

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: P455565

Luminaire Tested: **GALN-SA6D-730-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455565  
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-SA6D-730-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 1200mA 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: 34365 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

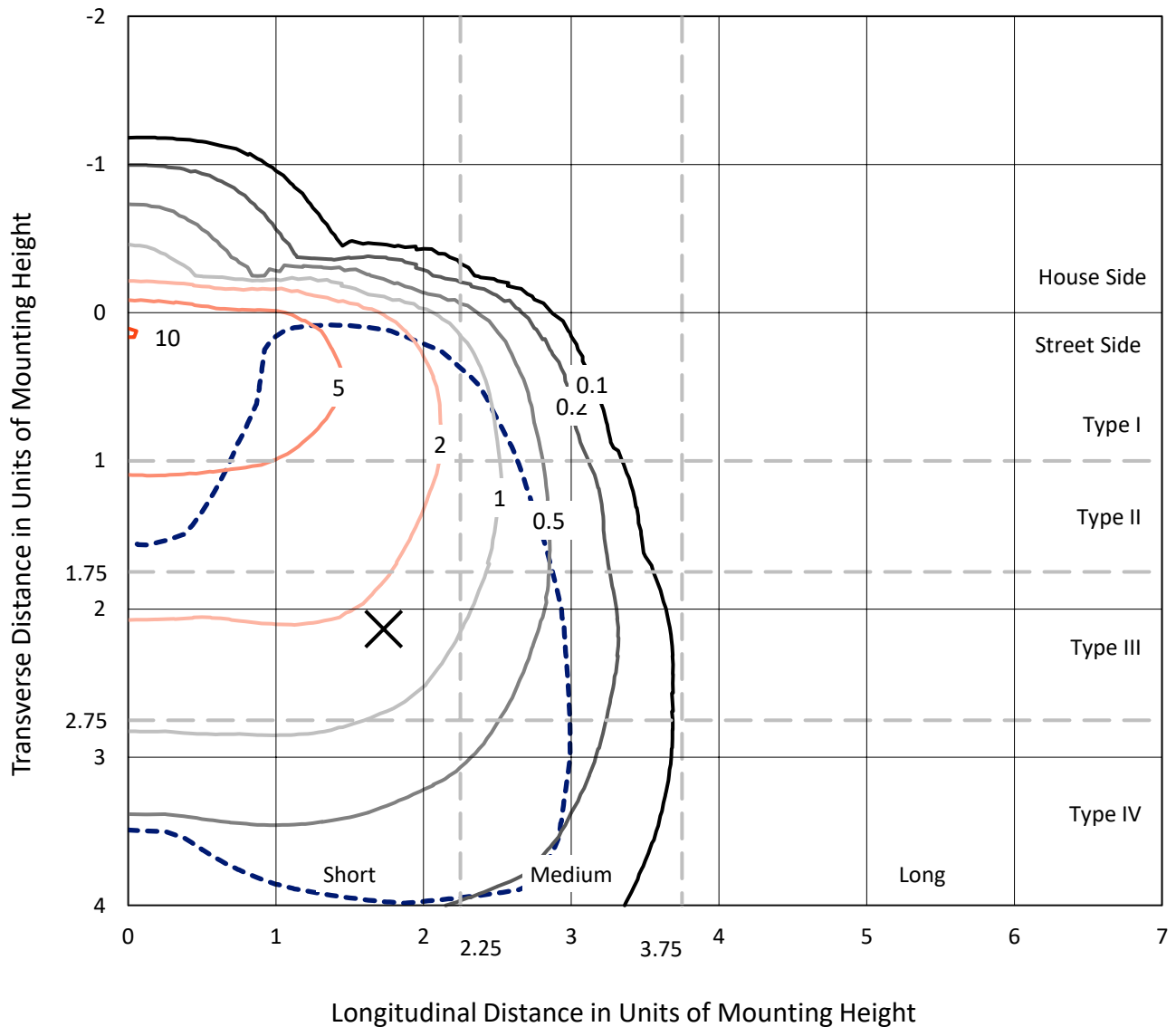
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P455565  
 CATALOG NUMBER: GALN-SA6D-730-U-SL4-HSS

### Iso-Footcandle Lines of Horizontal Illumination

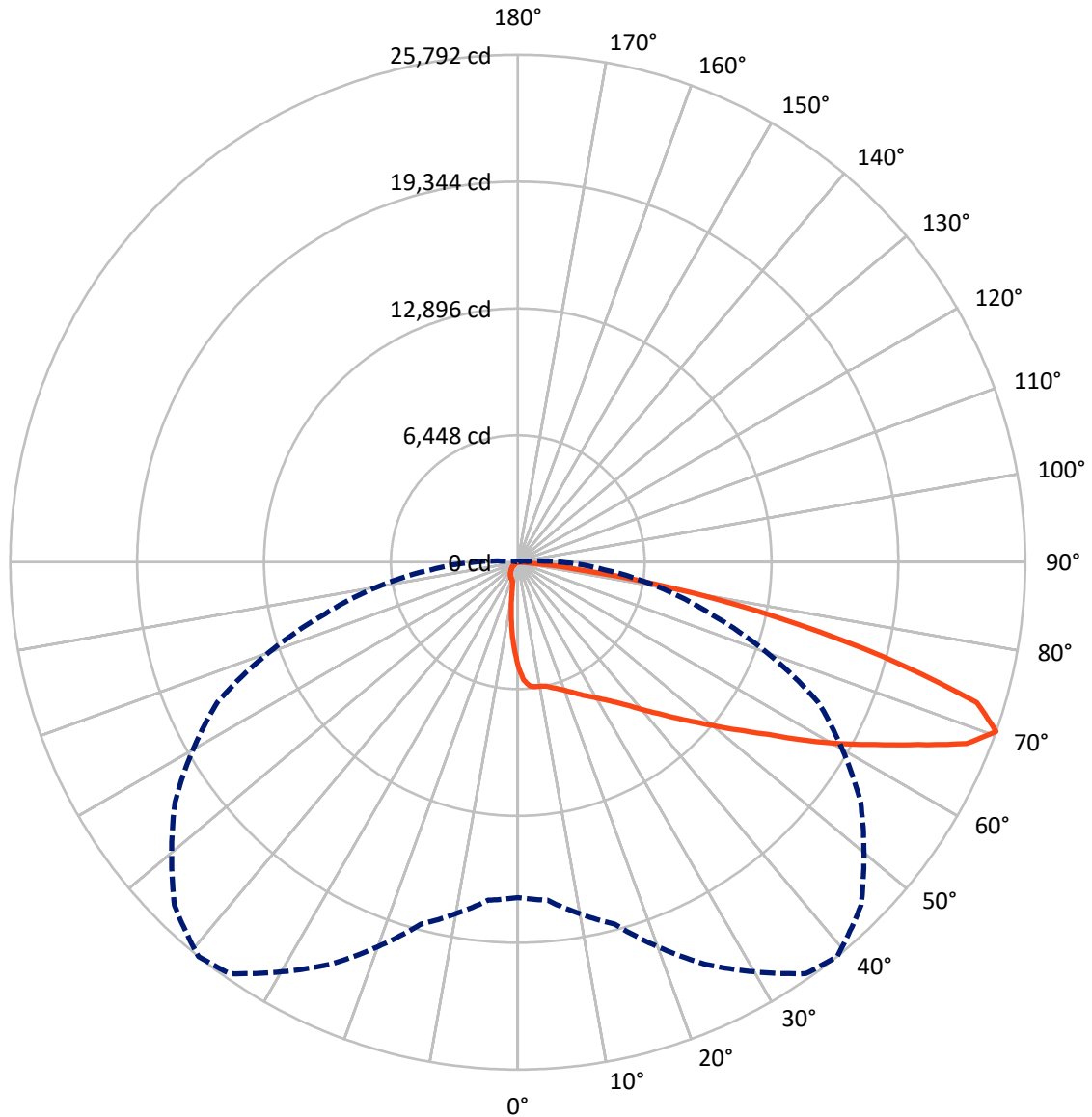
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc  
 Type IV - Short - N/A

REPORT NUMBER: P455565  
CATALOG NUMBER: GALN-SA6D-730-U-SL4-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P455565  
 CATALOG NUMBER: GALN-SA6D-730-U-SL4-HSS

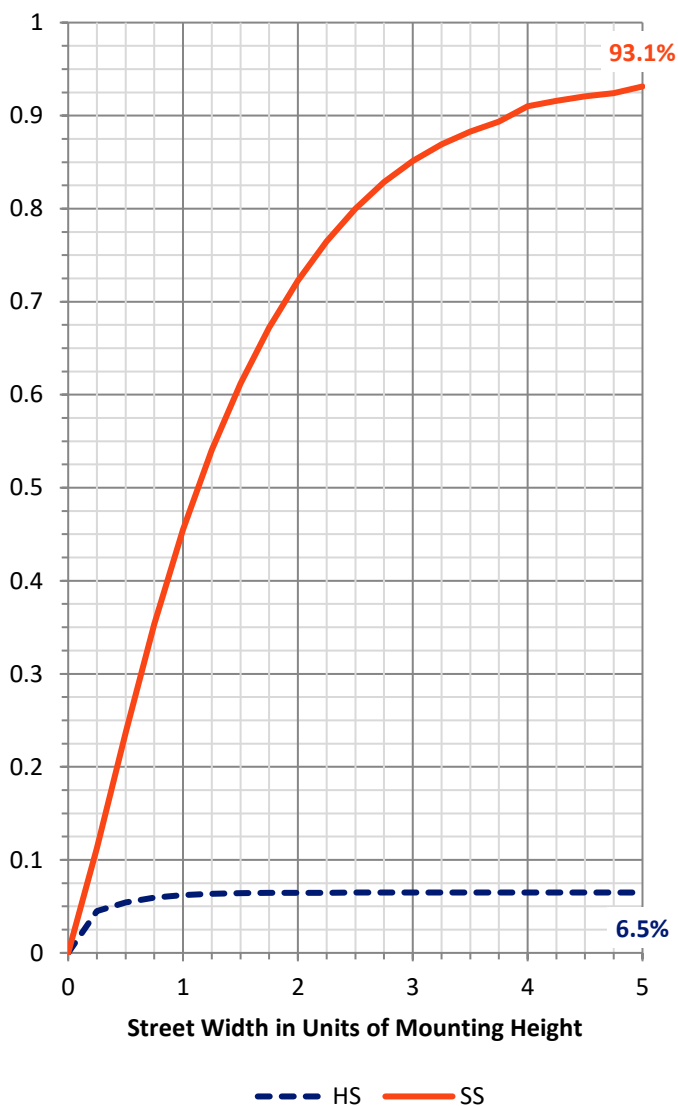
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2240.8	0.0	2240.8
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	32124.2	0.0	32124.2
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	34365.0	0.0	34365.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	457.4	1.3
10°-20°	1188.5	3.5
20°-30°	1991.1	5.8
30°-40°	3088.0	9.0
40°-50°	4893.5	14.2
50°-60°	7173.1	20.9
60°-70°	9194.2	26.8
70°-80°	5777.4	16.8
80°-90°	601.9	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°	34365.0	100.0
0°-180°	34365.0	100.0

**Coefficient of Utilization**

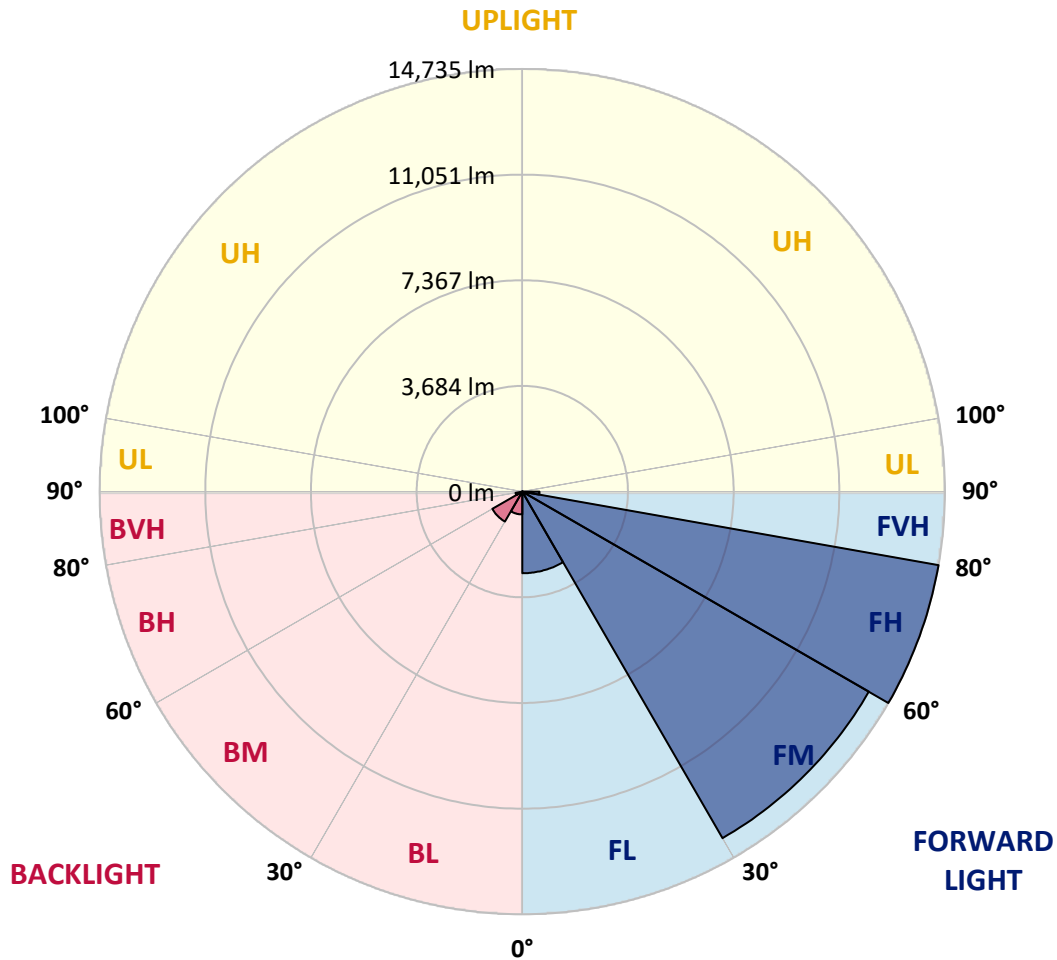


REPORT NUMBER: P455565  
 CATALOG NUMBER: GALN-SA6D-730-U-SL4-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2843.5	8.3			
FM (30°-60°)	13948.7	40.6			
FH (60°-80°)	14734.6	42.9			G5
FVH (80°-90°)	597.4	1.7			G4/750
BL (0°-30°)	793.4	2.3	B2/1000		
BM (30°-60°)	1205.9	3.5	B2/2500		
BH (60°-80°)	237.0	0.7	B1/500		G1/500
BVH (80°-90°)	4.4	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 IV Short





REPORT NUMBER: P455565

CATALOG NUMBER: GALN-SA6D-730-U-SL4-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5362.1	5362.1	5362.1	5362.1	5362.1	5362.1	5362.1	5362.1	5362.1	5362.1	5362.1
2.5°	6195.8	6175.0	6147.3	6114.9	6022.6	6006.4	5951.0	5833.2	5692.3	5576.9	5417.5
5°	6489.0	6500.6	6479.8	6422.1	6355.1	6315.8	6246.6	6064.1	5881.7	5648.5	5387.5
7.5°	6556.0	6579.1	6553.7	6498.3	6433.6	6392.1	6336.6	6179.6	5967.1	5701.6	5343.6
10°	6549.1	6576.8	6560.6	6509.8	6456.7	6417.5	6357.4	6232.7	6061.8	5782.4	5357.5
12.5°	6537.5	6574.5	6572.2	6546.8	6502.9	6472.9	6435.9	6325.1	6165.7	5900.2	5433.7
15°	6505.2	6551.4	6593.0	6613.7	6616.1	6616.1	6569.9	6452.1	6299.7	6054.9	5533.0
17.5°	6519.1	6572.2	6676.1	6736.1	6777.7	6773.1	6724.6	6597.6	6429.0	6214.2	5636.9
20°	6604.5	6676.1	6821.6	6941.7	6983.2	6969.4	6904.7	6756.9	6565.2	6350.5	5738.5
22.5°	6814.6	6879.3	7061.7	7202.6	7232.6	7195.7	7103.3	6902.4	6729.2	6498.3	5860.9
25°	7128.7	7204.9	7373.5	7479.7	7479.7	7458.9	7329.6	7094.1	6913.9	6703.8	6020.3
27.5°	7509.7	7574.4	7740.7	7835.3	7779.9	7719.9	7590.6	7306.5	7133.3	6962.4	6211.9
30°	7895.4	7937.0	8112.5	8154.0	8096.3	8020.1	7881.5	7597.5	7445.1	7313.4	6489.0
32.5°	8260.2	8350.3	8495.8	8486.6	8408.0	8371.1	8244.1	7941.6	7856.1	7842.3	6877.0
35°	8625.1	8694.4	8823.7	8856.0	8786.8	8779.8	8687.5	8463.5	8465.8	8555.8	7482.0
37.5°	8939.2	9001.5	9153.9	9225.5	9239.4	9274.0	9237.1	9089.3	9299.4	9546.5	8283.3
40°	9202.4	9290.2	9484.2	9608.9	9752.0	9879.0	9886.0	9918.3	10340.9	10765.8	9329.4
42.5°	9408.0	9530.3	9812.1	10043.0	10370.9	10532.6	10661.9	10839.7	11551.0	12186.0	10562.6
45°	9675.8	9816.7	10167.7	10530.3	11042.9	11308.5	11488.6	11964.3	12973.5	13839.4	11828.1
47.5°	10119.2	10193.1	10551.0	11079.9	11754.2	12132.9	12483.9	13204.4	14499.9	15275.8	12881.1
50°	10689.6	10738.1	11008.3	11742.6	12615.5	13114.3	13754.0	14601.5	16084.0	16467.4	13476.9
52.5°	11320.0	11336.2	11539.4	12472.4	13580.8	14208.9	14924.8	15970.9	17374.9	17317.2	13871.8
55°	12052.1	12029.0	12202.2	13264.4	14723.9	15442.1	16275.7	17372.6	18494.9	17919.9	14098.1
57.5°	12890.3	12828.0	12996.6	14315.1	16188.0	17047.0	17894.5	18582.7	19363.2	18425.6	14206.6
60°	13767.9	13643.2	13844.1	15495.2	17913.0	18728.2	19432.5	19617.2	20277.7	18827.5	14019.6
62.5°	14467.6	14469.9	14844.0	16751.4	19686.5	20400.1	20774.2	20940.4	21065.1	18739.7	13035.8
65°	15559.8	15596.8	16194.9	18494.9	21739.4	22358.3	22614.7	22074.3	21099.8	17649.7	11557.9
67.5°	16686.8	16804.5	17899.1	20896.6	24111.1	24609.9	24279.6	22293.7	20157.6	15162.6	8763.7
70°	17053.9	17247.9	19051.5	22550.0	25533.6	25792.2	24674.5	21270.7	16850.7	10137.7	4410.7
72.5°	15626.8	15940.9	18388.7	21947.3	24626.0	24402.0	22076.6	17839.1	10712.7	3849.5	1346.3
75°	11019.8	11158.4	15282.7	18206.3	19806.6	19171.5	16793.0	11500.2	4406.1	1080.7	461.9
77.5°	5690.0	5623.1	9089.3	12079.8	14125.8	13467.6	10996.7	5953.3	1669.6	450.3	286.3
80°	2942.0	2990.5	3932.7	6329.7	8622.8	7934.6	5863.2	2759.6	889.1	249.4	219.4
82.5°	1648.8	1547.2	2260.8	2764.2	4032.0	3161.4	2249.2	1953.6	388.0	150.1	207.8
85°	300.2	314.1	1240.1	1494.1	1399.4	889.1	725.1	1304.7	113.2	83.1	145.5
87.5°	4.6	4.6	240.2	429.5	272.5	124.7	228.6	187.1	23.1	32.3	25.4
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: P455565

CATALOG NUMBER: GALN-SA6D-730-U-SL4-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5362.1	5362.1	5362.1	5362.1	5362.1	5362.1	5362.1	5362.1	5362.1	5362.1	5362.1
2.5°	5336.7	5249.0	5085.0	4923.4	4717.8	4549.3	4436.1	4318.3	4198.2	4207.5	4235.2
5°	5244.3	5091.9	4768.6	4426.9	4098.9	3803.4	3512.4	3251.4	3145.2	3048.2	3052.9
7.5°	5152.0	4937.2	4463.8	3928.1	3431.6	2928.2	2563.3	2263.1	2103.7	1983.7	1949.0
10°	5110.4	4826.4	4184.4	3447.7	2743.4	2193.8	1725.0	1480.2	1290.9	1230.8	1247.0
12.5°	5128.9	4770.9	3932.7	3013.6	2175.3	1528.7	1200.8	1076.1	1034.6	1027.6	1023.0
15°	5163.5	4731.7	3685.6	2533.3	1598.0	1136.2	1009.1	986.1	981.4	976.8	979.1
17.5°	5209.7	4697.0	3422.3	2083.0	1226.2	993.0	956.0	944.5	942.2	942.2	942.2
20°	5255.9	4657.8	3129.1	1681.1	1023.0	937.6	914.5	907.5	905.2	905.2	902.9
22.5°	5309.0	4623.2	2831.2	1320.9	942.2	898.3	877.5	872.9	870.6	868.3	868.3
25°	5385.2	4579.3	2514.8	1080.7	891.4	861.4	840.6	836.0	833.6	824.4	826.7
27.5°	5486.8	4546.9	2189.2	932.9	845.2	815.2	801.3	794.4	789.8	782.8	785.2
30°	5625.4	4519.2	1842.8	852.1	792.1	766.7	752.8	748.2	743.6	736.7	736.7
32.5°	5865.5	4530.8	1477.9	787.5	743.6	713.6	699.7	695.1	690.5	683.5	683.5
35°	6225.8	4597.8	1182.3	732.0	685.9	655.8	642.0	642.0	635.0	625.8	623.5
37.5°	6814.6	4768.6	949.1	678.9	630.4	602.7	586.6	581.9	575.0	561.2	558.8
40°	7509.7	5034.2	799.0	625.8	579.6	551.9	538.1	524.2	505.7	491.9	489.6
42.5°	8382.6	5306.7	692.8	572.7	531.1	505.7	489.6	466.5	438.8	420.3	418.0
45°	9292.5	5556.1	621.2	524.2	484.9	464.2	445.7	408.7	374.1	351.0	348.7
47.5°	9971.4	5602.3	563.5	478.0	445.7	424.9	399.5	353.3	307.1	286.3	279.4
50°	10292.4	5378.3	503.4	431.8	406.4	383.3	351.0	297.9	247.1	221.7	217.1
52.5°	10405.6	4990.3	454.9	390.3	367.2	339.5	300.2	240.2	194.0	168.6	166.3
55°	10359.4	4500.8	411.0	351.0	321.0	288.7	249.4	191.7	143.2	122.4	117.8
57.5°	10116.9	3877.3	367.2	311.8	274.8	242.5	198.6	143.2	97.0	78.5	76.2
60°	9463.4	3027.4	323.3	267.9	233.2	198.6	157.0	101.6	60.0	43.9	43.9
62.5°	8359.5	2246.9	281.7	224.0	196.3	159.3	110.8	64.7	32.3	23.1	20.8
65°	6985.5	1658.1	235.5	189.4	164.0	124.7	78.5	39.3	16.2	6.9	4.6
67.5°	4874.9	1023.0	196.3	154.7	133.9	90.1	48.5	16.2	6.9	0.0	0.0
70°	2214.6	487.3	150.1	117.8	101.6	64.7	25.4	9.2	4.6	0.0	0.0
72.5°	688.2	256.3	106.2	85.4	69.3	41.6	13.9	6.9	4.6	0.0	0.0
75°	318.7	164.0	67.0	46.2	39.3	20.8	9.2	4.6	2.3	0.0	0.0
77.5°	237.9	127.0	39.3	25.4	20.8	13.9	6.9	4.6	2.3	0.0	0.0
80°	207.8	64.7	23.1	16.2	11.5	9.2	4.6	2.3	0.0	0.0	0.0
82.5°	187.1	32.3	13.9	9.2	6.9	4.6	2.3	2.3	0.0	0.0	0.0
85°	101.6	18.5	9.2	6.9	4.6	2.3	2.3	0.0	0.0	0.0	0.0
87.5°	18.5	9.2	6.9	4.6	4.6	2.3	2.3	2.3	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)