

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: STREETWORKS

Report Number: P458032

Luminaire Tested: **GLAN-SA9B-830-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458032
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9B-830-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29438 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

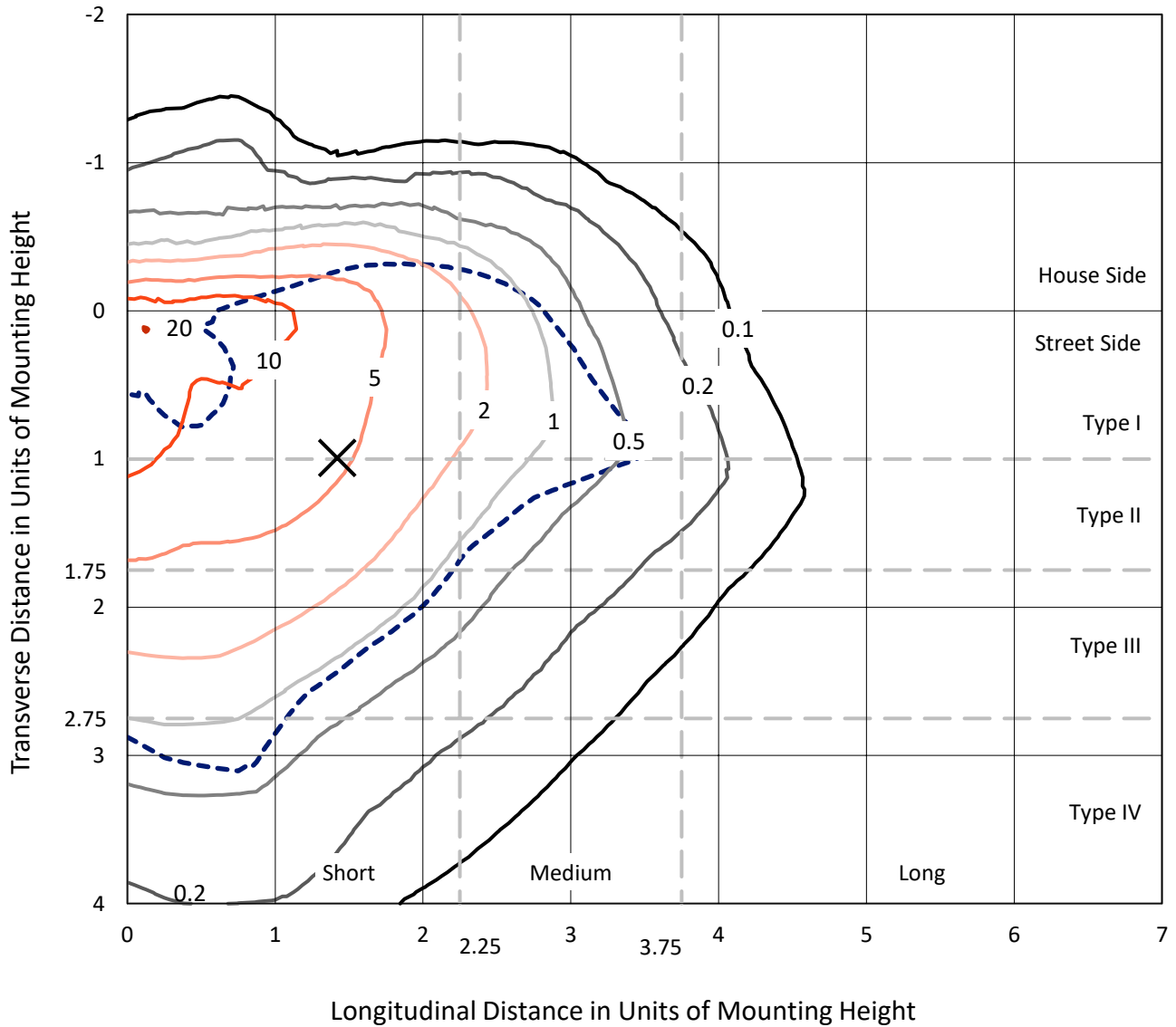
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

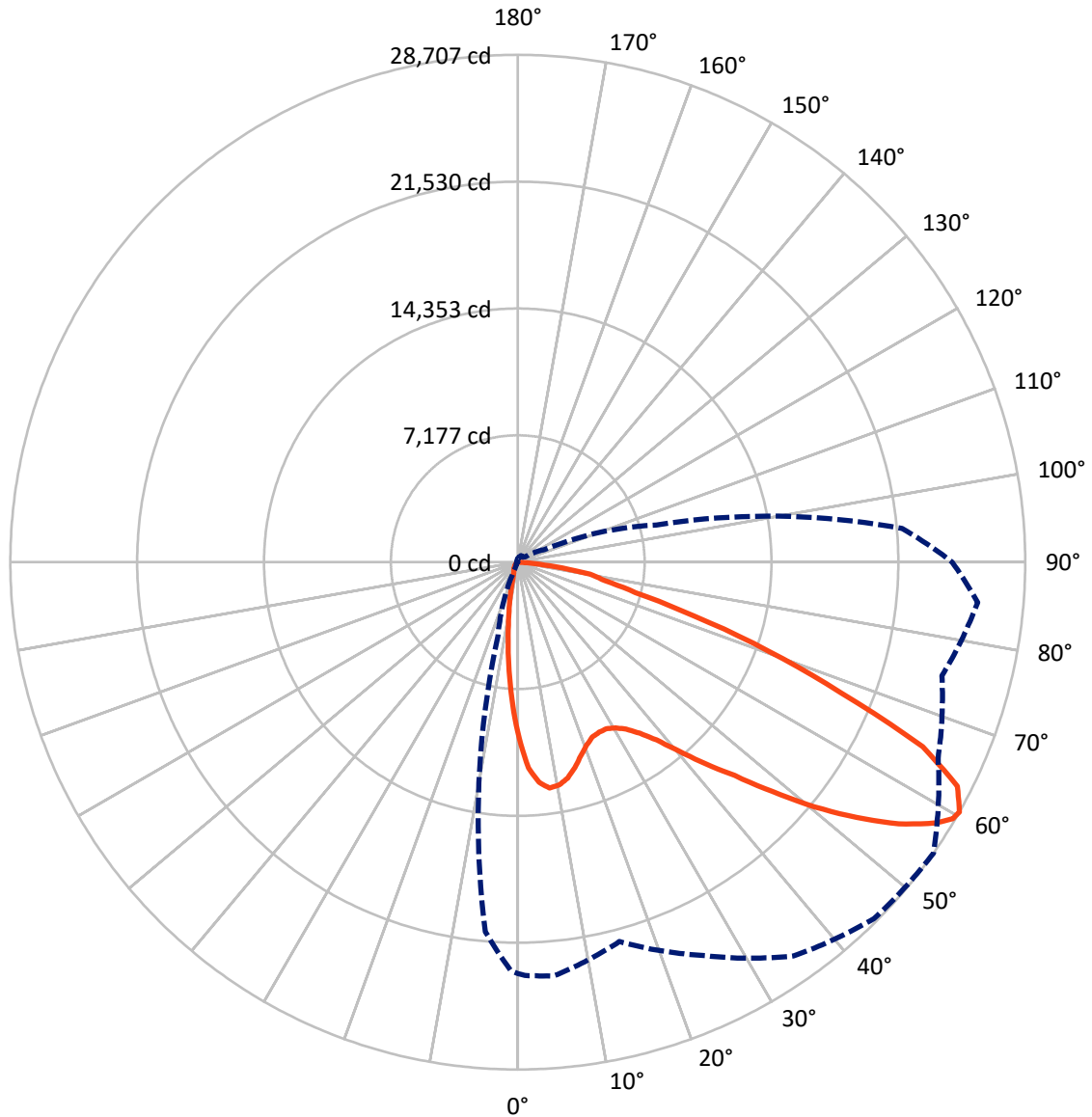
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4368.9	0.0	4368.9
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	25069.1	0.0	25069.1
	% Fixture	85.2	0.0	85.2
Total	Lumens	29438.0	0.0	29438.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	738.1	2.5
10°-20°	1453.5	4.9
20°-30°	2151.5	7.3
30°-40°	3207.0	10.9
40°-50°	4696.7	16.0
50°-60°	6780.5	23.0
60°-70°	7132.8	24.2
70°-80°	2934.2	10.0
80°-90°	343.7	1.2
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°	29438.0	100.0
0°-180°	29438.0	100.0

Coefficient of Utilization

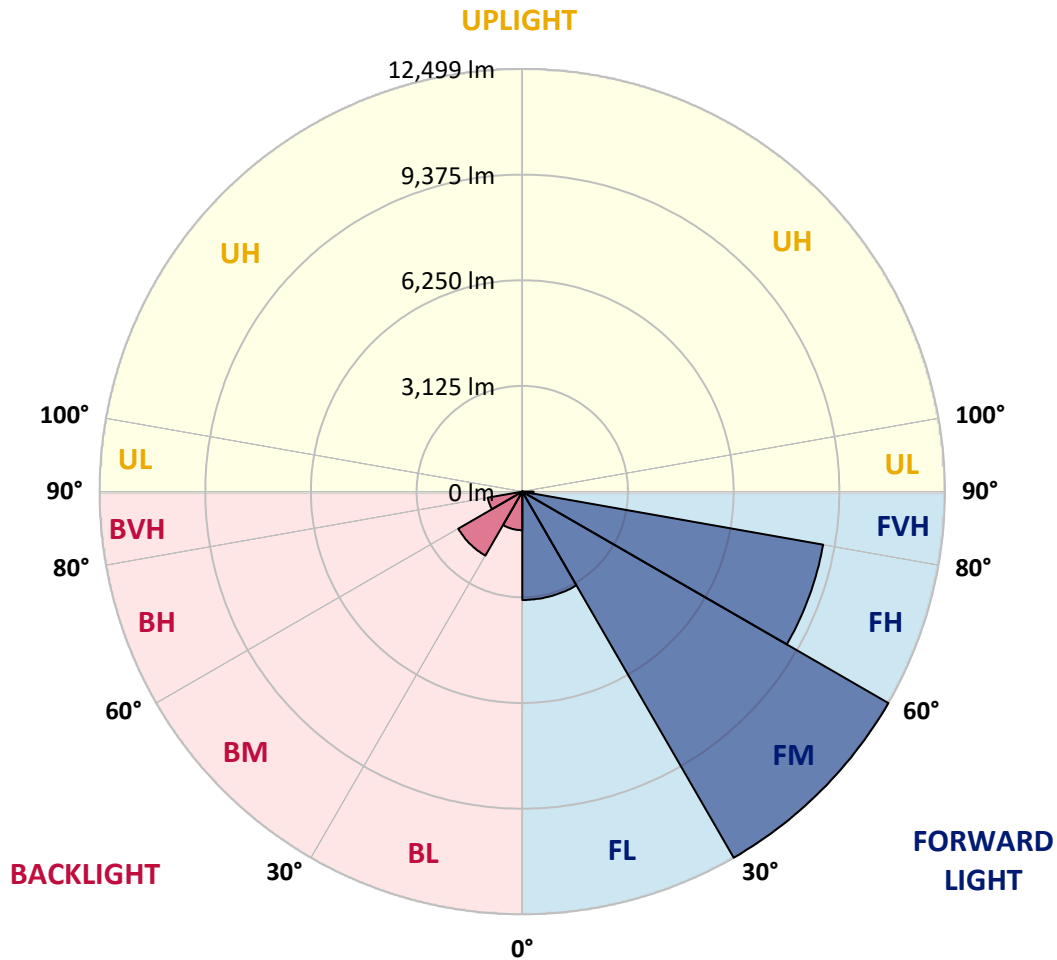


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3203.3	10.9			
FM	(30°-60°)	12499.4	42.5			
FH	(60°-80°)	9032.9	30.7			G4/12000
FVH	(80°-90°)	333.6	1.1			G3/500
BL	(0°-30°)	1139.9	3.9	B3/2500		
BM	(30°-60°)	2184.8	7.4	B2/2500		
BH	(60°-80°)	1034.1	3.5	B3/2500		G3/2500
BVH	(80°-90°)	10.1	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9967.6	9967.6	9967.6	9967.6	9967.6	9967.6	9967.6	9967.6	9967.6	9967.6	9967.6
2.5°	10889.8	10871.7	11032.6	11295.4	11560.5	11698.8	11671.6	11660.2	11440.5	11279.6	10942.0
5°	10867.2	10960.1	11247.9	11959.3	12498.6	12759.2	12836.2	12512.2	12084.0	11463.1	10697.2
7.5°	10216.9	10332.4	10801.5	11914.0	12872.5	13439.0	13418.6	12899.7	12016.0	11055.2	9963.1
10°	9410.2	9546.2	10096.8	11447.2	12691.2	13439.0	13479.7	12822.6	11723.7	10491.0	9342.2
12.5°	8841.5	9002.4	9611.9	11012.2	12224.4	12960.9	13008.4	12532.6	11503.9	10273.5	9004.6
15°	8648.9	8800.7	9419.3	10792.4	11728.2	12124.7	12113.4	12063.6	11417.8	10325.6	9022.8
17.5°	8979.7	9104.3	9802.2	10892.1	11263.7	11222.9	11281.8	11522.0	11435.9	10763.0	9593.8
20°	9833.9	9960.8	10710.8	11198.0	10908.0	10649.7	10676.8	11077.9	11603.6	11585.5	10486.5
22.5°	11009.9	11225.2	11905.0	11791.7	10860.4	10293.9	10237.3	10758.4	11889.1	12532.6	11692.0
25°	12498.6	12716.1	13246.4	12738.8	11093.8	10210.1	10158.0	10661.0	12235.8	13457.1	13049.2
27.5°	13749.4	13914.8	14442.7	13661.0	11438.2	10246.3	10160.2	10674.6	12516.7	14243.3	14193.5
30°	14750.9	14873.3	15183.7	14091.5	11735.0	10404.9	10305.2	10874.0	12641.4	14626.3	15120.2
32.5°	15557.6	15763.8	15861.2	14551.5	12161.0	10704.0	10534.1	11256.9	12945.0	15099.9	16092.3
35°	16479.8	16717.7	16593.1	14991.1	12722.9	11170.8	10962.3	11877.8	13405.0	15537.2	17220.7
37.5°	17649.0	17923.1	17436.0	15453.3	13316.6	11873.2	11775.8	12750.1	14102.9	16162.6	18430.7
40°	18859.0	19017.6	18254.0	16015.3	14046.2	12895.1	12988.0	14046.2	15016.0	16912.6	19717.7
42.5°	19803.8	19953.4	19094.6	16486.6	14791.7	14107.4	14494.9	15609.7	16062.9	17680.7	20678.5
45°	20526.6	20653.5	19676.9	17000.9	15797.7	15863.5	16595.3	17220.7	17112.0	18149.7	21419.4
47.5°	21088.6	21197.3	20125.6	17553.8	17304.6	18011.5	19130.9	19396.0	18199.6	18657.3	22090.1
50°	21319.7	21351.4	20266.1	18258.5	19015.3	20748.7	21915.6	21754.8	19445.8	19221.5	22803.9
52.5°	21621.1	21614.3	20667.1	18929.2	20624.1	23195.9	24360.5	23995.7	20855.2	20066.7	23606.0
55°	22411.9	22420.9	21525.9	19880.9	21994.9	25171.7	26417.9	26152.8	22341.6	21494.2	24541.8
57.5°	23372.6	23406.6	22747.2	20993.4	23304.6	26603.7	27954.2	27852.3	24351.5	23082.6	25425.5
59°	23497.2	23565.2	23325.0	21777.4	24081.8	27043.3	28479.9	28579.6	25427.8	24129.4	25903.6
60°	23270.6	23383.9	23492.7	22221.5	24537.3	27201.9	28511.6	28706.5	26236.7	24840.9	26121.1
62.5°	22282.7	22461.7	23007.8	23587.9	25106.0	26708.0	27498.8	27906.6	27238.2	26710.2	26141.5
65°	20988.9	21081.8	21870.3	23830.3	24002.5	24401.3	24646.0	25169.4	26035.0	27430.8	25205.7
67.5°	18868.0	19142.2	20107.5	22423.2	20746.4	20275.1	20214.0	19692.8	21940.6	25713.3	22899.0
70°	15587.0	15709.4	16899.0	18383.1	15657.3	14932.2	15222.2	15027.3	17007.7	22135.4	18430.7
72.5°	11787.1	12063.6	13226.0	14653.5	10654.2	9713.8	10513.7	10441.2	12775.1	17789.5	12661.8
75°	8386.0	8565.0	10046.9	11467.6	7461.6	6321.8	6609.6	6879.2	8918.5	14046.2	7482.0
77.5°	5762.1	5916.2	7028.8	7583.9	5442.7	5213.8	4769.7	5030.3	5843.7	8333.9	4071.8
80°	3475.9	3469.1	4200.9	4336.9	3790.8	4402.6	3693.4	4146.6	3532.5	3566.5	1577.1
82.5°	2256.8	2234.2	2569.5	2800.6	2109.5	2218.3	1488.7	2145.8	2302.1	994.7	498.5
85°	1010.6	1053.6	1234.9	1629.2	924.5	491.7	303.6	659.4	981.1	500.8	0.0
87.5°	104.2	81.6	217.5	396.5	126.9	13.6	45.3	22.7	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°	9967.6	9967.6	9967.6	9967.6	9967.6	9967.6	9967.6	9967.6	9967.6	9967.6	9967.6
2.5°	10785.6	10654.2	10262.2	9895.1	9580.2	9195.0	8945.7	8553.7	8315.8	8243.3	8254.6
5°	10352.8	9974.4	9228.9	8633.0	7969.1	7590.7	7015.2	6462.3	6163.2	6052.2	6002.3
7.5°	9446.5	9040.9	8141.3	7205.5	6494.0	5830.1	5401.9	4914.7	4581.6	4307.4	4259.9
10°	8773.5	8241.0	7126.2	6120.2	5558.2	5059.7	4631.5	4144.3	3752.3	3439.6	3353.5
12.5°	8370.2	7774.2	6530.3	5687.4	5154.9	4642.8	4085.4	3521.2	3120.1	2782.5	2626.2
15°	8297.7	7606.6	6362.6	5376.9	4719.8	4101.3	3360.3	2750.8	2338.4	2018.9	1921.5
17.5°	8735.0	7907.9	6337.7	5052.9	4151.1	3274.2	2503.8	1998.5	1534.0	1355.0	1284.8
20°	9514.4	8440.4	6335.4	4676.8	3566.5	2521.9	1758.3	1302.9	1114.8	1028.7	987.9
22.5°	10577.1	9165.5	6455.5	4352.8	2959.2	1860.3	1255.3	1037.8	929.0	858.8	842.9
25°	11875.5	10239.5	6750.1	4133.0	2494.7	1459.2	1035.5	888.2	797.6	765.9	752.3
27.5°	13028.8	11268.2	7074.1	3906.4	2161.7	1291.6	960.7	813.5	740.9	716.0	695.6
30°	14023.6	12201.8	7230.4	3607.3	1894.3	1182.8	974.3	870.1	774.9	700.2	666.2
32.5°	14852.9	12917.8	7332.4	3335.4	1667.7	967.5	770.4	673.0	629.9	602.7	580.1
35°	15890.6	13692.7	7271.2	3181.3	1552.1	881.4	702.4	580.1	507.6	453.2	430.5
37.5°	16978.3	14467.7	7164.7	3054.4	1500.0	818.0	668.4	550.6	471.3	414.7	385.2
40°	18104.4	15186.0	7040.1	2936.6	1452.4	777.2	648.0	525.7	446.4	385.2	353.5
42.5°	19135.4	15886.1	6990.3	2859.5	1375.4	784.0	632.2	514.4	421.5	358.0	330.8
45°	19969.2	16550.0	7058.2	2818.8	1291.6	772.7	636.7	500.8	401.1	339.9	312.7
47.5°	20859.7	17488.1	7278.0	2778.0	1210.0	718.3	670.7	498.5	392.0	328.6	299.1
50°	21895.2	18689.0	7781.0	2678.3	1110.3	659.4	713.8	496.2	380.7	315.0	285.5
52.5°	23275.2	20053.1	8299.9	2503.8	965.3	602.7	682.0	489.4	358.0	299.1	269.6
55°	24514.6	21489.6	8739.5	2297.6	781.7	521.2	614.1	460.0	319.5	271.9	244.7
57.5°	25026.7	22300.8	8725.9	2012.1	625.4	457.7	505.3	421.5	278.7	240.2	217.5
59°	24838.6	22198.9	8433.6	1801.4	571.0	423.7	419.2	416.9	260.6	217.5	199.4
60°	24573.5	21827.3	8118.7	1697.1	537.0	401.1	385.2	412.4	244.7	203.9	185.8
62.5°	23558.4	20286.5	7074.1	1520.4	491.7	339.9	308.2	348.9	217.5	176.7	160.9
65°	22087.8	17918.6	5988.7	1470.6	478.1	281.0	256.0	249.2	185.8	149.5	136.0
67.5°	19219.2	15163.3	4851.3	1436.6	482.6	235.7	224.3	188.1	154.1	124.6	115.6
70°	15387.6	11823.4	3972.1	1398.1	487.2	192.6	188.1	149.5	124.6	104.2	95.2
72.5°	9349.0	7008.4	3126.9	1214.5	473.6	154.1	167.7	113.3	90.6	74.8	70.2
75°	5780.3	4796.9	1939.6	944.9	312.7	113.3	117.8	70.2	61.2	47.6	47.6
77.5°	3349.0	3029.5	693.4	339.9	138.2	68.0	52.1	36.3	34.0	20.4	20.4
80°	1389.0	1112.5	240.2	115.6	74.8	31.7	11.3	2.3	0.0	0.0	0.0
82.5°	405.6	360.3	65.7	52.1	22.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	9967.6	9967.6	9967.6	9967.6	9967.6	9967.6	9967.6	9967.6	9967.6	9967.6	9967.6
2.5°	8062.0	7987.2	7953.3	8068.8	7962.3	8098.3	7994.0	8039.4	8173.0	8232.0	8383.8
5°	6034.1	5957.0	5920.8	6095.2	6086.2	6172.3	6163.2	6242.5	6310.5	6158.7	6315.0
7.5°	4203.2	4151.1	4237.2	4373.2	4518.2	4470.6	4470.6	4364.1	4400.3	4377.7	4370.9
10°	3197.2	3018.2	2972.8	2968.3	3022.7	3034.0	2972.8	2825.6	2879.9	2895.8	2991.0
12.5°	2515.1	2376.9	2166.2	2071.0	2046.1	2066.5	1864.8	1735.7	1796.8	1760.6	1853.5
15°	1803.6	1690.3	1565.7	1459.2	1429.8	1389.0	1169.2	1015.1	997.0	1003.8	1019.6
17.5°	1287.0	1210.0	1210.0	1096.7	1035.5	913.2	802.1	734.1	727.3	734.1	745.5
20°	949.4	908.6	904.1	874.6	806.7	725.1	648.0	634.4	629.9	641.2	645.8
22.5°	818.0	774.9	738.7	736.4	673.0	605.0	568.7	550.6	552.9	557.4	568.7
25°	731.9	686.6	648.0	625.4	580.1	532.5	498.5	489.4	489.4	496.2	498.5
27.5°	670.7	614.1	580.1	548.3	507.6	466.8	437.3	430.5	426.0	430.5	441.8
30°	627.6	571.0	528.0	480.4	448.6	410.1	385.2	376.1	373.9	376.1	385.2
32.5°	537.0	503.0	469.0	426.0	387.5	362.5	335.4	319.5	319.5	324.0	333.1
35°	405.6	387.5	385.2	373.9	342.1	315.0	283.2	267.4	267.4	276.4	281.0
37.5°	358.0	324.0	319.5	315.0	301.4	265.1	235.7	222.1	219.8	226.6	235.7
40°	326.3	287.8	267.4	262.8	265.1	224.3	192.6	179.0	179.0	181.3	190.3
42.5°	301.4	256.0	219.8	215.3	224.3	188.1	156.3	142.8	142.8	142.8	154.1
45°	281.0	228.9	185.8	163.1	176.7	154.1	126.9	113.3	108.8	113.3	117.8
47.5°	267.4	208.5	163.1	131.4	131.4	122.4	102.0	86.1	81.6	83.8	90.6
50°	256.0	190.3	138.2	106.5	95.2	97.4	77.0	65.7	61.2	61.2	68.0
52.5°	237.9	172.2	120.1	90.6	72.5	65.7	56.6	47.6	45.3	47.6	52.1
55°	215.3	156.3	104.2	74.8	56.6	45.3	40.8	34.0	31.7	34.0	40.8
57.5°	190.3	131.4	83.8	58.9	38.5	29.5	27.2	22.7	18.1	20.4	24.9
59°	174.5	117.8	72.5	47.6	29.5	20.4	20.4	15.9	11.3	13.6	20.4
60°	167.7	108.8	61.2	40.8	24.9	15.9	15.9	11.3	6.8	9.1	15.9
62.5°	142.8	90.6	47.6	24.9	11.3	2.3	6.8	2.3	0.0	2.3	6.8
65°	120.1	72.5	31.7	11.3	0.0	0.0	0.0	0.0	0.0	0.0	2.3
67.5°	99.7	54.4	15.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	79.3	36.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	54.4	20.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	34.0	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	13.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P458032
 CATALOG NUMBER: GLAN-SA9B-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9967.6	9967.6	9967.6	9967.6	9967.6	9967.6	9967.6	9967.6	9967.6	9967.6
2.5°	8392.8	8716.9	8916.3	9292.4	9677.6	9974.4	10346.0	10679.1	10817.3	10889.8
5°	6473.6	6924.5	7307.5	7880.7	8413.2	9061.3	9718.4	10493.3	10790.1	10867.2
7.5°	4543.1	5003.1	5404.1	6068.0	6827.1	7694.9	8678.3	9661.7	10094.5	10216.9
10°	3281.0	3772.7	4262.1	4926.0	5635.3	6575.6	7599.8	8816.6	9315.1	9410.2
12.5°	2071.0	2599.0	3394.3	4214.5	4964.6	5721.4	6793.1	8116.4	8667.0	8841.5
15°	1200.9	1595.2	2195.6	3265.1	4219.1	5220.6	6389.8	7853.6	8469.9	8648.9
17.5°	804.4	940.3	1352.7	2170.7	3430.5	4758.4	6287.8	8068.8	8750.8	8979.7
20°	677.5	738.7	883.7	1323.3	2642.0	4346.0	6315.0	8653.4	9548.4	9833.9
22.5°	595.9	652.6	745.5	951.7	1844.4	3833.9	6444.2	9489.5	10645.1	11009.9
25°	525.7	582.3	663.9	788.5	1239.4	3242.5	6727.4	10713.1	12097.6	12498.6
27.5°	466.8	518.9	589.1	695.6	953.9	2583.1	6978.9	11905.0	13423.1	13749.4
30°	412.4	455.4	523.4	605.0	793.1	1991.7	7105.8	12947.3	14388.4	14750.9
32.5°	358.0	398.8	464.5	530.2	652.6	1518.1	7017.4	13713.1	15326.4	15557.6
35°	305.9	348.9	403.3	464.5	564.2	1225.8	6575.6	14574.2	16298.5	16479.8
37.5°	262.8	299.1	355.7	403.3	509.8	981.1	6040.8	15349.1	17388.4	17649.0
40°	222.1	258.3	315.0	358.0	469.0	772.7	5558.2	16210.1	18537.2	18859.0
42.5°	181.3	224.3	274.2	344.4	403.3	589.1	4973.6	16908.0	19400.5	19803.8
45°	145.0	192.6	247.0	342.1	351.2	448.6	4409.4	17451.8	20164.1	20526.6
47.5°	115.6	163.1	237.9	319.5	287.8	355.7	4087.7	18020.6	20798.6	21088.6
50°	92.9	136.0	249.2	281.0	240.2	301.4	4078.6	18655.0	21127.1	21319.7
52.5°	74.8	111.0	210.7	215.3	203.9	265.1	4323.3	19368.8	21462.5	21621.1
55°	63.4	92.9	138.2	158.6	183.5	240.2	4506.8	20467.7	22262.3	22411.9
57.5°	49.8	79.3	106.5	126.9	163.1	219.8	4531.8	21315.2	23275.2	23372.6
59°	43.1	68.0	95.2	113.3	149.5	206.2	4429.8	21367.3	23340.9	23497.2
60°	36.3	61.2	83.8	106.5	138.2	194.9	4318.8	20988.9	23096.2	23270.6
62.5°	27.2	47.6	61.2	86.1	113.3	167.7	3793.1	19667.9	22160.3	22282.7
65°	18.1	34.0	45.3	63.4	88.4	145.0	3090.7	17954.9	20714.7	20988.9
67.5°	11.3	24.9	36.3	47.6	72.5	122.4	2202.4	15396.7	18691.3	18868.0
70°	6.8	15.9	27.2	38.5	56.6	97.4	1307.4	12170.1	15550.8	15587.0
72.5°	4.5	11.3	18.1	27.2	45.3	88.4	634.4	7932.9	11354.3	11787.1
75°	2.3	6.8	11.3	20.4	36.3	72.5	303.6	5299.9	8261.4	8386.0
77.5°	0.0	2.3	6.8	13.6	27.2	56.6	176.7	3480.4	5633.0	5762.1
80°	0.0	0.0	4.5	11.3	20.4	36.3	106.5	2052.9	3412.4	3475.9
82.5°	0.0	0.0	2.3	9.1	13.6	27.2	54.4	901.8	2234.2	2256.8
85°	0.0	0.0	2.3	9.1	11.3	18.1	20.4	122.4	992.5	1010.6
87.5°	0.0	0.0	2.3	11.3	11.3	11.3	11.3	6.8	83.8	104.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)