

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: P457417

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457417
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-730-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46560 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

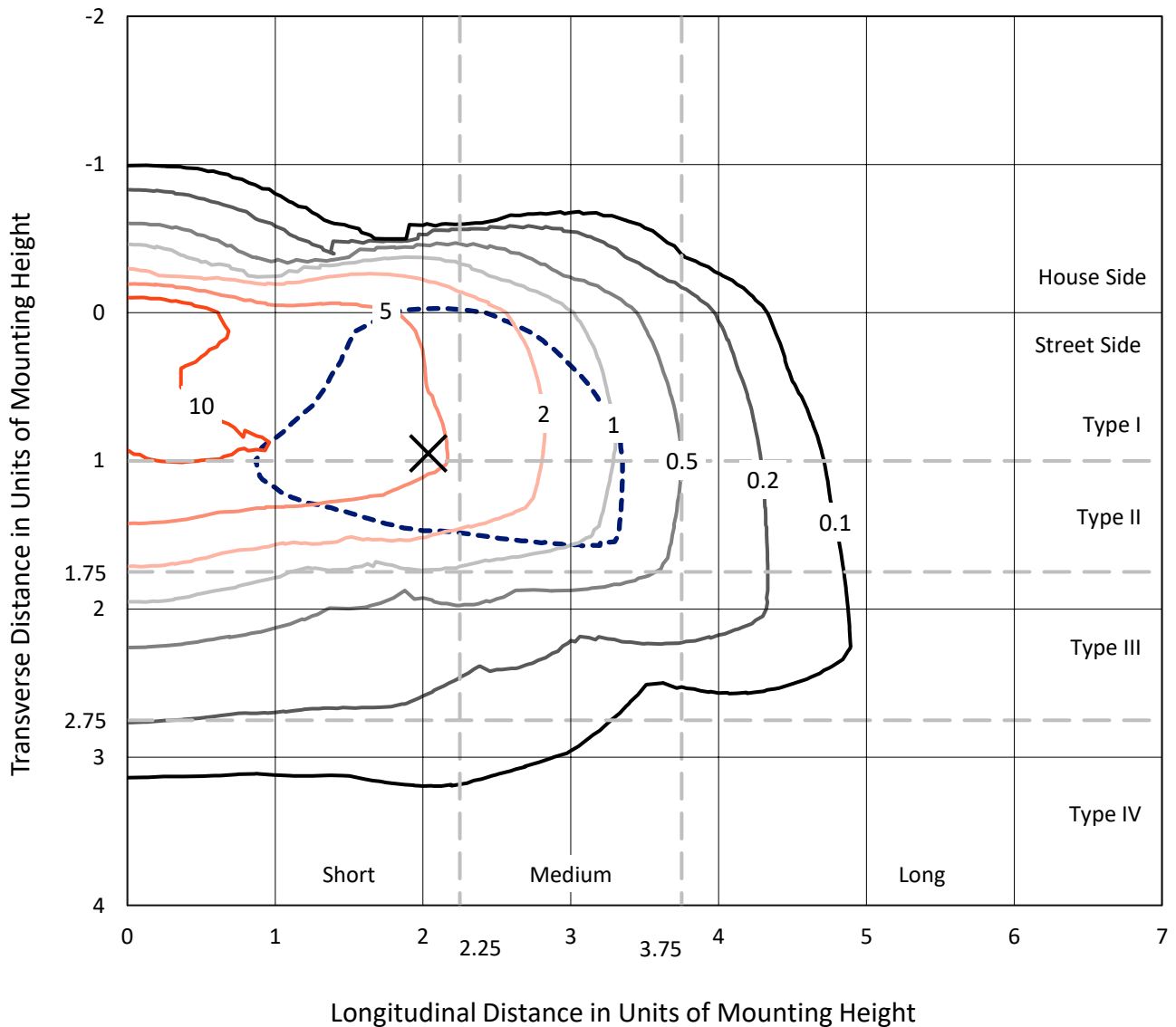
Input Watts (W): 493
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P457417
 CATALOG NUMBER: GALN-SA8D-730-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

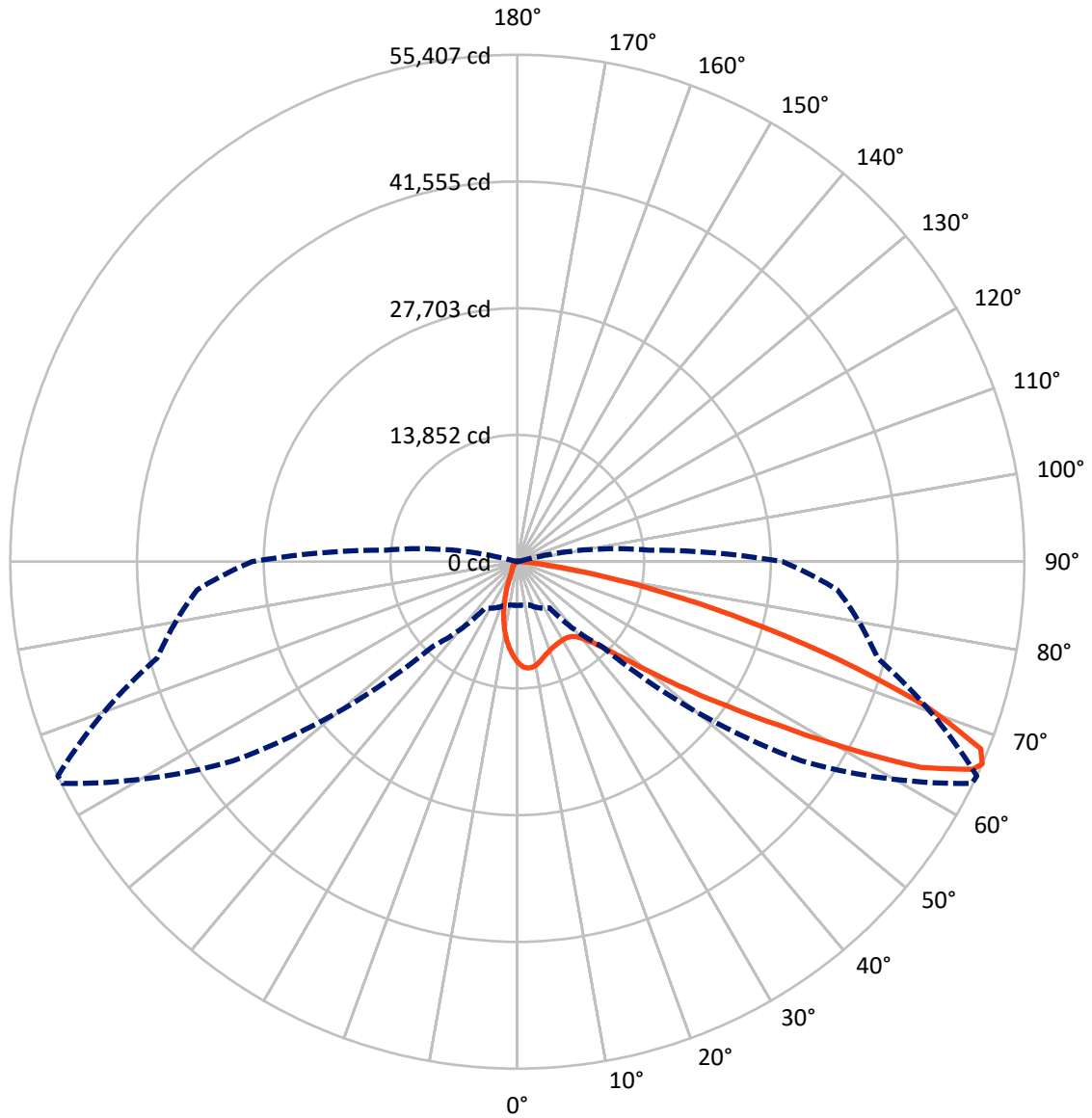
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.7 fc
 Type II - Short - N/A

REPORT NUMBER: P457417
CATALOG NUMBER: GALN-SA8D-730-U-SL2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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

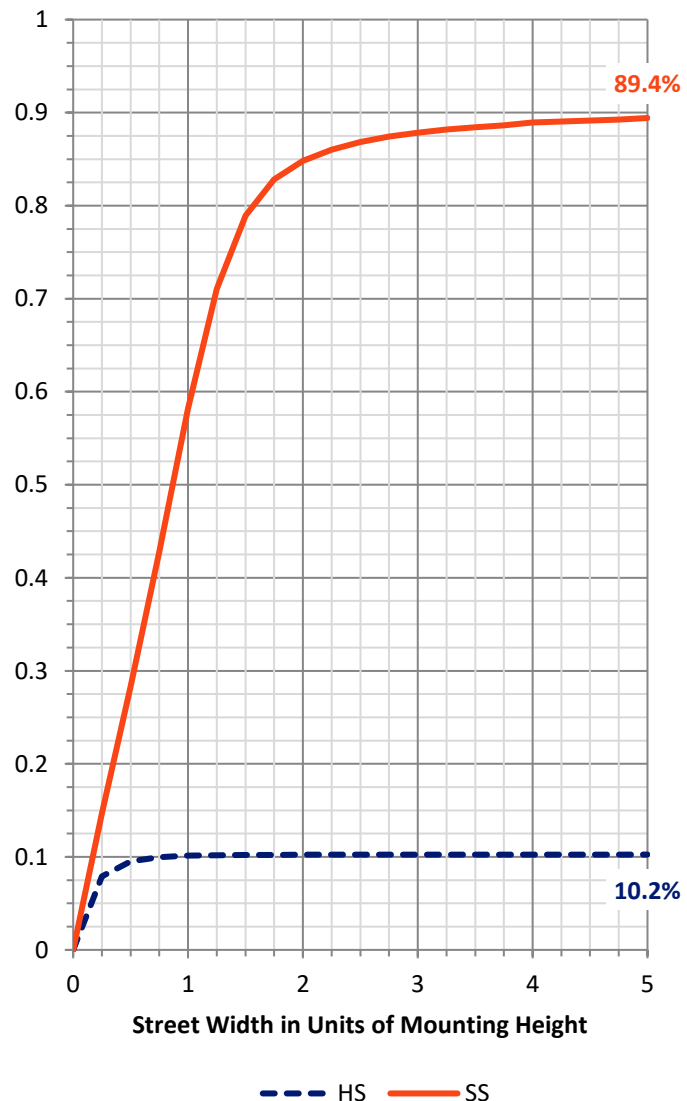
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4815.0	0.0	4815.0
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	41745.0	0.0	41745.0
	% Fixture	89.7	0.0	89.7
Total	Lumens	46560.0	0.0	46560.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	903.0	1.9
10°-20°	1967.5	4.2
20°-30°	2818.4	6.1
30°-40°	4116.6	8.8
40°-50°	6902.7	14.8
50°-60°	11519.6	24.7
60°-70°	12227.7	26.3
70°-80°	5537.9	11.9
80°-90°	566.6	1.2
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°	46560.0	100.0
0°-180°	46560.0	100.0



REPORT NUMBER: P457417

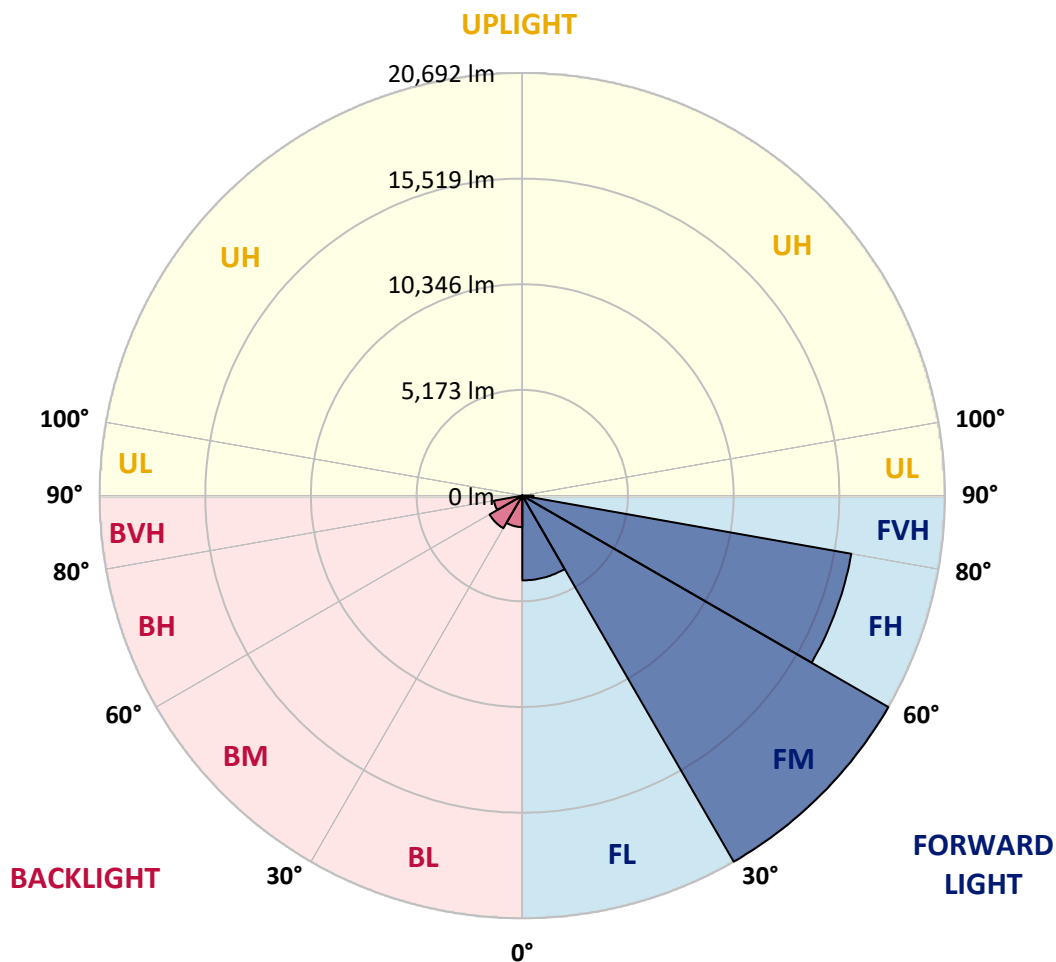
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4148.7	8.9			
FM	(30°-60°)	20692.3	44.4			
FH	(60°-80°)	16355.5	35.1			G5
FVH	(80°-90°)	548.6	1.2			G4/750
BL	(0°-30°)	1540.2	3.3	B3/2500		
BM	(30°-60°)	1846.6	4.0	B2/2500		
BH	(60°-80°)	1410.1	3.0	B3/2500		G3/2500
BVH	(80°-90°)	18.0	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short





REPORT NUMBER: P457417

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	11041.1	11041.1	11041.1	11041.1	11041.1	11041.1	11041.1	11041.1	11041.1	11041.1	11041.1
2.5°	11635.4	11648.0	11663.7	11685.8	11701.5	11654.3	11588.3	11512.8	11497.1	11336.7	11141.7
5°	11012.8	11031.7	11170.0	11245.5	11415.3	11569.4	11666.9	11679.5	11673.2	11522.2	11210.9
7.5°	10126.0	10179.4	10314.7	10446.7	10764.4	11056.8	11402.7	11644.9	11660.6	11619.7	11232.9
10°	9405.8	9440.4	9509.6	9770.6	10034.8	10481.3	10965.6	11421.6	11459.3	11622.9	11214.1
12.5°	8842.9	8893.3	8978.2	9179.4	9497.0	9918.4	10468.8	11082.0	11160.6	11563.1	11160.6
15°	8449.8	8475.0	8559.9	8758.0	9066.2	9456.2	10012.8	10726.6	10795.8	11484.5	11151.2
17.5°	8264.3	8292.6	8352.4	8509.6	8764.3	9126.0	9670.0	10440.5	10528.5	11434.2	11185.8
20°	8314.6	8339.8	8342.9	8424.7	8597.6	8902.7	9418.4	10173.2	10286.4	11402.7	11242.4
22.5°	8600.8	8603.9	8566.2	8528.5	8588.2	8808.3	9264.3	10003.3	10119.7	11396.4	11308.4
25°	9028.5	9037.9	8975.0	8842.9	8723.4	8836.6	9229.7	9893.3	9997.0	11380.7	11349.3
27.5°	9619.7	9616.5	9597.7	9377.5	9037.9	8962.4	9258.0	9833.5	9921.6	11336.7	11365.0
30°	10446.7	10421.6	10380.7	10132.3	9613.4	9267.5	9377.5	9795.8	9877.5	11273.8	11324.1
32.5°	11261.2	11355.6	11349.3	11113.4	10465.6	9811.5	9626.0	9846.1	9905.9	11232.9	11264.4
35°	12210.9	12207.8	12449.9	12361.9	11604.0	10506.5	10050.5	10012.8	10059.9	11261.2	11236.1
37.5°	13091.4	13173.2	13550.6	13641.8	12949.9	11487.6	10651.1	10371.3	10387.0	11453.1	11305.2
40°	14189.0	14346.2	14909.1	15214.1	14604.1	12943.6	11538.0	11028.5	11031.7	11924.8	11566.3
42.5°	15604.1	15852.5	16377.7	16887.1	16560.1	14666.9	12868.2	12069.4	12063.1	12755.0	12163.8
45°	17324.2	17497.2	18094.7	18902.9	18695.3	17072.7	14805.3	13682.7	13600.9	14116.6	13223.5
47.5°	18808.5	19044.4	19651.3	20572.7	21516.1	20009.8	17119.8	15899.7	15846.2	16283.3	15041.2
50°	19456.3	19663.9	20302.3	21594.8	23881.0	23865.2	20566.4	19135.6	19044.4	19280.2	17852.5
52.5°	18745.6	18940.6	19585.3	21195.4	24994.2	28563.4	25560.2	23195.4	23085.4	22783.5	21211.1
55°	16311.6	16472.0	17424.9	19274.0	24566.5	31695.6	32440.9	28211.2	27783.6	26610.6	25013.1
57.5°	12987.7	12905.9	13497.1	15645.0	22057.0	32745.9	39503.9	34459.8	33695.6	29918.8	28230.1
60°	9000.2	9251.8	9490.7	10905.9	16585.2	30925.1	43897.1	42315.3	41309.0	33173.6	31311.9
62.5°	6616.5	6783.1	6940.4	7594.5	10427.9	24692.3	44673.8	50384.6	49491.5	36629.6	34252.2
65°	5232.8	5245.4	5308.3	5952.9	6871.2	16056.9	40941.0	54935.0	54705.5	39956.7	35444.1
66°	4767.4	4770.5	4868.0	5559.9	6166.8	13075.7	37950.4	55280.9	55406.7	40755.5	35095.0
67.5°	4166.7	4154.2	4295.7	4997.0	5616.5	9427.9	32598.1	53878.4	54623.7	41368.7	33840.3
70°	3229.6	3213.9	3386.9	4191.9	5173.1	6289.4	21667.1	46261.9	47463.2	40114.0	29940.8
72.5°	2151.0	2163.6	2459.2	3308.2	4937.2	5537.8	13034.8	35192.5	36890.6	33126.4	23553.9
75°	1254.7	1276.8	1613.2	2459.2	4286.2	5280.0	7377.5	25094.8	26179.7	22874.7	14673.2
77.5°	657.2	666.7	902.5	1622.7	3286.2	4902.6	4915.2	16031.8	16541.2	11116.6	5808.3
80°	349.1	339.6	484.3	978.0	2261.0	4305.1	3987.5	8487.6	8824.1	3302.0	1468.6
82.5°	132.1	144.7	257.9	641.5	1336.5	3091.3	3434.0	3751.6	3635.3	726.4	616.4
85°	25.2	31.4	110.1	380.5	673.0	1292.5	2531.5	1839.7	1704.4	273.6	355.4
87.5°	3.1	6.3	31.4	91.2	97.5	437.1	748.4	509.4	440.3	100.6	147.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11041.1	11041.1	11041.1	11041.1	11041.1	11041.1	11041.1	11041.1	11041.1	11041.1	11041.1
2.5°	11047.4	10962.5	10679.5	10399.6	10113.4	9855.5	9679.4	9393.3	9320.9	9217.2	9157.4
5°	11025.4	10827.3	10283.2	9688.9	9135.4	8537.9	8081.9	7641.7	7405.8	7286.3	7242.3
7.5°	10962.5	10648.0	9798.9	8868.1	7981.3	7088.2	6311.4	5720.2	5339.7	5078.7	4902.6
10°	10836.7	10402.7	9236.0	7956.1	6616.5	5437.2	4452.9	3704.5	3125.8	2943.5	2949.7
12.5°	10707.8	10129.1	8607.1	6943.5	5283.1	3795.7	2751.6	2160.4	1883.7	1792.5	1773.6
15°	10588.3	9868.1	7990.7	5962.4	3934.0	2459.2	1773.6	1566.1	1490.6	1474.9	1471.7
17.5°	10525.4	9626.0	7333.5	4839.7	2745.3	1669.8	1421.4	1364.8	1342.8	1327.1	1320.8
20°	10471.9	9415.3	6704.5	3789.4	1877.4	1368.0	1273.6	1220.1	1182.4	1166.7	1157.3
22.5°	10434.2	9198.3	6053.6	2934.0	1437.1	1213.9	1129.0	1059.8	1006.3	987.4	974.9
25°	10377.6	8959.3	5396.3	2144.7	1210.7	1078.6	981.2	899.4	830.2	795.6	789.3
27.5°	10295.8	8688.8	4676.2	1588.1	1081.8	959.1	839.6	739.0	669.8	632.1	635.2
30°	10163.7	8405.8	3956.1	1261.0	978.0	836.5	707.6	610.1	544.0	515.7	512.6
32.5°	10006.5	8063.0	3295.7	1081.8	883.7	726.4	591.2	506.3	456.0	434.0	430.8
35°	9858.7	7717.1	2622.7	971.7	786.2	625.8	496.9	424.5	386.8	367.9	371.1
37.5°	9776.9	7408.9	2044.1	883.7	707.6	537.7	427.7	364.8	330.2	314.5	311.3
40°	9830.4	7157.4	1625.8	805.0	619.5	462.3	367.9	314.5	279.9	257.9	257.9
42.5°	10082.0	7047.3	1311.3	729.6	537.7	399.4	320.8	270.4	232.7	210.7	213.8
45°	10849.3	7163.7	1097.5	660.4	462.3	345.9	276.7	223.3	188.7	173.0	169.8
47.5°	12122.9	7600.8	949.7	588.1	396.2	295.6	232.7	185.5	150.9	138.4	135.2
50°	14349.3	8503.3	839.6	515.7	336.5	251.6	191.8	147.8	119.5	106.9	106.9
52.5°	17412.3	10471.9	761.0	434.0	283.0	213.8	157.2	119.5	94.3	84.9	81.8
55°	20613.6	12547.4	720.1	364.8	235.9	176.1	125.8	94.3	72.3	62.9	59.7
57.5°	23692.3	14176.4	673.0	295.6	188.7	135.2	97.5	72.3	50.3	44.0	40.9
60°	26645.2	15494.0	572.3	235.9	147.8	97.5	72.3	50.3	34.6	28.3	28.3
62.5°	29286.7	16261.3	449.7	188.7	113.2	69.2	47.2	37.7	25.2	18.9	18.9
65°	29594.9	15264.4	339.6	144.7	81.8	44.0	28.3	28.3	18.9	12.6	12.6
66°	28975.4	14418.5	298.7	132.1	72.3	37.7	25.2	22.0	15.7	9.4	9.4
67.5°	27591.7	12975.1	257.9	113.2	59.7	28.3	18.9	18.9	12.6	6.3	6.3
70°	23840.1	10597.7	204.4	84.9	44.0	22.0	12.6	12.6	9.4	6.3	6.3
72.5°	18170.2	7912.1	166.7	62.9	31.4	15.7	9.4	9.4	9.4	6.3	6.3
75°	10959.3	4261.1	128.9	47.2	28.3	12.6	6.3	9.4	12.6	9.4	6.3
77.5°	4037.8	1449.7	100.6	37.7	22.0	12.6	6.3	6.3	12.6	9.4	9.4
80°	990.6	377.4	72.3	31.4	22.0	12.6	6.3	6.3	12.6	12.6	12.6
82.5°	459.1	160.4	50.3	28.3	22.0	12.6	6.3	6.3	9.4	12.6	12.6
85°	264.2	75.5	40.9	31.4	22.0	12.6	6.3	6.3	9.4	12.6	12.6
87.5°	106.9	37.7	37.7	31.4	25.2	15.7	6.3	6.3	6.3	9.4	9.4
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)