

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: P533327

Luminaire Tested: **GALN-SA8D-730-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533327  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-730-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33206 lumens  
Efficiency: N/A  
Efficacy: 67.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

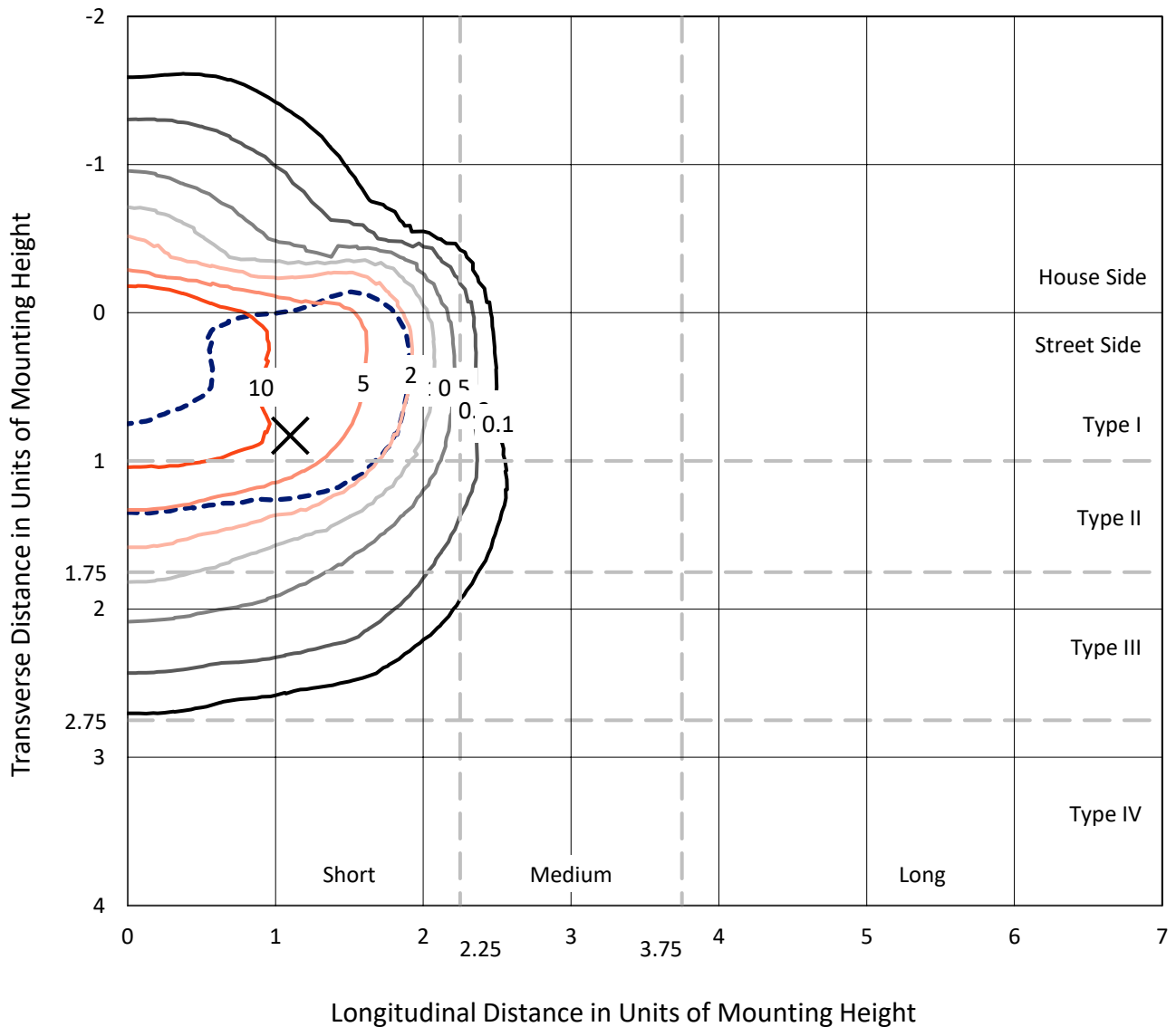
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P533327  
 CATALOG NUMBER: GALN-SA8D-730-U-SL2-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

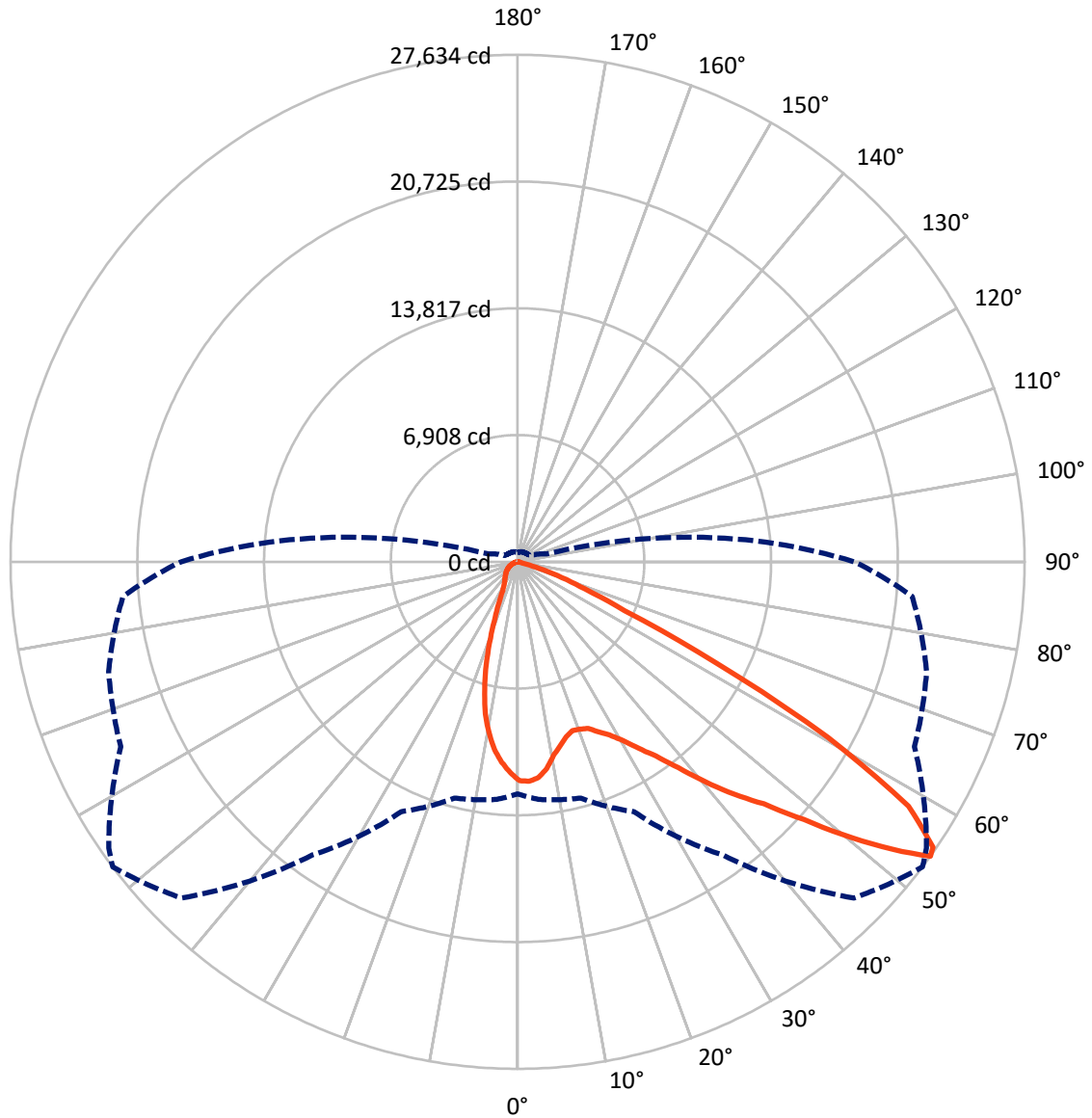
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.1 fc  
 Type II - Short - N/A

REPORT NUMBER: P533327  
CATALOG NUMBER: GALN-SA8D-730-U-SL2-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

REPORT NUMBER: P533327  
 CATALOG NUMBER: GALN-SA8D-730-U-SL2-GRSBK

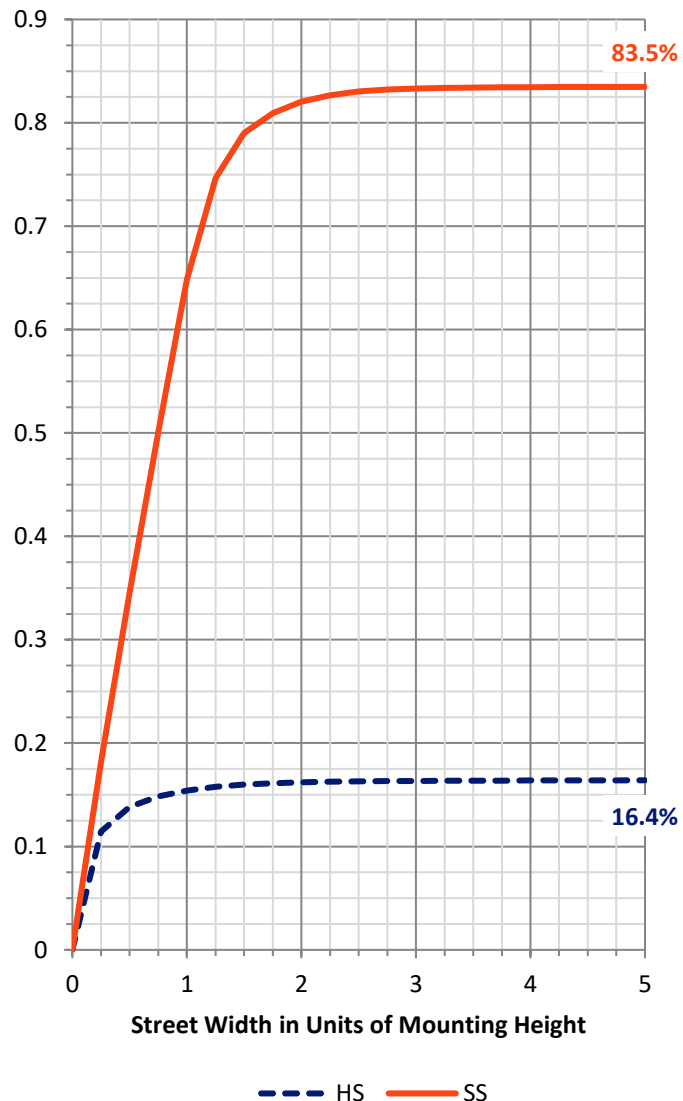
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5494.0	0.0	5494.0
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	27712.0	0.0	27712.0
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	33206.0	0.0	33206.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1023.3	3.1
10°-20°	2346.1	7.1
20°-30°	3334.4	10.0
30°-40°	5145.8	15.5
40°-50°	8068.1	24.3
50°-60°	9372.2	28.2
60°-70°	3541.4	10.7
70°-80°	336.8	1.0
80°-90°	37.9	0.1
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°	33206.0	100.0
0°-180°	33206.0	100.0

**Coefficient of Utilization**

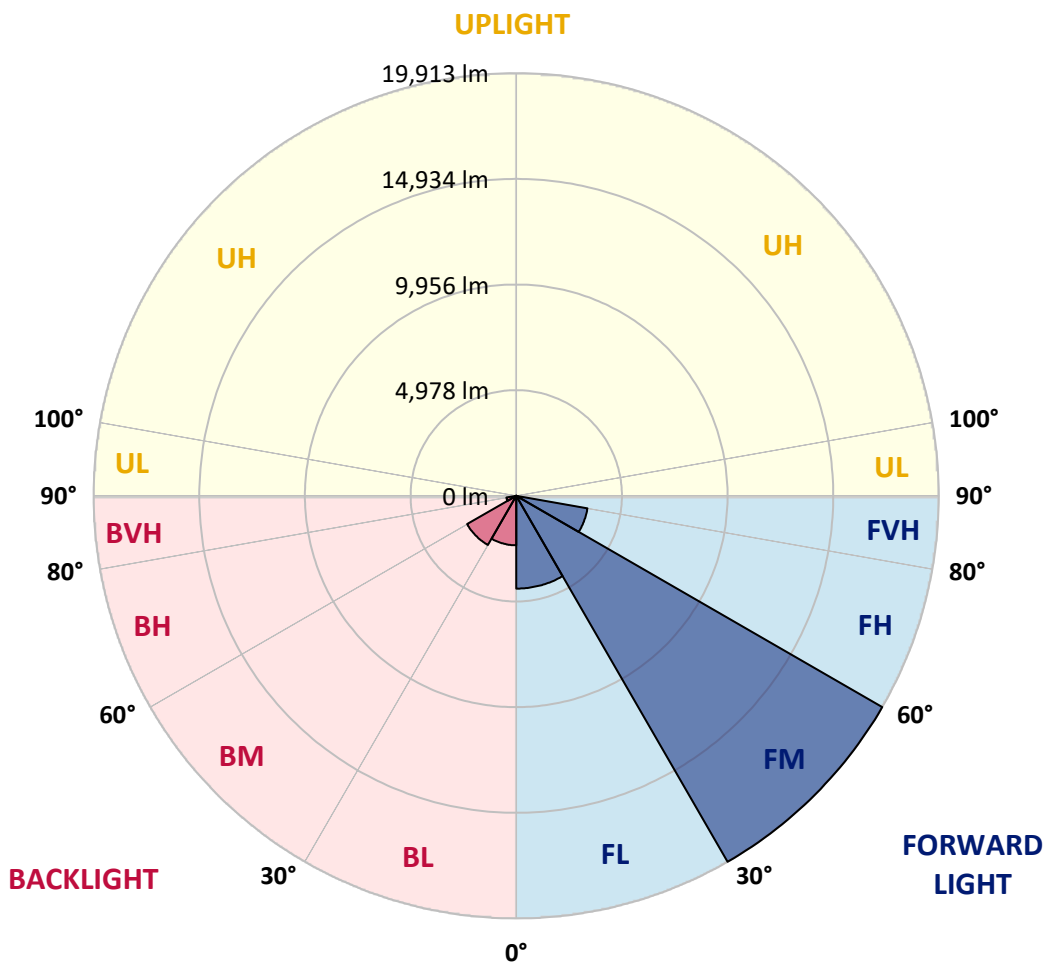


REPORT NUMBER: P533327  
 CATALOG NUMBER: GALN-SA8D-730-U-SL2-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4372.4	13.2			
FM (30°-60°)	19912.6	60.0			
FH (60°-80°)	3407.4	10.3			G2/5000
FVH (80°-90°)	19.6	0.1			G1/100
BL (0°-30°)	2331.4	7.0	B3/2500		
BM (30°-60°)	2673.5	8.1	B3/5000		
BH (60°-80°)	470.7	1.4	B1/500		G1/500
BVH (80°-90°)	18.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**  
 Type II Short





REPORT NUMBER: P533327

CATALOG NUMBER: GALN-SA8D-730-U-SL2-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	11927.0	11927.0	11927.0	11927.0	11927.0	11927.0	11927.0	11927.0	11927.0	11927.0	11927.0
2.5°	11865.2	11760.0	11865.2	11877.5	11951.8	12019.8	11976.5	12075.5	12019.8	11958.0	11939.4
5°	10906.3	11048.6	11054.8	11277.5	11228.0	11636.3	11815.7	11766.2	12069.3	12050.8	12007.5
7.5°	10046.4	9990.7	10065.0	10324.8	10652.7	11122.8	11382.6	11376.5	11809.5	12118.8	12087.9
10°	9248.4	9242.2	9396.9	9601.0	9879.4	10374.3	10733.1	10912.5	11586.8	12056.9	12125.0
12.5°	8710.2	8685.5	8852.5	9019.5	9458.7	9842.3	10300.1	10386.7	11159.9	11840.4	11951.8
15°	8357.6	8413.3	8425.6	8747.3	9025.7	9533.0	9891.8	10071.2	10962.0	11667.2	12094.1
17.5°	8295.7	8370.0	8376.1	8642.2	8939.1	9365.9	9681.4	9922.7	10795.0	11753.8	12100.2
20°	8419.4	8376.1	8413.3	8580.3	8871.0	9279.3	9737.1	9817.5	10739.3	11797.1	12168.3
22.5°	8772.1	8759.7	8666.9	8803.0	9007.1	9434.0	9867.0	9990.7	10900.1	12019.8	12224.0
25°	9161.8	9229.8	9143.2	9124.7	9267.0	9687.6	10262.9	10423.8	11438.3	12421.9	12397.2
27.5°	9891.8	9823.7	9823.7	9737.1	9700.0	9904.1	10689.8	10955.8	12038.4	12941.6	12595.1
30°	10590.8	10665.0	10609.4	10640.3	10392.9	10374.3	11296.0	11623.9	13102.4	13733.4	13015.8
32.5°	11698.1	11599.2	11692.0	11611.5	11283.7	10949.6	12118.8	12459.1	14389.2	14642.8	13646.8
35°	12619.9	12576.6	12972.5	12960.1	12428.1	12100.2	12991.1	13498.3	15286.2	15731.6	14389.2
37.5°	13931.4	13851.0	14302.5	14519.1	14042.7	13554.0	14240.7	14828.4	16121.3	16603.8	15150.1
40°	15280.0	15484.1	16090.4	16449.2	15941.9	15292.3	15768.7	15948.1	16678.1	17173.0	15669.7
42.5°	16987.4	17284.3	17902.9	18212.2	18168.9	17463.7	17321.4	17315.2	17080.2	17012.1	16053.2
45°	18626.7	18515.4	19468.0	20142.3	20686.7	20482.6	18818.5	18632.9	17717.3	17253.4	16152.2
47.5°	19344.3	19307.2	19956.8	21156.9	23012.7	23266.4	20996.0	20278.4	18793.7	18267.9	16690.4
50°	18416.4	18608.2	19251.5	20581.6	23427.2	25363.5	23668.5	22703.4	20049.5	19505.2	17964.8
52.5°	15385.1	15515.0	16127.5	17816.3	22016.8	26600.8	26229.6	25672.8	22357.0	21453.8	20185.6
54°	12650.8	12997.3	13331.3	15026.3	19505.2	25914.1	27633.9	27207.0	23860.3	23074.6	21583.7
55°	11017.7	11221.8	11463.1	13151.9	17766.8	24751.1	27473.0	27510.1	24868.6	23581.9	22524.0
57.5°	8048.3	8190.6	7943.1	8691.6	12199.2	20099.0	25128.4	26130.6	26229.6	24342.8	23099.4
60°	6149.1	6211.0	5932.6	6050.1	7584.3	13795.3	19437.1	20643.4	23662.3	21274.4	19567.0
62.5°	4769.6	4781.9	4775.8	4979.9	5227.4	8116.3	12155.9	13226.1	16313.1	15106.8	13288.0
65°	3513.8	3458.1	3557.1	4175.7	4460.3	5103.6	6402.7	7182.2	8864.9	7485.3	5351.1
67.5°	2276.5	2295.1	2394.1	3105.5	3823.1	3915.9	3940.6	3878.8	3884.9	2140.4	1342.4
70°	1367.2	1398.1	1367.2	1756.9	2734.3	2808.5	2567.3	2505.4	1954.8	507.3	501.1
72.5°	810.4	767.1	686.7	754.7	1138.3	1361.0	1224.9	1218.7	767.1	296.9	296.9
75°	340.2	309.3	253.6	228.9	303.1	290.8	290.8	259.8	204.1	198.0	185.6
77.5°	68.0	68.0	49.5	55.7	74.2	86.6	105.2	105.2	123.7	123.7	117.5
80°	0.0	6.2	18.6	37.1	55.7	80.4	92.8	92.8	105.2	105.2	86.6
82.5°	0.0	6.2	18.6	37.1	49.5	74.2	92.8	92.8	105.2	111.4	92.8
85°	0.0	6.2	18.6	30.9	49.5	61.9	61.9	55.7	43.3	37.1	24.7
87.5°	0.0	0.0	6.2	12.4	6.2	12.4	12.4	12.4	12.4	12.4	12.4
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: P533327

CATALOG NUMBER: GALN-SA8D-730-U-SL2-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11927.0	11927.0	11927.0	11927.0	11927.0	11927.0	11927.0	11927.0	11927.0	11927.0	11927.0
2.5°	11982.7	11976.5	11828.1	11586.8	11531.1	11327.0	11302.2	11178.5	11246.6	11017.7	10992.9
5°	11883.7	11809.5	11630.1	11475.4	11023.8	10702.2	10448.5	10139.2	9959.8	9990.7	9873.2
7.5°	12026.0	11834.2	11518.7	10980.5	10430.0	9867.0	9563.9	8932.9	8704.0	8363.8	8314.3
10°	11877.5	11735.3	11246.6	10355.7	9594.8	8784.4	8073.0	7374.0	6842.0	6613.1	6563.6
12.5°	11865.2	11617.7	10801.1	9811.3	8710.2	7547.2	6514.1	5641.8	5116.0	4819.1	4751.0
15°	11673.4	11376.5	10300.1	8970.0	7448.2	6000.6	4874.7	4033.4	3631.3	3458.1	3507.6
17.5°	11692.0	11246.6	9799.0	8079.2	6204.8	4404.6	3328.2	2895.2	2790.0	2833.3	2833.3
20°	11673.4	10955.8	9192.7	7052.3	4751.0	3056.0	2443.6	2288.9	2357.0	2493.0	2462.1
22.5°	11574.4	10819.7	8636.0	5969.7	3495.2	2264.2	1961.0	1967.2	2072.4	2239.4	2276.5
25°	11648.7	10516.6	7930.7	4874.7	2548.7	1806.4	1701.2	1744.5	1855.9	1979.6	2004.3
27.5°	11593.0	10300.1	7194.6	3786.0	1862.1	1552.7	1546.6	1596.0	1645.5	1738.3	1738.3
30°	11654.8	10102.1	6470.8	2814.7	1534.2	1422.8	1398.1	1435.2	1484.7	1503.3	1497.1
32.5°	11883.7	9953.6	5635.6	2103.3	1354.8	1299.1	1299.1	1299.1	1292.9	1317.7	1323.9
35°	12384.8	9978.4	4899.5	1627.0	1237.2	1193.9	1175.4	1150.6	1138.3	1150.6	1156.8
37.5°	12929.2	9966.0	4138.6	1385.7	1150.6	1113.5	1070.2	1033.1	1026.9	1039.3	1020.7
40°	13170.5	10083.5	3433.4	1243.4	1070.2	1026.9	958.9	927.9	934.1	946.5	934.1
42.5°	13498.3	10120.7	2975.6	1132.1	996.0	927.9	884.6	847.5	841.3	859.9	853.7
45°	13492.1	9910.3	2493.0	1070.2	927.9	853.7	798.0	767.1	767.1	779.5	785.7
47.5°	13888.1	9879.4	2140.4	1014.5	878.4	804.2	736.2	711.4	705.2	705.2	692.9
50°	14809.8	10312.4	1868.2	952.7	816.6	748.5	692.9	661.9	637.2	624.8	618.6
52.5°	16610.0	11661.0	1657.9	878.4	748.5	692.9	643.4	618.6	587.7	556.8	550.6
54°	18354.5	13052.9	1645.5	816.6	692.9	655.7	612.4	600.1	562.9	519.6	507.3
55°	19140.2	13863.3	1688.8	767.1	655.7	631.0	593.9	581.5	544.4	494.9	488.7
57.5°	19789.7	14178.8	1664.1	637.2	593.9	587.7	556.8	538.2	494.9	426.8	414.5
60°	15929.5	10720.7	1193.9	562.9	544.4	532.0	507.3	494.9	439.2	365.0	358.8
62.5°	10065.0	6167.7	760.9	494.9	476.3	457.8	426.8	414.5	365.0	290.8	272.2
65°	4287.1	2554.9	513.5	439.2	408.3	377.4	352.6	334.1	290.8	216.5	210.3
67.5°	1113.5	909.4	426.8	383.5	340.2	296.9	278.4	247.4	198.0	148.5	142.3
70°	501.1	457.8	358.8	321.7	272.2	228.9	204.1	173.2	129.9	99.0	92.8
72.5°	296.9	290.8	272.2	241.3	204.1	173.2	148.5	117.5	86.6	55.7	55.7
75°	185.6	179.4	185.6	167.0	142.3	129.9	111.4	80.4	49.5	24.7	24.7
77.5°	111.4	111.4	111.4	105.2	99.0	99.0	80.4	49.5	24.7	6.2	6.2
80°	86.6	86.6	92.8	86.6	86.6	86.6	68.0	37.1	12.4	0.0	0.0
82.5°	86.6	92.8	105.2	99.0	86.6	74.2	61.9	37.1	12.4	0.0	0.0
85°	24.7	18.6	30.9	43.3	61.9	55.7	43.3	30.9	12.4	0.0	0.0
87.5°	12.4	12.4	12.4	12.4	6.2	6.2	6.2	6.2	6.2	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)