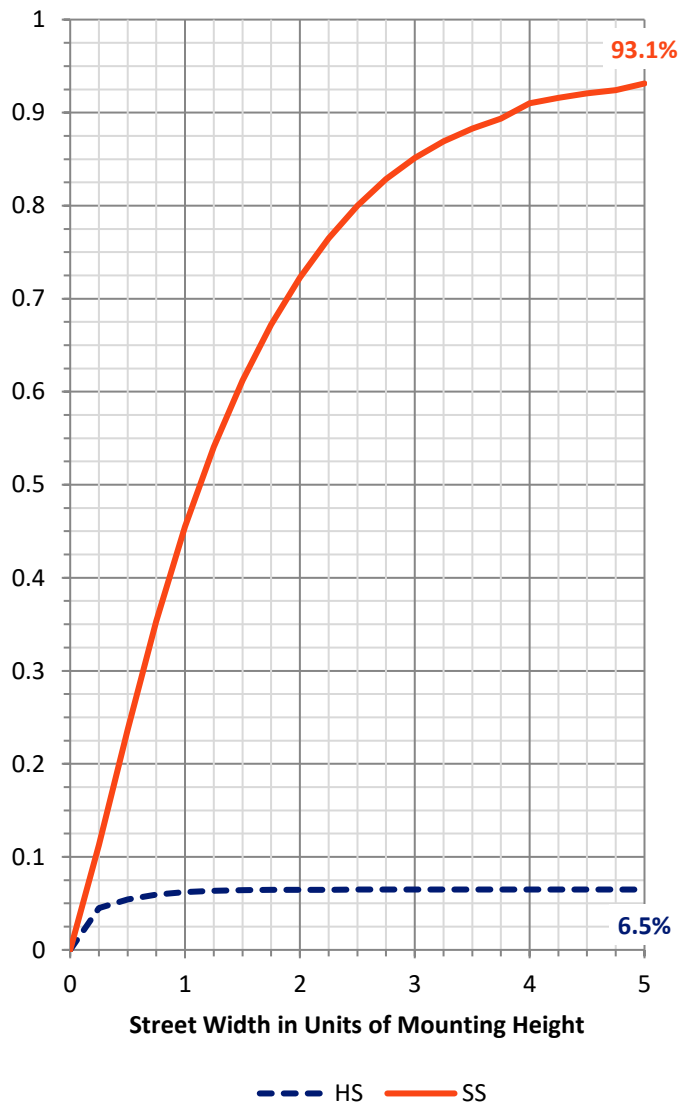
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1330.4	0.0	1330.4
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	19073.6	0.0	19073.6
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	20404.0	0.0	20404.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	271.5	1.3
10°-20°	705.7	3.5
20°-30°	1182.2	5.8
30°-40°	1833.5	9.0
40°-50°	2905.5	14.2
50°-60°	4259.0	20.9
60°-70°	5459.0	26.8
70°-80°	3430.3	16.8
80°-90°	357.4	1.8
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°	20404.0	100.0
0°-180°	20404.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P455217

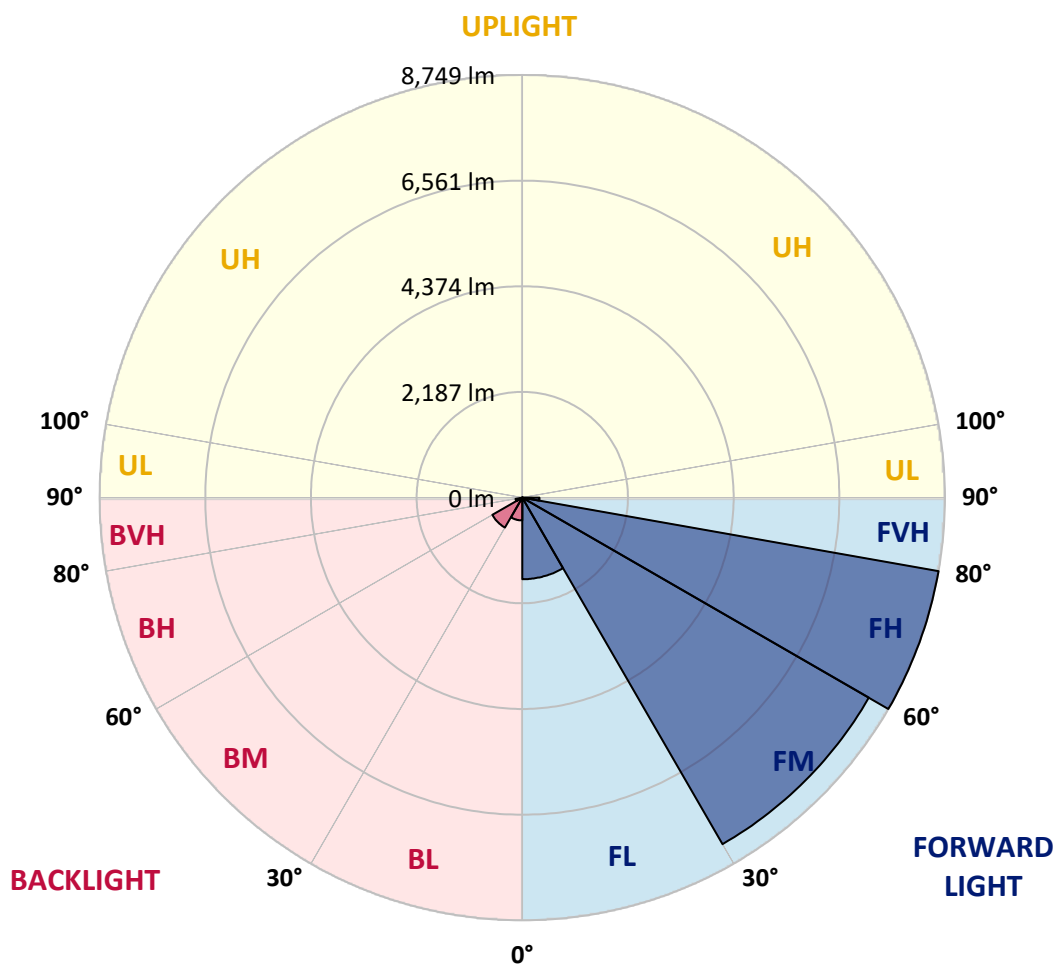
CATALOG NUMBER: GALN-SA6B-827-U-SL4-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1688.3	8.3			
FM (30°-60°)	8281.9	40.6			
FH (60°-80°)	8748.6	42.9			G4/12000
FVH (80°-90°)	354.7	1.7			G3/500
BL (0°-30°)	471.1	2.3	B1/500		
BM (30°-60°)	716.0	3.5	B1/1000		
BH (60°-80°)	140.7	0.7	B1/500		G1/500
BVH (80°-90°)	2.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G4**

Type IV Short





REPORT NUMBER: P455217

CATALOG NUMBER: GALN-SA6B-827-U-SL4-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3183.7	3183.7	3183.7	3183.7	3183.7	3183.7	3183.7	3183.7	3183.7	3183.7	3183.7
2.5°	3678.7	3666.4	3649.9	3630.7	3575.9	3566.3	3533.4	3463.4	3379.8	3311.2	3216.6
5°	3852.8	3859.7	3847.3	3813.1	3773.3	3750.0	3708.9	3600.5	3492.2	3353.7	3198.8
7.5°	3892.6	3906.3	3891.2	3858.3	3819.9	3795.2	3762.3	3669.1	3543.0	3385.3	3172.8
10°	3888.5	3904.9	3895.3	3865.2	3833.6	3810.3	3774.7	3700.6	3599.2	3433.3	3181.0
12.5°	3881.6	3903.6	3902.2	3887.1	3861.1	3843.2	3821.3	3755.5	3660.9	3503.2	3226.2
15°	3862.4	3889.8	3914.5	3926.9	3928.2	3928.2	3900.8	3830.9	3740.4	3595.1	3285.2
17.5°	3870.7	3902.2	3963.9	3999.5	4024.2	4021.5	3992.7	3917.3	3817.2	3689.7	3346.9
20°	3921.4	3963.9	4050.3	4121.6	4146.2	4138.0	4099.6	4011.9	3898.1	3770.6	3407.2
22.5°	4046.2	4084.5	4192.9	4276.5	4294.3	4272.4	4217.5	4098.3	3995.4	3858.3	3479.9
25°	4232.6	4277.9	4378.0	4441.0	4441.0	4428.7	4351.9	4212.1	4105.1	3980.3	3574.5
27.5°	4458.9	4497.2	4596.0	4652.2	4619.3	4583.6	4506.8	4338.2	4235.4	4133.9	3688.3
30°	4687.8	4712.5	4816.7	4841.4	4807.1	4761.9	4679.6	4511.0	4420.5	4342.3	3852.8
32.5°	4904.5	4957.9	5044.3	5038.8	4992.2	4970.3	4894.9	4715.3	4664.5	4656.3	4083.2
35°	5121.1	5162.2	5239.0	5258.2	5217.1	5213.0	5158.1	5025.1	5026.5	5080.0	4442.4
37.5°	5307.6	5344.6	5435.1	5477.6	5485.8	5506.4	5484.5	5396.7	5521.5	5668.2	4918.2
40°	5463.9	5516.0	5631.2	5705.2	5790.2	5865.6	5869.7	5888.9	6139.8	6392.1	5539.3
42.5°	5585.9	5658.6	5825.9	5963.0	6157.7	6253.6	6330.4	6436.0	6858.3	7235.4	6271.5
45°	5745.0	5828.6	6037.0	6252.3	6556.7	6714.3	6821.3	7103.7	7702.9	8217.1	7022.8
47.5°	6008.2	6052.1	6264.6	6578.6	6979.0	7203.8	7412.2	7840.0	8609.2	9069.9	7648.1
50°	6346.9	6375.7	6536.1	6972.1	7490.4	7786.5	8166.3	8669.5	9549.8	9777.4	8001.8
52.5°	6721.2	6730.8	6851.5	7405.4	8063.5	8436.5	8861.5	9482.6	10316.3	10282.0	8236.3
55°	7155.8	7142.1	7245.0	7875.7	8742.2	9168.6	9663.6	10314.9	10981.2	10639.8	8370.6
57.5°	7653.6	7616.5	7716.6	8499.5	9611.5	10121.6	10624.8	11033.3	11496.8	10940.1	8435.1
60°	8174.6	8100.5	8219.8	9200.2	10635.7	11119.7	11537.9	11647.6	12039.7	11178.7	8324.0
62.5°	8590.0	8591.4	8813.5	9946.1	11688.7	12112.4	12334.5	12433.3	12507.3	11126.6	7739.9
65°	9238.6	9260.5	9615.6	10981.2	12907.7	13275.1	13427.3	13106.5	12527.9	10479.4	6862.4
67.5°	9907.7	9977.6	10627.5	12407.2	14315.8	14611.9	14415.9	13236.7	11968.4	9002.7	5203.4
70°	10125.7	10240.8	11311.7	13388.9	15160.4	15314.0	14650.3	12629.3	10005.0	6019.2	2618.8
72.5°	9278.3	9464.8	10918.2	13031.1	14621.5	14488.5	13107.8	10591.8	6360.6	2285.6	799.4
75°	6543.0	6625.2	9074.0	10809.9	11760.0	11383.0	9970.7	6828.1	2616.1	641.7	274.2
77.5°	3378.4	3338.7	5396.7	7172.3	8387.1	7996.3	6529.2	3534.7	991.3	267.4	170.0
80°	1746.8	1775.6	2335.0	3758.2	5119.7	4711.1	3481.3	1638.5	527.9	148.1	130.3
82.5°	979.0	918.6	1342.3	1641.2	2394.0	1877.1	1335.5	1160.0	230.3	89.1	123.4
85°	178.2	186.5	736.3	887.1	830.9	527.9	430.5	774.7	67.2	49.4	86.4
87.5°	2.7	2.7	142.6	255.0	161.8	74.0	135.7	111.1	13.7	19.2	15.1
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: P455217

CATALOG NUMBER: GALN-SA6B-827-U-SL4-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3183.7	3183.7	3183.7	3183.7	3183.7	3183.7	3183.7	3183.7	3183.7	3183.7	3183.7
2.5°	3168.6	3116.5	3019.2	2923.2	2801.2	2701.1	2633.9	2564.0	2492.7	2498.2	2514.6
5°	3113.8	3023.3	2831.3	2628.4	2433.7	2258.2	2085.5	1930.5	1867.5	1809.9	1812.6
7.5°	3059.0	2931.4	2650.4	2332.3	2037.5	1738.6	1521.9	1343.7	1249.1	1177.8	1157.2
10°	3034.3	2865.6	2484.5	2047.1	1628.9	1302.6	1024.2	878.9	766.5	730.8	740.4
12.5°	3045.2	2832.7	2335.0	1789.3	1291.6	907.7	713.0	638.9	614.3	610.1	607.4
15°	3065.8	2809.4	2188.3	1504.1	948.8	674.6	599.2	585.5	582.7	580.0	581.4
17.5°	3093.2	2788.8	2032.0	1236.7	728.1	589.6	567.6	560.8	559.4	559.4	559.4
20°	3120.7	2765.5	1857.9	998.2	607.4	556.7	543.0	538.8	537.5	537.5	536.1
22.5°	3152.2	2745.0	1681.0	784.3	559.4	533.4	521.0	518.3	516.9	515.5	515.5
25°	3197.4	2718.9	1493.1	641.7	529.2	511.4	499.1	496.3	495.0	489.5	490.9
27.5°	3257.8	2699.7	1299.8	553.9	501.8	484.0	475.8	471.7	468.9	464.8	466.2
30°	3340.0	2683.3	1094.1	505.9	470.3	455.2	447.0	444.2	441.5	437.4	437.4
32.5°	3482.6	2690.1	877.5	467.5	441.5	423.7	415.4	412.7	410.0	405.8	405.8
35°	3696.5	2729.9	702.0	434.6	407.2	389.4	381.2	381.2	377.1	371.6	370.2
37.5°	4046.2	2831.3	563.5	403.1	374.3	357.9	348.3	345.5	341.4	333.2	331.8
40°	4458.9	2989.0	474.4	371.6	344.1	327.7	319.5	311.2	300.3	292.0	290.7
42.5°	4977.1	3150.8	411.3	340.0	315.4	300.3	290.7	277.0	260.5	249.5	248.2
45°	5517.4	3298.9	368.8	311.2	287.9	275.6	264.6	242.7	222.1	208.4	207.0
47.5°	5920.5	3326.3	334.6	283.8	264.6	252.3	237.2	209.8	182.4	170.0	165.9
50°	6111.0	3193.3	298.9	256.4	241.3	227.6	208.4	176.9	146.7	131.6	128.9
52.5°	6178.2	2963.0	270.1	231.7	218.0	201.6	178.2	142.6	115.2	100.1	98.7
55°	6150.8	2672.3	244.1	208.4	190.6	171.4	148.1	113.8	85.0	72.7	69.9
57.5°	6006.8	2302.1	218.0	185.1	163.2	144.0	117.9	85.0	57.6	46.6	45.2
60°	5618.8	1797.5	192.0	159.0	138.5	117.9	93.2	60.3	35.6	26.1	26.1
62.5°	4963.4	1334.1	167.3	133.0	116.5	94.6	65.8	38.4	19.2	13.7	12.3
65°	4147.6	984.5	139.9	112.4	97.3	74.0	46.6	23.3	9.6	4.1	2.7
67.5°	2894.4	607.4	116.5	91.9	79.5	53.5	28.8	9.6	4.1	0.0	0.0
70°	1314.9	289.3	89.1	69.9	60.3	38.4	15.1	5.5	2.7	0.0	0.0
72.5°	408.6	152.2	63.1	50.7	41.1	24.7	8.2	4.1	2.7	0.0	0.0
75°	189.2	97.3	39.8	27.4	23.3	12.3	5.5	2.7	1.4	0.0	0.0
77.5°	141.2	75.4	23.3	15.1	12.3	8.2	4.1	2.7	1.4	0.0	0.0
80°	123.4	38.4	13.7	9.6	6.9	5.5	2.7	1.4	0.0	0.0	0.0
82.5°	111.1	19.2	8.2	5.5	4.1	2.7	1.4	1.4	0.0	0.0	0.0
85°	60.3	11.0	5.5	4.1	2.7	1.4	1.4	0.0	0.0	0.0	0.0
87.5°	11.0	5.5	4.1	2.7	2.7	1.4	1.4	1.4	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)