

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: P647335

Luminaire Tested: **GALN-SA3D-835-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647335
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-835-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13466.8 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

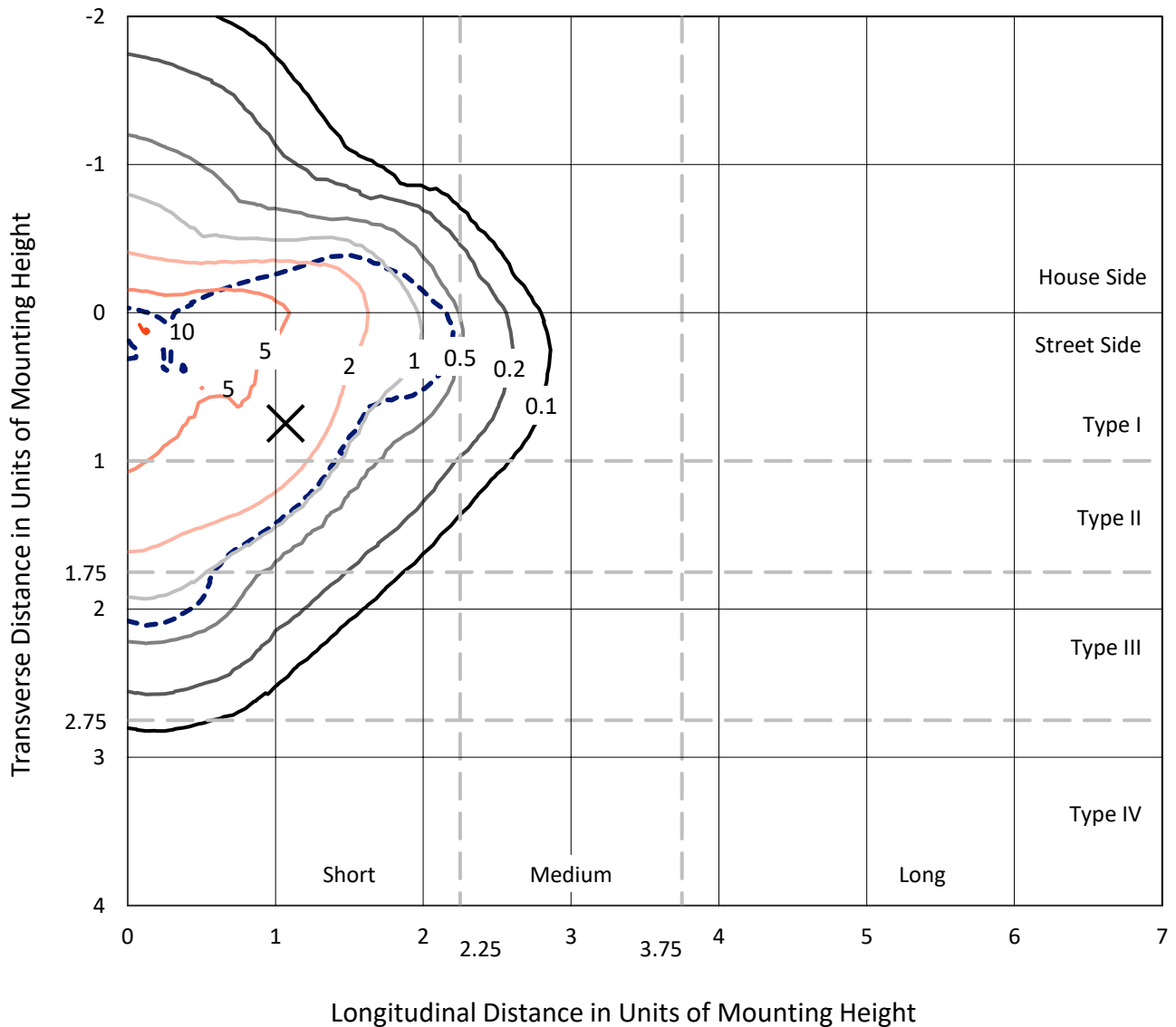
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647335
 CATALOG NUMBER: GALN-SA3D-835-U-SLL-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

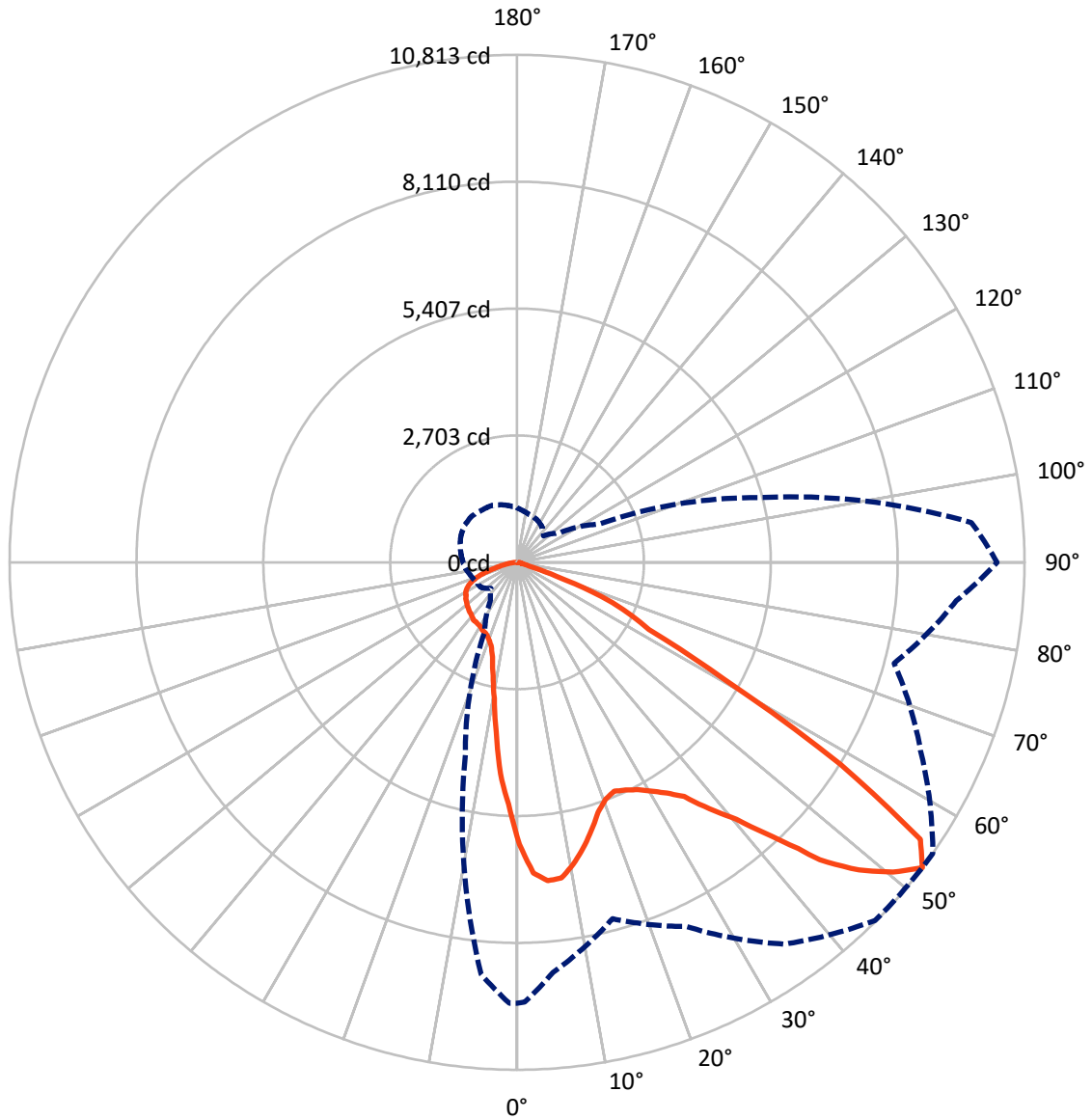
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P647335
CATALOG NUMBER: GALN-SA3D-835-U-SLL-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

REPORT NUMBER: P647335
 CATALOG NUMBER: GALN-SA3D-835-U-SLL-GRSWH

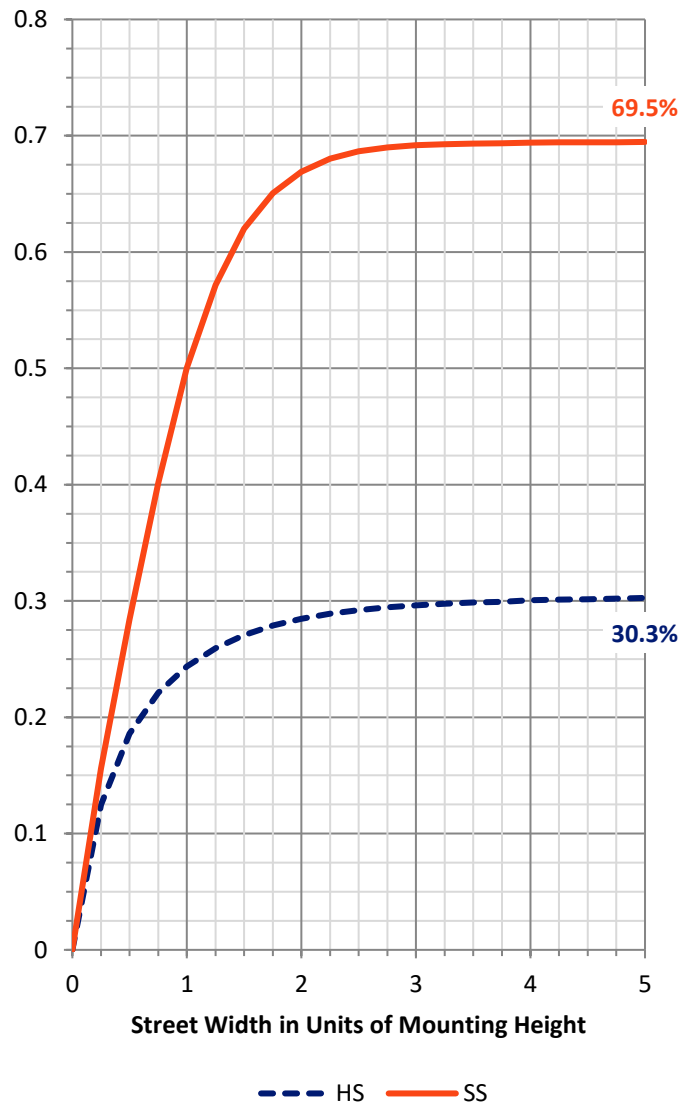
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4108.1	0.0	4108.1
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	9358.7	0.0	9358.7
	% Fixture	69.5	0.0	69.5
Total	Lumens	13466.8	0.0	13466.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	458.9	3.4
10°-20°	989.5	7.3
20°-30°	1500.5	11.1
30°-40°	2167.9	16.1
40°-50°	2897.0	21.5
50°-60°	3233.6	24.0
60°-70°	1773.8	13.2
70°-80°	383.5	2.8
80°-90°	62.0	0.5
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°	13466.8	100.0
0°-180°	13466.8	100.0

Coefficient of Utilization



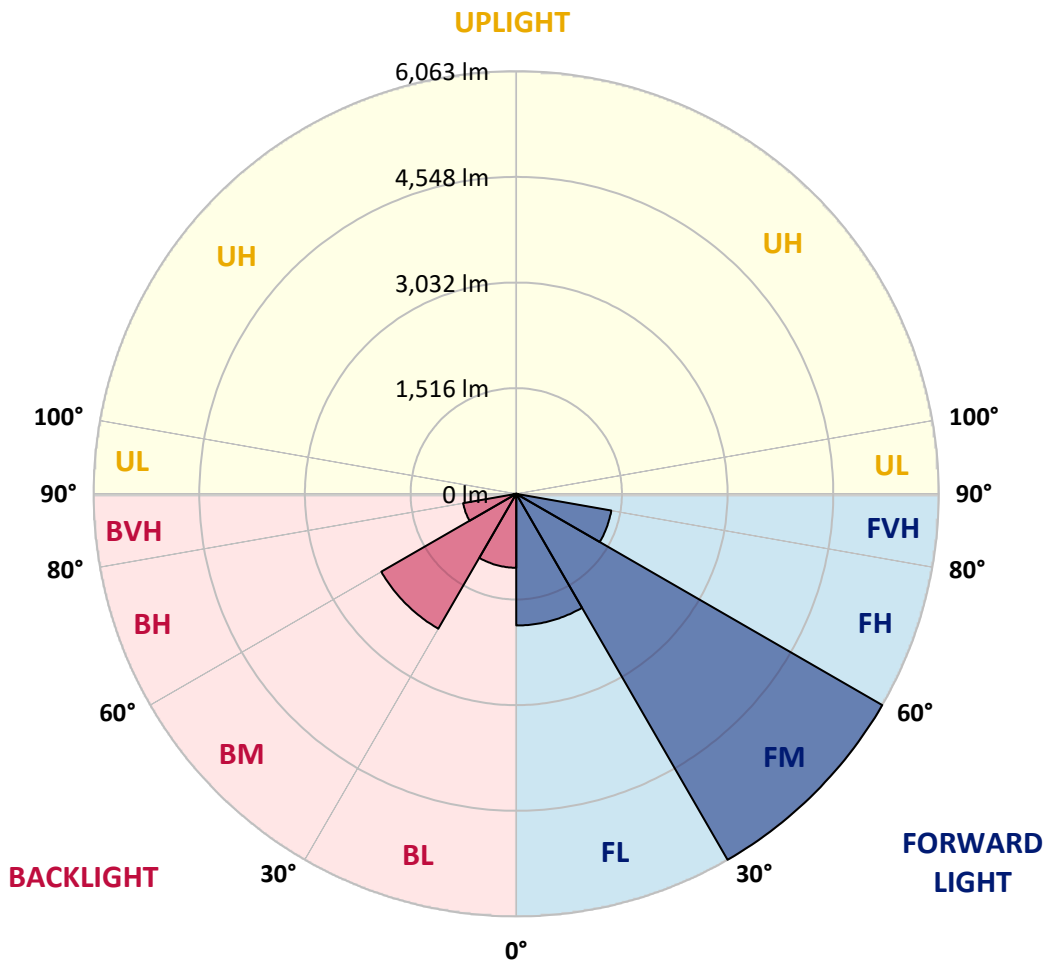
REPORT NUMBER: P647335
 CATALOG NUMBER: GALN-SA3D-835-U-SLL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1888.3	14.0			
FM (30°-60°)	6063.4	45.0			
FH (60°-80°)	1384.1	10.3			G1/1800
FVH (80°-90°)	23.0	0.2			G1/100
BL (0°-30°)	1060.7	7.9	B3/2500		
BM (30°-60°)	2235.1	16.6	B2/2500		
BH (60°-80°)	773.2	5.7	B2/1000		G2/1000
BVH (80°-90°)	39.1	0.3			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: P647335

CATALOG NUMBER: GALN-SA3D-835-U-SLL-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6007.3	6007.3	6007.3	6007.3	6007.3	6007.3	6007.3	6007.3	6007.3	6007.3	6007.3
2.5°	6304.2	6268.8	6300.3	6449.6	6536.2	6595.2	6632.6	6626.7	6485.0	6347.4	6347.4
5°	6119.3	6074.1	6139.0	6477.2	6817.3	6846.9	6896.0	6815.4	6607.0	6355.3	6040.7
7.5°	5584.5	5617.9	5726.1	6170.4	6612.9	6835.1	6894.1	6791.8	6453.6	5983.6	5521.6
10°	5122.4	5201.0	5450.8	5930.5	6337.6	6626.7	6691.5	6548.0	6280.6	5704.4	5291.5
12.5°	4963.1	4914.0	5191.2	5671.0	6060.3	6215.7	6245.2	6255.0	6074.1	5562.8	5059.4
15°	4943.5	4974.9	5191.2	5555.0	5794.9	5802.7	5851.9	5928.6	5952.2	5659.2	5167.6
17.5°	5226.6	5189.3	5411.5	5700.5	5586.5	5472.4	5484.2	5594.3	5789.0	5741.8	5507.8
20°	5645.4	5730.0	5905.0	5875.5	5568.8	5279.7	5281.6	5385.9	5769.3	6083.9	5981.7
22.5°	6341.5	6424.1	6553.9	6198.0	5568.8	5222.7	5155.8	5297.4	5895.1	6491.0	6516.5
25°	6976.7	7128.0	7163.4	6744.6	5848.0	5275.8	5232.5	5372.1	6021.0	6888.2	7130.0
27.5°	7554.8	7609.8	7765.2	7096.6	6003.3	5311.2	5307.3	5486.2	6180.3	7086.8	7678.6
30°	8011.0	8005.1	8093.6	7318.8	6251.1	5509.7	5319.0	5657.3	6388.7	7415.2	8186.0
32.5°	8321.6	8388.5	8575.3	7627.5	6355.3	5698.5	5549.0	5857.8	6642.3	7570.5	8543.9
35°	8868.3	8984.3	8748.4	7798.6	6685.6	5885.3	5710.3	6131.1	6768.3	7739.6	8982.3
37.5°	9383.5	9295.0	9055.1	7891.0	6900.0	6231.4	6068.2	6660.0	7159.5	8107.3	9273.4
40°	9713.8	9711.9	9285.2	7965.8	7051.4	6760.3	6750.6	7196.9	7639.3	8339.3	9599.8
42.5°	9857.4	9995.0	9379.6	7957.9	7369.9	7401.4	7600.0	7999.2	7979.5	8386.6	9591.9
44°	10054.0	10136.6	9542.7	7975.6	7582.3	7834.0	8302.0	8555.7	8276.4	8361.0	9582.1
45°	10046.1	10052.1	9310.7	7999.2	7763.2	8195.8	8614.6	9043.3	8538.0	8305.9	9711.9
47.5°	9816.1	9749.2	9114.1	7824.1	8327.5	9151.5	9538.8	9798.4	8860.4	8187.9	9550.6
50°	9361.9	9285.2	8636.3	7749.4	8445.5	9745.3	10280.2	10374.5	9153.4	8071.9	9391.4
52.5°	9393.3	9371.7	8771.9	7861.6	8563.5	9932.1	10789.4	10813.1	9485.7	8315.8	9393.3
55°	9955.7	9881.0	9161.3	8001.2	8477.0	9713.8	10465.0	10423.7	9373.7	8168.3	9566.4
57.5°	9110.1	9159.3	8622.5	7448.6	7419.1	7896.9	8227.3	8125.0	7822.2	7371.9	8899.7
60°	7350.3	7489.9	7541.0	6229.5	5598.2	5352.4	5254.1	5073.2	5124.3	6056.4	7818.3
62.5°	6304.2	6296.3	6616.8	5647.4	3667.3	3154.1	3106.9	3148.1	3738.0	5962.0	7657.0
65°	4998.5	5132.2	5230.5	4786.2	2902.3	2342.0	2340.0	2601.5	3234.7	4982.8	6182.3
67.5°	3173.7	3348.7	3470.6	3061.6	1940.8	1667.5	1622.2	1936.9	2241.7	3268.1	3722.3
70°	1789.4	1872.0	1927.0	1765.8	1234.9	865.2	814.1	888.8	1354.8	2115.8	2206.3
72.5°	690.2	727.6	802.3	808.2	466.0	279.2	226.1	271.4	570.3	837.7	798.3
75°	106.2	114.1	161.2	192.7	133.7	102.3	108.1	112.0	159.3	216.3	180.9
77.5°	51.1	51.1	49.2	57.0	66.9	72.7	78.7	86.5	94.4	104.2	100.3
80°	33.4	33.4	33.4	39.3	49.2	59.0	66.9	70.8	74.7	82.6	78.7
82.5°	21.6	21.6	21.6	29.5	39.3	49.2	53.1	63.0	70.8	82.6	76.7
85°	11.8	11.8	11.8	19.7	29.5	41.3	39.3	31.5	17.7	2.0	3.9
87.5°	3.9	3.9	3.9	3.9	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: P647335

CATALOG NUMBER: GALN-SA3D-835-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6007.3	6007.3	6007.3	6007.3	6007.3	6007.3	6007.3	6007.3	6007.3	6007.3	6007.3
2.5°	6182.3	6091.8	6083.9	5899.1	5733.9	5653.3	5588.4	5407.5	5446.9	5342.6	5340.6
5°	5883.4	5698.5	5399.6	5153.9	4908.1	4858.9	4644.5	4457.8	4463.6	4329.9	4353.6
7.5°	5346.6	5218.7	4855.0	4469.5	4143.2	3911.1	3708.6	3586.6	3431.3	3378.2	3350.7
10°	5006.3	4849.0	4440.1	3956.3	3590.6	3466.7	3272.0	3163.9	3004.6	2925.9	2870.9
12.5°	4856.9	4626.8	4115.6	3624.0	3380.2	3252.3	3087.2	2890.5	2701.8	2629.0	2528.8
15°	4872.7	4597.4	4021.3	3490.3	3197.3	2949.6	2802.0	2583.8	2391.1	2263.3	2190.5
17.5°	5110.6	4776.3	4064.5	3388.0	2967.3	2656.6	2367.5	2131.6	1978.2	1881.8	1858.2
20°	5673.0	5218.7	4137.2	3222.9	2737.2	2349.8	1993.9	1748.1	1630.1	1628.2	1630.1
22.5°	6141.0	5690.7	4284.7	3124.6	2507.1	1956.6	1602.6	1524.0	1500.3	1549.5	1555.4
25°	6772.2	6221.6	4538.3	3073.4	2294.7	1667.5	1449.2	1419.7	1417.8	1480.7	1482.6
27.5°	7419.1	6685.6	4689.8	2924.0	2078.5	1518.0	1356.8	1350.9	1382.4	1449.2	1443.3
30°	7859.5	7075.0	4963.1	2745.0	1822.8	1386.3	1319.4	1327.3	1370.6	1421.7	1429.5
32.5°	8372.8	7458.4	5033.9	2646.7	1665.5	1276.1	1229.0	1246.7	1301.7	1382.4	1425.6
35°	8960.7	7729.8	5142.0	2513.0	1606.5	1191.6	1168.0	1187.7	1254.5	1307.6	1354.8
37.5°	9395.3	8209.6	5161.7	2408.8	1541.6	1144.4	1107.1	1171.9	1211.3	1286.0	1309.6
40°	9717.7	8557.6	5212.8	2343.9	1490.5	1083.4	1083.4	1126.7	1179.8	1248.7	1295.9
42.5°	9924.2	8811.3	5250.2	2285.0	1392.2	1065.7	1056.0	1099.2	1170.0	1236.8	1258.4
44°	10050.1	8919.5	5212.8	2229.8	1364.7	1044.1	1044.1	1081.5	1136.5	1215.2	1240.7
45°	10081.5	9055.1	5130.2	2227.9	1331.3	1018.6	1014.6	1085.4	1122.8	1219.1	1234.9
47.5°	10203.4	9222.3	5140.1	2165.0	1250.6	957.6	1026.4	1057.9	1091.3	1175.9	1229.0
50°	10199.5	9326.5	5118.5	2072.5	1191.6	888.8	1002.9	1038.3	1071.7	1158.2	1179.8
52.5°	10227.1	9715.8	5317.0	1925.1	1085.4	800.3	924.2	1002.9	1044.1	1116.9	1162.1
55°	10213.3	9938.0	5513.7	1814.9	936.0	747.2	857.3	949.8	1008.7	1085.4	1107.1
57.5°	9328.4	8783.8	5102.7	1608.5	774.8	684.3	763.0	894.7	969.4	1048.0	1075.6
60°	7621.6	6770.2	4208.0	1183.7	637.1	629.2	709.9	877.0	908.4	977.3	1024.5
62.5°	7043.6	5938.4	3336.9	904.5	544.7	576.1	654.8	792.5	841.6	926.1	969.4
65°	5511.7	3944.5	2066.7	611.5	479.8	517.2	591.9	694.1	774.8	853.4	904.5
67.5°	3264.2	2155.1	1022.5	428.7	418.8	458.1	534.9	611.5	704.0	790.5	816.0
70°	1777.6	1059.9	436.5	326.4	355.9	391.3	466.0	519.1	607.6	674.5	717.7
72.5°	570.3	322.5	218.3	241.9	271.4	312.7	357.9	422.7	485.7	525.0	560.4
75°	137.7	135.7	155.3	169.1	196.6	228.1	265.4	298.9	348.0	385.4	416.9
77.5°	96.4	104.2	120.0	139.6	149.5	161.2	184.9	210.4	232.0	259.6	279.2
80°	74.7	80.6	92.4	102.3	112.0	121.9	133.7	143.5	157.3	175.0	184.9
82.5°	70.8	74.7	86.5	92.4	88.5	86.5	94.4	98.3	100.3	106.2	112.0
85°	5.9	0.0	3.9	13.8	33.4	49.2	53.1	53.1	51.1	55.0	55.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	7.8	5.9
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: P647335

CATALOG NUMBER: GALN-SA3D-835-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	6007.3	6007.3	6007.3	6007.3	6007.3	6007.3	6007.3	6007.3	6007.3	6007.3	6007.3
2.5°	5317.0	5250.2	5275.8	5307.3	5262.0	5157.8	5185.3	5173.5	5279.7	5271.9	5378.0
5°	4457.8	4353.6	4365.3	4518.7	4469.5	4522.6	4416.4	4402.7	4422.4	4432.2	4449.9
7.5°	3411.6	3397.9	3515.8	3645.6	3706.6	3643.7	3539.5	3515.8	3494.2	3451.0	3549.3
10°	2784.3	2788.3	2780.4	2878.8	2947.6	2933.8	2870.9	2863.0	2821.7	2806.0	2861.1
12.5°	2485.5	2432.4	2406.9	2375.4	2428.5	2463.9	2436.3	2416.7	2418.6	2438.3	2446.2
15°	2196.4	2163.0	2107.9	2072.5	2098.1	2080.4	2070.6	2109.9	2100.1	2096.2	2143.3
17.5°	1872.0	1899.5	1895.6	1856.3	1889.7	1875.9	1874.0	1846.4	1809.0	1781.6	1797.2
20°	1657.6	1708.7	1748.1	1750.1	1767.8	1765.8	1736.3	1651.7	1624.3	1618.3	1622.2
22.5°	1581.0	1608.5	1655.7	1722.5	1722.5	1691.0	1655.7	1557.4	1531.8	1504.3	1492.5
25°	1520.0	1573.1	1634.0	1642.0	1673.3	1643.9	1586.8	1537.7	1484.6	1447.2	1447.2
27.5°	1488.6	1547.5	1592.8	1606.5	1649.8	1626.2	1567.2	1504.3	1441.3	1439.4	1406.0
30°	1474.8	1529.8	1559.3	1592.8	1612.4	1575.1	1557.4	1490.5	1427.6	1411.8	1356.8
32.5°	1433.5	1512.1	1567.2	1559.3	1575.1	1559.3	1533.7	1478.7	1407.9	1372.5	1366.6
35°	1386.3	1464.9	1524.0	1565.2	1575.1	1541.6	1525.9	1451.2	1354.8	1337.1	1276.1
37.5°	1360.7	1407.9	1480.7	1547.5	1561.3	1543.6	1490.5	1413.8	1317.5	1297.8	1244.7
40°	1329.3	1390.2	1447.2	1502.3	1543.6	1500.3	1439.4	1364.7	1321.4	1262.4	1246.7
42.5°	1305.7	1374.5	1421.7	1482.6	1529.8	1472.8	1402.0	1350.9	1289.9	1250.6	1205.4
44°	1297.8	1360.7	1392.2	1466.9	1506.3	1463.0	1404.0	1350.9	1280.1	1244.7	1205.4
45°	1270.3	1356.8	1390.2	1457.1	1490.5	1455.1	1380.4	1327.3	1276.1	1232.9	1191.6
47.5°	1242.8	1301.7	1358.7	1411.8	1435.5	1423.7	1360.7	1295.9	1234.9	1209.3	1170.0
50°	1234.9	1293.8	1347.0	1396.1	1423.7	1400.1	1343.0	1280.1	1209.3	1168.0	1134.6
52.5°	1195.6	1268.3	1327.3	1343.0	1378.4	1364.7	1321.4	1252.6	1185.7	1150.3	1122.8
55°	1138.6	1215.2	1295.9	1315.5	1366.6	1345.0	1280.1	1215.2	1158.2	1105.1	1069.7
57.5°	1116.9	1191.6	1270.3	1295.9	1327.3	1291.9	1276.1	1207.4	1116.9	1089.4	1034.3
60°	1061.8	1156.3	1221.1	1280.1	1282.1	1272.2	1244.7	1166.0	1091.3	1040.2	1000.9
62.5°	1018.6	1107.1	1158.2	1213.3	1246.7	1219.1	1191.6	1118.8	1038.3	981.2	936.0
65°	955.7	1036.3	1079.5	1113.0	1150.3	1146.4	1099.2	1046.1	961.5	916.3	873.0
67.5°	859.3	930.1	989.1	1020.6	1044.1	1038.3	1002.9	965.5	879.0	833.7	802.3
70°	743.3	816.0	853.4	871.1	894.7	906.5	879.0	861.3	784.6	725.6	696.1
72.5°	597.7	645.0	700.0	715.7	725.6	733.4	733.4	717.7	639.1	615.4	564.3
75°	440.4	477.9	519.1	519.1	536.8	538.8	542.7	532.9	473.9	442.4	430.6
77.5°	298.9	326.4	359.9	373.6	385.4	383.4	381.5	353.9	322.5	308.7	296.9
80°	194.7	222.2	238.0	255.6	267.4	265.4	269.4	249.7	236.0	212.3	216.3
82.5°	116.0	137.7	153.4	175.0	175.0	180.9	180.9	175.0	161.2	149.5	149.5
85°	55.0	72.7	82.6	96.4	104.2	106.2	94.4	80.6	66.9	61.0	66.9
87.5°	9.9	13.8	19.7	17.7	21.6	19.7	19.7	19.7	19.7	15.7	17.7
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: P647335

CATALOG NUMBER: GALN-SA3D-835-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6007.3	6007.3	6007.3	6007.3	6007.3	6007.3	6007.3	6007.3	6007.3	6007.3
2.5°	5338.7	5437.0	5505.8	5619.9	5816.5	5973.8	6135.0	6255.0	6268.8	6304.2
5°	4514.8	4567.9	4742.9	4971.0	5132.2	5397.7	5568.8	5879.4	5995.4	6119.3
7.5°	3525.7	3612.2	3846.2	3999.6	4353.6	4685.9	5030.0	5413.4	5566.7	5584.5
10°	2973.1	3099.0	3258.3	3504.1	3696.8	4066.4	4495.1	4921.8	5092.9	5122.4
12.5°	2611.3	2772.6	2985.0	3161.9	3346.8	3669.2	4080.2	4607.2	4829.4	4963.1
15°	2263.3	2430.4	2664.4	2910.3	3073.4	3458.8	3942.6	4536.4	4825.5	4943.5
17.5°	1905.4	2060.8	2253.5	2518.9	2847.3	3279.9	3921.0	4772.4	5089.0	5226.6
20°	1598.7	1685.2	1909.3	2182.7	2593.6	3097.0	3928.8	5120.4	5584.5	5645.4
22.5°	1478.7	1498.3	1586.8	1838.6	2288.9	2910.3	4068.4	5614.0	6141.0	6341.5
25°	1386.3	1382.4	1406.0	1575.1	2066.7	2837.4	4206.0	6068.2	6758.4	6976.7
27.5°	1335.2	1295.9	1297.8	1457.1	1909.3	2719.5	4383.0	6589.3	7458.4	7554.8
30°	1309.6	1301.7	1278.2	1343.0	1738.3	2542.5	4412.5	7102.5	7871.3	8011.0
32.5°	1293.8	1217.2	1187.7	1211.3	1577.0	2349.8	4522.6	7440.7	8382.6	8321.6
35°	1215.2	1146.4	1126.7	1150.3	1463.0	2241.7	4449.9	7735.6	8766.1	8868.3
37.5°	1185.7	1124.8	1085.4	1065.7	1356.8	2151.2	4412.5	8189.9	9137.7	9383.5
40°	1158.2	1093.3	1046.1	1026.4	1274.2	2031.3	4400.7	8539.9	9566.4	9713.8
42.5°	1126.7	1085.4	1032.3	996.9	1174.0	1911.3	4265.1	8648.1	9698.1	9857.4
44°	1116.9	1054.0	999.0	987.1	1134.6	1850.4	4237.5	8746.4	9812.2	10054.0
45°	1107.1	1048.0	985.2	969.4	1120.9	1817.0	4200.2	8770.0	10000.9	10046.1
47.5°	1079.5	1042.2	981.2	938.0	1091.3	1744.1	4088.0	8636.3	9808.2	9816.1
50°	1057.9	1014.6	951.7	867.2	1052.0	1683.2	4139.2	8587.1	9344.2	9361.9
52.5°	1034.3	969.4	934.0	788.5	987.1	1632.1	4247.4	8809.3	9397.3	9393.3
55°	1006.8	936.0	849.5	721.7	879.0	1567.2	4508.9	9247.8	9888.8	9955.7
57.5°	963.5	902.6	778.7	662.7	755.0	1443.3	4424.3	8408.2	9098.4	9110.1
60°	906.5	849.5	706.0	617.5	619.4	1138.6	3956.3	6551.9	7179.2	7350.3
62.5°	851.4	820.0	645.0	552.6	527.0	906.5	3344.8	5444.8	6162.6	6304.2
65°	786.5	709.9	591.9	503.4	452.3	635.2	2369.4	4068.4	4807.8	4998.5
67.5°	704.0	621.4	521.1	442.4	387.4	424.7	1223.0	2312.4	3061.6	3173.7
70°	615.4	538.8	438.5	373.6	312.7	293.0	538.8	1103.2	1673.3	1789.4
72.5°	505.3	434.6	350.0	295.0	234.0	202.6	180.9	295.0	593.8	690.2
75°	365.7	316.6	263.5	210.4	165.2	129.7	106.2	88.5	98.3	106.2
77.5°	269.4	230.0	194.7	149.5	116.0	92.4	72.7	55.0	53.1	51.1
80°	210.4	186.8	155.3	120.0	90.4	68.8	51.1	37.3	33.4	33.4
82.5°	165.2	153.4	127.8	98.3	74.7	55.0	37.3	25.5	21.6	21.6
85°	63.0	63.0	92.4	80.6	57.0	39.3	25.5	13.8	11.8	11.8
87.5°	15.7	15.7	15.7	15.7	13.8	11.8	11.8	5.9	3.9	3.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)