

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: P533461

Luminaire Tested: **GALN-SA8D-827-U-SLL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533461  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-827-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25387 lumens  
Efficiency: N/A  
Efficacy: 51.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G2

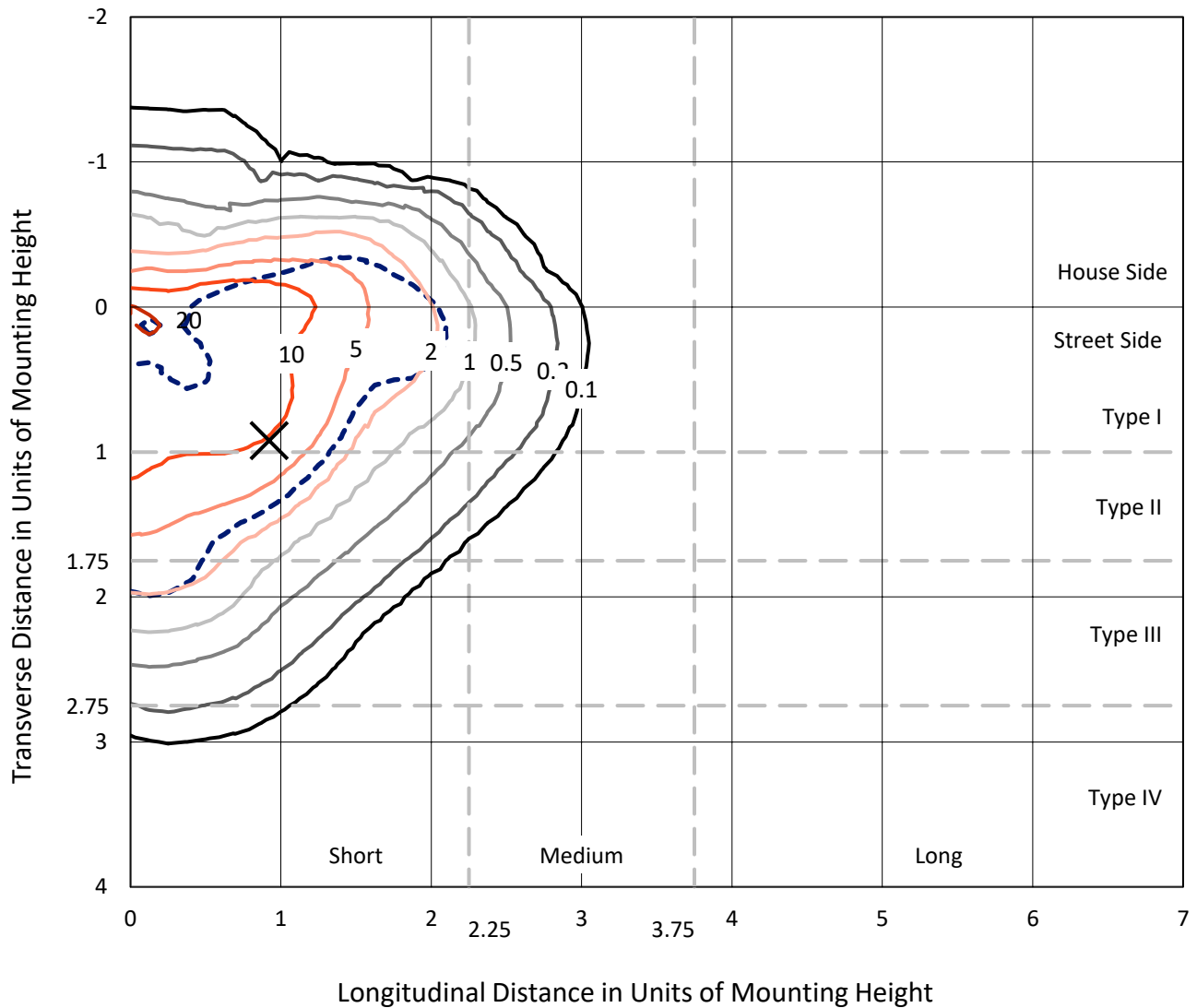
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

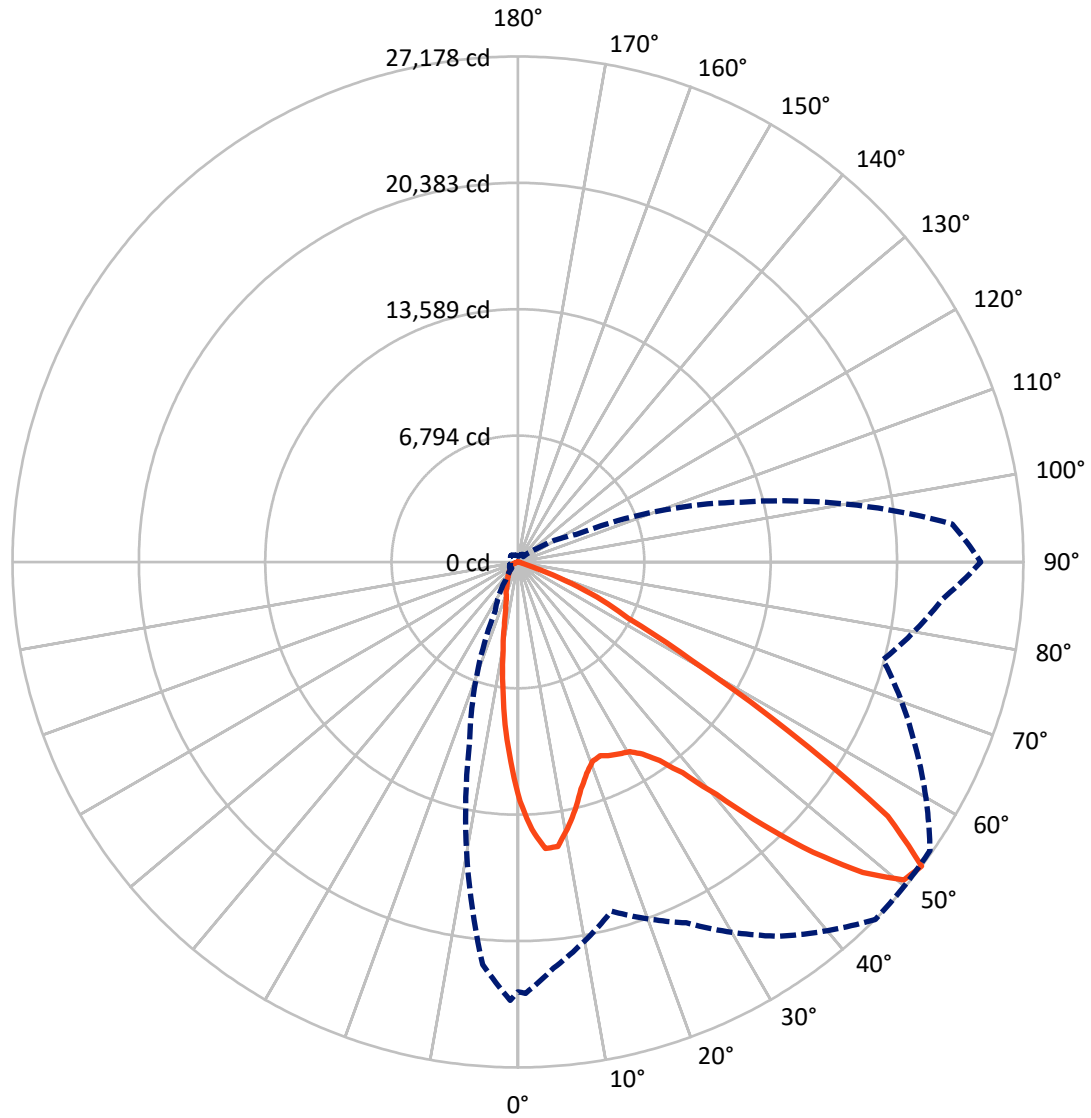
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5152.3	0.0	5152.3
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	20234.7	0.0	20234.7
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	25387.0	0.0	25387.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	938.8	3.7
10°-20°	1852.1	7.3
20°-30°	2818.7	11.1
30°-40°	4212.8	16.6
40°-50°	5999.4	23.6
50°-60°	6449.2	25.4
60°-70°	2857.8	11.3
70°-80°	231.2	0.9
80°-90°	26.9	0.1
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°	25387.0	100.0
0°-180°	25387.0	100.0

**Coefficient of Utilization**



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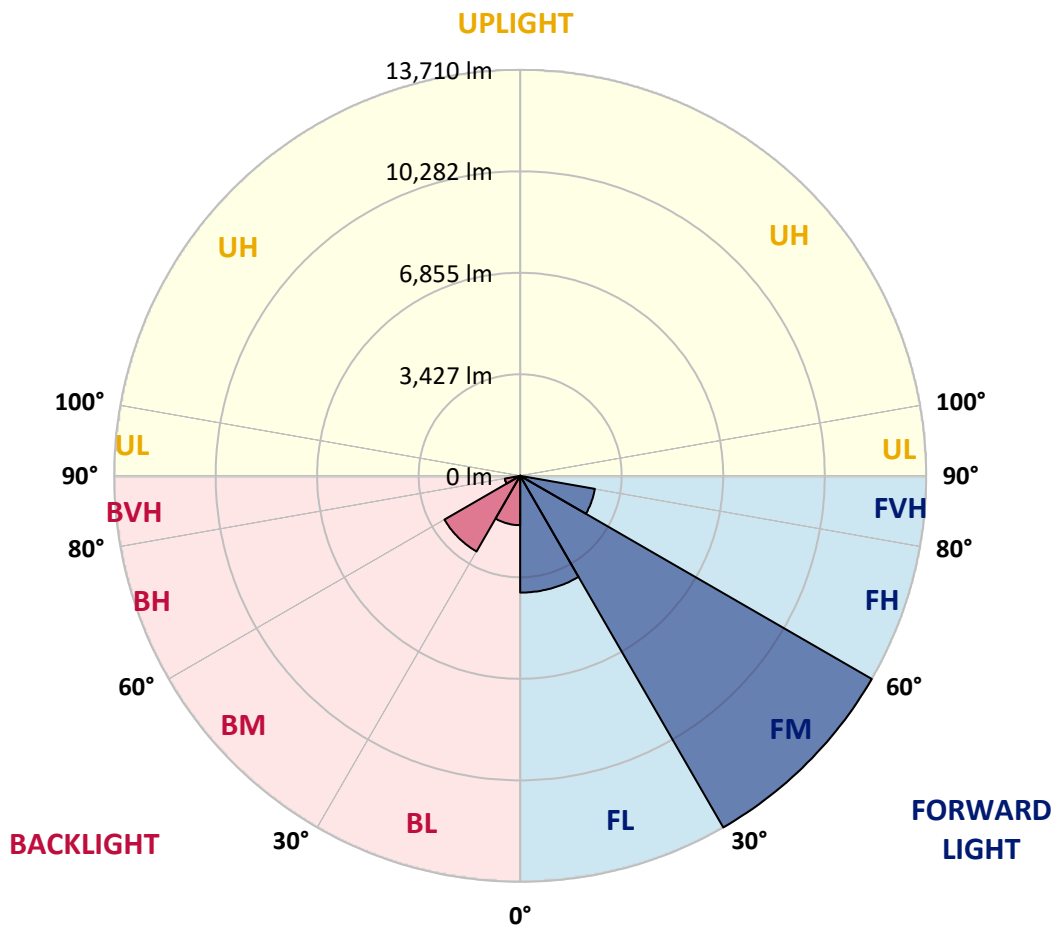
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3943.1	15.5			
FM (30°-60°)	13709.8	54.0			
FH (60°-80°)	2561.9	10.1			G2/5000
FVH (80°-90°)	20.0	0.1			G1/100
BL (0°-30°)	1666.5	6.6	B3/2500		
BM (30°-60°)	2951.7	11.6	B3/5000		
BH (60°-80°)	527.2	2.1	B2/1000		G2/1000
BVH (80°-90°)	7.0	0.0			G0/10
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°	12872.4	12872.4	12872.4	12872.4	12872.4	12872.4	12872.4	12872.4	12872.4	12872.4	12872.4
2.5°	13621.4	13661.3	13881.0	14155.6	14300.4	14630.0	14400.3	14460.2	14335.4	13896.0	13551.5
5°	13206.9	13201.9	13481.6	14160.6	14804.7	15458.9	15478.8	15129.3	14515.1	13841.1	12877.4
7.5°	11958.6	12153.4	12443.0	13526.5	14719.9	15209.2	15443.9	15034.4	14090.7	13127.0	12083.5
10°	11014.9	11114.8	11604.1	12912.3	13786.1	14440.2	14585.0	14350.4	13626.4	12423.0	11254.6
12.5°	10470.7	10520.6	11094.8	12193.3	13117.1	13601.4	13671.3	13781.1	13261.9	12133.4	10730.3
15°	10475.7	10515.6	11289.6	12208.3	12572.8	12443.0	12672.7	12667.7	12892.4	12078.5	11169.7
17.5°	11229.6	11274.6	11973.6	12428.0	12268.2	11963.6	11948.7	12178.3	12652.7	12762.5	11833.8
20°	12527.9	12632.7	13147.0	13122.0	12223.3	11609.1	11439.3	11614.1	12717.6	13341.7	13172.0
22.5°	14275.5	14420.3	14779.8	14090.7	12428.0	11369.4	11314.5	11654.1	13147.0	14635.0	14689.9
25°	16302.7	16547.4	16722.1	15838.3	13157.0	11783.9	11524.2	12108.4	13726.2	16038.1	16622.3
27.5°	17645.9	17900.5	17860.6	16597.3	13646.3	11893.7	11674.0	12218.3	14230.5	16372.6	17630.9
30°	18694.4	18849.2	19128.8	17006.7	14135.7	12203.3	11828.8	12682.6	14395.3	16951.8	18849.2
32.5°	19917.8	20022.6	20042.6	17730.7	14889.6	12592.8	12308.2	13261.9	15124.3	17506.0	19927.7
35°	21151.1	21305.9	20981.3	18624.5	15354.0	13316.8	13107.1	14265.5	15708.5	18080.3	21116.1
37.5°	22489.2	22569.1	21820.1	18994.0	16018.1	14495.2	14380.3	15349.0	16722.1	19118.8	22434.3
40°	23612.7	23687.6	22713.9	19448.4	16717.1	16142.9	16437.5	17416.2	18100.2	19792.9	23093.4
42.5°	24236.8	24411.6	23013.5	19198.7	18120.2	18010.4	19318.6	19663.1	19698.1	19982.7	23682.6
45°	24406.6	24326.7	22519.2	19403.5	19348.5	21081.2	22269.5	22723.9	21285.9	20332.2	23832.4
47.5°	23622.7	23727.5	21790.2	19223.7	20961.3	23408.0	24945.9	25789.7	22469.3	20027.6	23462.9
50°	22988.5	22853.7	21555.5	19093.9	21395.7	24506.5	26878.2	27068.0	23557.8	20402.1	23058.5
52.5°	23113.4	23198.3	21930.0	19438.4	21405.7	24571.4	27177.8	27048.0	23592.7	20317.2	22913.7
55°	23378.0	23003.5	21770.2	18679.4	19972.7	22758.9	24122.0	23922.3	21775.2	19413.4	22559.1
57.5°	20172.4	20751.6	20017.6	16677.2	16392.6	17146.5	17121.6	17735.7	16242.8	16707.1	20536.9
60°	16372.6	16472.5	16747.1	14265.5	11344.5	11084.8	10725.3	10335.9	10930.0	14285.5	18679.4
62.5°	14400.3	14280.5	15259.1	12977.2	8009.0	6705.8	6645.9	6885.6	8433.5	13626.4	17521.0
65°	10465.7	10615.5	11324.5	10071.2	6011.8	5118.0	5028.1	5737.2	6825.7	10920.1	13371.7
67.5°	6391.3	6680.9	6745.8	6211.5	4079.4	3240.6	3110.7	3754.9	4928.3	7065.3	7839.3
70°	2951.0	3300.5	3630.0	3390.4	2361.8	1333.2	1258.3	1577.8	2486.6	4064.4	4159.3
72.5°	893.8	898.8	1258.3	1313.2	764.0	299.6	264.6	349.5	843.8	1343.2	1413.1
75°	64.9	69.9	169.8	194.7	144.8	74.9	79.9	94.9	179.8	299.6	224.7
77.5°	5.0	5.0	5.0	25.0	44.9	49.9	64.9	74.9	94.9	109.8	99.9
80°	5.0	0.0	5.0	20.0	35.0	49.9	59.9	69.9	74.9	84.9	74.9
82.5°	0.0	0.0	0.0	15.0	35.0	49.9	54.9	74.9	84.9	99.9	84.9
85°	0.0	0.0	0.0	15.0	35.0	54.9	49.9	25.0	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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12872.4	12872.4	12872.4	12872.4	12872.4	12872.4	12872.4	12872.4	12872.4	12872.4	12872.4
2.5°	13611.4	13416.6	12972.3	12747.6	12218.3	12143.4	11624.1	11539.2	11364.5	11269.6	11039.9
5°	12453.0	12218.3	11494.3	10885.1	10176.1	9681.8	9302.3	8957.7	8758.0	8573.3	8658.2
7.5°	11509.3	10825.2	10021.3	9002.7	8183.8	7654.5	7075.3	6601.0	6321.4	6131.6	6176.5
10°	10520.6	10076.2	8957.7	7814.3	6825.7	6451.2	5996.8	5632.3	5237.8	4898.3	4738.5
12.5°	10211.0	9551.9	8148.9	6985.4	6236.5	5872.0	5352.7	4933.3	4428.9	4014.5	3869.7
15°	10266.0	9631.8	7929.2	6685.9	5802.1	5172.9	4553.8	4034.5	3480.2	3190.6	3040.8
17.5°	11159.7	10061.2	8074.0	6371.3	5197.9	4324.1	3560.1	2901.0	2486.6	2187.0	2122.1
20°	12258.2	10990.0	8383.5	6141.6	4703.6	3440.3	2601.4	2032.2	1687.7	1637.8	1622.8
22.5°	13866.0	12507.9	9047.6	5986.8	4099.4	2681.3	1782.6	1478.0	1383.1	1373.1	1378.1
25°	16113.0	14410.3	9771.6	5857.0	3645.0	2067.2	1458.0	1253.3	1223.3	1208.3	1233.3
27.5°	17086.6	15558.7	10156.1	5577.4	3230.6	1862.5	1438.0	1243.3	1158.4	1133.4	1148.4
30°	18290.0	16322.7	10760.3	5098.0	2621.4	1532.9	1343.2	1353.1	1313.2	1188.4	1148.4
32.5°	19887.8	17276.4	11064.9	4758.5	2341.8	1268.3	983.7	903.8	1008.6	1028.6	1063.5
35°	20911.4	18245.0	11219.7	4558.8	2197.0	1083.5	833.9	759.0	734.0	739.0	759.0
37.5°	22813.8	19553.2	11414.4	4349.0	2087.1	943.7	754.0	684.1	649.1	649.1	669.1
40°	23952.2	20591.8	11679.0	4234.2	1977.3	858.8	684.1	624.1	594.2	594.2	604.2
42.5°	24236.8	21106.1	11589.1	4194.3	1852.5	838.9	624.1	579.2	544.3	539.3	534.3
45°	24746.1	21890.1	11604.1	4149.3	1722.6	764.0	589.2	539.3	489.3	484.3	479.3
47.5°	25305.4	22454.3	11634.1	3974.6	1597.8	639.1	614.2	499.3	439.4	429.4	429.4
50°	24826.0	22903.7	11893.7	3799.8	1438.0	519.3	604.2	469.4	389.5	374.5	379.5
52.5°	24886.0	23432.9	12443.0	3555.1	1238.3	414.4	489.3	444.4	354.5	329.5	334.5
55°	23927.3	22873.7	12517.9	3295.5	968.7	319.6	374.5	389.5	299.6	289.6	289.6
57.5°	20596.8	19368.5	11044.9	2671.3	639.1	264.6	269.6	339.5	259.6	249.7	254.7
60°	17625.9	15548.7	8887.8	1762.6	399.5	209.7	194.7	344.5	229.7	224.7	239.7
62.5°	16068.0	12777.5	6740.8	1093.5	274.6	159.8	134.8	279.6	199.7	199.7	219.7
65°	11609.1	8583.3	3919.6	574.2	194.7	124.8	99.9	159.8	164.8	169.8	179.8
67.5°	7190.2	4334.1	1652.7	279.6	129.8	84.9	64.9	99.9	109.8	109.8	119.8
70°	3550.1	1727.6	549.2	159.8	99.9	69.9	44.9	54.9	54.9	49.9	54.9
72.5°	1098.5	519.3	139.8	99.9	69.9	44.9	25.0	20.0	10.0	0.0	5.0
75°	124.8	99.9	89.9	69.9	44.9	20.0	5.0	0.0	0.0	0.0	0.0
77.5°	74.9	84.9	84.9	69.9	44.9	15.0	0.0	0.0	0.0	0.0	0.0
80°	59.9	64.9	69.9	64.9	39.9	20.0	0.0	0.0	0.0	0.0	0.0
82.5°	74.9	84.9	94.9	84.9	54.9	25.0	10.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	15.0	5.0	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°	12872.4	12872.4	12872.4	12872.4	12872.4	12872.4	12872.4	12872.4	12872.4	12872.4	12872.4
2.5°	10945.0	10835.2	10990.0	10760.3	10755.3	10760.3	10695.4	10635.4	10730.3	10985.0	11009.9
5°	8353.6	8588.3	8663.1	8907.8	8773.0	8573.3	8613.2	8478.4	8807.9	8952.8	8837.9
7.5°	6081.7	6066.7	6571.0	6601.0	6665.9	6670.9	6660.9	6396.2	6126.6	6186.5	6366.3
10°	4718.5	4463.9	4708.6	4683.6	4843.4	4798.4	4863.3	4578.7	4673.6	4673.6	4788.4
12.5°	3844.7	3575.1	3530.2	3465.3	3530.2	3555.1	3580.1	3525.2	3685.0	3759.9	3839.7
15°	2936.0	2786.2	2746.2	2621.4	2641.4	2711.3	2771.2	2796.2	2746.2	2861.1	2871.1
17.5°	2132.1	2127.1	2152.1	2147.1	2127.1	2112.1	2107.1	2042.2	2022.2	2032.2	2072.2
20°	1617.8	1657.7	1742.6	1827.5	1872.4	1817.5	1742.6	1632.8	1587.8	1597.8	1602.8
22.5°	1383.1	1443.0	1557.9	1652.7	1697.7	1597.8	1463.0	1368.1	1348.2	1343.2	1338.2
25°	1253.3	1323.2	1408.1	1438.0	1433.0	1373.1	1273.3	1233.3	1223.3	1213.3	1168.4
27.5°	1183.4	1208.3	1223.3	1258.3	1273.3	1233.3	1208.3	1148.4	1138.4	1138.4	1108.5
30°	1143.4	1128.5	1148.4	1123.5	1143.4	1113.5	1118.5	1118.5	1093.5	1103.5	1103.5
32.5°	1063.5	1068.5	1068.5	1018.6	1033.6	998.6	1033.6	1063.5	1068.5	1073.5	1113.5
35°	778.9	868.8	913.7	913.7	928.7	903.8	898.8	863.8	818.9	773.9	754.0
37.5°	684.1	719.0	778.9	813.9	838.9	818.9	773.9	719.0	694.1	674.1	654.1
40°	609.2	639.1	679.1	719.0	768.9	744.0	674.1	649.1	619.2	619.2	599.2
42.5°	549.2	564.2	589.2	649.1	704.0	654.1	604.2	584.2	569.2	564.2	559.2
45°	494.3	499.3	524.3	574.2	639.1	589.2	539.3	514.3	519.3	524.3	519.3
47.5°	444.4	454.4	469.4	529.3	569.2	544.3	489.3	474.4	474.4	474.4	479.3
50°	384.5	409.4	439.4	489.3	519.3	504.3	459.4	439.4	429.4	429.4	434.4
52.5°	344.5	364.5	404.4	464.4	504.3	479.3	434.4	404.4	384.5	379.5	389.5
55°	299.6	334.5	399.5	444.4	499.3	474.4	424.4	389.5	354.5	349.5	349.5
57.5°	269.6	324.6	384.5	439.4	484.3	464.4	424.4	379.5	334.5	329.5	329.5
60°	254.7	314.6	374.5	424.4	484.3	454.4	419.4	369.5	319.6	319.6	314.6
62.5°	239.7	294.6	354.5	404.4	464.4	439.4	404.4	354.5	304.6	304.6	294.6
65°	199.7	254.7	294.6	339.5	404.4	379.5	344.5	309.6	269.6	259.6	264.6
67.5°	139.8	174.8	214.7	259.6	299.6	289.6	274.6	249.7	214.7	209.7	204.7
70°	69.9	94.9	129.8	174.8	209.7	199.7	189.7	169.8	149.8	144.8	144.8
72.5°	10.0	30.0	54.9	79.9	109.8	114.8	109.8	104.9	99.9	94.9	99.9
75°	0.0	0.0	0.0	20.0	44.9	54.9	64.9	74.9	74.9	64.9	79.9
77.5°	0.0	0.0	0.0	0.0	5.0	25.0	49.9	64.9	79.9	69.9	94.9
80°	0.0	0.0	0.0	0.0	5.0	30.0	49.9	69.9	79.9	69.9	99.9
82.5°	0.0	0.0	0.0	0.0	5.0	35.0	49.9	64.9	74.9	69.9	89.9
85°	0.0	0.0	0.0	0.0	15.0	30.0	20.0	10.0	5.0	5.0	15.0
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: P533461

CATALOG NUMBER: GALN-SA8D-827-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12872.4	12872.4	12872.4	12872.4	12872.4	12872.4	12872.4	12872.4	12872.4	12872.4
2.5°	11149.7	11504.3	11883.7	12028.5	12477.9	12817.5	13047.1	13541.5	13616.4	13621.4
5°	8957.7	9137.5	9786.6	10091.2	10760.3	11279.6	11833.8	12632.7	13167.0	13206.9
7.5°	6366.3	6865.6	7140.2	7934.1	8758.0	9571.9	10395.8	11324.5	11943.7	11958.6
10°	5123.0	5447.5	5936.9	6531.1	7225.1	8054.0	9152.5	10231.0	10860.1	11014.9
12.5°	4124.4	4693.6	5252.8	5867.0	6396.2	7020.4	8203.8	9641.8	10161.1	10470.7
15°	3175.7	3694.9	4354.0	5073.1	5672.2	6506.1	7854.3	9497.0	10370.8	10475.7
17.5°	2341.8	2806.2	3415.3	4094.4	4993.2	6176.5	7914.2	10231.0	11054.9	11229.6
20°	1682.7	1952.3	2431.7	3220.6	4364.0	5792.1	7974.1	10975.0	12228.3	12527.9
22.5°	1333.2	1443.0	1757.6	2456.6	3660.0	5387.6	8398.5	12398.0	13841.1	14275.5
25°	1158.4	1218.3	1368.1	1937.3	3215.6	5347.7	9077.6	14105.7	15988.1	16302.7
27.5°	1118.5	1128.5	1258.3	1777.6	2975.9	5083.0	9337.2	15319.0	17326.3	17645.9
30°	1178.4	1338.2	1348.2	1502.9	2531.5	4558.8	9472.0	16492.4	18459.7	18694.4
32.5°	1018.6	968.7	1003.6	1163.4	2227.0	4254.2	9726.7	17516.0	19753.0	19917.8
35°	709.0	744.0	823.9	1008.6	1947.3	3934.6	9791.6	18644.5	20981.3	21151.1
37.5°	654.1	674.1	739.0	858.8	1712.7	3754.9	9701.7	19468.4	22254.6	22489.2
40°	609.2	634.1	669.1	778.9	1537.9	3555.1	9576.9	20212.3	23033.5	23612.7
42.5°	574.2	594.2	624.1	744.0	1388.1	3355.4	9402.1	21260.9	23732.5	24236.8
45°	534.3	564.2	599.2	724.0	1303.2	3220.6	9272.3	21196.0	24137.0	24406.6
47.5°	494.3	544.3	584.2	674.1	1278.3	3155.7	9327.2	20951.3	23807.4	23622.7
50°	454.4	519.3	589.2	559.2	1218.3	3025.9	9392.2	21285.9	23023.5	22988.5
52.5°	419.4	494.3	549.2	459.4	1083.5	2901.0	10021.3	21725.3	23577.7	23113.4
55°	369.5	444.4	439.4	369.5	878.8	2806.2	10515.6	21735.3	23203.3	23378.0
57.5°	334.5	394.5	344.5	309.6	649.1	2346.8	9711.7	18225.1	19862.8	20172.4
60°	309.6	384.5	259.6	244.7	424.4	1692.7	8478.4	14115.7	15788.4	16372.6
62.5°	284.6	364.5	204.7	199.7	294.6	1203.4	6970.5	11813.8	13606.4	14400.3
65°	249.7	259.6	164.8	154.8	209.7	649.1	4244.2	8133.9	10171.1	10465.7
67.5°	204.7	199.7	134.8	124.8	139.8	314.6	1872.4	4074.4	5896.9	6391.3
70°	164.8	164.8	114.8	99.9	99.9	144.8	489.3	1622.8	2666.4	2951.0
72.5°	119.8	124.8	89.9	79.9	74.9	69.9	79.9	324.6	699.0	893.8
75°	104.9	109.8	89.9	69.9	54.9	44.9	35.0	30.0	39.9	64.9
77.5°	114.8	114.8	94.9	64.9	49.9	35.0	20.0	10.0	10.0	5.0
80°	144.8	149.8	124.8	84.9	59.9	39.9	25.0	10.0	5.0	5.0
82.5°	154.8	169.8	139.8	104.9	74.9	44.9	25.0	5.0	0.0	0.0
85°	39.9	64.9	109.8	94.9	74.9	44.9	25.0	5.0	0.0	0.0
87.5°	0.0	5.0	15.0	15.0	20.0	20.0	15.0	5.0	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)