

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: P455567

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455567
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
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-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30003 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

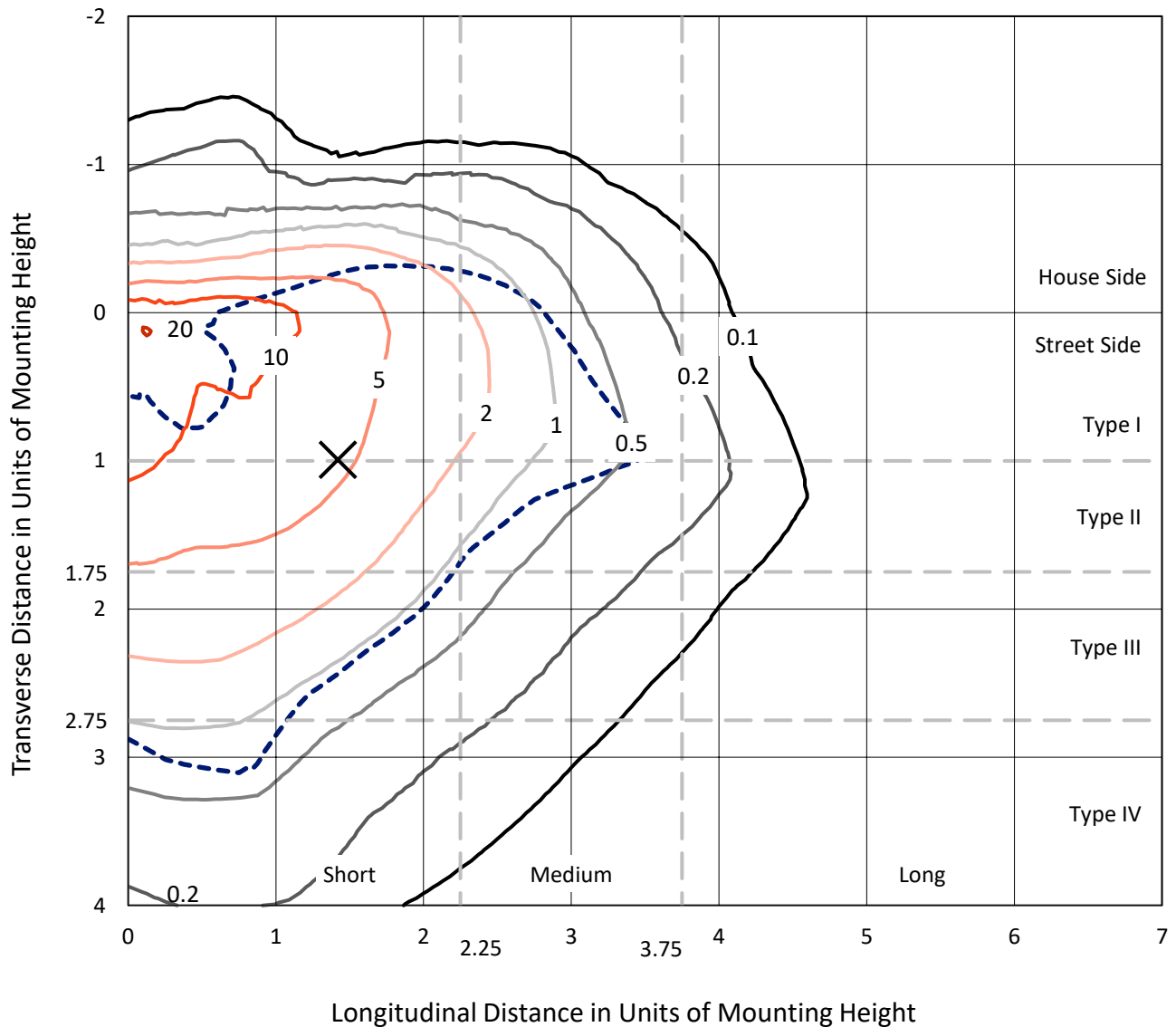
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P455567
 CATALOG NUMBER: GALN-SA6D-730-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

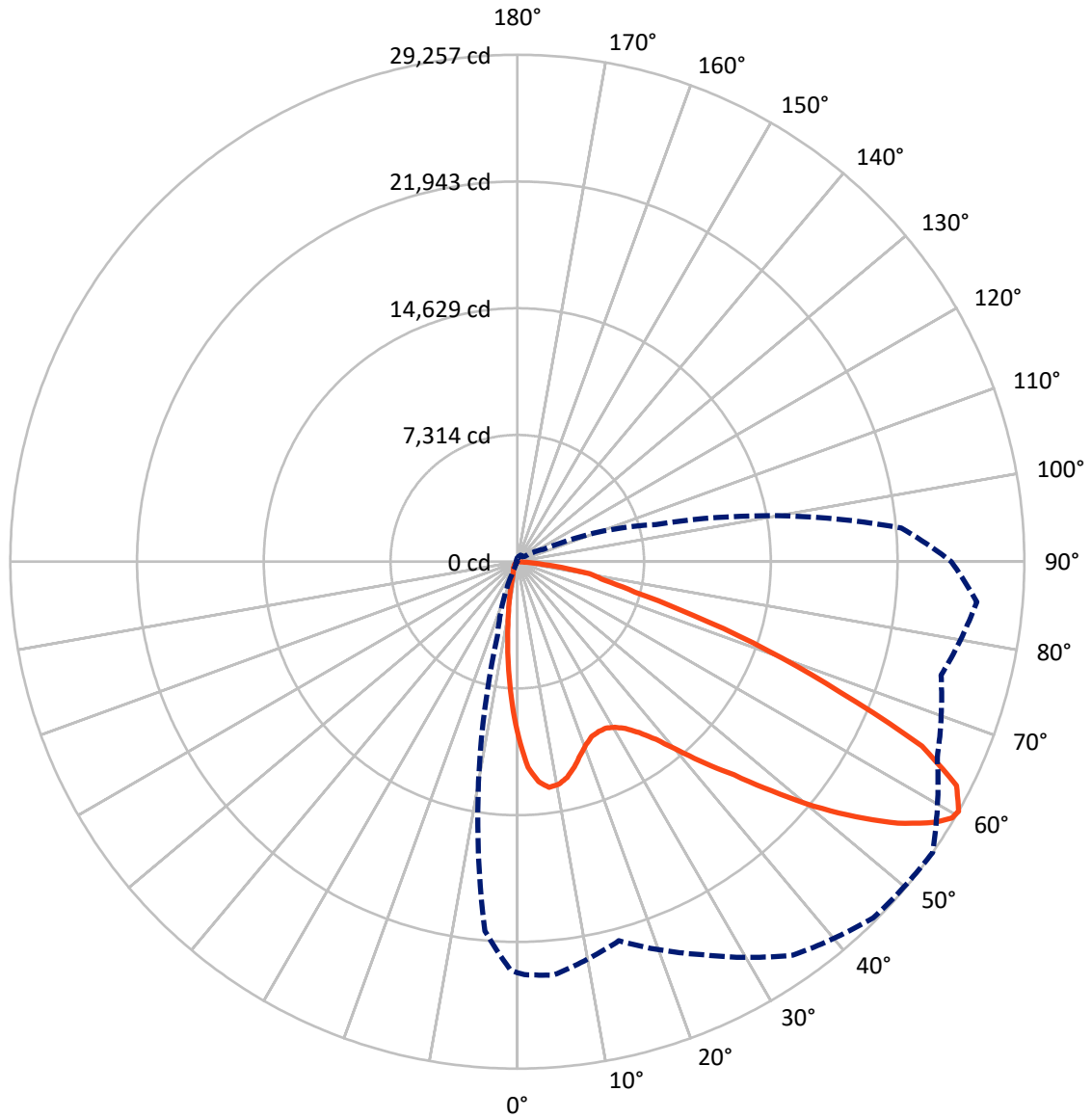
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21 fc
 Type III - Short - N/A

REPORT NUMBER: P455567
CATALOG NUMBER: GALN-SA6D-730-U-SLL-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: P455567
 CATALOG NUMBER: GALN-SA6D-730-U-SLL-HSS

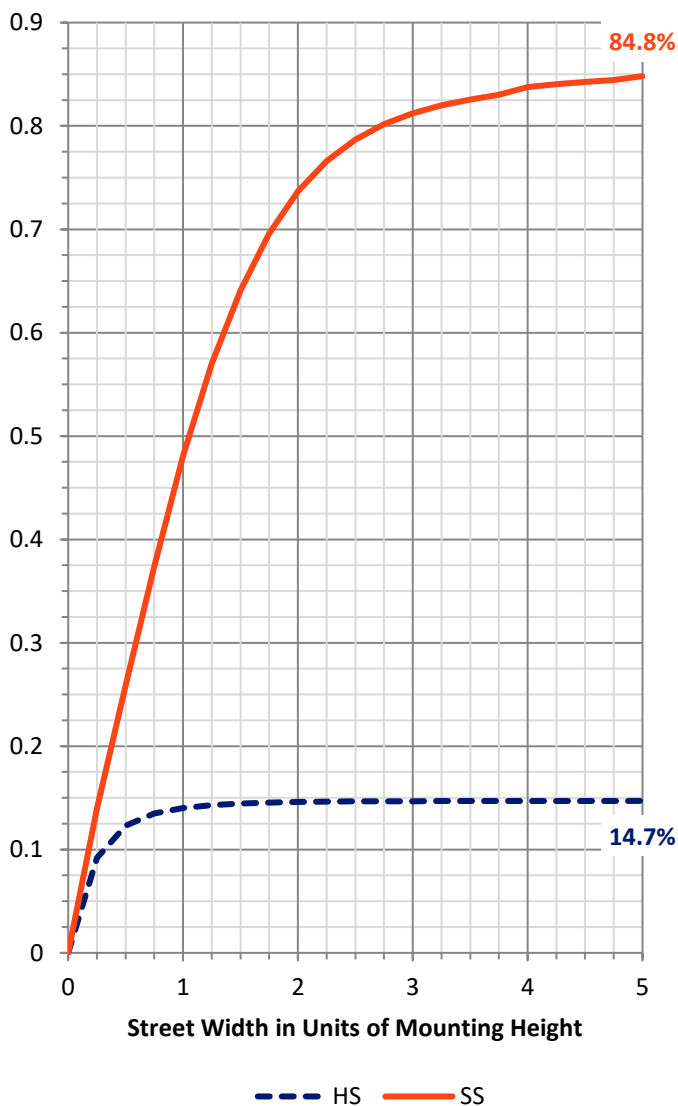
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4452.7	0.0	4452.7
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	25550.3	0.0	25550.3
	% Fixture	85.2	0.0	85.2
Total	Lumens	30003.0	0.0	30003.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	752.3	2.5
10°-20°	1481.4	4.9
20°-30°	2192.8	7.3
30°-40°	3268.6	10.9
40°-50°	4786.8	16.0
50°-60°	6910.7	23.0
60°-70°	7269.7	24.2
70°-80°	2990.5	10.0
80°-90°	350.2	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°	30003.0	100.0
0°-180°	30003.0	100.0

Coefficient of Utilization



REPORT NUMBER: P455567

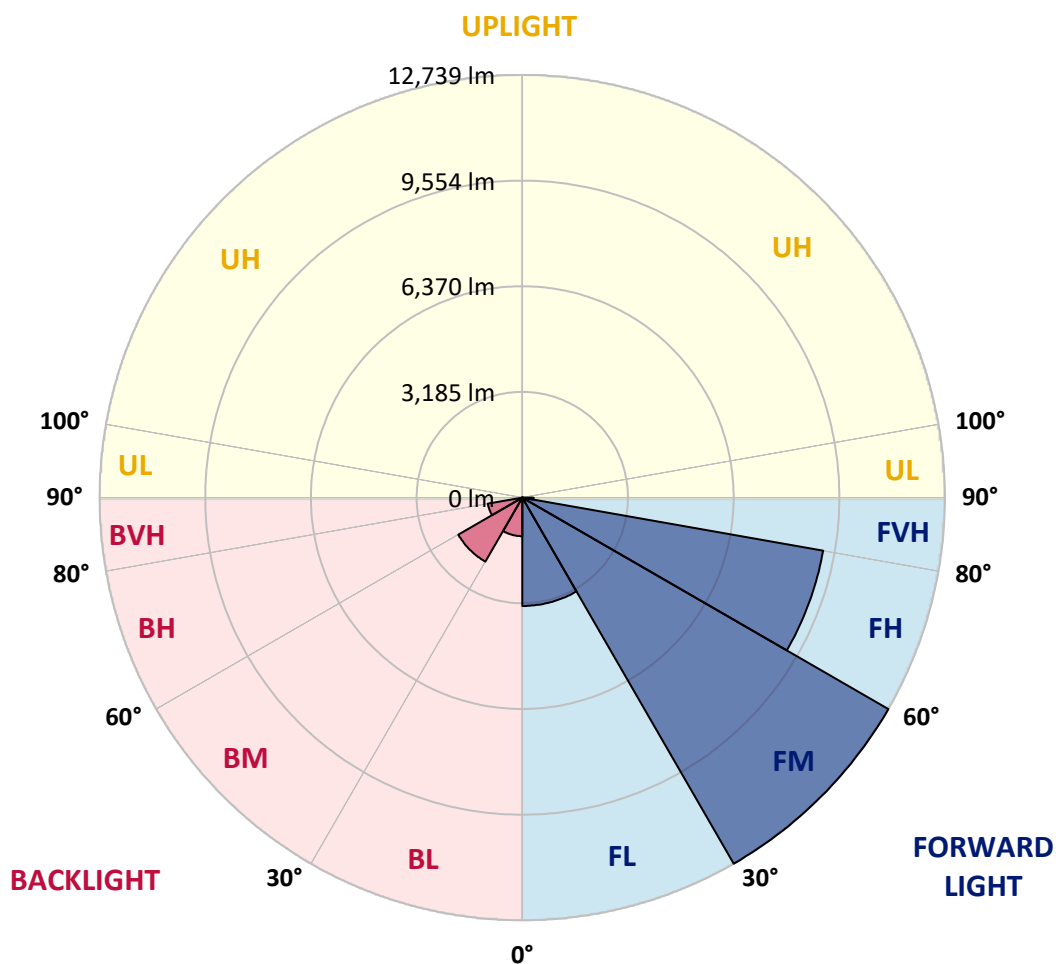
CATALOG NUMBER: GALN-SA6D-730-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3264.7	10.9			
FM (30°-60°)	12739.3	42.5			
FH (60°-80°)	9206.3	30.7			G4/12000
FVH (80°-90°)	339.9	1.1			G3/500
BL (0°-30°)	1161.7	3.9	B3/2500		
BM (30°-60°)	2226.8	7.4	B2/2500		
BH (60°-80°)	1053.9	3.5	B3/2500		G3/2500
BVH (80°-90°)	10.3	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-G4

Type III Short





REPORT NUMBER: P455567
 CATALOG NUMBER: GALN-SA6D-730-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10158.9	10158.9	10158.9	10158.9	10158.9	10158.9	10158.9	10158.9	10158.9	10158.9	10158.9
2.5°	11098.8	11080.4	11244.3	11512.2	11782.4	11923.3	11895.6	11884.0	11660.0	11496.1	11152.0
5°	11075.8	11170.4	11463.7	12188.9	12738.5	13004.1	13082.6	12752.4	12315.9	11683.1	10902.6
7.5°	10413.0	10530.7	11008.8	12142.7	13119.5	13696.9	13676.1	13147.3	12246.6	11267.4	10154.3
10°	9590.8	9729.4	10290.6	11667.0	12934.8	13696.9	13738.5	13068.7	11948.7	10692.4	9521.5
12.5°	9011.2	9175.1	9796.4	11223.6	12459.1	13209.6	13258.1	12773.1	11724.7	10470.7	9177.4
15°	8814.9	8969.6	9600.1	10999.5	11953.3	12357.5	12345.9	12295.1	11636.9	10523.8	9195.9
17.5°	9152.0	9279.1	9990.3	11101.2	11479.9	11438.3	11498.4	11743.2	11655.4	10969.5	9777.9
20°	10022.7	10152.0	10916.4	11412.9	11117.3	10854.1	10881.8	11290.5	11826.3	11807.8	10687.8
22.5°	11221.2	11440.6	12133.4	12018.0	11068.8	10491.5	10433.7	10964.9	12117.3	12773.1	11916.4
25°	12738.5	12960.2	13500.6	12983.3	11306.7	10406.0	10352.9	10865.6	12470.6	13715.4	13299.7
27.5°	14013.3	14181.9	14719.9	13923.2	11657.7	10443.0	10355.2	10879.5	12757.0	14516.7	14465.9
30°	15034.0	15158.7	15475.1	14362.0	11960.2	10604.6	10503.0	11082.7	12884.0	14907.0	15410.4
32.5°	15856.2	16066.3	16165.6	14830.8	12394.4	10909.5	10736.3	11473.0	13193.4	15389.7	16401.2
35°	16796.1	17038.6	16911.5	15278.8	12967.1	11385.2	11172.7	12105.7	13662.3	15835.4	17551.2
37.5°	17987.7	18267.1	17770.6	15749.9	13572.2	12101.1	12001.8	12994.8	14373.5	16472.8	18784.4
40°	19220.9	19382.6	18604.3	16322.6	14315.8	13142.6	13237.3	14315.8	15304.2	17237.2	20096.2
42.5°	20183.9	20336.3	19461.1	16803.0	15075.6	14378.2	14773.1	15909.3	16371.1	18020.0	21075.3
45°	20920.6	21049.9	20054.6	17327.2	16101.0	16167.9	16913.8	17551.2	17440.4	18498.1	21830.5
47.5°	21493.3	21604.2	20511.9	17890.7	17636.7	18357.2	19498.0	19768.2	18548.9	19015.4	22514.1
50°	21728.9	21761.2	20655.0	18608.9	19380.3	21146.9	22336.3	22172.3	19819.0	19590.4	23241.5
52.5°	22036.0	22029.1	21063.8	19292.5	21019.9	23641.1	24828.1	24456.3	21255.5	20451.8	24059.1
55°	22842.0	22851.2	21939.0	20262.4	22417.1	25654.8	26925.0	26654.8	22770.4	21906.7	25012.8
57.5°	23821.2	23855.8	23183.8	21396.3	23751.9	27114.4	28490.7	28386.8	24818.8	23525.6	25913.5
59°	23948.2	24017.5	23772.7	22195.4	24544.0	27562.4	29026.5	29128.1	25915.8	24592.5	26400.8
60°	23717.3	23832.7	23943.6	22648.0	25008.2	27724.0	29058.8	29257.4	26740.2	25317.7	26622.5
62.5°	22710.4	22892.8	23449.4	24040.6	25587.9	27220.6	28026.6	28442.2	27761.0	27222.9	26643.2
65°	21391.7	21486.4	22290.1	24287.7	24463.2	24869.6	25119.1	25652.5	26534.7	27957.3	25689.5
67.5°	19230.2	19509.6	20493.4	22853.6	21144.6	20664.3	20601.9	20070.8	22361.7	26206.8	23338.5
70°	15886.2	16010.9	17223.3	18735.9	15957.8	15218.8	15514.4	15315.8	17334.2	22560.3	18784.4
72.5°	12013.4	12295.1	13479.8	14934.7	10858.7	9900.3	10715.5	10641.6	13020.2	18130.9	12904.8
75°	8547.0	8729.4	10239.8	11687.7	7604.8	6443.2	6736.4	7011.3	9089.7	14315.8	7625.6
77.5°	5872.7	6029.8	7163.7	7729.5	5547.1	5313.9	4861.2	5126.8	5955.9	8493.9	4149.9
80°	3542.6	3535.7	4281.6	4420.1	3863.6	4487.1	3764.3	4226.2	3600.3	3635.0	1607.3
82.5°	2300.1	2277.0	2618.8	2854.4	2150.0	2260.9	1517.3	2187.0	2346.3	1013.8	508.1
85°	1030.0	1073.9	1258.6	1660.4	942.2	501.1	309.5	672.0	1000.0	510.4	0.0
87.5°	106.2	83.1	221.7	404.1	129.3	13.9	46.2	23.1	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



REPORT NUMBER: P455567

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10158.9	10158.9	10158.9	10158.9	10158.9	10158.9	10158.9	10158.9	10158.9	10158.9	10158.9
2.5°	10992.6	10858.7	10459.2	10085.0	9764.0	9371.4	9117.4	8717.9	8475.4	8401.5	8413.0
5°	10551.5	10165.9	9406.1	8798.7	8122.1	7736.4	7149.8	6586.3	6281.5	6168.3	6117.5
7.5°	9627.8	9214.4	8297.6	7343.8	6618.7	5942.0	5505.5	5009.0	4669.6	4390.1	4341.6
10°	8941.9	8399.2	7263.0	6237.6	5664.9	5156.8	4720.4	4223.8	3824.3	3505.6	3417.9
12.5°	8530.8	7923.5	6655.6	5796.5	5253.8	4731.9	4163.8	3588.8	3180.0	2835.9	2676.6
15°	8456.9	7752.6	6484.7	5480.1	4810.4	4180.0	3424.8	2803.6	2383.3	2057.7	1958.3
17.5°	8902.6	8059.7	6459.3	5149.9	4230.8	3337.0	2551.9	2036.9	1563.4	1381.0	1309.4
20°	9697.1	8602.4	6457.0	4766.5	3635.0	2570.3	1792.1	1327.9	1136.2	1048.5	1006.9
22.5°	10780.2	9341.4	6579.4	4436.3	3016.0	1896.0	1279.4	1057.7	946.8	875.3	859.1
25°	12103.4	10436.1	6879.6	4212.3	2542.6	1487.2	1055.4	905.3	812.9	780.6	766.7
27.5°	13278.9	11484.5	7209.9	3981.4	2203.1	1316.3	979.2	829.1	755.2	729.8	709.0
30°	14292.7	12436.0	7369.2	3676.5	1930.6	1205.5	993.0	886.8	789.8	713.6	679.0
32.5°	15137.9	13165.7	7473.1	3399.4	1699.7	986.1	785.2	685.9	642.0	614.3	591.2
35°	16195.6	13955.5	7410.8	3242.4	1581.9	898.3	715.9	591.2	517.3	461.9	438.8
37.5°	17304.1	14745.3	7302.2	3113.0	1528.8	833.7	681.3	561.2	480.3	422.6	392.6
40°	18451.9	15477.4	7175.2	2992.9	1480.3	792.1	660.5	535.8	454.9	392.6	360.3
42.5°	19502.7	16191.0	7124.4	2914.4	1401.8	799.0	644.3	524.2	429.5	364.9	337.2
45°	20352.5	16867.7	7193.7	2872.9	1316.3	787.5	648.9	510.4	408.8	346.4	318.7
47.5°	21260.1	17823.7	7417.7	2831.3	1233.2	732.1	683.6	508.1	399.5	334.9	304.8
50°	22315.5	19047.7	7930.4	2729.7	1131.6	672.0	727.5	505.8	388.0	321.0	291.0
52.5°	23721.9	20438.0	8459.2	2551.9	983.8	614.3	695.1	498.8	364.9	304.8	274.8
55°	24985.1	21902.1	8907.3	2341.7	796.7	531.2	625.8	468.8	325.6	277.1	249.4
57.5°	25507.0	22728.9	8893.4	2050.7	637.4	466.5	515.0	429.5	284.1	244.8	221.7
59°	25315.3	22624.9	8595.5	1836.0	582.0	431.9	427.2	424.9	265.6	221.7	203.2
60°	25045.2	22246.2	8274.5	1729.7	547.3	408.8	392.6	420.3	249.4	207.8	189.4
62.5°	24010.6	20675.8	7209.9	1549.6	501.1	346.4	314.1	355.6	221.7	180.1	164.0
65°	22511.8	18262.5	6103.7	1498.8	487.3	286.4	261.0	254.0	189.4	152.4	138.6
67.5°	19588.1	15454.3	4944.4	1464.1	491.9	240.2	228.6	191.7	157.0	127.0	117.8
70°	15683.0	12050.3	4048.3	1424.9	496.5	196.3	191.7	152.4	127.0	106.2	97.0
72.5°	9528.5	7142.9	3186.9	1237.8	482.7	157.0	170.9	115.5	92.4	76.2	71.6
75°	5891.2	4888.9	1976.8	963.0	318.7	115.5	120.1	71.6	62.4	48.5	48.5
77.5°	3413.3	3087.6	706.7	346.4	140.9	69.3	53.1	36.9	34.6	20.8	20.8
80°	1415.6	1133.9	244.8	117.8	76.2	32.3	11.5	2.3	0.0	0.0	0.0
82.5°	413.4	367.2	67.0	53.1	23.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	10158.9	10158.9	10158.9	10158.9	10158.9	10158.9	10158.9	10158.9	10158.9	10158.9	10158.9
2.5°	8216.7	8140.5	8105.9	8223.7	8115.1	8253.7	8147.5	8193.7	8329.9	8390.0	8544.7
5°	6149.9	6071.3	6034.4	6212.2	6203.0	6290.7	6281.5	6362.3	6431.6	6276.9	6436.2
7.5°	4283.9	4230.8	4318.5	4457.1	4604.9	4556.4	4556.4	4447.9	4484.8	4461.7	4454.8
10°	3258.5	3076.1	3029.9	3025.3	3080.7	3092.3	3029.9	2879.8	2935.2	2951.4	3048.4
12.5°	2563.4	2422.5	2207.8	2110.8	2085.4	2106.1	1900.6	1769.0	1831.3	1794.4	1889.1
15°	1838.3	1722.8	1595.8	1487.2	1457.2	1415.6	1191.6	1034.6	1016.1	1023.1	1039.2
17.5°	1311.7	1233.2	1233.2	1117.7	1055.4	930.7	817.5	748.2	741.3	748.2	759.8
20°	967.6	926.1	921.4	891.4	822.1	739.0	660.5	646.6	642.0	653.6	658.2
22.5°	833.7	789.8	752.9	750.5	685.9	616.6	579.7	561.2	563.5	568.1	579.7
25°	745.9	699.7	660.5	637.4	591.2	542.7	508.1	498.8	498.8	505.8	508.1
27.5°	683.6	625.8	591.2	558.9	517.3	475.7	445.7	438.8	434.2	438.8	450.3
30°	639.7	582.0	538.1	489.6	457.3	418.0	392.6	383.4	381.0	383.4	392.6
32.5°	547.3	512.7	478.0	434.2	394.9	369.5	341.8	325.6	325.6	330.2	339.5
35°	413.4	394.9	392.6	381.0	348.7	321.0	288.7	272.5	272.5	281.7	286.4
37.5°	364.9	330.2	325.6	321.0	307.1	270.2	240.2	226.3	224.0	230.9	240.2
40°	332.5	293.3	272.5	267.9	270.2	228.6	196.3	182.4	182.4	184.7	194.0
42.5°	307.1	261.0	224.0	219.4	228.6	191.7	159.3	145.5	145.5	145.5	157.0
45°	286.4	233.2	189.4	166.3	180.1	157.0	129.3	115.5	110.8	115.5	120.1
47.5°	272.5	212.5	166.3	133.9	133.9	124.7	103.9	87.8	83.1	85.4	92.4
50°	261.0	194.0	140.9	108.5	97.0	99.3	78.5	67.0	62.4	62.4	69.3
52.5°	242.5	175.5	122.4	92.4	73.9	67.0	57.7	48.5	46.2	48.5	53.1
55°	219.4	159.3	106.2	76.2	57.7	46.2	41.6	34.6	32.3	34.6	41.6
57.5°	194.0	133.9	85.4	60.0	39.3	30.0	27.7	23.1	18.5	20.8	25.4
59°	177.8	120.1	73.9	48.5	30.0	20.8	20.8	16.2	11.5	13.9	20.8
60°	170.9	110.8	62.4	41.6	25.4	16.2	16.2	11.5	6.9	9.2	16.2
62.5°	145.5	92.4	48.5	25.4	11.5	2.3	6.9	2.3	0.0	2.3	6.9
65°	122.4	73.9	32.3	11.5	0.0	0.0	0.0	0.0	0.0	0.0	2.3
67.5°	101.6	55.4	16.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	80.8	36.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	55.4	20.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	34.6	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	13.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P455567
 CATALOG NUMBER: GALN-SA6D-730-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10158.9	10158.9	10158.9	10158.9	10158.9	10158.9	10158.9	10158.9	10158.9	10158.9
2.5°	8553.9	8884.2	9087.4	9470.7	9863.3	10165.9	10544.6	10884.1	11024.9	11098.8
5°	6597.9	7057.4	7447.7	8032.0	8574.7	9235.2	9904.9	10694.7	10997.2	11075.8
7.5°	4630.3	5099.1	5507.9	6184.5	6958.1	7842.6	8844.9	9847.2	10288.3	10413.0
10°	3344.0	3845.1	4343.9	5020.6	5743.4	6701.8	7745.6	8985.8	9493.8	9590.8
12.5°	2110.8	2648.9	3459.4	4295.4	5059.8	5831.2	6923.5	8272.2	8833.4	9011.2
15°	1224.0	1625.8	2237.8	3327.8	4300.1	5320.8	6512.4	8004.3	8632.4	8814.9
17.5°	819.8	958.4	1378.7	2212.4	3496.4	4849.7	6408.5	8223.7	8918.8	9152.0
20°	690.5	752.9	900.7	1348.7	2692.7	4429.4	6436.2	8819.5	9731.7	10022.7
22.5°	607.4	665.1	759.8	969.9	1879.8	3907.5	6567.9	9671.7	10849.4	11221.2
25°	535.8	593.5	676.6	803.7	1263.2	3304.7	6856.5	10918.7	12329.7	12738.5
27.5°	475.7	528.8	600.4	709.0	972.2	2632.7	7112.9	12133.4	13680.7	14013.3
30°	420.3	464.2	533.5	616.6	808.3	2029.9	7242.2	13195.8	14664.5	15034.0
32.5°	364.9	406.4	473.4	540.4	665.1	1547.3	7152.1	13976.3	15620.6	15856.2
35°	311.8	355.6	411.1	473.4	575.0	1249.4	6701.8	14853.9	16611.3	16796.1
37.5°	267.9	304.8	362.6	411.1	519.6	1000.0	6156.8	15643.7	17722.1	17987.7
40°	226.3	263.3	321.0	364.9	478.0	787.5	5664.9	16521.3	18893.0	19220.9
42.5°	184.7	228.6	279.4	351.0	411.1	600.4	5069.1	17232.5	19772.9	20183.9
45°	147.8	196.3	251.7	348.7	358.0	457.3	4494.0	17786.8	20551.1	20920.6
47.5°	117.8	166.3	242.5	325.6	293.3	362.6	4166.1	18366.4	21197.7	21493.3
50°	94.7	138.6	254.0	286.4	244.8	307.1	4156.9	19013.1	21532.6	21728.9
52.5°	76.2	113.2	214.8	219.4	207.8	270.2	4406.3	19740.5	21874.4	22036.0
55°	64.7	94.7	140.9	161.7	187.1	244.8	4593.3	20860.6	22689.6	22842.0
57.5°	50.8	80.8	108.5	129.3	166.3	224.0	4618.7	21724.3	23721.9	23821.2
59°	43.9	69.3	97.0	115.5	152.4	210.2	4514.8	21777.4	23788.9	23948.2
60°	36.9	62.4	85.4	108.5	140.9	198.6	4401.7	21391.7	23539.4	23717.3
62.5°	27.7	48.5	62.4	87.8	115.5	170.9	3865.9	20045.4	22585.7	22710.4
65°	18.5	34.6	46.2	64.7	90.1	147.8	3150.0	18299.5	21112.3	21391.7
67.5°	11.5	25.4	36.9	48.5	73.9	124.7	2244.7	15692.2	19050.0	19230.2
70°	6.9	16.2	27.7	39.3	57.7	99.3	1332.5	12403.6	15849.2	15886.2
72.5°	4.6	11.5	18.5	27.7	46.2	90.1	646.6	8085.1	11572.3	12013.4
75°	2.3	6.9	11.5	20.8	36.9	73.9	309.5	5401.6	8420.0	8547.0
77.5°	0.0	2.3	6.9	13.9	27.7	57.7	180.1	3547.2	5741.1	5872.7
80°	0.0	0.0	4.6	11.5	20.8	36.9	108.5	2092.3	3477.9	3542.6
82.5°	0.0	0.0	2.3	9.2	13.9	27.7	55.4	919.1	2277.0	2300.1
85°	0.0	0.0	2.3	9.2	11.5	18.5	20.8	124.7	1011.5	1030.0
87.5°	0.0	0.0	2.3	11.5	11.5	11.5	11.5	6.9	85.4	106.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)