

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: P453254

Luminaire Tested: **GALN-SA4B-730-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453254  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA4B-730-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16413 lumens  
Efficiency: N/A  
Efficacy: 100.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

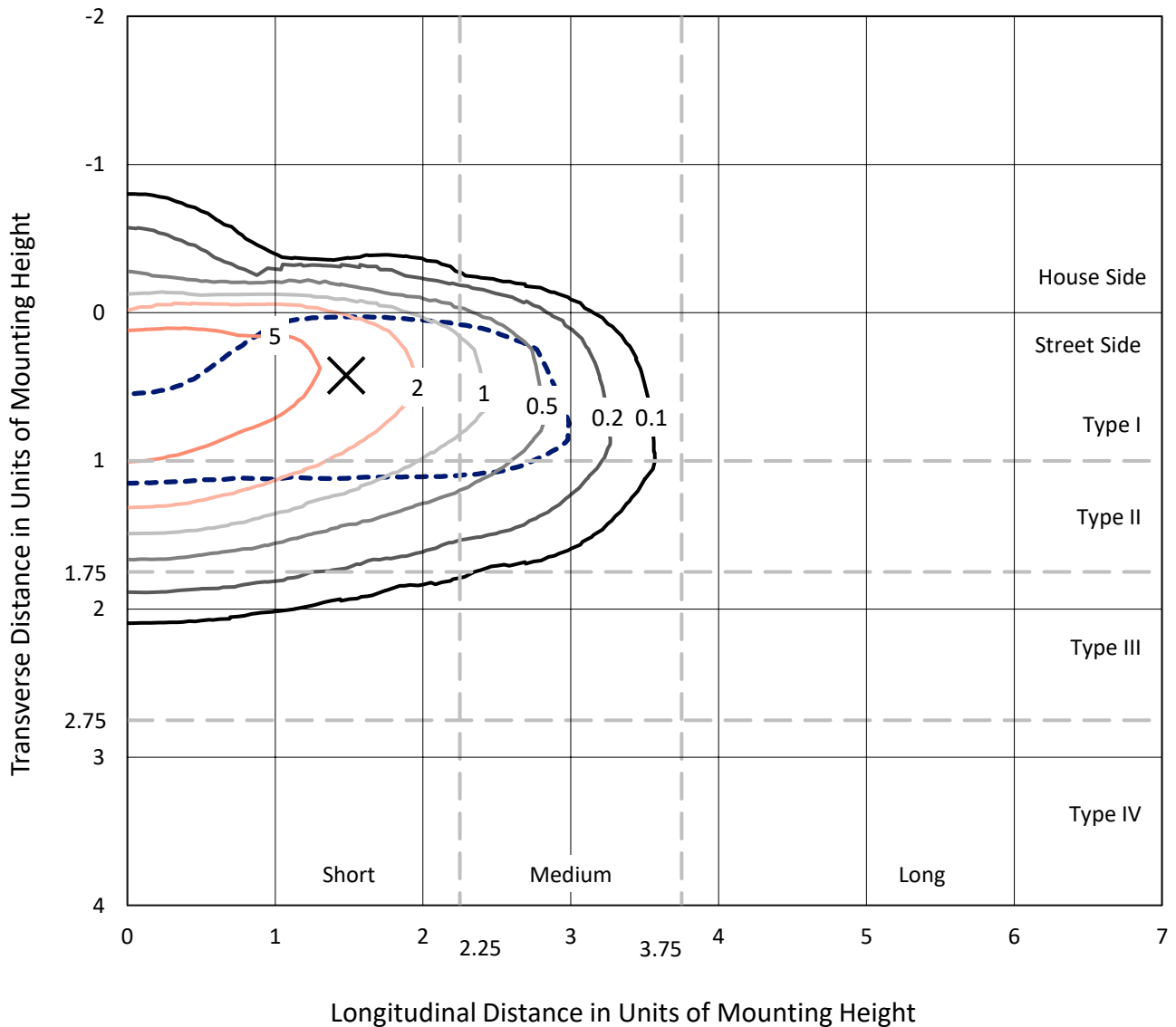
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P453254  
 CATALOG NUMBER: GALN-SA4B-730-U-T2R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

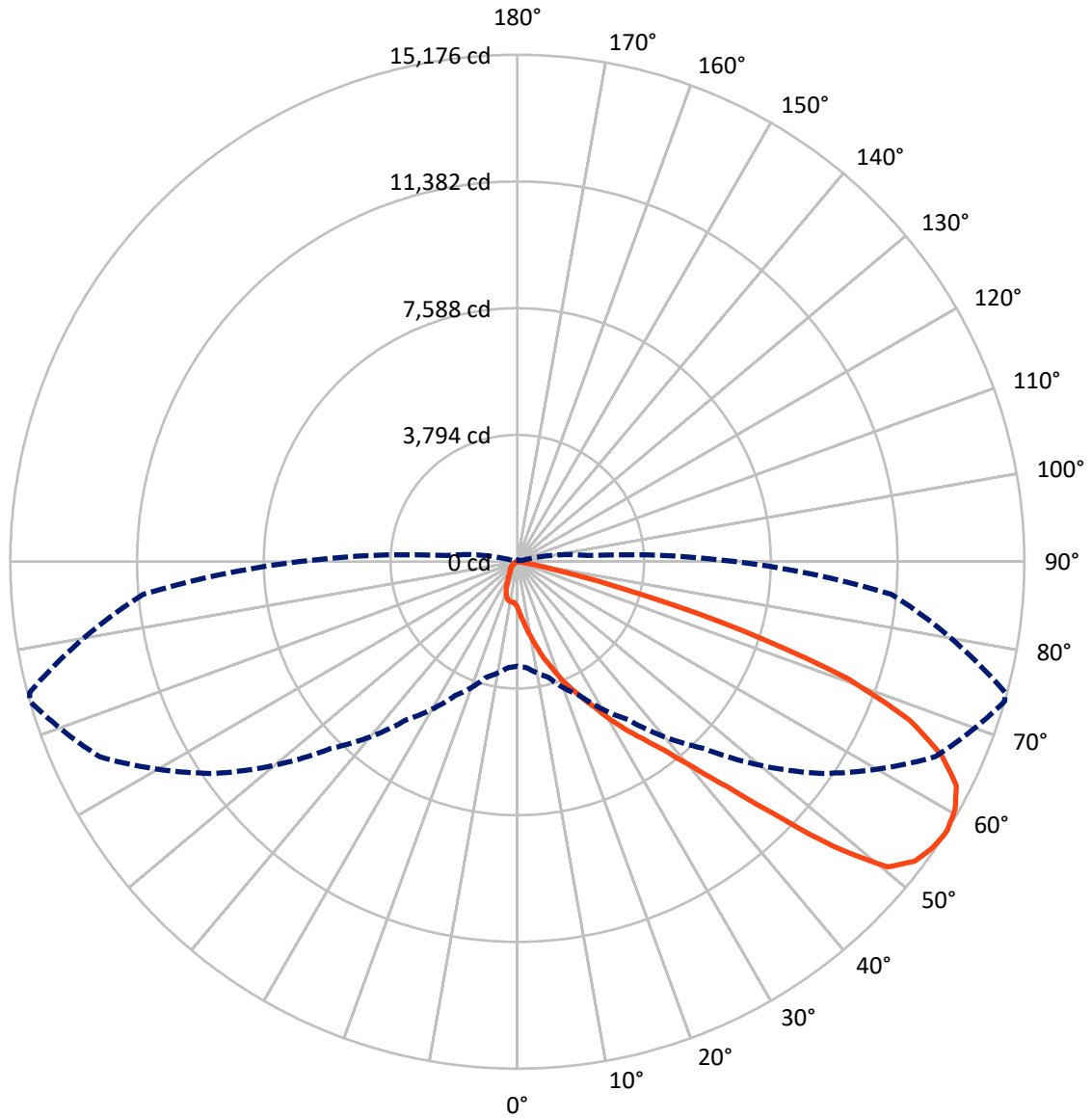
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc  
 Type II - Short - N/A

REPORT NUMBER: P453254  
CATALOG NUMBER: GALN-SA4B-730-U-T2R-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral    - - - Horizontal Cone Through 57-Deg Vertical

REPORT NUMBER: P453254

CATALOG NUMBER: GALN-SA4B-730-U-T2R-HSS

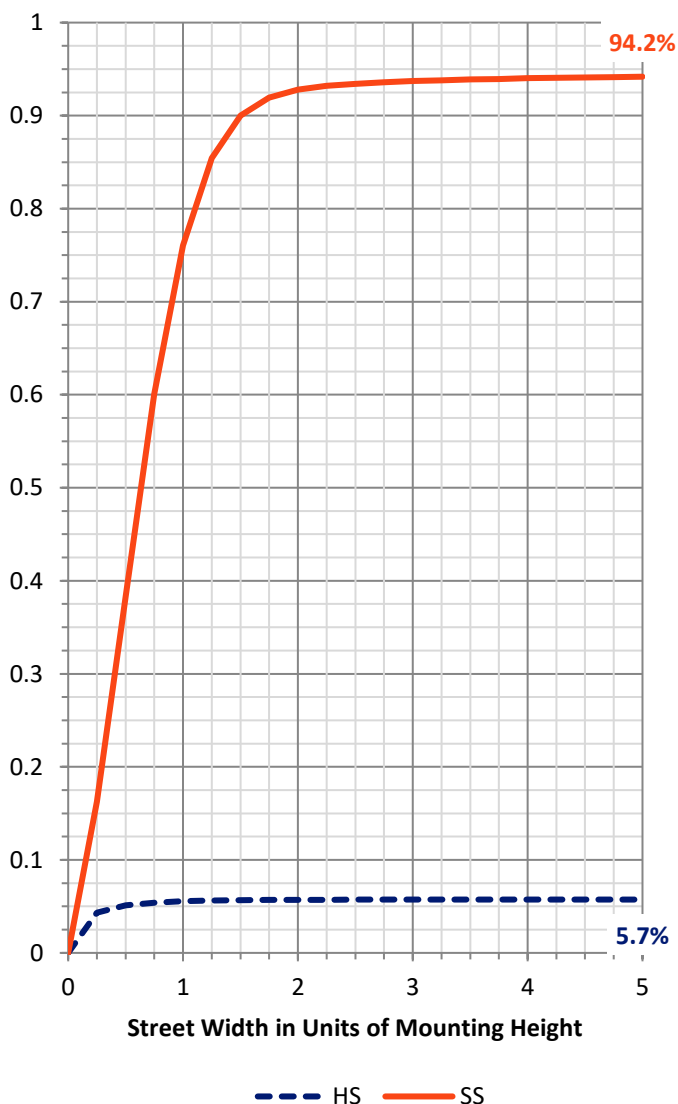
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	946.6	0.0	946.6
	% Fixture	5.8	0.0	5.8
<b>Street Side</b>	Lumens	15466.4	0.0	15466.4
	% Fixture	94.2	0.0	94.2
<b>Total</b>	Lumens	16413.0	0.0	16413.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.9	1.0
10°-20°	654.0	4.0
20°-30°	1399.3	8.5
30°-40°	2571.9	15.7
40°-50°	3942.8	24.0
50°-60°	4171.0	25.4
60°-70°	2723.8	16.6
70°-80°	744.2	4.5
80°-90°	40.1	0.2
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°	16413.0	100.0
0°-180°	16413.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P453254

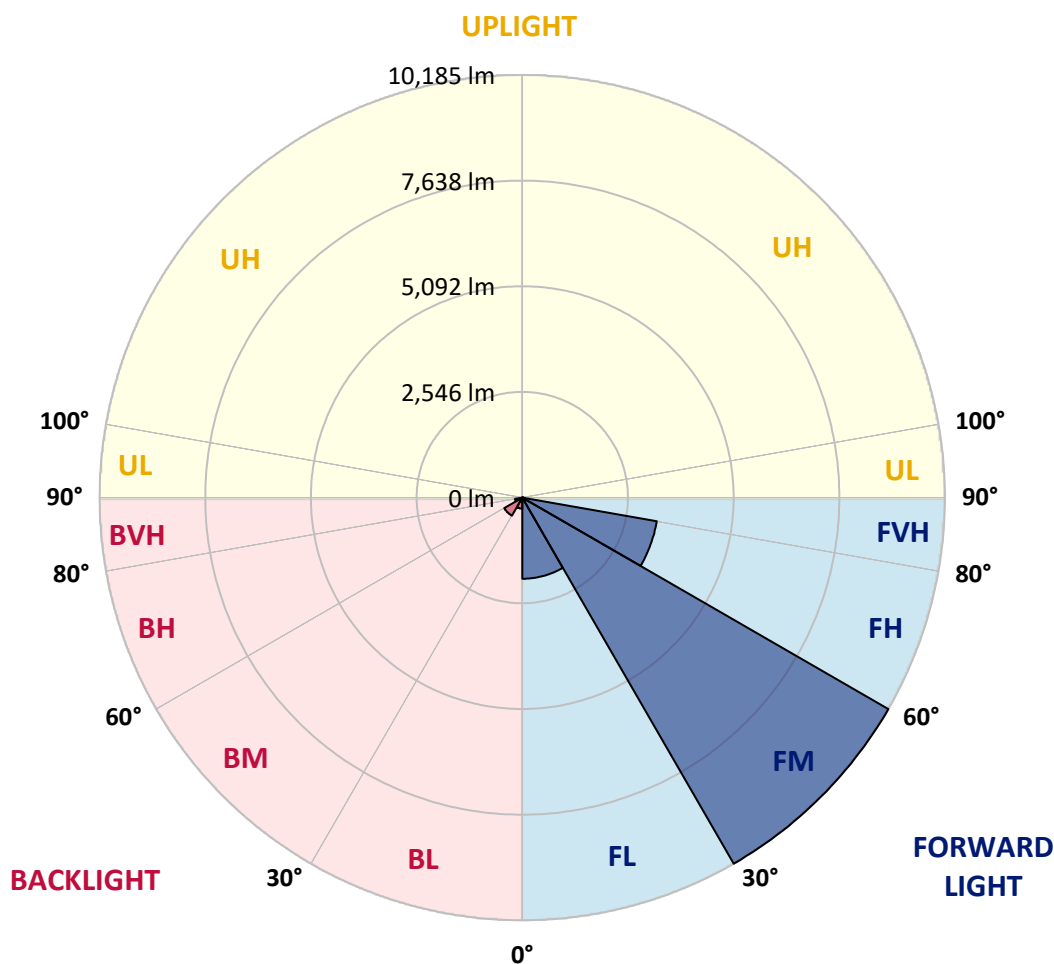
CATALOG NUMBER: GALN-SA4B-730-U-T2R-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1954.8	11.9			
FM (30°-60°)	10184.6	62.1			
FH (60°-80°)	3290.3	20.0			G2/5000
FVH (80°-90°)	36.8	0.2			G1/100
BL (0°-30°)	264.4	1.6	B1/500		
BM (30°-60°)	501.2	3.1	B1/1000		
BH (60°-80°)	177.7	1.1	B1/500		G1/500
BVH (80°-90°)	3.3	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-G2**

Type II Short





REPORT NUMBER: P453254

CATALOG NUMBER: GALN-SA4B-730-U-T2R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1374.6	1374.6	1374.6	1374.6	1374.6	1374.6	1374.6	1374.6	1374.6	1374.6	1374.6
2.5°	2011.4	1993.3	1957.0	1944.6	1891.3	1808.6	1736.1	1638.6	1561.5	1553.6	1460.7
5°	2693.6	2652.8	2635.8	2554.2	2426.2	2306.1	2099.8	1943.4	1763.3	1749.7	1562.7
7.5°	3350.9	3294.2	3277.2	3200.1	3050.6	2861.3	2593.9	2309.5	2023.9	1997.8	1699.8
10°	3826.8	3834.7	3804.1	3753.1	3631.9	3439.3	3109.5	2720.8	2314.0	2281.1	1853.9
12.5°	4167.9	4166.8	4172.4	4171.3	4106.7	3960.5	3613.8	3166.2	2633.5	2569.0	2030.7
15°	4390.0	4393.4	4410.4	4469.3	4476.1	4385.5	4096.5	3592.2	3004.1	2923.6	2222.2
17.5°	4614.4	4638.2	4665.4	4720.9	4770.8	4734.5	4530.5	4036.4	3339.5	3279.5	2427.3
20°	4984.9	5017.8	5001.9	5035.9	5062.0	5065.4	4907.9	4446.7	3746.3	3645.5	2661.9
22.5°	5577.6	5576.5	5535.7	5474.5	5423.5	5421.2	5278.4	4868.2	4115.8	4018.3	2897.6
25°	6326.6	6330.0	6250.7	6076.2	5949.3	5794.0	5629.7	5237.6	4511.3	4391.1	3145.8
27.5°	7185.6	7164.1	7043.9	6803.7	6552.1	6287.0	6050.1	5667.1	4930.5	4830.8	3430.2
30°	7957.3	7949.4	7808.9	7515.4	7184.5	6918.2	6574.8	6205.4	5473.3	5351.0	3748.6
32.5°	8675.8	8687.1	8492.2	8188.5	7868.9	7561.8	7199.2	6719.9	6005.9	5832.6	4095.4
35°	9236.7	9248.0	9046.3	8793.6	8465.0	8210.0	7864.4	7268.3	6531.7	6385.6	4494.3
37.5°	9535.8	9550.6	9433.9	9243.5	9038.4	8910.3	8588.5	7974.3	7170.9	7082.5	4965.7
40°	9592.5	9609.5	9558.5	9507.5	9496.2	9588.0	9493.9	8806.1	8057.0	7918.8	5668.2
42.5°	9422.5	9445.2	9467.9	9581.2	9812.3	10148.9	10476.4	9934.7	9198.2	9012.3	6527.2
45°	8976.0	8973.8	9063.3	9356.8	9874.7	10593.1	11503.1	11347.8	10752.9	10531.9	7740.9
47.5°	8212.3	8200.9	8394.7	8812.9	9619.7	10674.7	12340.5	13063.5	12737.1	12533.2	9045.2
50°	7048.5	7104.0	7408.8	7992.4	8986.2	10427.7	12598.9	14188.8	14365.5	14149.1	10099.0
52.5°	5685.2	5683.0	6161.2	6953.3	8048.0	9883.7	12418.7	14392.7	14894.7	14729.3	10618.1
55°	4207.6	4237.0	4734.5	5533.4	6829.8	8891.1	11830.6	14183.1	15096.4	14979.7	10960.3
57°	3129.9	3182.0	3580.9	4426.3	5769.1	7908.6	11047.5	13808.0	15175.8	15112.3	11244.7
57.5°	2921.4	2923.6	3312.3	4080.6	5458.6	7531.2	10823.2	13651.6	15173.5	15138.4	11291.2
60°	1798.4	1855.0	2123.6	2758.2	3995.7	5877.9	9319.4	12753.0	15055.6	15106.6	11489.5
62.5°	1076.5	1100.3	1274.8	1662.4	2575.8	4290.3	7626.4	11602.8	14748.6	14903.8	11475.9
65°	692.4	698.0	777.4	1006.3	1610.3	2899.8	5876.8	10083.2	13954.2	14239.7	11027.1
67.5°	534.9	543.9	575.7	660.7	933.8	1806.3	4156.6	8461.6	12669.1	13037.4	9939.3
70°	474.8	479.3	490.7	517.9	617.6	1019.9	2586.0	6609.9	10505.9	10610.1	7778.3
72.5°	387.6	400.0	435.1	444.2	489.5	636.9	1439.2	4436.5	7058.7	7084.7	4351.5
75°	300.3	302.6	354.7	380.8	412.5	438.5	642.5	2236.9	3390.5	3209.2	1677.1
77.5°	224.4	234.6	258.4	291.2	336.6	313.9	287.8	843.1	1052.7	1033.5	487.3
80°	143.9	149.6	180.2	218.7	261.8	205.1	162.0	247.0	231.2	238.0	116.7
82.5°	72.5	73.7	115.6	177.9	166.6	103.1	102.0	100.9	86.1	85.0	54.4
85°	7.9	17.0	74.8	102.0	74.8	34.0	47.6	46.5	45.3	46.5	31.7
87.5°	1.1	1.1	12.5	14.7	10.2	11.3	13.6	14.7	18.1	17.0	13.6
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: P453254

CATALOG NUMBER: GALN-SA4B-730-U-T2R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1374.6	1374.6	1374.6	1374.6	1374.6	1374.6	1374.6	1374.6	1374.6	1374.6	1374.6
2.5°	1415.4	1370.0	1286.2	1205.7	1145.7	1107.1	1057.3	1039.1	1013.1	1009.7	997.2
5°	1476.6	1390.4	1244.2	1128.7	1035.7	965.5	904.3	853.3	812.5	803.4	808.0
7.5°	1563.8	1435.8	1231.8	1074.3	945.1	825.0	727.5	667.5	624.4	608.5	610.8
10°	1662.4	1495.8	1229.5	1016.5	819.3	672.0	565.5	512.2	487.3	478.2	468.0
12.5°	1779.1	1564.9	1223.9	927.0	681.1	536.0	460.1	428.3	404.6	397.8	397.8
15°	1910.6	1638.6	1196.7	815.9	553.0	443.1	392.1	367.2	359.2	352.4	352.4
17.5°	2047.7	1711.1	1140.0	678.8	458.9	379.6	347.9	333.2	321.8	313.9	313.9
20°	2204.1	1782.5	1049.3	557.5	387.6	338.8	313.9	296.9	287.8	281.0	278.8
22.5°	2352.5	1840.3	933.8	457.8	337.7	304.8	282.2	264.0	255.0	251.6	251.6
25°	2506.6	1875.4	794.4	378.5	308.2	276.5	251.6	236.8	228.9	226.6	225.5
27.5°	2656.2	1895.8	672.0	330.9	281.0	250.4	226.6	215.3	207.4	205.1	206.2
30°	2837.5	1899.2	553.0	296.9	257.2	225.5	204.0	193.8	189.2	187.0	185.8
32.5°	3021.1	1894.7	464.6	276.5	234.6	204.0	185.8	177.9	174.5	171.1	171.1
35°	3227.3	1870.9	395.5	256.1	213.0	185.8	170.0	163.2	158.6	155.2	154.1
37.5°	3483.4	1858.4	355.8	233.4	193.8	168.8	154.1	147.3	143.9	139.4	138.2
40°	3886.9	1914.0	343.4	213.0	174.5	153.0	139.4	131.5	126.9	122.4	121.3
42.5°	4390.0	2011.4	323.0	192.6	157.5	138.2	124.7	115.6	107.7	102.0	99.7
45°	5041.6	2139.5	291.2	171.1	142.8	122.4	109.9	98.6	88.4	83.9	82.7
47.5°	5724.9	2263.0	262.9	154.1	126.9	108.8	95.2	82.7	73.7	70.3	69.1
50°	6144.2	2287.9	244.8	134.9	111.1	94.1	80.5	69.1	63.5	60.1	60.1
52.5°	6335.7	2248.3	219.8	117.9	96.3	82.7	69.1	60.1	56.7	54.4	53.3
55°	6469.4	2187.1	187.0	102.0	82.7	70.3	61.2	54.4	49.9	47.6	46.5
57°	6547.6	2104.3	162.0	89.5	71.4	61.2	54.4	48.7	44.2	39.7	39.7
57.5°	6551.0	2072.6	155.2	88.4	68.0	58.9	53.3	47.6	41.9	37.4	36.3
60°	6450.2	1855.0	124.7	74.8	54.4	49.9	44.2	37.4	29.5	24.9	23.8
62.5°	6126.1	1578.5	103.1	63.5	44.2	38.5	31.7	28.3	20.4	14.7	14.7
65°	5635.4	1280.5	88.4	51.0	36.3	28.3	21.5	20.4	12.5	6.8	5.7
67.5°	4926.0	997.2	74.8	41.9	30.6	20.4	14.7	13.6	6.8	2.3	0.0
70°	3753.1	679.9	62.3	34.0	22.7	14.7	10.2	7.9	4.5	1.1	0.0
72.5°	2163.3	374.0	52.1	26.1	17.0	11.3	7.9	4.5	4.5	0.0	0.0
75°	772.8	160.9	39.7	19.3	13.6	9.1	5.7	2.3	3.4	1.1	0.0
77.5°	245.9	86.1	26.1	14.7	11.3	6.8	4.5	2.3	2.3	1.1	0.0
80°	72.5	45.3	15.9	12.5	7.9	5.7	3.4	1.1	2.3	1.1	0.0
82.5°	39.7	22.7	12.5	9.1	7.9	4.5	3.4	1.1	1.1	1.1	0.0
85°	20.4	13.6	10.2	9.1	7.9	4.5	3.4	1.1	0.0	1.1	1.1
87.5°	11.3	10.2	10.2	9.1	7.9	5.7	3.4	1.1	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)