

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: P459426

Luminaire Tested: **GALN-SA8D-735-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459426
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8D-735-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41791 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

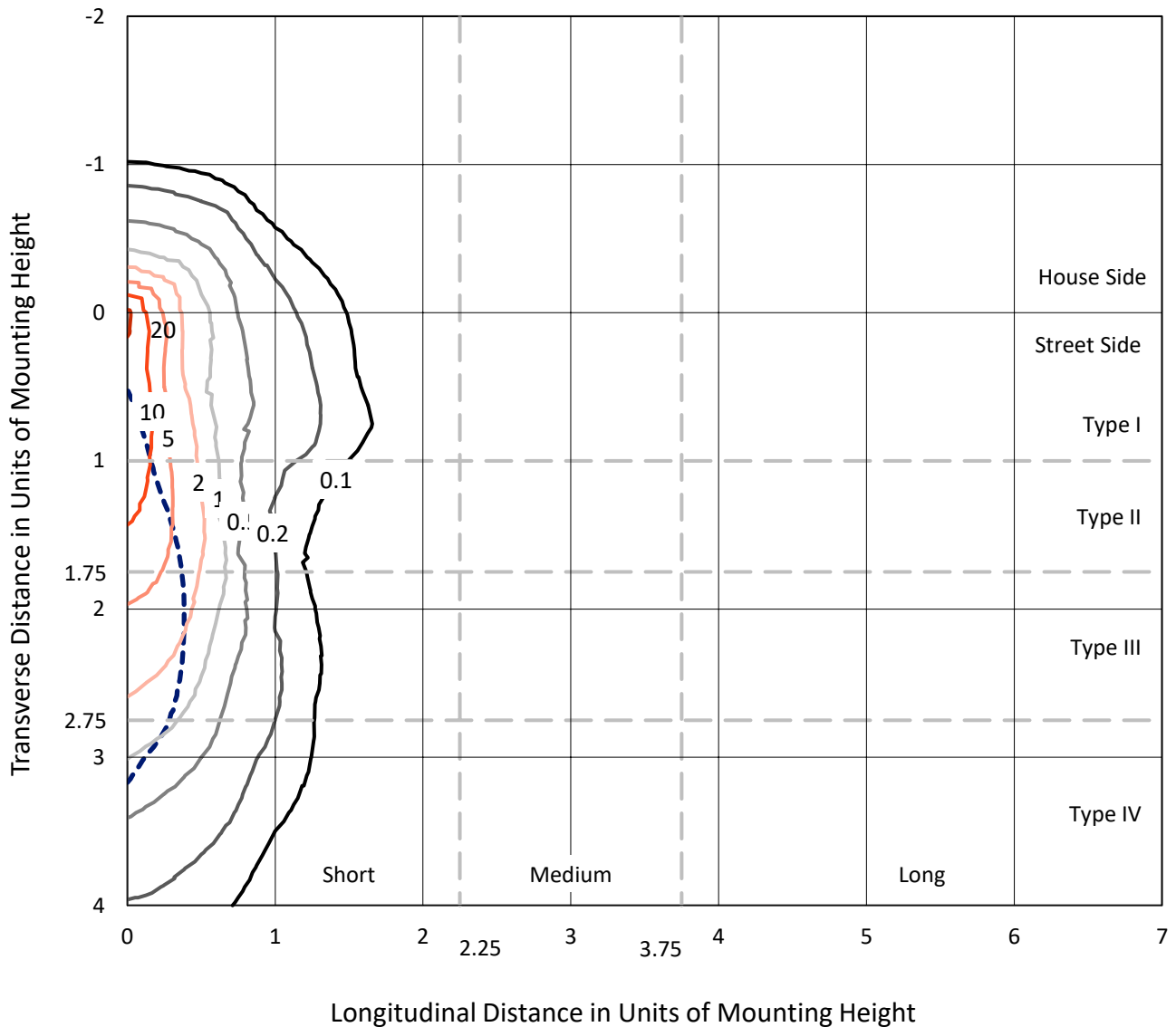
Input Watts (W): 493
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

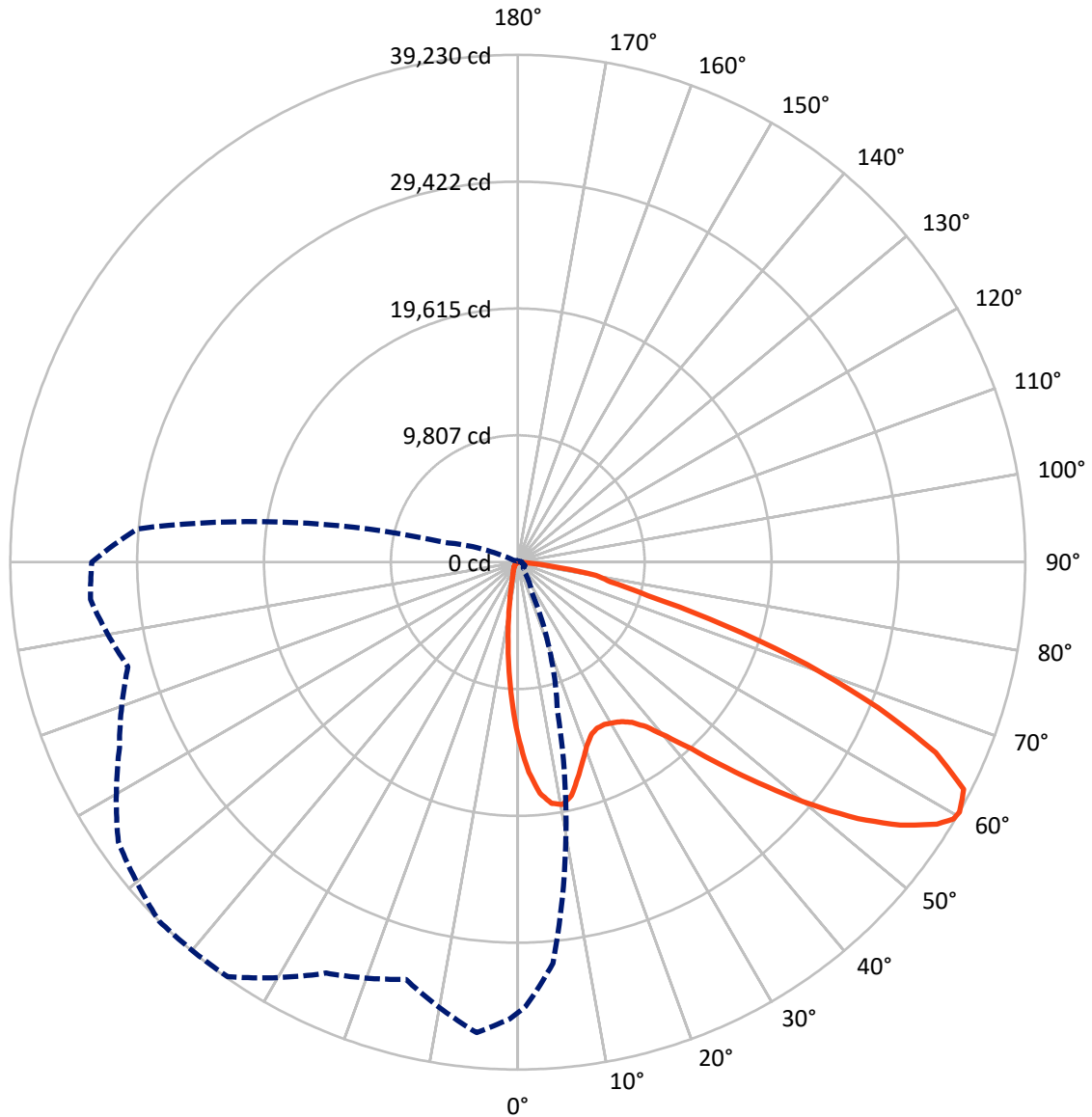
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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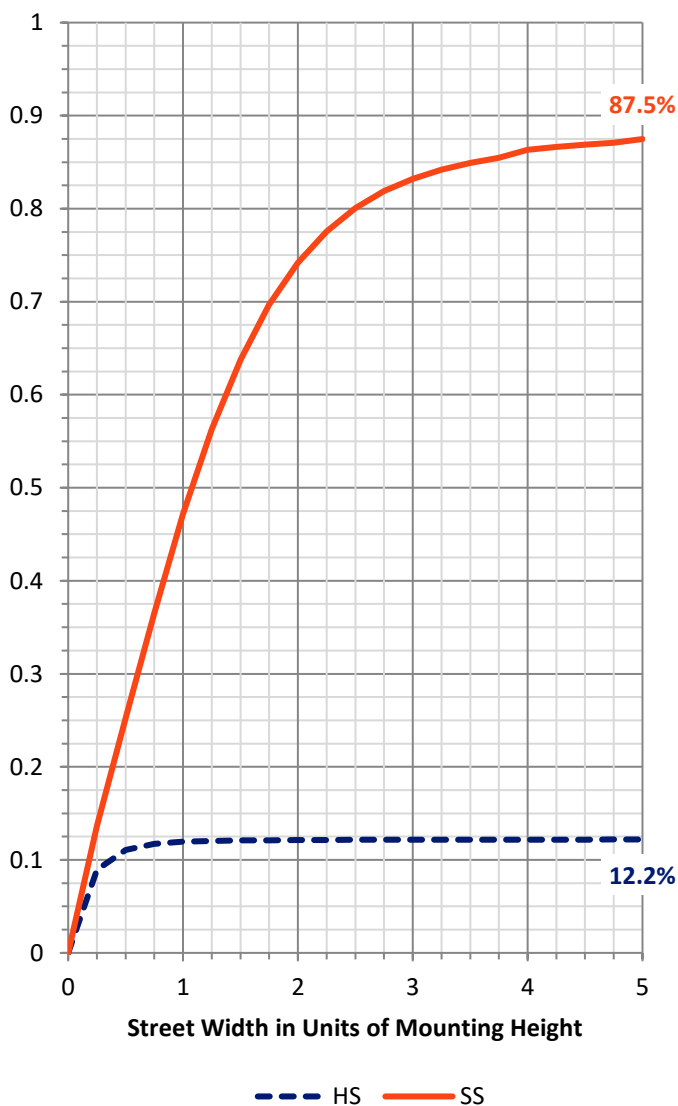
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5154.5	0.0	5154.5
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	36636.5	0.0	36636.5
	% Fixture	87.7	0.0	87.7
Total	Lumens	41791.0	0.0	41791.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1027.3	2.5
10°-20°	2040.3	4.9
20°-30°	2991.6	7.2
30°-40°	4449.0	10.6
40°-50°	6474.7	15.5
50°-60°	9337.1	22.3
60°-70°	10269.8	24.6
70°-80°	4600.0	11.0
80°-90°	601.1	1.4
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°	41791.0	100.0
0°-180°	41791.0	100.0

Coefficient of Utilization



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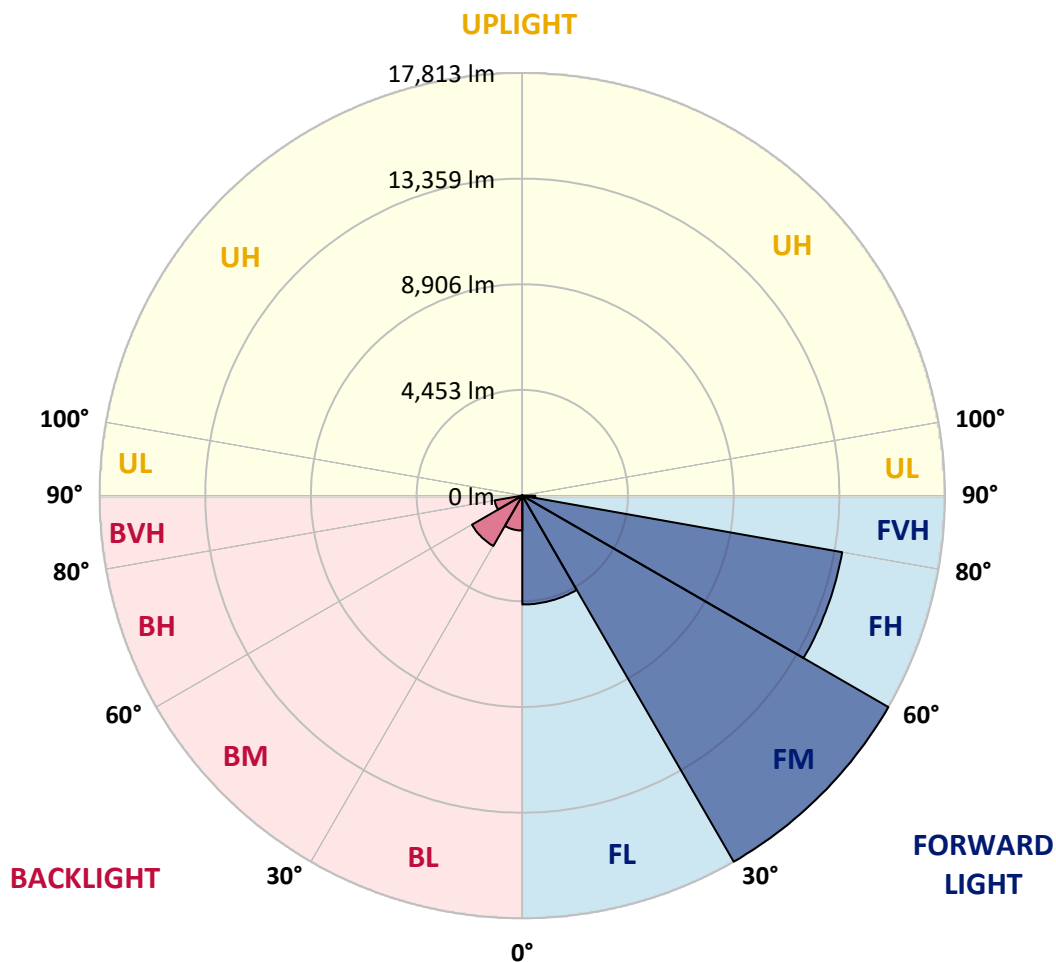
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4586.4	11.0			
FM	(30°-60°)	17812.6	42.6			
FH	(60°-80°)	13687.8	32.8			G5
FVH	(80°-90°)	549.7	1.3			G4/750
BL	(0°-30°)	1472.8	3.5	B3/2500		
BM	(30°-60°)	2448.3	5.9	B2/2500		
BH	(60°-80°)	1182.1	2.8	B3/2500		G3/2500
BVH	(80°-90°)	51.4	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13812.5	13812.5	13812.5	13812.5	13812.5	13812.5	13812.5	13812.5	13812.5	13812.5	13812.5
2.5°	15184.9	15118.2	14965.7	14501.9	14098.4	13571.1	13037.4	12618.1	12360.7	11887.4	11671.4
5°	14711.5	14743.3	14301.7	13348.7	12287.7	11563.4	10772.4	10143.4	9450.8	9012.4	8551.8
7.5°	13475.8	13412.3	12932.6	11604.7	10314.9	9266.6	8265.9	7452.7	6941.2	6531.4	6188.3
10°	12417.9	12370.3	11757.2	10048.1	8663.0	7878.3	7201.7	6490.1	5940.5	5340.1	4860.4
12.5°	11754.0	11646.0	10940.7	9155.4	8027.7	7297.0	6560.0	5819.8	5060.6	4453.8	3872.5
15°	11531.6	11376.0	10591.3	8847.3	7621.0	6693.4	5769.0	4917.6	4044.0	3373.7	2935.3
17.5°	11935.1	11677.7	10842.3	8793.3	7135.0	5905.6	4768.3	3659.6	2751.1	2239.6	1969.6
20°	12859.5	12564.1	11477.6	8739.2	6594.9	5022.4	3624.7	2585.9	1902.9	1623.3	1474.0
22.5°	14231.9	13825.2	12417.9	8825.0	6096.2	4161.5	2617.6	1826.6	1512.1	1337.4	1232.6
25°	15880.6	15540.7	13609.2	9130.0	5702.3	3484.9	2023.6	1493.1	1273.9	1165.9	1086.4
27.5°	17688.2	17144.9	15149.9	9495.3	5343.3	2960.7	1775.8	1334.2	1134.1	1035.6	994.3
30°	18974.7	18552.2	16439.7	9749.5	4895.4	2566.8	1623.3	1315.2	1137.3	1019.7	943.5
32.5°	20245.4	19705.4	17519.8	9867.0	4568.2	2293.6	1404.1	1146.8	997.5	937.1	860.9
35°	21605.1	21039.6	18596.7	9803.5	4323.6	2112.5	1273.9	1022.9	854.5	752.9	676.6
37.5°	22980.6	22383.4	19667.3	9574.7	4171.1	2039.5	1172.2	972.1	806.9	702.1	619.5
40°	24613.5	23816.1	20671.1	9387.3	4012.2	2001.4	1105.5	940.3	772.0	660.8	578.2
42.5°	25947.7	25188.5	21621.0	9288.8	3904.2	1912.4	1105.5	914.9	749.7	625.8	540.0
45°	27212.1	26424.2	22647.1	9368.2	3859.8	1801.2	1118.2	911.7	733.8	600.4	514.6
47.5°	28269.9	27586.9	23701.8	9666.9	3802.6	1680.5	1051.5	956.2	724.3	578.2	489.2
50°	29518.4	28857.6	25096.4	10270.4	3700.9	1559.8	968.9	1029.3	721.1	559.1	467.0
52.5°	31278.3	30563.5	27021.5	10956.6	3538.9	1375.5	892.7	1019.7	708.4	527.3	444.7
55°	33429.0	32850.8	29251.5	11779.4	3316.5	1169.0	772.0	905.4	670.3	473.3	406.6
57.5°	34807.7	34315.3	30922.5	12135.2	2976.6	956.2	679.8	759.2	613.1	422.5	362.1
59°	34969.7	34525.0	31272.0	12017.7	2754.2	873.6	635.4	651.2	597.2	393.9	336.7
60°	34833.1	34372.5	31132.2	11788.9	2547.8	816.4	597.2	578.2	600.4	378.0	317.7
62.5°	33956.3	33168.5	29775.7	10629.4	2226.9	749.7	530.5	473.3	530.5	339.9	282.7
65°	32263.1	31081.4	27091.4	8996.6	2099.8	711.6	451.1	397.1	403.4	298.6	244.6
67.5°	29305.5	27815.7	23517.5	7309.7	2045.8	714.8	381.2	355.8	311.3	254.1	216.0
70°	24629.4	23142.6	18869.9	6013.6	2020.4	714.8	324.0	305.0	260.5	212.8	187.4
72.5°	17453.1	15852.0	12729.2	4723.8	1820.3	711.6	276.4	276.4	212.8	177.9	152.5
75°	9860.6	9873.3	8002.2	3341.9	1512.1	587.7	222.4	219.2	155.7	136.6	114.4
77.5°	5746.7	5645.1	5394.1	1435.9	702.1	266.8	155.7	133.4	108.0	98.5	82.6
80°	2954.4	2430.2	2366.7	521.0	251.0	168.4	108.0	76.2	69.9	63.5	57.2
82.5°	873.6	876.8	781.5	209.7	139.8	111.2	54.0	41.3	38.1	34.9	34.9
85°	60.4	38.1	44.5	63.5	85.8	44.5	3.2	9.5	9.5	12.7	15.9
87.5°	6.4	3.2	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°	13812.5	13812.5	13812.5	13812.5	13812.5	13812.5	13812.5	13812.5	13812.5	13812.5	13812.5
2.5°	11433.1	11572.9	11312.4	11318.8	11102.8	11172.6	10918.5	11001.1	10851.8	10966.2	11302.9
5°	8602.6	8634.4	8424.7	8358.0	8389.8	8520.1	8570.9	8339.0	8437.5	8243.7	8231.0
7.5°	6061.2	6099.4	5978.6	5962.8	6191.5	6137.5	6236.0	5997.7	5772.2	5870.6	5689.6
10°	4707.9	4549.1	4301.3	4231.4	4187.0	4215.6	4215.6	3999.5	3967.8	3882.0	4012.2
12.5°	3716.8	3523.0	3287.9	2970.3	2890.8	2884.5	2767.0	2576.3	2516.0	2442.9	2550.9
15°	2700.2	2620.8	2423.9	2246.0	2064.9	2029.9	1839.3	1683.7	1477.2	1448.6	1439.1
17.5°	1899.7	1782.2	1779.0	1677.3	1572.5	1502.6	1324.7	1146.8	1067.4	1057.9	1057.9
20°	1423.2	1381.9	1315.2	1302.5	1270.7	1191.3	1032.4	937.1	899.0	902.2	914.9
22.5°	1197.6	1169.0	1108.7	1080.1	1067.4	997.5	880.0	816.4	797.4	797.4	800.5
25°	1070.6	1045.2	978.4	934.0	918.1	867.3	775.1	727.5	711.6	711.6	711.6
27.5°	975.3	943.5	873.6	835.5	806.9	749.7	692.5	644.9	629.0	629.0	632.2
30°	908.6	873.6	810.1	759.2	714.8	663.9	616.3	575.0	555.9	552.8	555.9
32.5°	819.6	787.8	724.3	692.5	641.7	581.3	543.2	505.1	486.0	489.2	486.0
35°	638.5	629.0	584.5	594.1	565.5	514.6	479.7	438.4	416.2	413.0	419.3
37.5°	581.3	543.2	492.4	495.6	486.0	467.0	409.8	365.3	349.4	349.4	352.6
40°	536.9	498.8	441.6	413.0	416.2	416.2	355.8	308.1	292.3	289.1	295.4
42.5°	498.8	460.6	397.1	349.4	336.7	352.6	301.8	254.1	238.3	231.9	238.3
45°	473.3	432.0	359.0	305.0	266.8	285.9	247.8	209.7	190.6	190.6	187.4
47.5°	447.9	409.8	330.4	263.7	222.4	212.8	203.3	168.4	149.3	146.1	149.3
50°	425.7	387.6	298.6	228.7	187.4	165.2	165.2	133.4	120.7	114.4	117.5
52.5°	403.4	362.1	270.0	203.3	162.0	133.4	117.5	108.0	98.5	95.3	98.5
55°	371.7	330.4	241.4	174.7	139.8	111.2	92.1	88.9	82.6	76.2	82.6
57.5°	333.6	295.4	212.8	149.3	111.2	85.8	76.2	73.1	66.7	63.5	63.5
59°	311.3	276.4	197.0	130.2	98.5	76.2	69.9	66.7	60.4	54.0	57.2
60°	298.6	270.0	187.4	120.7	88.9	69.9	63.5	60.4	54.0	50.8	54.0
62.5°	263.7	241.4	165.2	98.5	69.9	50.8	44.5	47.7	44.5	41.3	44.5
65°	231.9	212.8	139.8	76.2	54.0	34.9	31.8	41.3	38.1	34.9	38.1
67.5°	206.5	184.3	117.5	57.2	38.1	19.1	22.2	34.9	34.9	31.8	34.9
70°	177.9	158.8	95.3	41.3	19.1	9.5	15.9	25.4	31.8	28.6	31.8
72.5°	146.1	123.9	73.1	28.6	9.5	0.0	9.5	22.2	31.8	28.6	31.8
75°	114.4	92.1	54.0	15.9	0.0	0.0	3.2	19.1	31.8	28.6	31.8
77.5°	82.6	66.7	31.8	3.2	0.0	0.0	3.2	19.1	31.8	28.6	31.8
80°	54.0	47.7	12.7	0.0	0.0	0.0	3.2	19.1	31.8	31.8	34.9
82.5°	34.9	25.4	0.0	0.0	0.0	0.0	6.4	25.4	34.9	38.1	38.1
85°	15.9	0.0	0.0	0.0	0.0	0.0	12.7	31.8	41.3	41.3	41.3
87.5°	0.0	0.0	0.0	0.0	0.0	6.4	22.2	38.1	47.7	47.7	47.7
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°	13812.5	13812.5	13812.5	13812.5	13812.5	13812.5	13812.5	13812.5	13812.5	13812.5	13812.5
2.5°	11360.1	11560.2	11842.9	12278.2	12630.8	13186.7	13612.4	14193.7	14781.4	14959.3	15235.7
5°	8361.2	8618.5	9260.2	9844.8	10213.3	11388.7	12132.0	13304.2	14355.7	14860.9	15410.4
7.5°	5807.1	6112.1	6601.3	7417.7	8192.8	9149.0	10349.9	11690.5	13231.2	13952.3	14727.4
10°	4075.8	4457.0	5146.3	5816.6	6791.9	7700.4	8885.4	10365.7	12065.3	12916.7	13888.8
12.5°	2573.2	2913.1	3824.8	4577.7	5794.4	6849.1	7941.9	9282.5	11252.1	12125.7	13145.4
15°	1470.8	1756.7	2182.4	3148.2	4498.3	5892.9	7255.7	8812.3	10835.9	11912.8	13015.2
17.5°	1096.0	1172.2	1362.8	1909.2	3138.6	4768.3	6623.5	8669.4	11118.6	12383.0	13641.0
20°	921.3	972.1	1061.0	1277.1	2001.4	3672.3	6007.2	8694.8	12033.5	13621.9	14816.4
22.5°	826.0	857.7	930.8	1070.6	1366.0	2674.8	5286.1	8844.1	13142.2	15143.6	16522.3
25°	724.3	765.6	829.1	949.8	1137.3	1855.2	4574.5	9177.6	14695.7	17075.0	18371.2
27.5°	644.9	683.0	746.5	857.7	997.5	1416.8	3745.4	9463.5	16334.9	19019.2	20080.3
30°	565.5	603.6	667.1	756.1	883.1	1146.8	2852.7	9631.9	17926.4	20477.4	21293.8
32.5°	498.8	530.5	590.9	670.3	775.1	972.1	2249.1	9457.2	19143.1	21802.1	22348.5
35°	432.0	470.2	521.0	594.1	686.2	829.1	1871.1	8853.6	20188.3	23164.9	23361.8
37.5°	362.1	406.6	460.6	527.3	600.4	762.4	1502.6	8186.5	21306.5	24864.4	24540.4
40°	305.0	346.3	397.1	470.2	536.9	698.9	1156.3	7474.9	22513.6	26459.2	25827.0
42.5°	247.8	292.3	352.6	419.3	530.5	609.9	895.8	6737.9	23596.9	27847.4	26989.7
45°	197.0	235.1	298.6	384.4	527.3	524.2	692.5	6010.4	24413.3	28838.6	27856.9
47.5°	155.7	187.4	251.0	374.9	486.0	444.7	555.9	5559.3	25271.1	29731.2	28520.9
50°	123.9	155.7	216.0	390.7	425.7	381.2	467.0	5632.4	26100.2	30185.5	28794.1
52.5°	104.8	136.6	187.4	308.1	327.2	333.6	409.8	5969.1	27170.8	30671.6	29337.3
55°	92.1	120.7	158.8	216.0	254.1	298.6	374.9	6213.7	28603.5	31713.5	30535.0
57.5°	73.1	104.8	143.0	184.3	209.7	260.5	346.3	6232.8	29899.6	33050.9	32126.5
59°	66.7	95.3	133.4	174.7	187.4	235.1	327.2	6070.8	29947.3	33251.1	32857.2
60°	60.4	92.1	127.1	162.0	177.9	222.4	311.3	5883.3	29515.2	32933.4	33158.9
62.5°	50.8	79.4	111.2	130.2	152.5	184.3	270.0	5203.5	27421.7	31494.3	32599.8
65°	44.5	69.9	95.3	108.0	127.1	158.8	238.3	4164.7	25109.1	29543.8	30998.8
67.5°	41.3	63.5	82.6	92.1	111.2	146.1	212.8	2941.7	22113.4	27069.1	28594.0
70°	38.1	60.4	73.1	85.8	98.5	123.9	181.1	1715.4	17033.8	22729.7	24340.3
72.5°	38.1	57.2	63.5	73.1	85.8	111.2	168.4	927.6	11646.0	17338.7	19419.5
75°	38.1	54.0	57.2	63.5	76.2	101.7	149.3	486.0	7528.9	12046.2	14867.2
77.5°	38.1	50.8	57.2	60.4	73.1	88.9	130.2	305.0	5016.1	8437.5	10048.1
80°	41.3	50.8	54.0	60.4	69.9	82.6	108.0	203.3	2948.0	5076.5	6115.2
82.5°	44.5	50.8	57.2	63.5	73.1	79.4	95.3	127.1	1359.7	3357.8	3799.4
85°	47.7	54.0	60.4	66.7	76.2	79.4	88.9	92.1	222.4	1515.3	2049.0
87.5°	50.8	57.2	63.5	69.9	82.6	82.6	82.6	82.6	76.2	162.0	413.0
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: P459426

CATALOG NUMBER: GALN-SA8D-735-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	13812.5	13812.5	13812.5	13812.5	13812.5	13812.5	13812.5	13812.5	13812.5	13812.5
2.5°	15585.2	15944.1	16195.1	16258.6	16077.5	15995.0	15766.2	15410.4	15194.4	15184.9
5°	16423.8	17265.7	17850.2	17948.7	17599.2	17008.3	16306.3	15400.9	14870.4	14711.5
7.5°	16280.9	17754.9	18695.2	18831.8	18244.1	17116.3	15756.7	14298.6	13720.4	13475.8
10°	15693.2	17491.2	18835.0	19051.0	18266.3	16678.0	14949.8	13323.3	12605.4	12417.9
12.5°	15191.2	17008.3	18202.8	18501.4	17907.4	16322.2	14466.9	12697.5	11928.7	11754.0
15°	14972.0	16436.5	17167.2	17319.7	17221.2	16099.8	14416.1	12602.2	11722.2	11531.6
17.5°	15191.2	15950.5	16042.6	16198.3	16417.5	16077.5	14905.3	13120.0	12170.1	11935.1
20°	15766.2	15528.0	15146.8	15213.5	15715.4	16169.7	15775.8	14266.8	13110.5	12859.5
22.5°	16744.7	15423.1	14559.1	14501.9	15137.2	16477.8	17052.8	15820.2	14479.6	14231.9
25°	17945.5	15686.8	14343.0	14219.1	14911.7	16928.9	18441.1	17723.1	16258.6	15880.6
27.5°	19254.3	16233.2	14343.0	14222.3	14892.6	17329.2	19629.2	19406.8	18101.1	17688.2
30°	19972.2	16684.3	14549.5	14412.9	15127.7	17561.1	20264.5	20903.0	19486.2	18974.7
32.5°	20614.0	17310.1	14953.0	14695.7	15620.1	17904.2	20833.1	22173.7	20588.5	20245.4
35°	21204.8	17980.4	15508.9	15210.3	16268.2	18374.3	21462.1	23508.0	22122.9	21605.1
37.5°	21856.1	18758.7	16376.2	16122.0	17351.4	19289.2	22208.7	25261.5	23631.9	22980.6
40°	22564.5	19660.9	17802.5	17694.5	19073.2	20324.9	23152.2	27132.6	25353.7	24613.5
42.5°	23285.6	20699.7	19549.7	19727.6	21023.8	21776.6	24121.1	28571.7	26764.1	25947.7
45°	23940.0	22027.6	21821.1	22701.1	23298.3	23193.5	24839.0	29585.1	27993.5	27212.1
47.5°	24766.0	23962.2	24569.0	25925.5	25941.4	24734.2	25382.3	30414.2	29051.4	28269.9
50°	25690.4	26246.3	28117.4	29499.3	29127.6	26249.5	26017.6	31395.9	30144.2	29518.4
52.5°	26761.0	28803.6	31395.9	32930.2	32063.0	27901.4	27075.5	32456.9	31878.7	31278.3
55°	28006.3	30547.7	34664.7	35887.8	35014.2	29953.6	28682.9	33896.0	33838.8	33429.0
57.5°	29413.6	32390.2	36558.1	38213.2	37434.9	32361.6	30928.9	35252.4	35036.4	34807.7
59°	30525.4	33336.8	37393.6	39109.0	38638.8	34048.4	32437.8	36097.4	35312.8	34969.7
60°	31198.9	33978.6	37701.7	39229.7	39121.7	35052.3	33394.0	36510.4	35309.6	34833.1
62.5°	33197.1	35099.9	37584.2	38692.9	39115.4	36977.4	36199.1	36964.7	34655.2	33956.3
65°	33908.7	34728.3	35636.8	35500.2	35862.4	36878.9	37990.8	36465.9	33257.4	32263.1
67.5°	32523.6	30652.5	30973.3	30061.6	29883.7	32787.3	37263.3	34026.2	30522.2	29305.5
70°	27415.4	23482.6	23320.5	23739.9	22589.9	26544.9	33460.7	29327.8	26008.1	24629.4
72.5°	21579.7	16595.4	15229.4	16773.3	16738.3	20251.8	27796.6	20810.9	17570.6	17453.1
75°	16970.2	11553.9	10140.2	10391.2	10874.0	14660.7	22138.8	13215.3	10820.0	9860.6
77.5°	11391.8	8186.5	7636.9	7328.8	7849.8	9412.7	14006.3	7166.8	6067.6	5746.7
80°	6566.3	5946.9	6753.8	6131.1	6410.7	5931.0	6966.6	3287.9	2728.8	2954.4
82.5°	4272.7	3386.4	3608.8	2681.2	3666.0	3697.7	2236.4	972.1	822.8	873.6
85°	2671.6	1588.4	892.7	635.4	1264.3	2325.4	698.9	60.4	69.9	60.4
87.5°	692.5	263.7	111.2	165.2	203.3	181.1	162.0	9.5	3.2	6.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)