

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: P530653

Luminaire Tested: **GALN-SA5D-827-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530653
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-SA5D-827-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 15744 lumens
Efficiency: N/A
Efficacy: 51.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G1

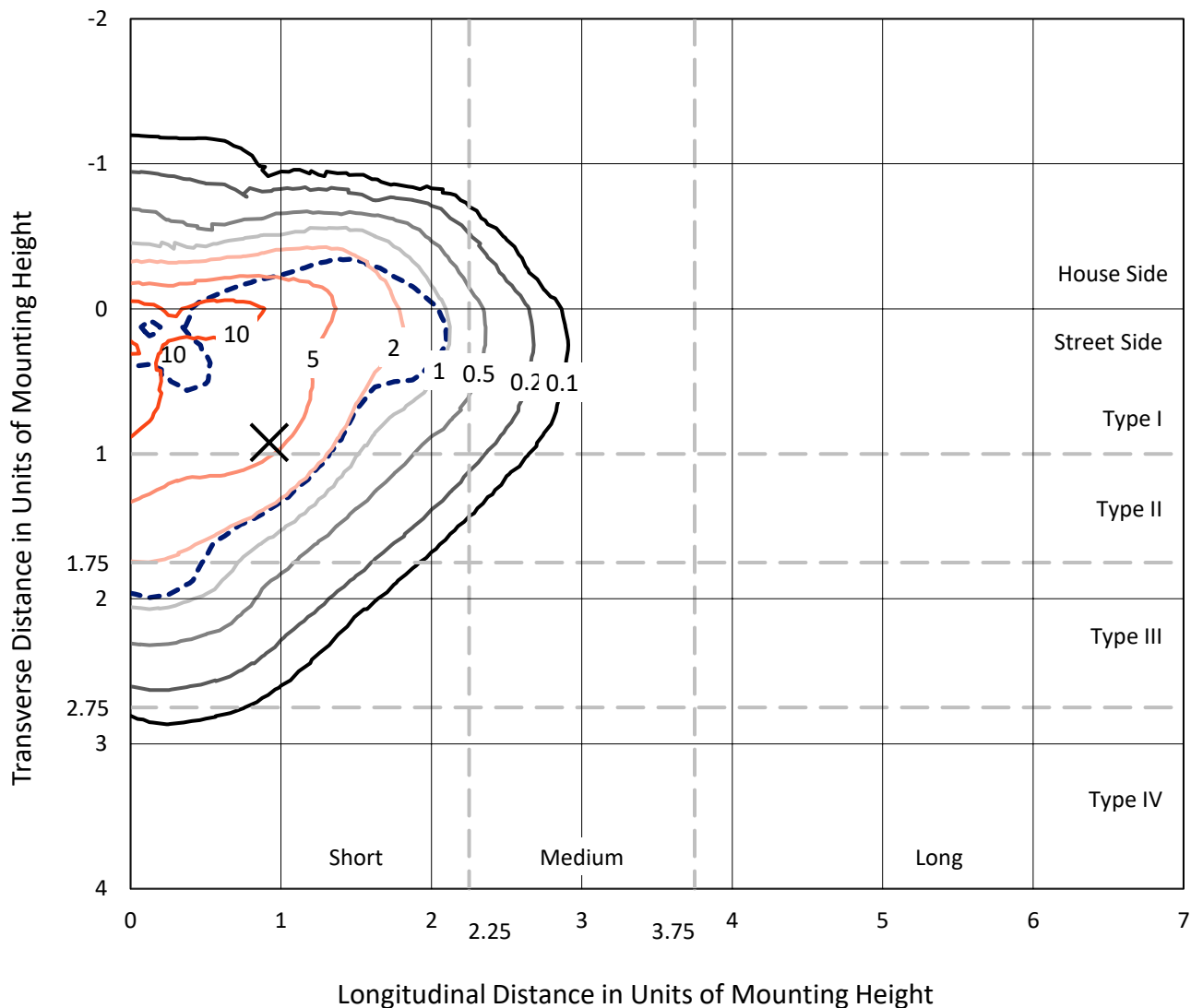
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

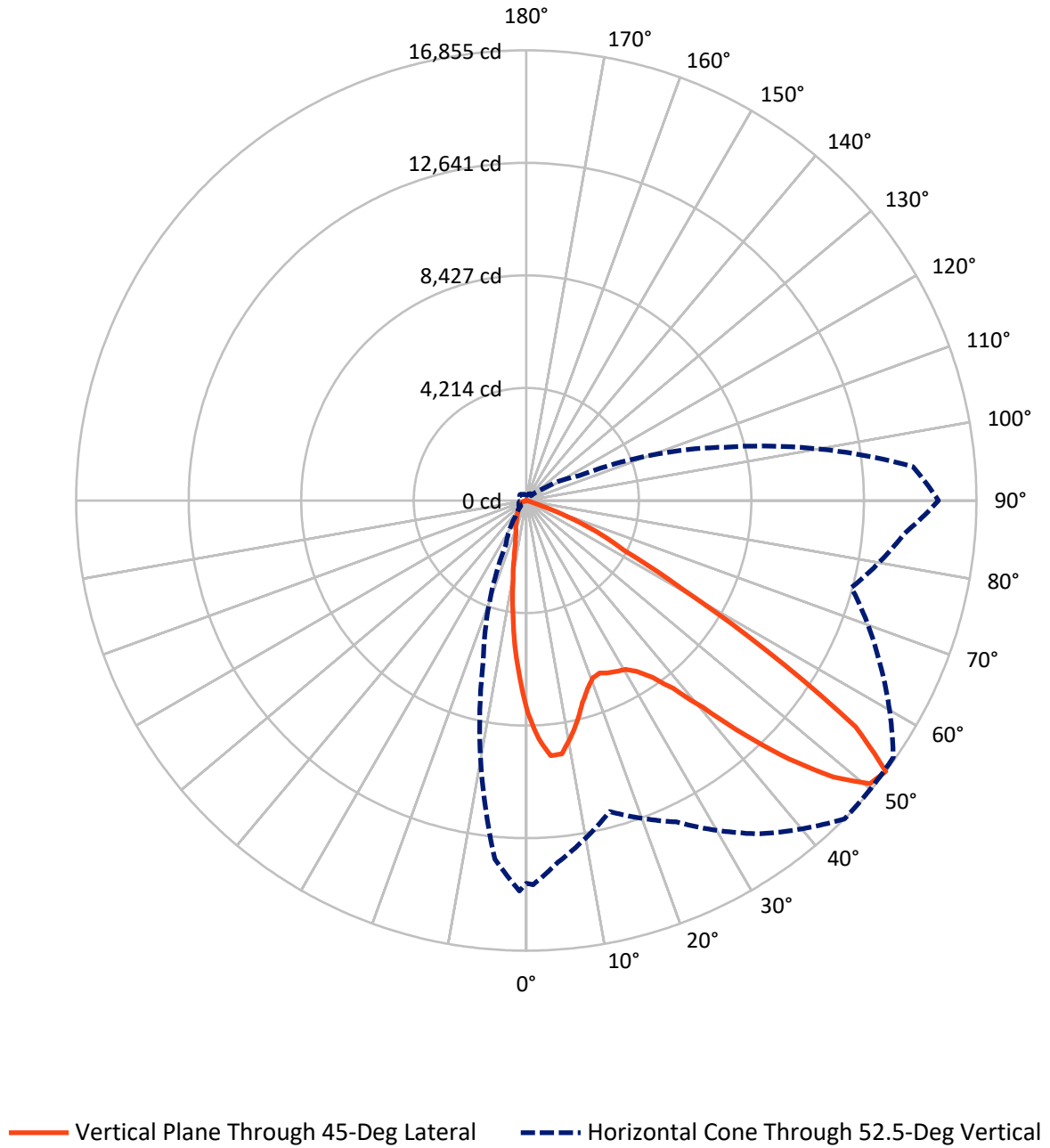
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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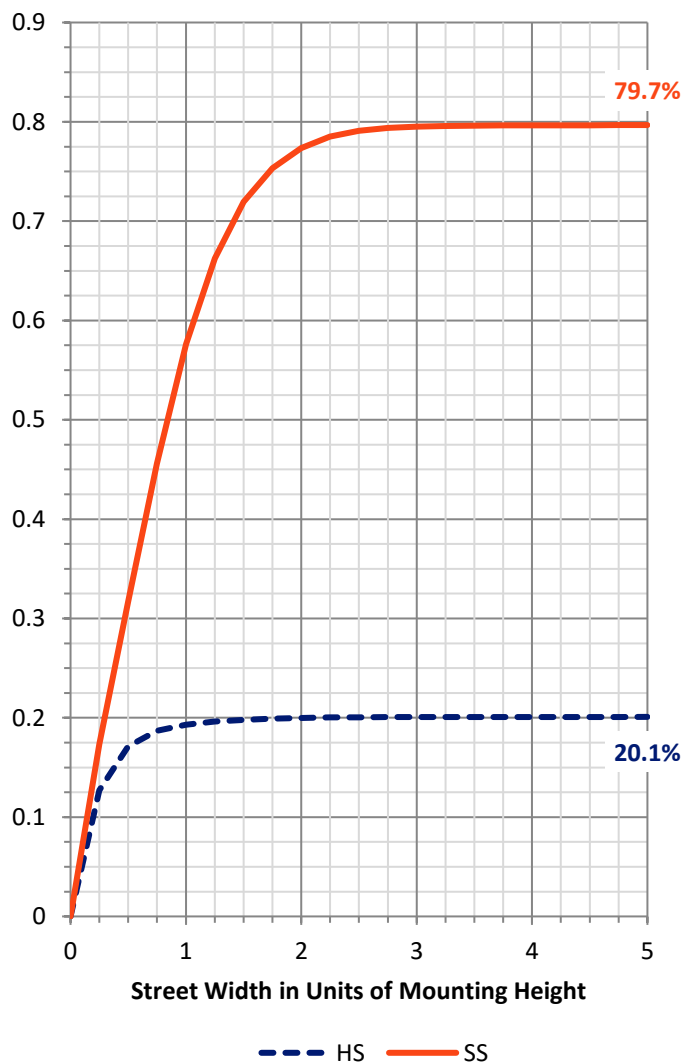
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3195.3	0.0	3195.3
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	12548.8	0.0	12548.8
	% Fixture	79.7	0.0	79.7
Total	Lumens	15744.0	0.0	15744.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	582.2	3.7
10°-20°	1148.6	7.3
20°-30°	1748.0	11.1
30°-40°	2612.6	16.6
40°-50°	3720.6	23.6
50°-60°	3999.5	25.4
60°-70°	1772.3	11.3
70°-80°	143.4	0.9
80°-90°	16.7	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°	15744.0	100.0
0°-180°	15744.0	100.0

Coefficient of Utilization



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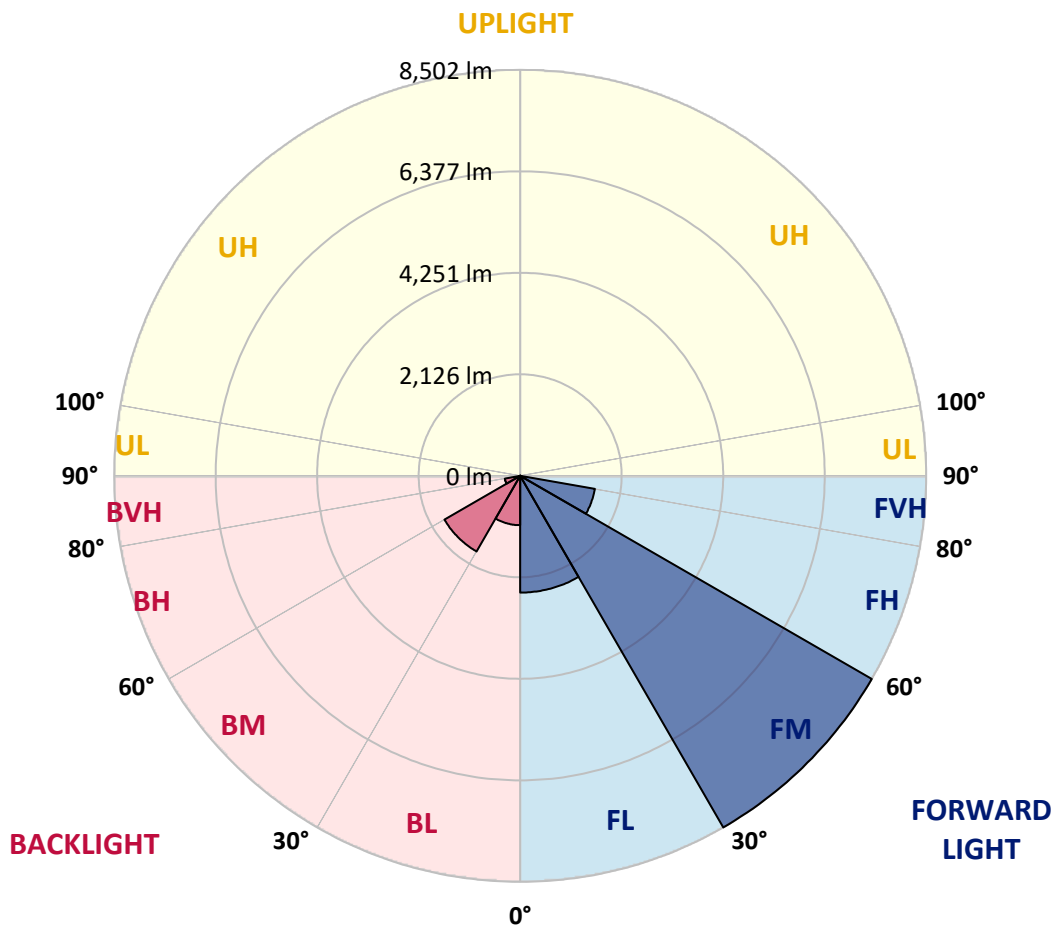
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2445.4	15.5			
FM (30°-60°)	8502.3	54.0			
FH (60°-80°)	1588.8	10.1			G1/1800
FVH (80°-90°)	12.4	0.1			G1/100
BL (0°-30°)	1033.5	6.6	B3/2500		
BM (30°-60°)	1830.5	11.6	B2/2500		
BH (60°-80°)	326.9	2.1	B1/500		G1/500
BVH (80°-90°)	4.3	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7982.9	7982.9	7982.9	7982.9	7982.9	7982.9	7982.9	7982.9	7982.9	7982.9	7982.9
2.5°	8447.4	8472.2	8608.4	8778.8	8868.6	9072.9	8930.5	8967.6	8890.2	8617.7	8404.1
5°	8190.4	8187.3	8360.7	8781.9	9181.3	9587.0	9599.3	9382.6	9001.7	8583.7	7986.0
7.5°	7416.3	7537.0	7716.6	8388.6	9128.7	9432.1	9577.7	9323.8	8738.5	8140.9	7493.7
10°	6831.0	6892.9	7196.4	8007.7	8549.6	8955.3	9045.1	8899.5	8450.5	7704.2	6979.7
12.5°	6493.5	6524.5	6880.6	7561.8	8134.7	8435.0	8478.4	8546.5	8224.5	7524.6	6654.5
15°	6496.6	6521.4	7001.3	7571.1	7797.1	7716.6	7859.1	7856.0	7995.3	7490.6	6927.0
17.5°	6964.2	6992.0	7425.6	7707.3	7608.3	7419.4	7410.1	7552.5	7846.7	7914.8	7338.9
20°	7769.3	7834.3	8153.3	8137.8	7580.4	7199.5	7094.2	7202.6	7886.9	8274.0	8168.7
22.5°	8853.1	8942.9	9165.8	8738.5	7707.3	7050.9	7016.8	7227.4	8153.3	9076.0	9110.1
25°	10110.3	10262.0	10370.4	9822.3	8159.4	7307.9	7146.9	7509.2	8512.5	9946.2	10308.5
27.5°	10943.3	11101.2	11076.4	10293.0	8462.9	7376.0	7239.8	7577.3	8825.2	10153.6	10934.0
30°	11593.5	11689.5	11862.9	10546.9	8766.4	7568.0	7335.8	7865.3	8927.4	10512.8	11689.5
32.5°	12352.2	12417.2	12429.6	10995.9	9234.0	7809.5	7633.0	8224.5	9379.5	10856.6	12358.4
35°	13117.0	13213.0	13011.8	11550.2	9521.9	8258.5	8128.5	8846.9	9741.8	11212.7	13095.4
37.5°	13946.9	13996.5	13532.0	11779.3	9933.8	8989.3	8918.1	9518.8	10370.4	11856.7	13912.9
40°	14643.6	14690.1	14086.3	12061.1	10367.3	10011.2	10193.9	10800.8	11225.0	12274.8	14321.6
42.5°	15030.7	15139.1	14272.1	11906.3	11237.4	11169.3	11980.6	12194.3	12215.9	12392.4	14687.0
45°	15136.0	15086.5	13965.5	12033.2	11999.2	13073.7	13810.7	14092.5	13200.6	12609.2	14779.9
47.5°	14649.8	14714.9	13513.4	11921.8	12999.4	14516.7	15470.4	15993.7	13934.5	12420.3	14550.8
50°	14256.6	14173.0	13367.9	11841.3	13268.8	15197.9	16668.8	16786.5	14609.6	12652.6	14299.9
52.5°	14334.0	14386.6	13600.1	12054.9	13275.0	15238.2	16854.6	16774.1	14631.3	12599.9	14210.1
55°	14498.1	14265.9	13501.0	11584.2	12386.3	14114.1	14959.5	14835.6	13504.1	12039.4	13990.3
57.5°	12510.1	12869.3	12414.1	10342.5	10166.0	10633.6	10618.1	10999.0	10073.1	10361.1	12736.2
60°	10153.6	10215.6	10385.9	8846.9	7035.4	6874.4	6651.4	6409.9	6778.4	8859.3	11584.2
62.5°	8930.5	8856.2	9463.1	8048.0	4966.9	4158.7	4121.5	4270.2	5230.1	8450.5	10865.8
65°	6490.4	6583.3	7023.0	6245.8	3728.3	3174.0	3118.2	3558.0	4233.0	6772.2	8292.6
67.5°	3963.6	4143.2	4183.5	3852.1	2529.9	2009.7	1929.2	2328.6	3056.3	4381.6	4861.6
70°	1830.1	2046.8	2251.2	2102.6	1464.7	826.8	780.3	978.5	1542.1	2520.6	2579.4
72.5°	554.3	557.4	780.3	814.4	473.8	185.8	164.1	216.8	523.3	833.0	876.3
75°	40.3	43.4	105.3	120.8	89.8	46.4	49.5	58.8	111.5	185.8	139.3
77.5°	3.1	3.1	3.1	15.5	27.9	31.0	40.3	46.4	58.8	68.1	61.9
80°	3.1	0.0	3.1	12.4	21.7	31.0	37.2	43.4	46.4	52.6	46.4
82.5°	0.0	0.0	0.0	9.3	21.7	31.0	34.1	46.4	52.6	61.9	52.6
85°	0.0	0.0	0.0	9.3	21.7	34.1	31.0	15.5	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°	7982.9	7982.9	7982.9	7982.9	7982.9	7982.9	7982.9	7982.9	7982.9	7982.9	7982.9
2.5°	8441.2	8320.5	8044.9	7905.5	7577.3	7530.8	7208.8	7156.2	7047.8	6988.9	6846.5
5°	7722.8	7577.3	7128.3	6750.5	6310.8	6004.2	5768.9	5555.2	5431.4	5316.8	5369.4
7.5°	7137.6	6713.3	6214.8	5583.1	5075.3	4747.0	4387.8	4093.7	3920.2	3802.6	3830.4
10°	6524.5	6248.9	5555.2	4846.1	4233.0	4000.8	3719.0	3492.9	3248.3	3037.7	2938.6
12.5°	6332.5	5923.7	5053.6	4332.1	3867.6	3641.6	3319.5	3059.4	2746.7	2489.6	2399.8
15°	6366.5	5973.3	4917.3	4146.3	3598.2	3208.0	2824.1	2502.0	2158.3	1978.7	1885.8
17.5°	6920.8	6239.6	5007.1	3951.2	3223.5	2681.6	2207.8	1799.1	1542.1	1356.3	1316.0
20°	7602.1	6815.5	5199.1	3808.8	2917.0	2133.5	1613.3	1260.3	1046.6	1015.7	1006.4
22.5°	8599.2	7756.9	5611.0	3712.8	2542.3	1662.9	1105.5	916.6	857.7	851.6	854.7
25°	9992.6	8936.7	6060.0	3632.3	2260.5	1282.0	904.2	777.2	758.7	749.4	764.9
27.5°	10596.4	9648.9	6298.4	3458.9	2003.5	1155.0	891.8	771.0	718.4	702.9	712.2
30°	11342.7	10122.7	6673.1	3161.6	1625.7	950.6	833.0	839.2	814.4	737.0	712.2
32.5°	12333.6	10714.1	6862.0	2951.0	1452.3	786.5	610.0	560.5	625.5	637.9	659.6
35°	12968.4	11314.8	6958.0	2827.2	1362.5	672.0	517.1	470.7	455.2	458.3	470.7
37.5°	14148.2	12126.1	7078.7	2697.1	1294.4	585.3	467.6	424.2	402.6	402.6	414.9
40°	14854.2	12770.2	7242.9	2625.9	1226.2	532.6	424.2	387.1	368.5	368.5	374.7
42.5°	15030.7	13089.2	7187.1	2601.1	1148.8	520.2	387.1	359.2	337.5	334.4	331.3
45°	15346.6	13575.3	7196.4	2573.2	1068.3	473.8	365.4	334.4	303.5	300.4	297.3
47.5°	15693.4	13925.2	7215.0	2464.9	990.9	396.4	380.9	309.7	272.5	266.3	266.3
50°	15396.1	14203.9	7376.0	2356.5	891.8	322.0	374.7	291.1	241.5	232.2	235.3
52.5°	15433.3	14532.2	7716.6	2204.8	767.9	257.0	303.5	275.6	219.9	204.4	207.5
55°	14838.7	14185.4	7763.1	2043.7	600.7	198.2	232.2	241.5	185.8	179.6	179.6
57.5°	12773.3	12011.6	6849.6	1656.7	396.4	164.1	167.2	210.6	161.0	154.8	157.9
60°	10930.9	9642.7	5511.9	1093.1	247.7	130.1	120.8	213.7	142.4	139.3	148.6
62.5°	9964.7	7924.1	4180.4	678.1	170.3	99.1	83.6	173.4	123.9	123.9	136.2
65°	7199.5	5323.0	2430.8	356.1	120.8	77.4	61.9	99.1	102.2	105.3	111.5
67.5°	4459.1	2687.8	1025.0	173.4	80.5	52.6	40.3	61.9	68.1	68.1	74.3
70°	2201.7	1071.4	340.6	99.1	61.9	43.4	27.9	34.1	34.1	31.0	34.1
72.5°	681.2	322.0	86.7	61.9	43.4	27.9	15.5	12.4	6.2	0.0	3.1
75°	77.4	61.9	55.7	43.4	27.9	12.4	3.1	0.0	0.0	0.0	0.0
77.5°	46.4	52.6	52.6	43.4	27.9	9.3	0.0	0.0	0.0	0.0	0.0
80°	37.2	40.3	43.4	40.3	24.8	12.4	0.0	0.0	0.0	0.0	0.0
82.5°	46.4	52.6	58.8	52.6	34.1	15.5	6.2	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	9.3	3.1	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°	7982.9	7982.9	7982.9	7982.9	7982.9	7982.9	7982.9	7982.9	7982.9	7982.9	7982.9
2.5°	6787.7	6719.5	6815.5	6673.1	6670.0	6673.1	6632.8	6595.7	6654.5	6812.4	6827.9
5°	5180.6	5326.1	5372.5	5524.3	5440.7	5316.8	5341.6	5258.0	5462.3	5552.1	5480.9
7.5°	3771.6	3762.3	4075.1	4093.7	4133.9	4137.0	4130.8	3966.7	3799.5	3836.6	3948.1
10°	2926.3	2768.3	2920.1	2904.6	3003.7	2975.8	3016.1	2839.5	2898.4	2898.4	2969.6
12.5°	2384.4	2217.1	2189.3	2149.0	2189.3	2204.8	2220.2	2186.2	2285.3	2331.7	2381.3
15°	1820.8	1727.9	1703.1	1625.7	1638.1	1681.4	1718.6	1734.1	1703.1	1774.3	1780.5
17.5°	1322.2	1319.1	1334.6	1331.5	1319.1	1309.8	1306.7	1266.5	1254.1	1260.3	1285.1
20°	1003.3	1028.1	1080.7	1133.3	1161.2	1127.1	1080.7	1012.6	984.7	990.9	994.0
22.5°	857.7	894.9	966.1	1025.0	1052.8	990.9	907.3	848.5	836.1	833.0	829.9
25°	777.2	820.6	873.2	891.8	888.7	851.6	789.6	764.9	758.7	752.5	724.6
27.5°	733.9	749.4	758.7	780.3	789.6	764.9	749.4	712.2	706.0	706.0	687.4
30°	709.1	699.8	712.2	696.7	709.1	690.5	693.6	693.6	678.1	684.3	684.3
32.5°	659.6	662.7	662.7	631.7	641.0	619.3	641.0	659.6	662.7	665.8	690.5
35°	483.1	538.8	566.7	566.7	576.0	560.5	557.4	535.7	507.8	480.0	467.6
37.5°	424.2	445.9	483.1	504.7	520.2	507.8	480.0	445.9	430.4	418.0	405.6
40°	377.8	396.4	421.1	445.9	476.9	461.4	418.0	402.6	384.0	384.0	371.6
42.5°	340.6	349.9	365.4	402.6	436.6	405.6	374.7	362.3	353.0	349.9	346.8
45°	306.6	309.7	325.1	356.1	396.4	365.4	334.4	318.9	322.0	325.1	322.0
47.5°	275.6	281.8	291.1	328.2	353.0	337.5	303.5	294.2	294.2	294.2	297.3
50°	238.4	253.9	272.5	303.5	322.0	312.8	284.9	272.5	266.3	266.3	269.4
52.5°	213.7	226.0	250.8	288.0	312.8	297.3	269.4	250.8	238.4	235.3	241.5
55°	185.8	207.5	247.7	275.6	309.7	294.2	263.2	241.5	219.9	216.8	216.8
57.5°	167.2	201.3	238.4	272.5	300.4	288.0	263.2	235.3	207.5	204.4	204.4
60°	157.9	195.1	232.2	263.2	300.4	281.8	260.1	229.1	198.2	198.2	195.1
62.5°	148.6	182.7	219.9	250.8	288.0	272.5	250.8	219.9	188.9	188.9	182.7
65°	123.9	157.9	182.7	210.6	250.8	235.3	213.7	192.0	167.2	161.0	164.1
67.5°	86.7	108.4	133.2	161.0	185.8	179.6	170.3	154.8	133.2	130.1	127.0
70°	43.4	58.8	80.5	108.4	130.1	123.9	117.7	105.3	92.9	89.8	89.8
72.5°	6.2	18.6	34.1	49.5	68.1	71.2	68.1	65.0	61.9	58.8	61.9
75°	0.0	0.0	0.0	12.4	27.9	34.1	40.3	46.4	46.4	40.3	49.5
77.5°	0.0	0.0	0.0	0.0	3.1	15.5	31.0	40.3	49.5	43.4	58.8
80°	0.0	0.0	0.0	0.0	3.1	18.6	31.0	43.4	49.5	43.4	61.9
82.5°	0.0	0.0	0.0	0.0	3.1	21.7	31.0	40.3	46.4	43.4	55.7
85°	0.0	0.0	0.0	0.0	9.3	18.6	12.4	6.2	3.1	3.1	9.3
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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 CATALOG NUMBER: GALN-SA5D-827-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7982.9	7982.9	7982.9	7982.9	7982.9	7982.9	7982.9	7982.9	7982.9	7982.9
2.5°	6914.6	7134.5	7369.8	7459.6	7738.3	7948.9	8091.3	8397.9	8444.3	8447.4
5°	5555.2	5666.7	6069.3	6258.2	6673.1	6995.1	7338.9	7834.3	8165.6	8190.4
7.5°	3948.1	4257.8	4428.1	4920.4	5431.4	5936.1	6447.0	7023.0	7407.0	7416.3
10°	3177.1	3378.4	3681.8	4050.3	4480.7	4994.8	5676.0	6344.9	6735.0	6831.0
12.5°	2557.8	2910.8	3257.6	3638.5	3966.7	4353.8	5087.7	5979.5	6301.5	6493.5
15°	1969.4	2291.5	2700.2	3146.1	3517.7	4034.8	4870.9	5889.7	6431.6	6496.6
17.5°	1452.3	1740.3	2118.0	2539.2	3096.6	3830.4	4908.1	6344.9	6855.8	6964.2
20°	1043.5	1210.8	1508.0	1997.3	2706.4	3592.0	4945.2	6806.2	7583.5	7769.3
22.5°	826.8	894.9	1090.0	1523.5	2269.8	3341.2	5208.4	7688.8	8583.7	8853.1
25°	718.4	755.6	848.5	1201.5	1994.2	3316.4	5629.6	8747.8	9915.2	10110.3
27.5°	693.6	699.8	780.3	1102.4	1845.6	3152.3	5790.6	9500.3	10745.1	10943.3
30°	730.8	829.9	836.1	932.1	1570.0	2827.2	5874.2	10227.9	11448.0	11593.5
32.5°	631.7	600.7	622.4	721.5	1381.1	2638.3	6032.1	10862.7	12250.0	12352.2
35°	439.7	461.4	510.9	625.5	1207.7	2440.1	6072.4	11562.6	13011.8	13117.0
37.5°	405.6	418.0	458.3	532.6	1062.1	2328.6	6016.6	12073.5	13801.4	13946.9
40°	377.8	393.3	414.9	483.1	953.7	2204.8	5939.2	12534.9	14284.4	14643.6
42.5°	356.1	368.5	387.1	461.4	860.8	2080.9	5830.8	13185.2	14718.0	15030.7
45°	331.3	349.9	371.6	449.0	808.2	1997.3	5750.3	13144.9	14968.8	15136.0
47.5°	306.6	337.5	362.3	418.0	792.7	1957.0	5784.4	12993.2	14764.4	14649.8
50°	281.8	322.0	365.4	346.8	755.6	1876.5	5824.6	13200.6	14278.3	14256.6
52.5°	260.1	306.6	340.6	284.9	672.0	1799.1	6214.8	13473.1	14622.0	14334.0
55°	229.1	275.6	272.5	229.1	545.0	1740.3	6521.4	13479.3	14389.7	14498.1
57.5°	207.5	244.6	213.7	192.0	402.6	1455.4	6022.8	11302.5	12318.1	12510.1
60°	192.0	238.4	161.0	151.7	263.2	1049.7	5258.0	8754.0	9791.3	10153.6
62.5°	176.5	226.0	127.0	123.9	182.7	746.3	4322.8	7326.5	8438.1	8930.5
65°	154.8	161.0	102.2	96.0	130.1	402.6	2632.1	5044.3	6307.7	6490.4
67.5°	127.0	123.9	83.6	77.4	86.7	195.1	1161.2	2526.8	3657.0	3963.6
70°	102.2	102.2	71.2	61.9	61.9	89.8	303.5	1006.4	1653.6	1830.1
72.5°	74.3	77.4	55.7	49.5	46.4	43.4	49.5	201.3	433.5	554.3
75°	65.0	68.1	55.7	43.4	34.1	27.9	21.7	18.6	24.8	40.3
77.5°	71.2	71.2	58.8	40.3	31.0	21.7	12.4	6.2	6.2	3.1
80°	89.8	92.9	77.4	52.6	37.2	24.8	15.5	6.2	3.1	3.1
82.5°	96.0	105.3	86.7	65.0	46.4	27.9	15.5	3.1	0.0	0.0
85°	24.8	40.3	68.1	58.8	46.4	27.9	15.5	3.1	0.0	0.0
87.5°	0.0	3.1	9.3	9.3	12.4	12.4	9.3	3.1	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)