

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: P454911

Luminaire Tested: **GALN-SA6A-740-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454911  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6A-740-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21232 lumens  
Efficiency: N/A  
Efficacy: 116.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

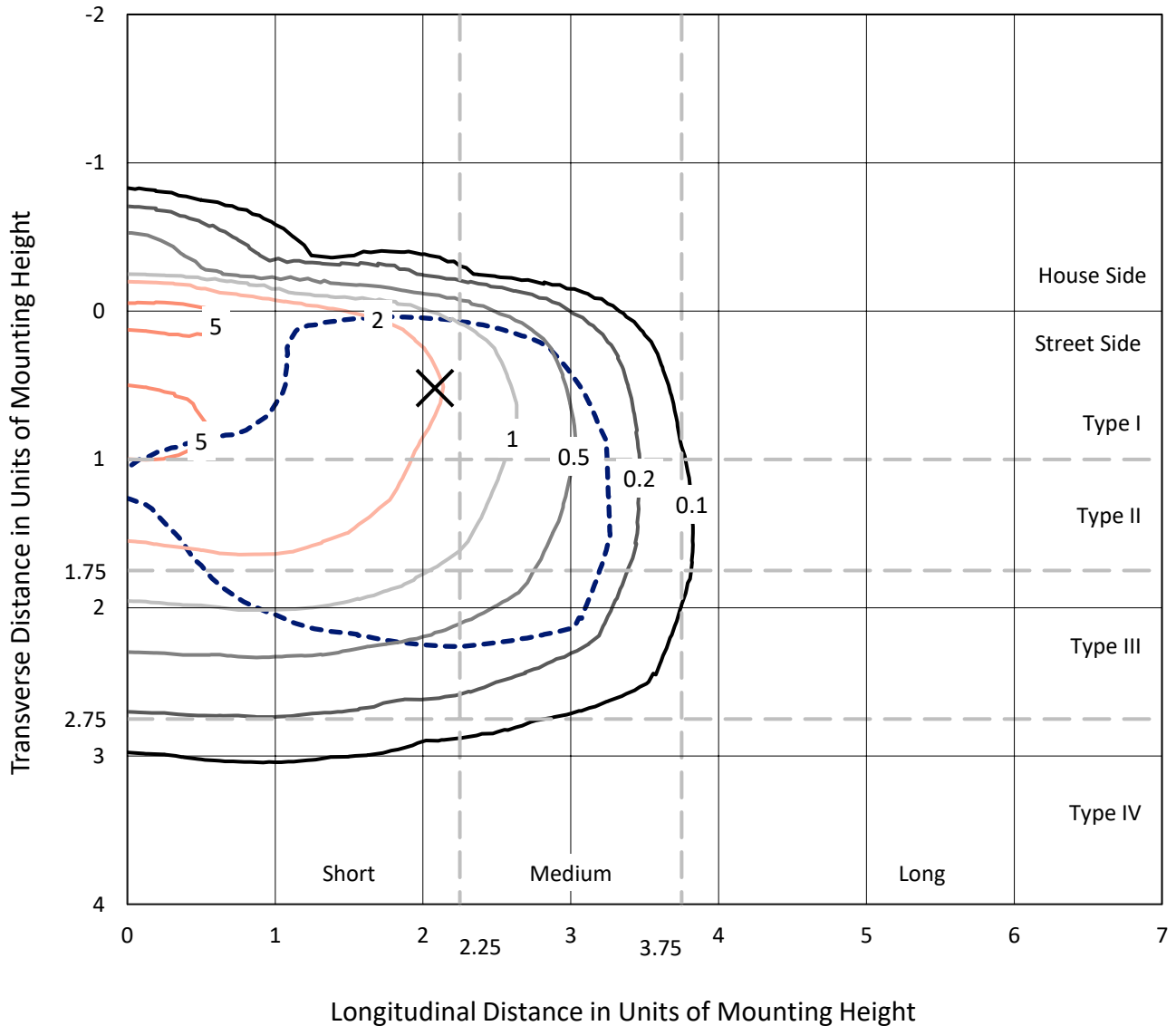
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P454911  
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### Iso-Footcandle Lines of Horizontal Illumination

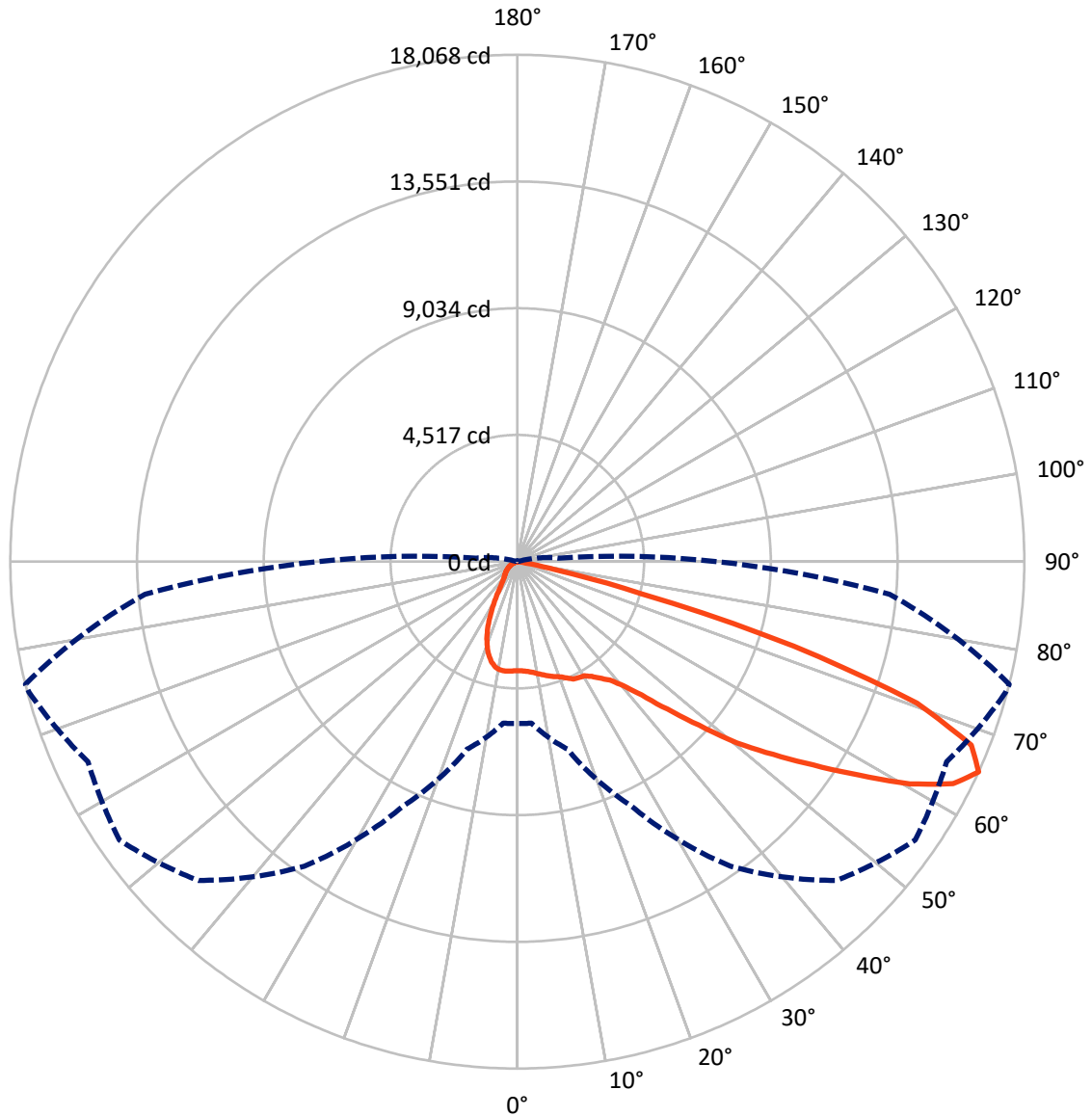
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
 Type III - Short - N/A

REPORT NUMBER: P454911  
CATALOG NUMBER: GALN-SA6A-740-U-T3R-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P454911

CATALOG NUMBER: GALN-SA6A-740-U-T3R-HSS

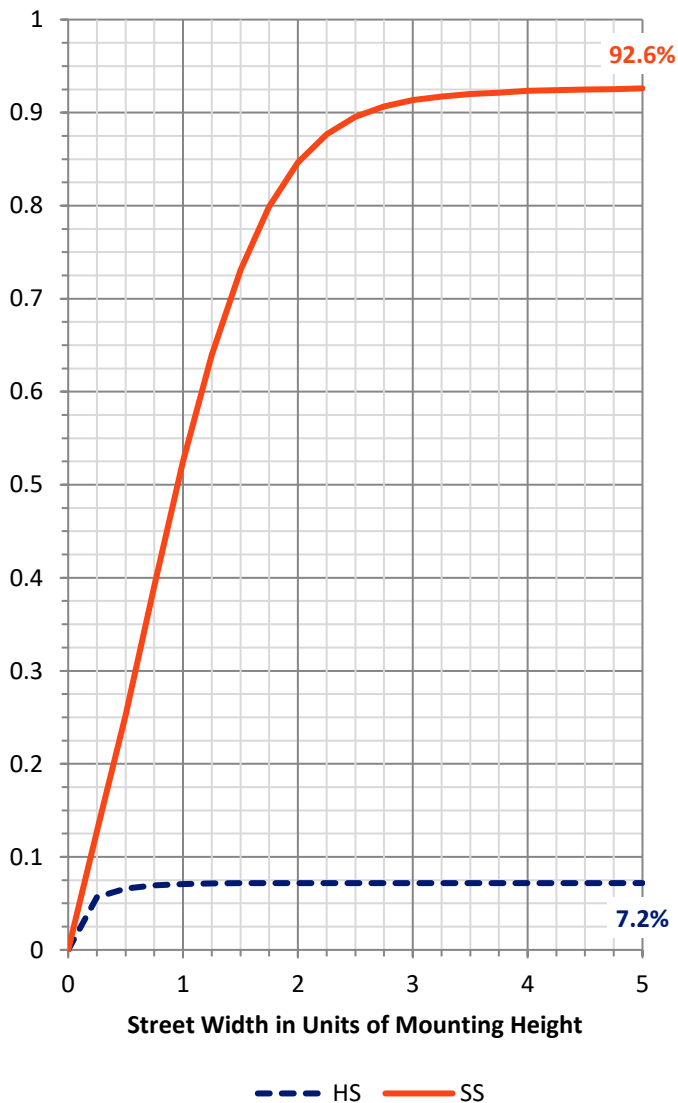
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1533.4	0.0	1533.4
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	19698.6	0.0	19698.6
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	21232.0	0.0	21232.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	319.9	1.5
10°-20°	712.4	3.4
20°-30°	1148.0	5.4
30°-40°	1996.0	9.4
40°-50°	3298.3	15.5
50°-60°	5095.2	24.0
60°-70°	6222.0	29.3
70°-80°	2361.4	11.1
80°-90°	78.8	0.4
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°	21232.0	100.0
0°-180°	21232.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P454911

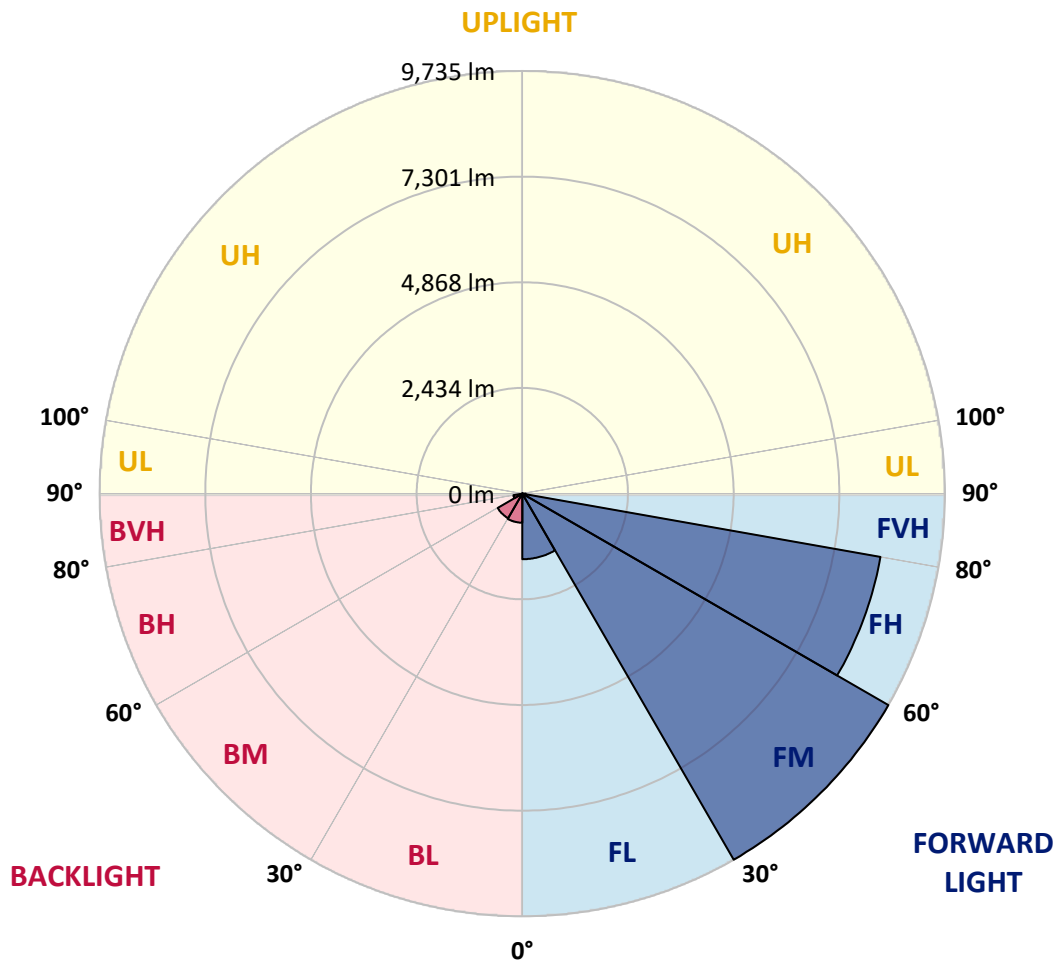
CATALOG NUMBER: GALN-SA6A-740-U-T3R-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1510.4	7.1			
FM	(30°-60°)	9735.2	45.9			
FH	(60°-80°)	8375.3	39.4			G4/12000
FVH	(80°-90°)	77.7	0.4			G1/100
BL	(0°-30°)	669.9	3.2	B2/1000		
BM	(30°-60°)	654.3	3.1	B1/1000		
BH	(60°-80°)	208.1	1.0	B1/500		G1/500
BVH	(80°-90°)	1.1	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 Short





REPORT NUMBER: P454911

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3884.0	3884.0	3884.0	3884.0	3884.0	3884.0	3884.0	3884.0	3884.0	3884.0	3884.0
2.5°	3711.6	3713.1	3722.1	3744.6	3779.1	3807.6	3831.5	3870.5	3897.5	3900.5	3909.5
5°	3455.3	3437.3	3455.3	3513.7	3566.2	3645.7	3743.1	3840.5	3927.5	3933.5	3975.5
7.5°	3167.5	3182.5	3210.9	3270.9	3369.8	3491.3	3632.2	3806.1	3971.0	3985.9	4068.4
10°	2875.2	2908.1	2954.6	3046.0	3184.0	3341.4	3533.2	3782.1	4039.9	4060.9	4203.3
12.5°	2605.3	2620.3	2677.3	2800.2	2971.1	3193.0	3458.3	3768.6	4116.4	4141.8	4347.2
15°	2398.5	2418.0	2467.4	2578.3	2768.7	3053.5	3396.8	3764.1	4191.3	4227.3	4491.1
17.5°	2359.5	2371.5	2392.5	2467.4	2633.8	2942.6	3341.4	3762.6	4263.3	4306.7	4624.5
20°	2519.9	2509.4	2488.4	2480.9	2572.4	2857.2	3300.9	3774.6	4332.2	4381.7	4765.4
22.5°	2921.6	2935.1	2812.2	2666.8	2636.8	2843.7	3294.9	3831.5	4441.7	4500.1	4922.8
25°	3774.6	3671.1	3479.3	3131.5	2869.2	2926.1	3362.3	3966.5	4569.1	4633.5	5065.3
27.5°	4717.5	4686.0	4387.7	3815.1	3326.4	3100.0	3482.3	4069.9	4611.0	4677.0	5146.2
30°	5643.9	5681.4	5339.6	4707.0	3990.4	3422.3	3594.7	4108.9	4648.5	4717.5	5249.6
32.5°	6502.8	6547.8	6248.0	5621.4	4772.9	3979.9	3788.1	4260.3	4805.9	4876.4	5422.0
35°	7178.9	7184.9	6958.5	6459.4	5627.4	4657.5	4206.3	4525.6	5018.8	5101.2	5604.9
37.5°	7799.5	7790.5	7525.2	7095.0	6339.4	5330.6	4732.5	4831.4	5261.6	5347.1	5868.7
40°	8259.7	8265.7	8180.3	7775.5	7003.5	5952.7	5149.2	5117.7	5669.4	5802.8	6252.5
42.5°	8567.0	8622.5	8664.4	8459.1	7838.5	6718.7	5789.3	5730.8	6376.9	6487.8	6795.1
45°	8815.8	8914.8	9124.7	9114.2	8640.5	7658.6	6667.7	6547.8	7379.8	7498.2	7486.2
47.5°	8997.2	9097.7	9445.4	9655.3	9394.5	8570.0	7772.5	7669.1	8577.5	8706.4	8249.2
50°	9090.2	9210.1	9653.8	10060.1	9983.6	9448.4	9031.7	9037.7	10024.1	10148.5	9133.6
52.5°	8872.8	9028.7	9764.7	10496.3	10644.7	10289.4	10211.5	10409.3	11311.7	11418.2	9932.6
55°	8178.8	8375.1	9613.3	10868.0	11410.7	11281.8	11551.6	11852.9	12719.3	12788.3	10752.6
57.5°	7739.5	7947.9	9166.6	11184.3	12331.1	12529.0	12956.2	13176.6	14171.9	14347.3	11694.0
60°	7369.3	7532.7	8799.4	11251.8	13266.5	14055.0	14470.2	14698.1	15964.8	16078.7	12729.8
62.5°	6753.2	6940.6	8178.8	10781.1	13737.2	15276.7	16137.2	16035.2	17351.4	17430.8	13365.4
65°	5762.3	5778.8	6919.6	9598.3	13251.5	16069.7	17307.9	16880.7	18014.0	18067.9	13316.0
67.5°	4300.7	4459.6	5323.1	7544.7	11193.3	15392.1	17687.2	16903.2	17595.7	17445.8	12259.1
70°	2770.2	2891.6	3608.2	5231.6	8070.8	12845.3	16429.5	15744.4	15443.1	15110.3	10034.6
72.5°	1278.7	1434.6	2143.6	2989.1	4786.4	9150.1	13337.0	12791.3	11115.4	10293.9	6378.4
75°	557.6	596.6	1058.3	1577.0	2244.1	4838.9	8793.4	7940.4	5020.3	4585.6	2552.9
77.5°	340.3	365.8	554.6	845.5	881.4	1843.8	4737.0	3464.3	1551.5	1368.6	692.6
80°	230.9	259.3	403.2	442.2	301.3	514.2	1777.9	924.9	313.3	299.8	148.4
82.5°	112.4	142.4	298.3	247.3	130.4	164.9	517.2	197.9	91.4	85.4	52.5
85°	16.5	28.5	167.9	161.9	58.5	39.0	91.4	49.5	31.5	30.0	24.0
87.5°	0.0	0.0	57.0	25.5	6.0	6.0	10.5	10.5	12.0	10.5	12.0
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: P454911

CATALOG NUMBER: GALN-SA6A-740-U-T3R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3884.0	3884.0	3884.0	3884.0	3884.0	3884.0	3884.0	3884.0	3884.0	3884.0	3884.0
2.5°	3914.0	3921.5	3893.0	3852.5	3809.1	3765.6	3704.1	3648.7	3615.7	3635.2	3587.2
5°	3984.4	3978.4	3903.5	3780.6	3617.2	3420.8	3225.9	3059.5	3005.6	2924.6	2915.6
7.5°	4081.9	4065.4	3906.5	3624.7	3255.9	2887.1	2527.4	2289.0	2152.6	2037.2	2040.2
10°	4218.3	4170.3	3872.0	3350.4	2743.2	2187.1	1728.4	1413.6	1277.2	1233.7	1199.2
12.5°	4359.2	4266.3	3776.1	2980.1	2136.1	1494.5	1050.8	858.9	775.0	748.0	745.0
15°	4485.1	4338.2	3608.2	2534.9	1553.0	954.9	716.5	653.6	643.1	644.6	643.1
17.5°	4609.5	4395.2	3375.8	2062.7	1055.3	685.1	616.1	601.1	605.6	611.6	610.1
20°	4713.0	4407.2	3079.0	1574.0	746.5	601.1	578.6	575.6	580.1	584.6	584.6
22.5°	4825.4	4416.2	2726.8	1089.8	610.1	559.1	547.1	547.1	553.1	559.1	560.6
25°	4909.4	4366.7	2305.5	782.5	538.2	518.7	512.7	514.2	520.2	523.2	521.7
27.5°	4922.8	4227.3	1858.8	599.6	488.7	469.2	463.2	469.2	461.7	466.2	463.2
30°	4934.8	4050.4	1406.1	505.2	443.7	413.7	404.7	395.7	389.8	382.3	380.8
32.5°	4972.3	3842.0	1026.8	454.2	401.7	368.8	347.8	322.3	302.8	296.8	295.3
35°	4988.8	3591.7	754.0	413.7	364.3	328.3	290.8	254.8	226.4	215.9	223.4
37.5°	5051.8	3348.9	584.6	383.8	331.3	286.3	238.3	193.4	166.4	160.4	163.4
40°	5180.7	3085.0	490.2	358.3	302.8	247.3	188.9	145.4	127.4	121.4	119.9
42.5°	5387.5	2822.7	436.2	334.3	274.3	208.4	148.4	113.9	98.9	94.4	94.4
45°	5639.4	2570.9	398.7	308.8	244.3	167.9	116.9	91.4	82.4	79.4	79.4
47.5°	5970.7	2350.5	367.3	283.3	211.4	133.4	94.4	79.4	73.5	75.0	76.5
50°	6306.5	2187.1	332.8	254.8	173.9	109.4	80.9	70.5	69.0	70.5	70.5
52.5°	6559.8	2091.2	286.3	215.9	136.4	91.4	72.0	66.0	64.5	61.5	61.5
55°	6901.6	2070.2	227.9	175.4	107.9	76.5	64.5	60.0	55.5	52.5	51.0
57.5°	7340.8	2094.2	175.4	136.4	83.9	63.0	57.0	49.5	43.5	37.5	37.5
60°	7613.6	2040.2	136.4	104.9	61.5	51.0	43.5	36.0	28.5	24.0	22.5
62.5°	7526.7	1812.3	107.9	78.0	43.5	37.5	28.5	24.0	16.5	12.0	10.5
65°	7078.5	1463.1	86.9	54.0	31.5	22.5	15.0	15.0	7.5	1.5	0.0
67.5°	6195.5	1083.8	69.0	36.0	18.0	10.5	7.5	4.5	0.0	0.0	0.0
70°	5042.8	782.5	54.0	22.5	10.5	7.5	3.0	1.5	0.0	0.0	0.0
72.5°	3201.9	448.2	42.0	13.5	7.5	3.0	0.0	0.0	0.0	0.0	0.0
75°	1238.2	175.4	28.5	9.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	350.8	82.4	16.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	91.4	36.0	9.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	43.5	15.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	25.5	6.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.0	1.5	0.0	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)