

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: P647503

Luminaire Tested: **GALN-SA6D-835-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647503
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-835-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19856.9 lumens
Efficiency: N/A
Efficacy: 54.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

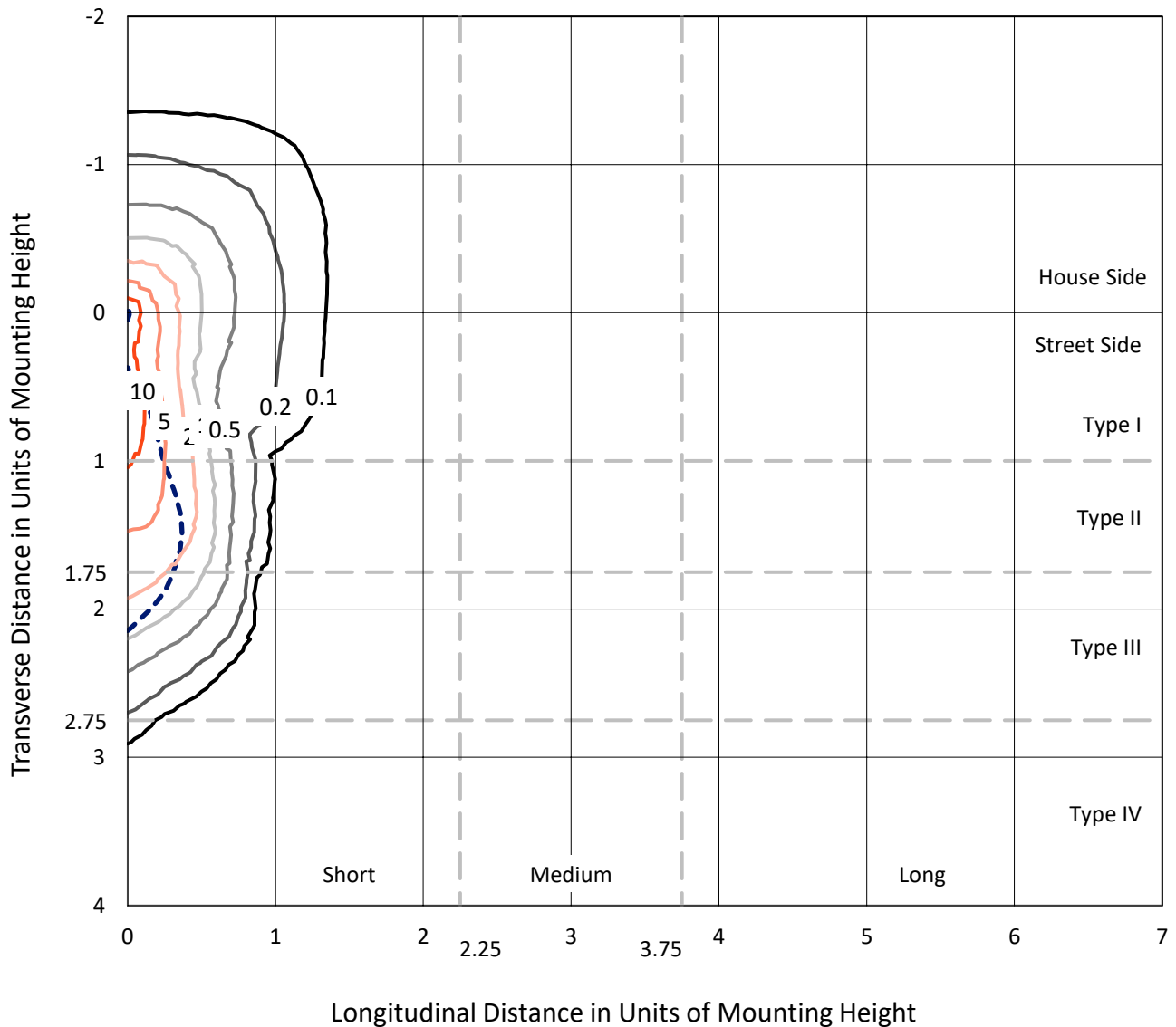
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

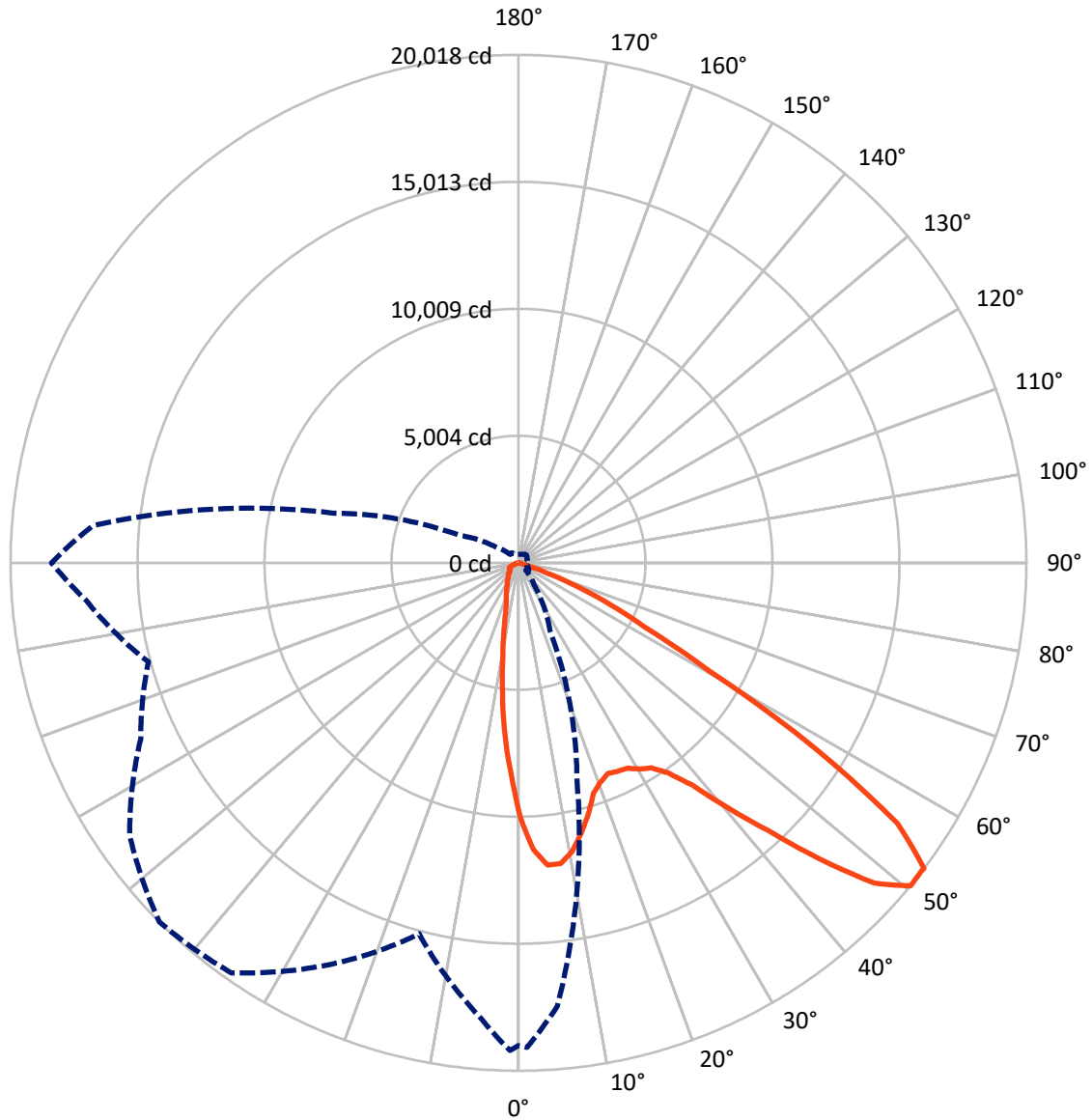
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical



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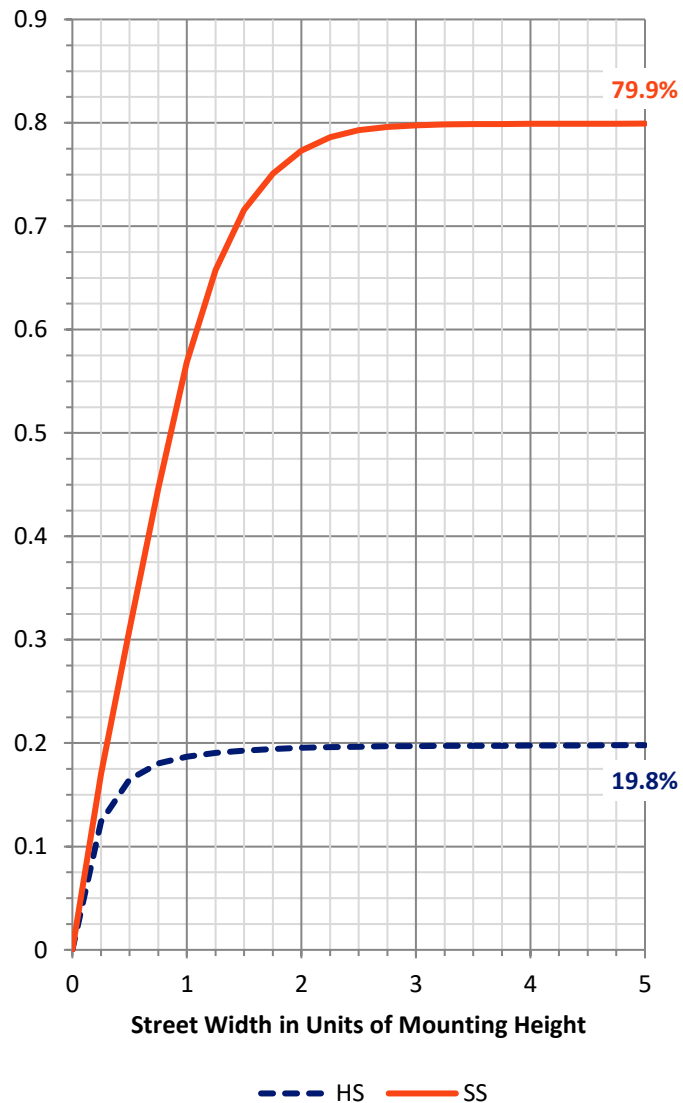
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3977.3	0.0	3977.3
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	15879.5	0.0	15879.5
	% Fixture	80.0	0.0	80.0
Total	Lumens	19856.9	0.0	19856.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	734.0	3.7
10°-20°	1458.8	7.3
20°-30°	2191.5	11.0
30°-40°	3289.4	16.6
40°-50°	4623.0	23.3
50°-60°	4986.8	25.1
60°-70°	2315.3	11.7
70°-80°	217.8	1.1
80°-90°	40.2	0.2
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°	19856.9	100.0
0°-180°	19856.9	100.0

Coefficient of Utilization



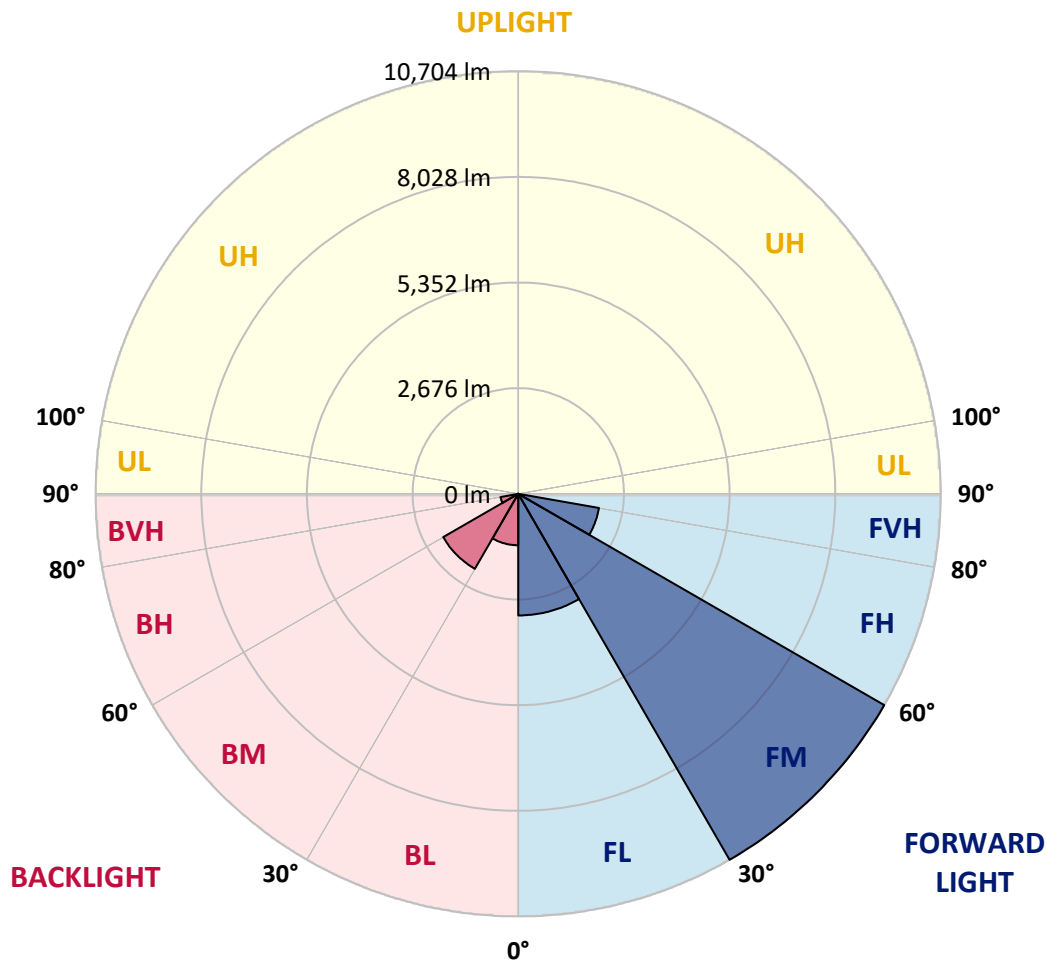
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3080.6	15.5			
FM (30°-60°)	10704.4	53.9			
FH (60°-80°)	2076.5	10.5			G2/5000
FVH (80°-90°)	18.1	0.1			G1/100
BL (0°-30°)	1303.7	6.6	B3/2500		
BM (30°-60°)	2194.9	11.1	B2/2500		
BH (60°-80°)	456.7	2.3	B1/500		G1/500
BVH (80°-90°)	22.1	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10069.9	10069.9	10069.9	10069.9	10069.9	10069.9	10069.9	10069.9	10069.9	10069.9	10069.9
2.5°	10467.8	10306.3	10101.5	9932.0	9679.9	9171.7	9033.8	8868.3	8730.4	8545.3	8285.2
5°	9518.4	9467.2	9372.6	8734.4	8273.4	7658.8	7154.5	6941.8	6662.1	6433.6	6268.1
7.5°	8793.5	8588.6	8289.2	7647.0	6910.3	6252.3	5692.9	5365.9	4995.5	4869.5	4644.9
10°	8017.4	8064.6	7623.4	6721.2	5830.8	5299.0	4952.2	4637.1	4302.2	4081.5	3762.5
12.5°	7769.2	7615.5	7276.7	6161.7	5401.4	4904.9	4483.4	4093.4	3738.8	3384.2	3077.0
15°	7930.7	7694.3	7221.5	6043.5	5070.4	4451.9	3924.0	3396.0	3069.0	2616.0	2296.9
17.5°	8509.8	8320.7	7686.4	6169.6	4901.0	4018.5	3234.5	2690.9	2190.5	1780.8	1619.2
20°	9475.0	9207.1	8411.3	6331.1	4648.9	3494.5	2623.8	1954.1	1481.4	1308.0	1217.4
22.5°	10420.6	10274.8	9270.2	6642.3	4424.3	3029.7	1969.9	1315.8	1107.1	1075.5	1016.4
25°	12221.1	11783.8	10582.1	7205.8	4251.0	2592.4	1485.3	1059.8	937.6	914.0	921.9
27.5°	13292.6	12926.2	11795.5	7580.1	4057.9	2257.5	1256.8	973.1	890.3	839.1	819.5
30°	14320.9	13895.4	12398.3	7800.6	3644.2	1902.9	1114.9	933.7	914.0	839.1	815.5
32.5°	15112.8	14695.2	13269.0	8131.6	3474.9	1674.4	918.0	728.8	677.6	669.8	740.6
35°	16326.3	15881.0	14013.6	8312.8	3344.8	1556.2	795.8	650.0	590.9	567.3	571.3
37.5°	17456.9	17153.6	14703.1	8383.7	3206.9	1520.7	713.1	583.1	531.9	516.1	512.2
40°	18402.5	17724.8	15357.1	8458.6	3147.8	1453.8	661.9	531.9	496.4	472.8	472.8
42.5°	18835.8	18146.4	16089.9	8415.3	3132.1	1347.4	661.9	488.5	461.0	437.3	433.4
45°	18741.3	18461.6	16416.8	8395.6	3132.1	1241.0	602.8	476.7	437.3	405.8	397.9
47.5°	18985.6	18619.1	16826.6	8478.3	3069.0	1166.1	508.2	500.3	413.7	374.3	366.4
50°	19028.9	19099.8	17539.7	8907.7	2931.2	1071.6	397.9	492.4	397.9	338.8	331.0
52°	19312.5	18871.3	17756.3	9136.2	2785.4	1000.7	334.9	421.6	382.2	315.2	307.3
52.5°	18922.5	19210.1	17807.5	9219.0	2801.2	953.4	323.1	413.7	374.3	315.2	295.5
55°	18485.2	18761.0	17598.8	9396.2	2568.7	748.5	252.1	299.4	338.8	275.8	263.9
57.5°	16066.2	16345.9	15294.0	8604.4	2092.0	527.9	208.8	224.6	299.4	256.1	244.3
60°	14281.5	14080.6	12835.6	7178.2	1485.3	295.5	165.4	173.4	327.0	236.4	232.5
62.5°	13052.3	12622.9	10727.9	5543.2	906.2	197.0	130.0	134.0	252.1	220.6	220.6
65°	9656.3	9175.6	7126.9	3352.7	445.2	137.9	98.5	106.4	157.6	189.1	189.1
67.5°	5511.7	5326.5	3443.3	1512.8	185.2	86.7	74.9	82.8	122.1	153.6	145.8
70°	2533.2	2273.2	1323.7	319.2	86.7	59.1	59.1	66.9	98.5	114.2	106.4
72.5°	740.6	701.3	323.1	51.2	35.5	35.5	39.4	51.2	74.9	86.7	78.8
75°	55.1	35.5	23.6	15.7	15.7	23.6	31.6	51.2	74.9	82.8	66.9
77.5°	3.9	7.9	3.9	3.9	11.8	23.6	35.5	63.0	98.5	102.4	74.9
80°	3.9	3.9	0.0	3.9	11.8	23.6	39.4	70.9	110.3	118.2	63.0
82.5°	0.0	0.0	0.0	3.9	15.7	31.6	47.3	74.9	102.4	126.1	66.9
85°	0.0	0.0	0.0	3.9	23.6	43.3	55.1	19.7	11.8	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10069.9	10069.9	10069.9	10069.9	10069.9	10069.9	10069.9	10069.9	10069.9	10069.9	10069.9
2.5°	8470.4	8368.0	8328.6	8364.0	8352.2	8340.4	8557.1	8509.8	8501.9	8572.8	8557.1
5°	6358.7	6177.5	6673.9	6473.0	6681.8	6807.9	6831.5	6843.3	6989.1	6835.4	7036.4
7.5°	4530.7	4578.0	4574.1	4707.9	4948.3	5161.1	5287.1	5188.6	5180.7	5161.1	5074.4
10°	3620.6	3537.9	3522.1	3490.6	3565.5	3746.7	3900.4	3778.2	3691.5	3809.7	3774.3
12.5°	2958.7	2844.5	2781.5	2655.4	2659.3	2781.5	2781.5	2781.5	2868.1	2935.1	2986.3
15°	2269.3	2174.7	2174.7	2048.6	2021.1	2025.0	2088.0	2095.9	2233.8	2273.2	2292.9
17.5°	1587.7	1536.5	1595.6	1646.8	1615.3	1623.2	1646.8	1654.7	1674.4	1658.6	1698.0
20°	1221.3	1213.4	1229.2	1319.8	1386.8	1426.2	1398.6	1359.2	1335.6	1280.4	1280.4
22.5°	1036.1	1051.9	1079.5	1154.4	1241.0	1264.6	1233.1	1142.6	1071.6	1063.7	1067.7
25°	921.9	937.6	981.0	1028.2	1075.5	1114.9	1083.4	1016.4	977.0	941.6	941.6
27.5°	851.0	858.9	882.5	918.0	957.4	988.9	977.0	941.6	898.3	882.5	847.0
30°	795.8	807.7	835.2	843.1	878.5	894.3	874.6	866.7	839.1	819.5	807.7
32.5°	768.3	764.3	784.0	791.8	795.8	807.7	784.0	795.8	791.8	760.4	748.5
35°	579.1	610.7	661.9	705.2	717.0	732.8	728.8	713.1	669.8	634.3	590.9
37.5°	520.1	539.7	567.3	602.8	650.0	669.8	661.9	622.5	571.3	547.6	539.7
40°	480.7	492.4	516.1	539.7	587.0	622.5	594.9	559.5	520.1	500.3	488.5
42.5°	445.2	449.1	461.0	484.6	520.1	575.2	527.9	480.7	464.9	453.0	445.2
45°	405.8	405.8	421.6	433.4	472.8	524.0	476.7	433.4	425.5	417.6	413.7
47.5°	374.3	378.2	386.1	401.8	433.4	468.9	437.3	401.8	382.2	378.2	370.4
50°	334.9	338.8	354.5	370.4	409.7	429.4	409.7	370.4	350.6	338.8	338.8
52°	303.3	315.2	331.0	362.5	390.0	421.6	397.9	354.5	331.0	319.2	311.2
52.5°	299.4	307.3	323.1	358.5	390.0	417.6	394.0	350.6	323.1	315.2	307.3
55°	267.9	279.7	307.3	350.6	386.1	417.6	386.1	346.7	307.3	287.6	279.7
57.5°	256.1	263.9	299.4	354.5	382.2	417.6	386.1	346.7	307.3	271.9	263.9
60°	244.3	260.0	299.4	342.7	378.2	421.6	390.0	342.7	299.4	256.1	256.1
62.5°	232.5	244.3	295.5	334.9	362.5	405.8	374.3	334.9	287.6	244.3	240.3
65°	200.9	220.6	260.0	279.7	311.2	350.6	319.2	291.5	252.1	216.7	212.7
67.5°	153.6	161.5	193.0	216.7	236.4	271.9	256.1	220.6	193.0	165.4	165.4
70°	106.4	114.2	137.9	149.7	169.4	189.1	177.3	149.7	130.0	114.2	110.3
72.5°	74.9	78.8	86.7	94.6	102.4	110.3	106.4	86.7	74.9	70.9	66.9
75°	59.1	66.9	70.9	66.9	63.0	59.1	59.1	51.2	43.3	39.4	39.4
77.5°	59.1	63.0	59.1	51.2	43.3	39.4	35.5	31.6	23.6	19.7	23.6
80°	51.2	51.2	51.2	43.3	39.4	35.5	31.6	27.6	23.6	19.7	19.7
82.5°	55.1	55.1	51.2	43.3	43.3	35.5	35.5	31.6	27.6	19.7	19.7
85°	0.0	0.0	0.0	7.9	19.7	35.5	35.5	31.6	27.6	23.6	23.6
87.5°	0.0	0.0	0.0	0.0	3.9	7.9	15.7	19.7	23.6	23.6	23.6
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°	10069.9	10069.9	10069.9	10069.9	10069.9	10069.9	10069.9	10069.9	10069.9	10069.9	10069.9
2.5°	8698.9	8848.6	9132.3	9416.0	9589.3	9794.2	10164.5	10361.5	10617.6	10743.6	10991.8
5°	7008.8	7363.3	7489.4	7812.5	8159.2	8505.9	9057.4	9664.2	10168.4	10515.1	10964.3
7.5°	5113.8	5196.5	5685.0	5901.7	6469.1	7099.4	7851.8	8616.2	9254.4	9821.7	10164.5
10°	3833.3	4136.7	4444.0	4857.7	5314.7	5964.7	6685.7	7528.8	8356.2	8923.5	9356.8
12.5°	3080.9	3321.2	3730.9	4176.1	4739.5	5168.9	5893.8	6729.0	7800.6	8356.2	8927.5
15°	2332.3	2639.6	3104.5	3565.5	4160.3	4613.4	5346.2	6398.1	7777.0	8541.4	9033.8
17.5°	1729.6	1938.3	2356.0	2872.0	3478.8	4117.0	5105.9	6362.7	8041.0	8951.0	9459.3
20°	1323.7	1394.7	1658.6	2119.6	2777.5	3612.8	4715.9	6516.3	8821.0	9947.8	10463.9
22.5°	1071.6	1103.1	1205.6	1524.7	2162.9	3171.5	4530.7	6622.7	9699.6	11141.5	11831.0
25°	933.7	925.8	992.8	1130.7	1690.1	2757.8	4294.3	7024.5	10775.2	12544.1	13162.6
27.5°	851.0	851.0	882.5	981.0	1402.5	2489.9	4144.6	7312.1	11858.6	13777.2	14112.1
30°	807.7	815.5	906.2	937.6	1166.1	2170.8	3896.4	7603.6	12894.8	14565.1	15026.1
32.5°	748.5	717.0	697.3	776.1	981.0	1883.2	3648.2	7725.8	13733.9	15530.4	15924.3
35°	575.2	559.5	583.1	642.1	843.1	1638.9	3372.4	7863.7	14699.1	16649.3	16728.1
37.5°	520.1	516.1	531.9	583.1	709.2	1426.2	3175.5	7828.2	15435.8	17575.1	17362.4
40°	480.7	480.7	492.4	535.8	634.3	1276.4	2970.5	7796.7	16148.9	18615.2	17992.7
42.5°	449.1	449.1	468.9	496.4	602.8	1177.9	2816.9	7753.3	16747.7	19253.4	18363.1
45°	405.8	417.6	449.1	476.7	610.7	1111.0	2702.7	7587.9	16952.7	19245.6	18185.8
47.5°	374.3	390.0	421.6	461.0	551.5	1091.3	2623.8	7442.2	16881.7	18772.8	17630.3
50°	338.8	358.5	401.8	468.9	468.9	1051.9	2541.1	7572.2	16830.5	18406.4	17098.4
52°	315.2	331.0	386.1	457.0	409.7	969.2	2489.9	7824.3	17039.3	18359.2	16862.1
52.5°	311.2	323.1	374.3	449.1	390.0	953.4	2454.5	7883.4	17106.3	18240.9	17023.6
55°	275.8	291.5	342.7	350.6	319.2	784.0	2340.2	8017.4	16775.4	18008.5	16869.9
57.5°	260.0	267.9	303.3	287.6	275.8	590.9	2013.2	7808.5	14900.0	15995.3	15695.9
60°	240.3	248.2	283.7	224.6	232.5	413.7	1512.8	6780.2	11964.9	13328.1	13867.9
62.5°	232.5	228.5	267.9	181.3	197.0	299.4	1067.7	5511.7	9219.0	10972.1	11905.8
65°	204.8	200.9	193.0	153.6	169.4	232.5	638.2	3596.9	6496.6	8301.0	8813.1
67.5°	157.6	165.4	141.8	122.1	141.8	181.3	354.5	1611.3	3407.9	4979.8	5393.5
70°	110.3	118.2	114.2	106.4	126.1	149.7	204.8	551.5	1410.4	2616.0	2883.9
72.5°	66.9	82.8	86.7	90.6	110.3	130.0	145.8	177.3	374.3	925.8	1150.4
75°	39.4	55.1	66.9	78.8	90.6	110.3	122.1	126.1	130.0	173.4	279.7
77.5°	27.6	39.4	59.1	74.9	90.6	110.3	130.0	137.9	130.0	122.1	130.0
80°	23.6	39.4	55.1	70.9	94.6	114.2	130.0	130.0	126.1	110.3	118.2
82.5°	23.6	39.4	59.1	74.9	90.6	110.3	126.1	130.0	118.2	110.3	114.2
85°	27.6	43.3	63.0	78.8	98.5	90.6	82.8	66.9	63.0	51.2	55.1
87.5°	27.6	39.4	39.4	43.3	47.3	47.3	47.3	43.3	35.5	31.6	31.6
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: P647503

CATALOG NUMBER: GALN-SA6D-835-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10069.9	10069.9	10069.9	10069.9	10069.9	10069.9	10069.9	10069.9	10069.9	10069.9
2.5°	11003.7	11318.8	11307.0	11314.9	11267.6	10948.5	10794.8	10404.8	10515.1	10467.8
5°	11425.2	11736.5	12004.3	11972.9	11610.4	11177.0	10534.8	9928.1	9762.7	9518.4
7.5°	11003.7	11752.2	12000.4	11964.9	11429.1	10873.7	9849.3	9242.6	8955.0	8793.5
10°	10333.9	11200.7	11507.9	11570.9	11208.5	10365.4	9423.8	8450.7	8297.1	8017.4
12.5°	9951.8	10582.1	10771.2	10940.6	10814.6	10184.2	9100.7	8167.1	7954.3	7769.2
15°	9640.5	10014.8	10093.6	10286.7	10361.5	10022.6	9270.2	8474.3	7950.3	7930.7
17.5°	9928.1	9774.4	9486.8	9545.9	9782.3	10026.6	9707.5	9081.1	8572.8	8509.8
20°	10404.8	9727.2	9077.2	9222.9	9419.9	10168.4	10369.3	9928.1	9636.5	9475.0
22.5°	10952.4	9809.9	8947.1	9018.0	9392.3	10487.6	11441.0	11196.7	10653.0	10420.6
25°	11964.9	10038.5	9049.5	9096.8	9609.0	10932.7	12410.2	12591.3	12268.3	12221.1
27.5°	12953.8	10629.4	9274.1	9167.8	9719.3	11366.1	12997.2	13970.3	13402.9	13292.6
30°	13458.1	11110.1	9609.0	9427.8	10176.3	11630.1	13351.7	14868.5	14372.1	14320.9
32.5°	14230.3	11547.4	9869.0	9636.5	10432.4	11957.0	14013.6	15849.5	15368.9	15112.8
35°	14553.4	12024.1	10440.3	10168.4	11165.2	12414.1	14352.4	16724.2	16574.5	16326.3
37.5°	15175.8	12536.2	11114.0	11098.2	12051.6	13009.0	14963.1	17913.9	17886.4	17456.9
40°	15227.1	13095.7	12177.7	12674.1	13422.7	14045.1	15498.9	18244.8	18694.0	18402.5
42.5°	15305.8	14076.6	14017.6	14427.2	15069.5	14935.5	15518.6	18323.7	19009.2	18835.8
45°	15341.3	15057.6	15888.9	16645.3	16913.3	16101.7	15333.4	18174.0	19174.7	18741.3
47.5°	15057.6	15900.8	17401.8	18863.4	18942.2	16818.7	15254.6	18020.3	19273.2	18985.6
50°	15097.0	16428.7	18709.8	20017.8	19730.1	17453.0	15132.5	17925.8	19221.9	19028.9
52°	15002.5	16440.5	18895.0	19994.1	19793.2	17102.4	14923.7	17563.3	19174.7	19312.5
52.5°	15108.8	16369.6	18701.9	20009.9	19749.8	17275.7	14896.1	17764.2	19202.2	18922.5
55°	14742.5	15526.5	17571.1	18126.7	18087.3	15680.1	14049.1	17098.4	18481.2	18485.2
57.5°	13324.2	13458.1	13781.2	13769.4	13588.1	12327.4	12016.2	15723.4	16476.0	16066.2
60°	11740.4	9853.3	8982.6	8628.0	8427.0	8222.2	10629.4	14383.9	14454.9	14281.5
62.5°	10144.8	6831.5	5673.2	5574.7	5622.0	6370.6	10274.8	13852.1	13426.6	13052.3
65°	8186.7	4979.8	4120.9	3991.0	4451.9	5259.6	8316.8	10621.5	9967.5	9656.3
67.5°	5141.3	3632.4	2785.4	2541.1	3096.6	3620.6	5464.4	6673.9	5941.1	5511.7
70°	3049.3	2029.0	1260.7	1130.7	1272.5	1930.5	3061.1	3329.1	2753.9	2533.2
72.5°	1201.6	744.6	350.6	299.4	311.2	677.6	1126.7	1099.2	831.3	740.6
75°	323.1	224.6	122.1	98.5	82.8	126.1	181.3	118.2	43.3	55.1
77.5°	149.7	134.0	106.4	82.8	63.0	47.3	23.6	7.9	7.9	3.9
80°	130.0	114.2	98.5	82.8	63.0	39.4	19.7	3.9	3.9	3.9
82.5°	122.1	106.4	90.6	74.9	59.1	39.4	19.7	3.9	0.0	0.0
85°	51.2	66.9	74.9	70.9	63.0	39.4	19.7	3.9	0.0	0.0
87.5°	27.6	23.6	19.7	15.7	11.8	7.9	7.9	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

(END OF REPORT)