

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: P456510

Luminaire Tested: **GALN-SA7D-730-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456510  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA7D-730-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35498 lumens  
Efficiency: N/A  
Efficacy: 82.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G5

Input Watts (W): 433  
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

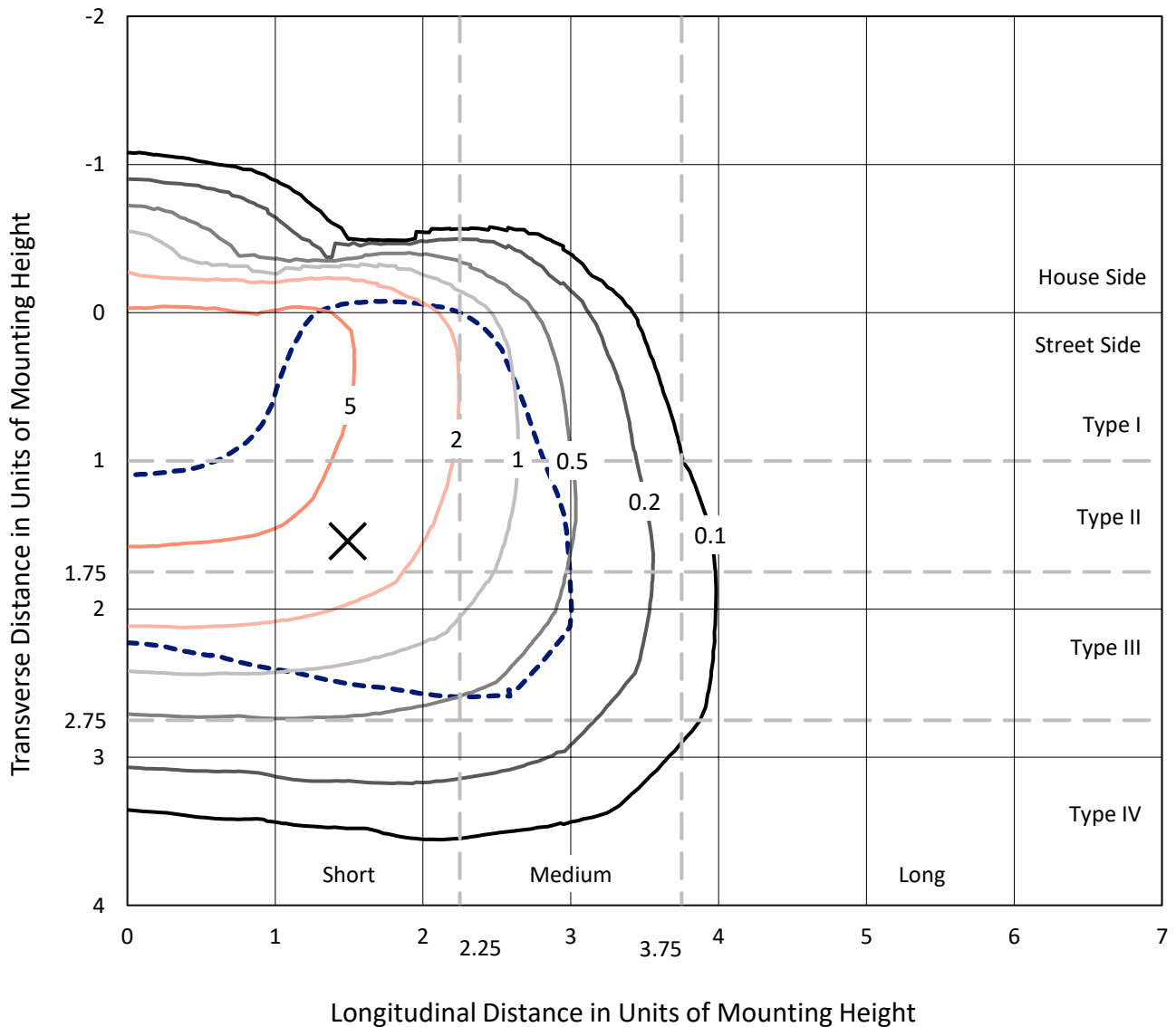




REPORT NUMBER: P456510  
 CATALOG NUMBER: GALN-SA7D-730-U-T4W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

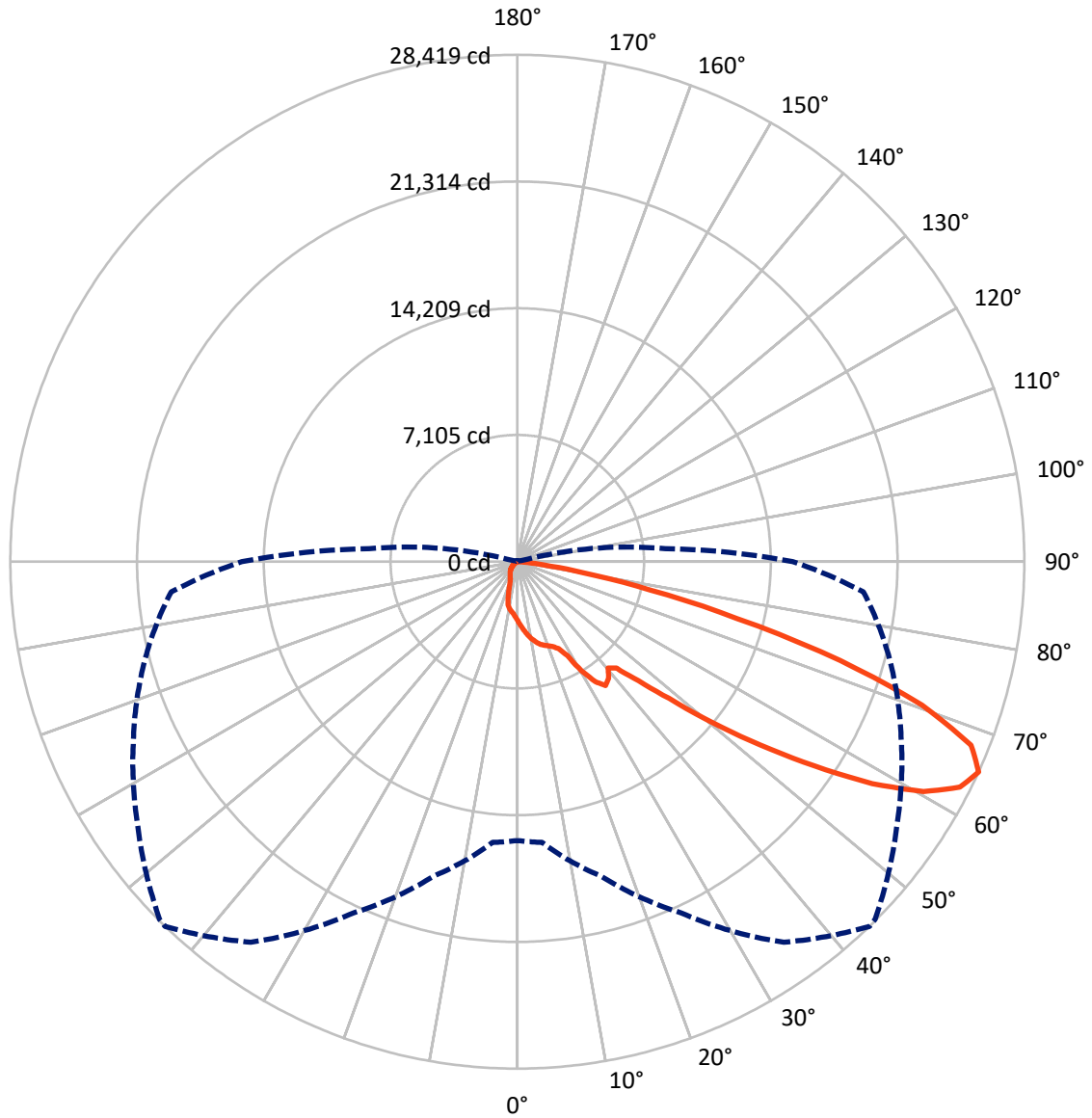
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc  
 Type III - Short - N/A

REPORT NUMBER: P456510  
CATALOG NUMBER: GALN-SA7D-730-U-T4W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P456510  
 CATALOG NUMBER: GALN-SA7D-730-U-T4W-HSS

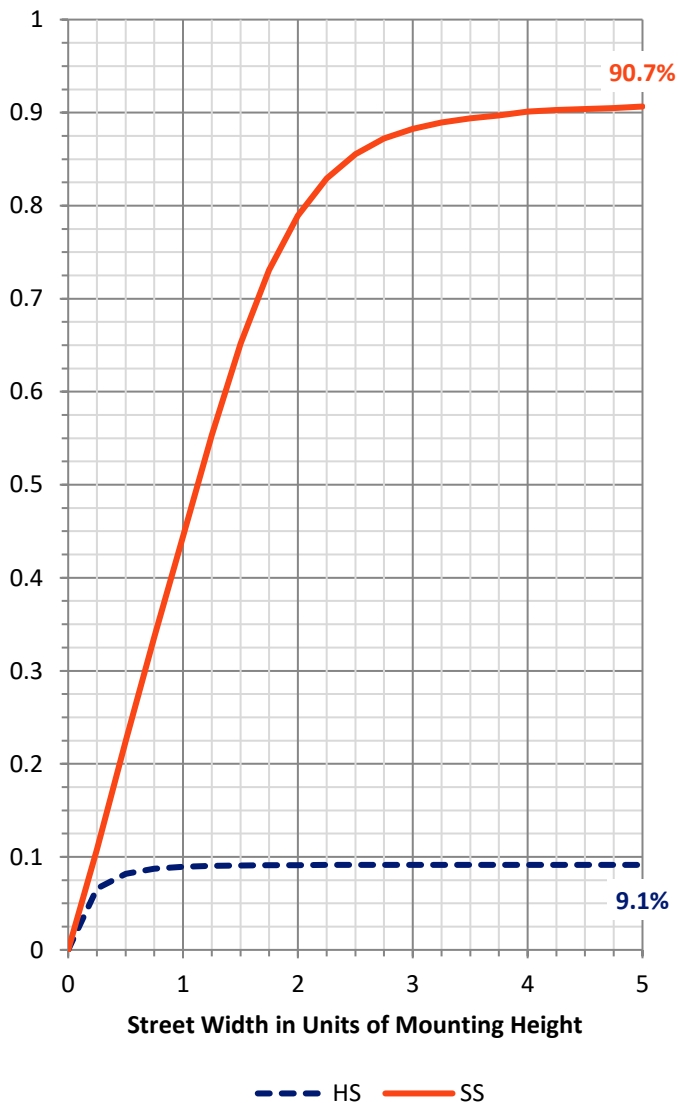
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3270.6	0.0	3270.6
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	32227.4	0.0	32227.4
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	35498.0	0.0	35498.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	328.6	0.9
10°-20°	989.0	2.8
20°-30°	1676.9	4.7
30°-40°	2788.2	7.9
40°-50°	4868.3	13.7
50°-60°	9510.8	26.8
60°-70°	11034.8	31.1
70°-80°	4018.3	11.3
80°-90°	283.1	0.8
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°	35498.0	100.0
0°-180°	35498.0	100.0

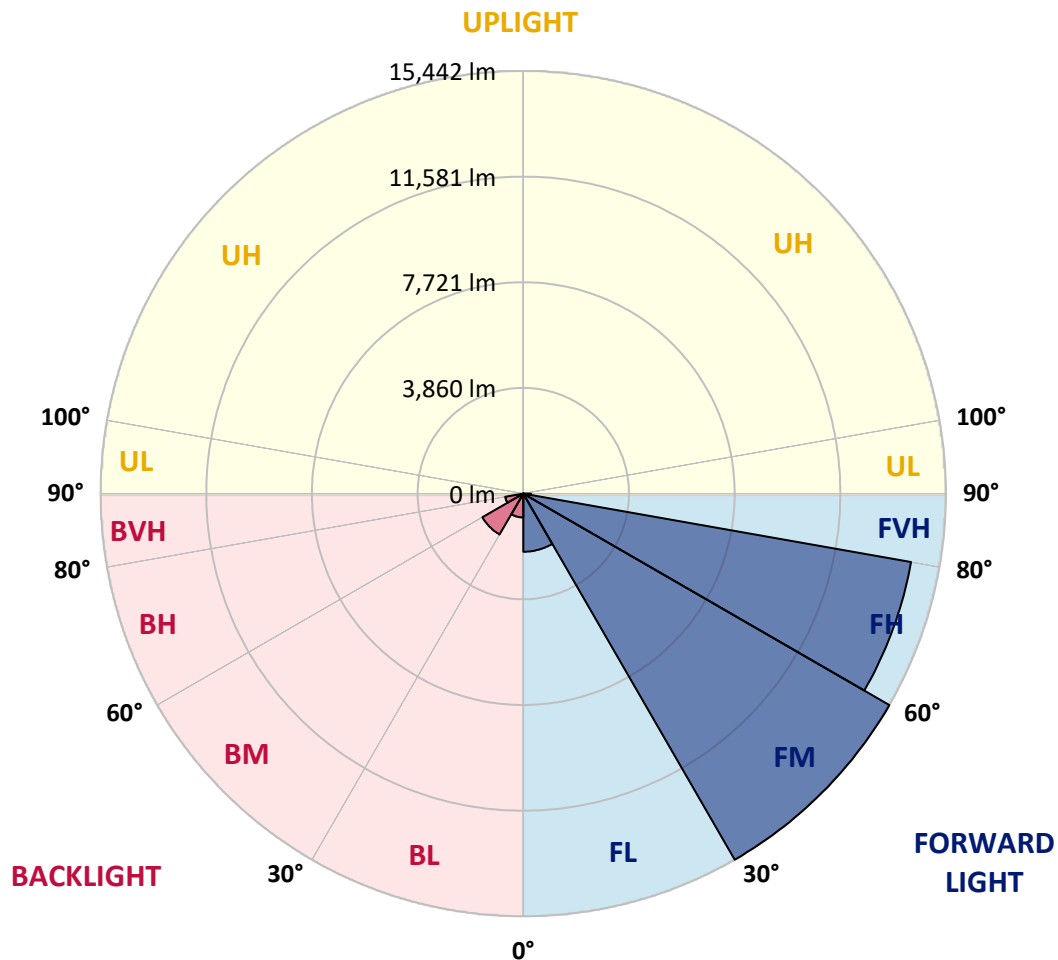


REPORT NUMBER: P456510  
 CATALOG NUMBER: GALN-SA7D-730-U-T4W-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2123.1	6.0			
FM	(30°-60°)	15441.7	43.5			
FH	(60°-80°)	14383.3	40.5			G5
FVH	(80°-90°)	279.3	0.8			G3/500
BL	(0°-30°)	871.4	2.5	B2/1000		
BM	(30°-60°)	1725.6	4.9	B2/2500		
BH	(60°-80°)	669.8	1.9	B2/1000		G2/1000
BVH	(80°-90°)	3.8	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-G5**  
 Type III Short





REPORT NUMBER: P456510

CATALOG NUMBER: GALN-SA7D-730-U-T4W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3303.8	3303.8	3303.8	3303.8	3303.8	3303.8	3303.8	3303.8	3303.8	3303.8	3303.8
2.5°	3718.8	3702.5	3694.4	3651.0	3618.5	3577.8	3577.8	3526.2	3466.6	3401.5	3341.8
5°	4133.8	4106.7	4071.4	4033.5	3957.5	3849.0	3849.0	3740.5	3615.7	3504.5	3382.5
7.5°	4532.6	4508.1	4448.5	4375.2	4250.5	4136.5	4128.4	3971.1	3821.9	3653.7	3480.1
10°	4882.5	4863.5	4811.9	4670.9	4540.7	4391.5	4388.8	4212.5	4038.9	3832.7	3618.5
12.5°	5126.6	5129.3	5061.5	4925.9	4757.7	4616.6	4605.8	4432.2	4250.5	4028.0	3764.9
15°	5300.2	5300.2	5229.7	5077.8	4925.9	4801.1	4790.2	4638.3	4451.2	4209.8	3925.0
17.5°	5349.0	5365.3	5289.3	5153.7	5031.7	4923.2	4920.4	4793.0	4643.8	4410.5	4087.7
20°	5330.0	5346.3	5286.6	5180.8	5096.8	5034.4	5026.2	4974.7	4836.4	4616.6	4261.3
22.5°	5289.3	5305.6	5262.2	5199.8	5159.1	5178.1	5164.6	5208.0	5134.7	4868.9	4467.5
25°	5297.5	5313.8	5281.2	5245.9	5281.2	5397.8	5433.1	5620.3	5555.2	5189.0	4689.9
27.5°	5552.5	5585.0	5538.9	5555.2	5679.9	5951.2	6019.0	6341.8	6054.3	5595.9	5037.1
30°	6119.4	6097.7	6010.9	6089.5	6523.5	7098.6	7079.6	7028.0	6577.8	6065.1	5449.4
32.5°	6634.7	6615.7	6610.3	6949.4	7736.0	8015.4	8001.8	7502.7	7047.0	6602.2	5856.3
35°	6843.6	6770.4	6754.1	7576.0	8891.5	8522.6	8438.5	7698.0	7616.7	7188.1	6271.3
37.5°	7472.9	7421.4	7169.1	7679.0	8430.4	8308.3	8243.2	8034.4	8224.3	7706.2	6740.5
40°	8769.5	8625.7	8397.8	7898.8	7776.7	7828.2	7893.3	8465.7	8943.1	8414.1	7367.1
42.5°	10380.7	10348.1	9925.0	8994.6	8080.5	8151.0	8235.1	9366.2	9976.5	9480.1	8389.7
45°	12314.7	12360.8	11750.5	10651.9	9453.0	9512.7	9634.7	10695.3	11376.2	11137.5	9998.2
47.5°	14072.4	14037.1	13831.0	12689.0	11582.3	11449.4	11647.4	12401.5	13312.9	13350.8	11994.6
50°	15840.9	16028.1	15721.6	15274.0	14452.1	14172.7	14099.5	14468.4	15857.2	15675.4	14392.4
52.5°	18382.5	18480.2	17905.1	17791.2	17978.3	17072.4	16999.1	17088.6	18331.0	17707.1	16188.1
55°	19980.2	19923.2	19708.9	20598.6	21339.1	20208.0	20115.8	19755.0	20384.3	19142.0	17916.0
57.5°	20484.7	20566.1	21065.1	22673.7	24425.9	23465.7	23297.5	22272.2	21865.3	20479.3	19505.5
60°	20259.5	20408.7	21485.6	23878.0	26308.4	26164.6	26020.9	24298.4	22928.6	21596.8	20620.3
62.5°	18656.5	18865.3	20587.8	23663.7	26945.8	27843.6	27664.6	25562.4	23636.6	22139.3	20815.6
65°	15634.8	15789.4	18263.2	21718.9	26039.8	28418.7	28353.6	25958.5	23747.8	21642.9	19478.3
67.5°	11145.6	11671.8	13963.9	18303.8	23359.9	27436.8	27548.0	25483.8	22703.5	19497.3	16131.1
70°	7006.3	7364.4	9008.2	13104.0	18727.0	24070.6	24436.8	23311.1	19703.5	15198.0	10798.4
72.5°	3341.8	3607.6	4779.4	8294.8	13217.9	18938.6	19228.8	19136.6	15236.0	9575.1	5571.4
75°	1489.2	1589.5	2281.2	4234.2	8533.5	12729.7	13481.0	13605.8	9520.8	4684.5	2167.3
77.5°	759.5	762.2	1068.7	2050.6	4261.3	7595.0	7744.1	8180.9	5161.9	2064.2	754.1
80°	404.2	431.3	566.9	968.4	2210.7	3740.5	3721.5	4090.4	2289.3	1011.8	252.3
82.5°	181.7	200.7	320.1	507.2	1079.6	1418.6	1529.8	1673.6	981.9	645.6	111.2
85°	54.2	65.1	157.3	255.0	390.6	409.6	458.4	591.3	556.1	458.4	57.0
87.5°	8.1	8.1	65.1	70.5	57.0	73.2	75.9	84.1	179.0	168.2	29.8
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: P456510

CATALOG NUMBER: GALN-SA7D-730-U-T4W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3303.8	3303.8	3303.8	3303.8	3303.8	3303.8	3303.8	3303.8	3303.8	3303.8	3303.8
2.5°	3309.2	3290.2	3222.4	3165.5	3116.6	3086.8	3051.5	3029.8	3019.0	3010.9	3013.6
5°	3322.8	3276.7	3160.0	3067.8	2997.3	2921.3	2869.8	2840.0	2826.4	2804.7	2804.7
7.5°	3398.7	3325.5	3162.8	3021.7	2899.6	2796.6	2698.9	2663.7	2639.2	2633.8	2628.4
10°	3507.2	3415.0	3192.6	2997.3	2823.7	2682.6	2544.3	2422.2	2327.3	2270.3	2262.2
12.5°	3642.9	3510.0	3238.7	2981.0	2758.6	2509.0	2142.9	1896.0	1730.6	1679.0	1687.2
15°	3767.6	3623.9	3284.8	2967.5	2639.2	2080.5	1665.5	1383.4	1299.3	1291.1	1293.9
17.5°	3916.8	3745.9	3339.1	2948.5	2311.0	1589.5	1236.9	1160.9	1177.2	1204.3	1201.6
20°	4071.4	3876.1	3404.2	2834.5	1844.5	1196.2	1093.1	1101.3	1125.7	1150.1	1155.5
22.5°	4236.9	4025.3	3480.1	2560.6	1407.8	1041.6	1036.2	1047.0	1071.4	1098.6	1104.0
25°	4464.7	4212.5	3537.1	2202.5	1066.0	962.9	973.8	992.8	1014.5	1044.3	1049.7
27.5°	4757.7	4464.7	3566.9	1736.0	922.2	892.4	895.1	922.2	949.4	976.5	976.5
30°	5137.4	4765.8	3507.2	1312.8	851.7	824.6	813.7	830.0	865.3	892.4	895.1
32.5°	5476.5	5050.6	3349.9	1003.6	800.2	762.2	735.1	737.8	751.4	767.6	770.3
35°	5815.6	5327.3	3081.4	843.6	745.9	702.5	661.8	640.1	629.3	621.2	629.3
37.5°	6249.6	5671.8	2723.3	767.6	699.8	645.6	588.6	542.5	504.5	480.1	485.5
40°	6808.3	6149.2	2300.2	718.8	656.4	591.3	515.4	455.7	390.6	368.9	358.0
42.5°	7730.6	6873.4	1855.3	678.1	613.0	534.4	439.4	358.0	298.4	276.7	282.1
45°	9187.2	7787.5	1429.5	634.7	569.6	472.0	368.9	282.1	233.3	222.4	227.8
47.5°	11118.5	8970.2	1101.3	585.9	515.4	404.2	290.2	222.4	192.6	189.9	187.2
50°	12935.8	10071.5	919.5	531.6	450.3	336.3	238.7	187.2	168.2	165.5	165.5
52.5°	14579.6	10860.8	748.6	469.3	379.7	276.7	200.7	165.5	149.2	141.0	141.0
55°	16041.6	11376.2	607.6	393.3	298.4	219.7	173.6	149.2	130.2	119.3	116.6
57.5°	17145.6	11438.5	455.7	314.6	222.4	170.9	149.2	130.2	108.5	94.9	89.5
60°	17617.6	10898.8	336.3	238.7	165.5	135.6	119.3	105.8	81.4	67.8	65.1
62.5°	17142.9	9849.0	249.5	181.7	127.5	100.4	84.1	78.7	57.0	40.7	38.0
65°	15442.2	8332.7	198.0	138.3	94.9	73.2	54.2	51.5	35.3	19.0	16.3
67.5°	12371.6	6526.2	157.3	103.1	67.8	48.8	35.3	32.5	19.0	5.4	5.4
70°	8045.2	4171.8	127.5	75.9	43.4	32.5	21.7	16.3	10.8	2.7	0.0
72.5°	3979.2	1950.3	103.1	59.7	29.8	16.3	8.1	5.4	8.1	0.0	0.0
75°	1543.4	694.4	75.9	40.7	16.3	8.1	5.4	0.0	2.7	0.0	0.0
77.5°	512.7	230.6	46.1	21.7	10.8	5.4	0.0	0.0	0.0	0.0	0.0
80°	189.9	89.5	24.4	13.6	5.4	2.7	0.0	0.0	0.0	0.0	0.0
82.5°	75.9	35.3	16.3	10.8	5.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	38.0	21.7	10.8	8.1	5.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	27.1	16.3	10.8	8.1	5.4	2.7	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)