

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: P458266

Luminaire Tested: **GLAN-SA9C-830-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458266
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: STREETWORKS
Catalog Number: GLAN-SA9C-830-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA 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: 36372 lumens
Efficiency: N/A
Efficacy: 75.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

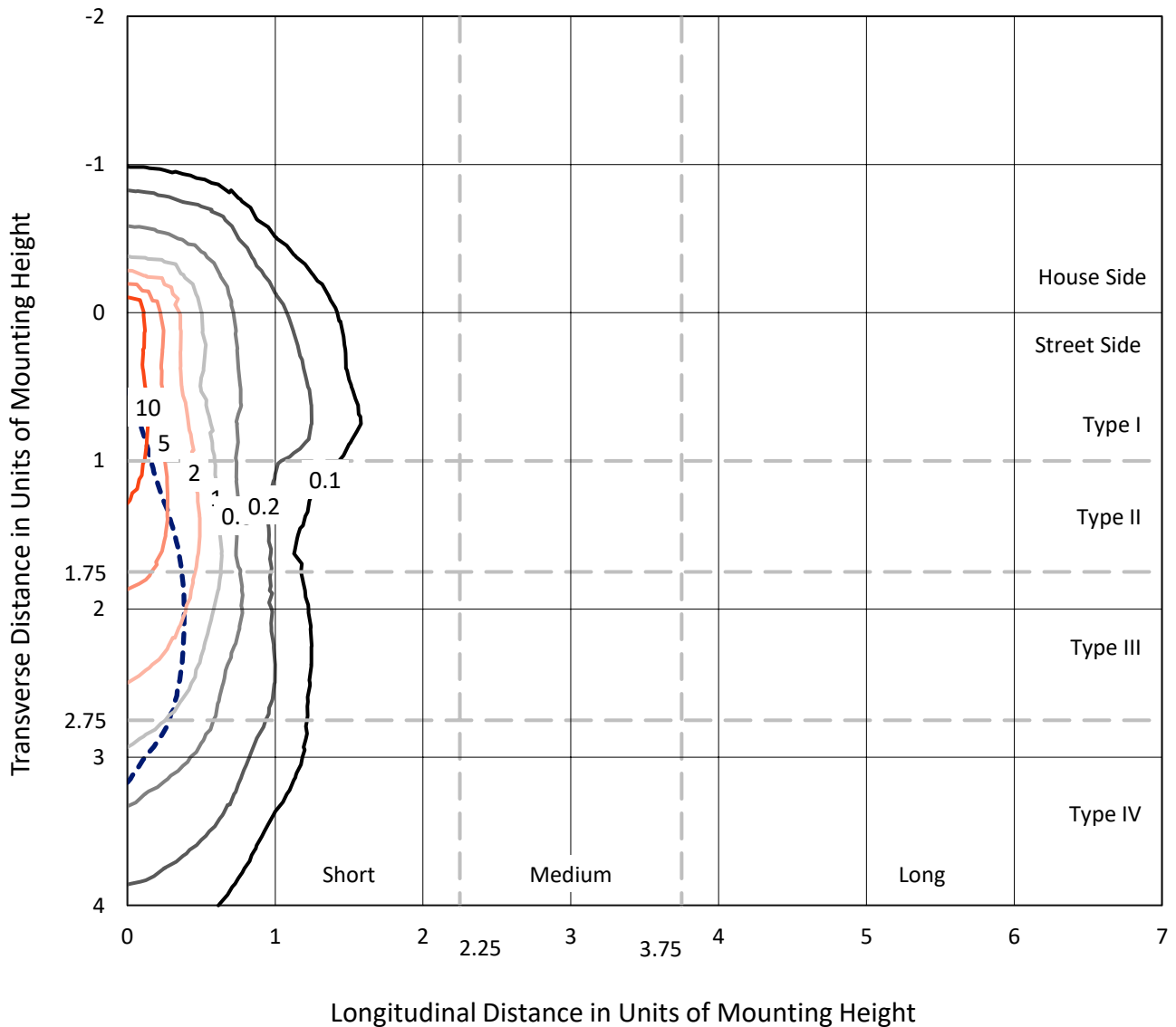
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

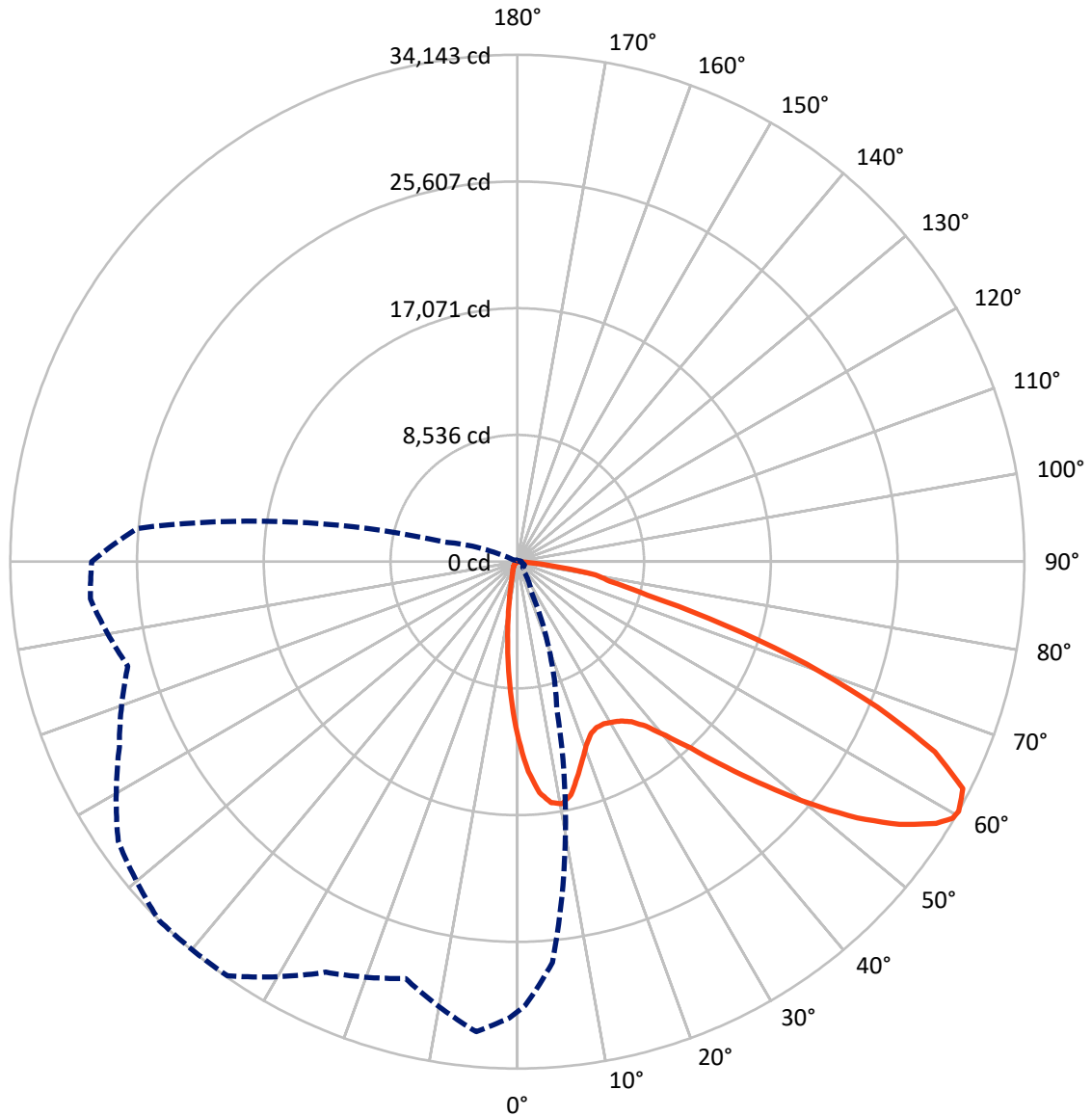
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.2 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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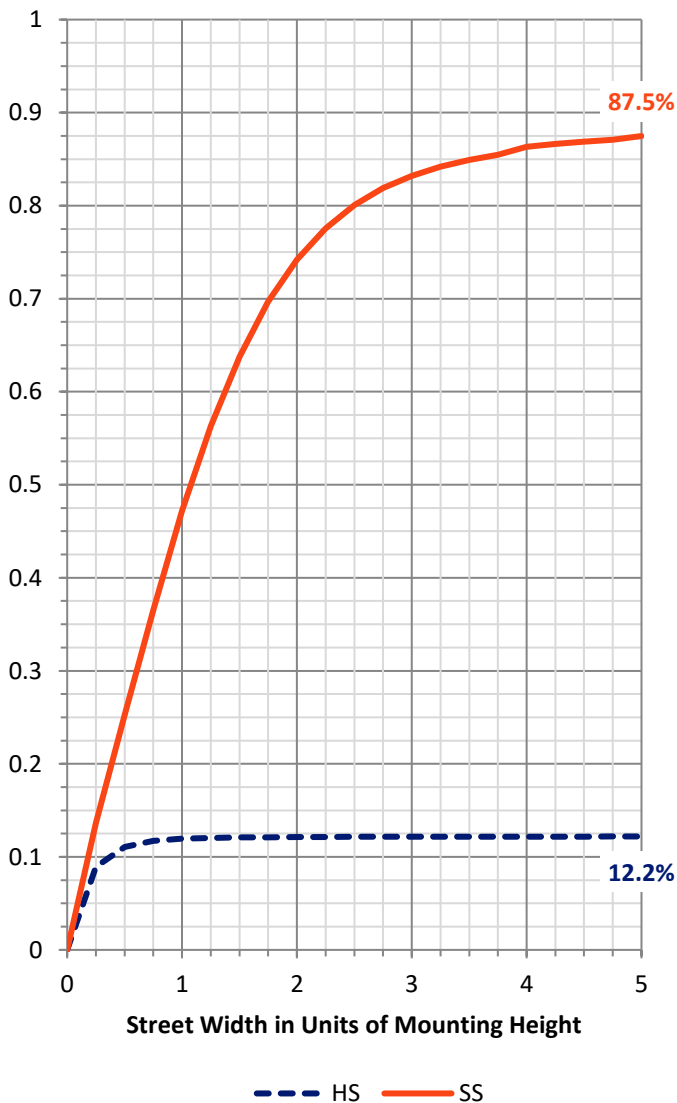
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4486.1	0.0	4486.1
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	31885.9	0.0	31885.9
	% Fixture	87.7	0.0	87.7
Total	Lumens	36372.0	0.0	36372.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	894.1	2.5
10°-20°	1775.7	4.9
20°-30°	2603.7	7.2
30°-40°	3872.1	10.6
40°-50°	5635.2	15.5
50°-60°	8126.4	22.3
60°-70°	8938.1	24.6
70°-80°	4003.6	11.0
80°-90°	523.1	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°	36372.0	100.0
0°-180°	36372.0	100.0



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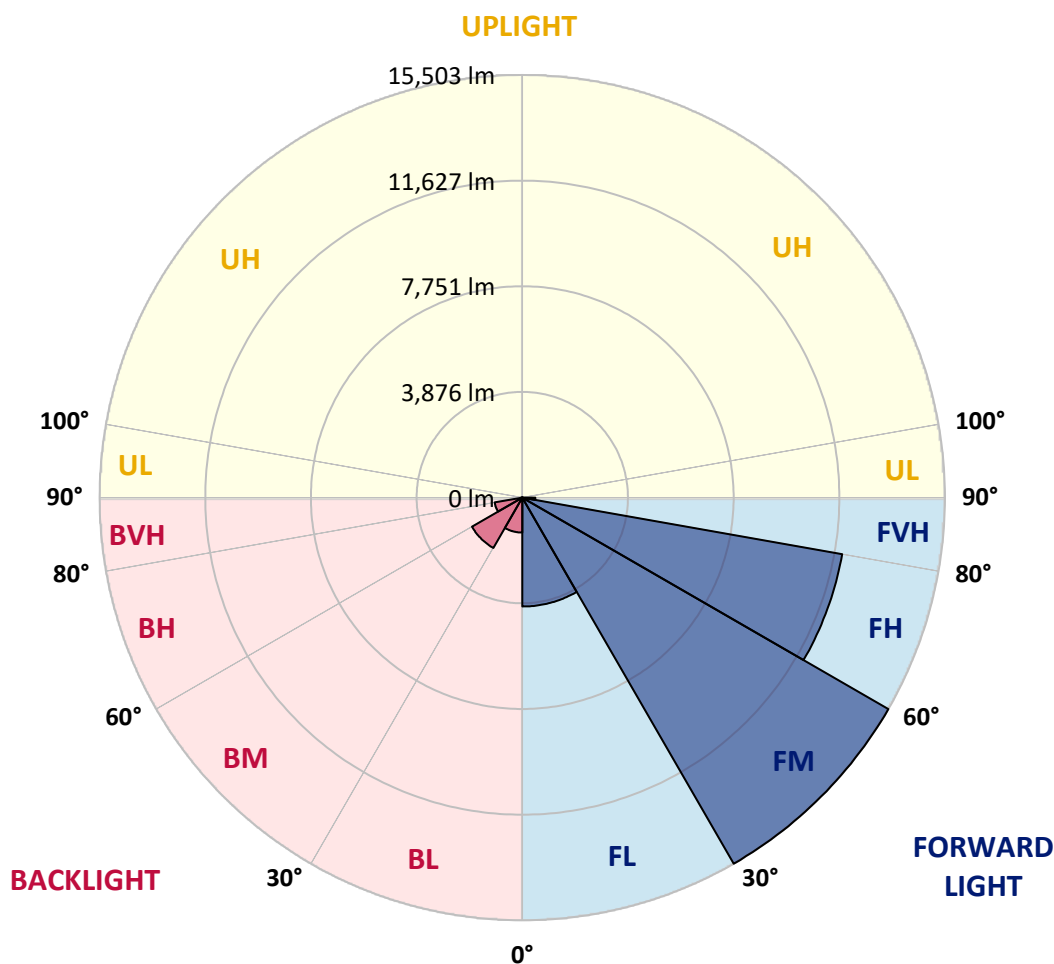
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3991.7	11.0			
FM	(30°-60°)	15502.9	42.6			
FH	(60°-80°)	11912.9	32.8			G4/12000
FVH	(80°-90°)	478.4	1.3			G3/500
BL	(0°-30°)	1281.8	3.5	B3/2500		
BM	(30°-60°)	2130.8	5.9	B2/2500		
BH	(60°-80°)	1028.8	2.8	B3/2500		G3/2500
BVH	(80°-90°)	44.7	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12021.5	12021.5	12021.5	12021.5	12021.5	12021.5	12021.5	12021.5	12021.5	12021.5	12021.5
2.5°	13215.9	13157.8	13025.1	12621.4	12270.3	11811.3	11346.8	10981.9	10757.9	10346.0	10158.0
5°	12803.9	12831.6	12447.2	11617.8	10694.3	10064.0	9375.5	8828.1	8225.4	7843.8	7442.9
7.5°	11728.4	11673.1	11255.6	10099.9	8977.4	8065.0	7194.1	6486.3	6041.1	5684.5	5385.9
10°	10807.7	10766.2	10232.6	8745.1	7539.7	6856.8	6267.9	5648.5	5170.2	4647.7	4230.2
12.5°	10229.9	10135.9	9522.1	7968.2	6986.7	6350.8	5709.4	5065.2	4404.4	3876.3	3370.3
15°	10036.3	9900.8	9217.9	7700.0	6632.8	5825.5	5020.9	4280.0	3519.6	2936.2	2554.7
17.5°	10387.5	10163.5	9436.4	7653.0	6209.8	5139.8	4150.0	3185.1	2394.3	1949.2	1714.2
20°	11192.0	10934.9	9989.3	7606.0	5739.8	4371.2	3154.7	2250.6	1656.1	1412.8	1282.9
22.5°	12386.4	12032.5	10807.7	7680.7	5305.7	3621.9	2278.2	1589.8	1316.1	1164.0	1072.8
25°	13821.4	13525.5	11844.5	7946.1	4962.9	3033.0	1761.2	1299.5	1108.7	1014.7	945.6
27.5°	15394.6	14921.8	13185.5	8264.1	4650.4	2576.8	1545.5	1161.2	987.0	901.3	865.4
30°	16514.3	16146.6	14308.0	8485.3	4260.6	2234.0	1412.8	1144.6	989.8	887.5	821.2
32.5°	17620.2	17150.2	15248.0	8587.6	3975.8	1996.2	1222.1	998.1	868.2	815.6	749.3
35°	18803.6	18311.4	16185.3	8532.3	3762.9	1838.6	1108.7	890.3	743.7	655.3	588.9
37.5°	20000.8	19481.0	17117.0	8333.2	3630.2	1775.0	1020.2	846.0	702.3	611.0	539.1
40°	21421.9	20727.9	17990.7	8170.1	3492.0	1741.8	962.2	818.4	671.9	575.1	503.2
42.5°	22583.1	21922.3	18817.4	8084.4	3398.0	1664.4	962.2	796.3	652.5	544.7	470.0
45°	23683.5	22997.8	19710.4	8153.5	3359.3	1567.7	973.2	793.5	638.7	522.6	447.9
47.5°	24604.2	24009.8	20628.4	8413.4	3309.5	1462.6	915.2	832.2	630.4	503.2	425.8
50°	25690.8	25115.7	21842.1	8938.7	3221.0	1357.5	843.3	895.8	627.6	486.6	406.4
52.5°	27222.5	26600.4	23517.6	9535.9	3080.0	1197.2	776.9	887.5	616.6	459.0	387.1
55°	29094.3	28591.1	25458.5	10252.0	2886.5	1017.5	671.9	788.0	583.4	412.0	353.9
57.5°	30294.2	29865.7	26912.8	10561.6	2590.6	832.2	591.7	660.8	533.6	367.7	315.2
59°	30435.2	30048.1	27217.0	10459.3	2397.1	760.3	553.0	566.8	519.8	342.8	293.1
60°	30316.3	29915.4	27095.3	10260.3	2217.4	710.6	519.8	503.2	522.6	329.0	276.5
62.5°	29553.2	28867.6	25914.7	9251.1	1938.1	652.5	461.7	412.0	461.7	295.8	246.1
65°	28079.6	27051.1	23578.4	7830.0	1827.6	619.3	392.6	345.6	351.1	259.9	212.9
67.5°	25505.5	24208.8	20468.0	6361.9	1780.5	622.1	331.8	309.7	271.0	221.2	188.0
70°	21435.7	20141.8	16423.1	5233.8	1758.4	622.1	282.0	265.4	226.7	185.2	163.1
72.5°	15190.0	13796.5	11078.7	4111.3	1584.2	619.3	240.5	240.5	185.2	154.8	132.7
75°	8582.0	8593.1	6964.6	2908.6	1316.1	511.5	193.5	190.8	135.5	118.9	99.5
77.5°	5001.6	4913.1	4694.7	1249.7	611.0	232.2	135.5	116.1	94.0	85.7	71.9
80°	2571.3	2115.1	2059.8	453.4	218.4	146.5	94.0	66.4	60.8	55.3	49.8
82.5°	760.3	763.1	680.1	182.5	121.7	96.8	47.0	35.9	33.2	30.4	30.4
85°	52.5	33.2	38.7	55.3	74.7	38.7	2.8	8.3	8.3	11.1	13.8
87.5°	5.5	2.8	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°	12021.5	12021.5	12021.5	12021.5	12021.5	12021.5	12021.5	12021.5	12021.5	12021.5	12021.5
2.5°	9950.6	10072.3	9845.5	9851.1	9663.1	9723.9	9502.7	9574.6	9444.6	9544.2	9837.3
5°	7487.2	7514.8	7332.3	7274.3	7301.9	7415.3	7459.5	7257.7	7343.4	7174.7	7163.7
7.5°	5275.3	5308.5	5203.4	5189.6	5388.6	5341.6	5427.4	5220.0	5023.7	5109.4	4951.8
10°	4097.5	3959.2	3743.6	3682.7	3644.0	3668.9	3668.9	3480.9	3453.3	3378.6	3492.0
12.5°	3234.8	3066.2	2861.6	2585.1	2516.0	2510.5	2408.2	2242.3	2189.7	2126.2	2220.2
15°	2350.1	2281.0	2109.6	1954.7	1797.1	1766.7	1600.8	1465.4	1285.6	1260.8	1252.5
17.5°	1653.4	1551.1	1548.3	1459.8	1368.6	1307.8	1152.9	998.1	929.0	920.7	920.7
20°	1238.6	1202.7	1144.6	1133.6	1105.9	1036.8	898.6	815.6	782.4	785.2	796.3
22.5°	1042.3	1017.5	964.9	940.0	929.0	868.2	765.9	710.6	694.0	694.0	696.7
25°	931.7	909.6	851.6	812.9	799.0	754.8	674.6	633.1	619.3	619.3	619.3
27.5°	848.8	821.2	760.3	727.1	702.3	652.5	602.7	561.3	547.4	547.4	550.2
30°	790.7	760.3	705.0	660.8	622.1	577.8	536.4	500.4	483.8	481.1	483.8
32.5°	713.3	685.7	630.4	602.7	558.5	506.0	472.8	439.6	423.0	425.8	423.0
35°	555.7	547.4	508.7	517.0	492.1	447.9	417.5	381.5	362.2	359.4	365.0
37.5°	506.0	472.8	428.5	431.3	423.0	406.4	356.7	318.0	304.1	304.1	306.9
40°	467.3	434.1	384.3	359.4	362.2	362.2	309.7	268.2	254.4	251.6	257.1
42.5°	434.1	400.9	345.6	304.1	293.1	306.9	262.7	221.2	207.4	201.8	207.4
45°	412.0	376.0	312.4	265.4	232.2	248.8	215.7	182.5	165.9	165.9	163.1
47.5°	389.8	356.7	287.5	229.5	193.5	185.2	176.9	146.5	129.9	127.2	129.9
50°	370.5	337.3	259.9	199.1	163.1	143.8	143.8	116.1	105.1	99.5	102.3
52.5°	351.1	315.2	235.0	176.9	141.0	116.1	102.3	94.0	85.7	82.9	85.7
55°	323.5	287.5	210.1	152.1	121.7	96.8	80.2	77.4	71.9	66.4	71.9
57.5°	290.3	257.1	185.2	129.9	96.8	74.7	66.4	63.6	58.1	55.3	55.3
59°	271.0	240.5	171.4	113.4	85.7	66.4	60.8	58.1	52.5	47.0	49.8
60°	259.9	235.0	163.1	105.1	77.4	60.8	55.3	52.5	47.0	44.2	47.0
62.5°	229.5	210.1	143.8	85.7	60.8	44.2	38.7	41.5	38.7	35.9	38.7
65°	201.8	185.2	121.7	66.4	47.0	30.4	27.6	35.9	33.2	30.4	33.2
67.5°	179.7	160.4	102.3	49.8	33.2	16.6	19.4	30.4	30.4	27.6	30.4
70°	154.8	138.2	82.9	35.9	16.6	8.3	13.8	22.1	27.6	24.9	27.6
72.5°	127.2	107.8	63.6	24.9	8.3	0.0	8.3	19.4	27.6	24.9	27.6
75°	99.5	80.2	47.0	13.8	0.0	0.0	2.8	16.6	27.6	24.9	27.6
77.5°	71.9	58.1	27.6	2.8	0.0	0.0	2.8	16.6	27.6	24.9	27.6
80°	47.0	41.5	11.1	0.0	0.0	0.0	2.8	16.6	27.6	27.6	30.4
82.5°	30.4	22.1	0.0	0.0	0.0	0.0	5.5	22.1	30.4	33.2	33.2
85°	13.8	0.0	0.0	0.0	0.0	0.0	11.1	27.6	35.9	35.9	35.9
87.5°	0.0	0.0	0.0	0.0	0.0	5.5	19.4	33.2	41.5	41.5	41.5
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°	12021.5	12021.5	12021.5	12021.5	12021.5	12021.5	12021.5	12021.5	12021.5	12021.5	12021.5
2.5°	9887.0	10061.2	10307.3	10686.1	10993.0	11476.8	11847.3	12353.2	12864.7	13019.6	13260.1
5°	7277.0	7501.0	8059.5	8568.2	8888.9	9911.9	10558.9	11579.1	12494.3	12933.9	13412.2
7.5°	5054.1	5319.5	5745.3	6455.9	7130.5	7962.7	9007.8	10174.6	11515.5	12143.1	12817.7
10°	3547.3	3879.1	4479.0	5062.4	5911.2	6701.9	7733.2	9021.6	10500.8	11241.8	12087.8
12.5°	2239.5	2535.3	3328.9	3984.1	5043.0	5961.0	6912.1	8078.8	9793.0	10553.3	11440.9
15°	1280.1	1528.9	1899.4	2739.9	3915.0	5128.8	6314.9	7669.6	9430.8	10368.1	11327.5
17.5°	953.9	1020.2	1186.1	1661.7	2731.6	4150.0	5764.7	7545.2	9676.9	10777.3	11872.2
20°	801.8	846.0	923.5	1111.5	1741.8	3196.1	5228.3	7567.3	10473.2	11855.6	12895.2
22.5°	718.9	746.5	810.1	931.7	1188.9	2328.0	4600.7	7697.3	11438.1	13179.9	14379.9
25°	630.4	666.3	721.6	826.7	989.8	1614.7	3981.4	7987.6	12790.1	14860.9	15989.0
27.5°	561.3	594.4	649.7	746.5	868.2	1233.1	3259.7	8236.4	14216.7	16553.0	17476.5
30°	492.1	525.3	580.6	658.0	768.6	998.1	2482.8	8383.0	15601.9	17822.1	18532.6
32.5°	434.1	461.7	514.3	583.4	674.6	846.0	1957.5	8230.9	16660.8	18975.0	19450.6
35°	376.0	409.2	453.4	517.0	597.2	721.6	1628.5	7705.6	17570.5	20161.1	20332.5
37.5°	315.2	353.9	400.9	459.0	522.6	663.6	1307.8	7125.0	18543.7	21640.3	21358.3
40°	265.4	301.4	345.6	409.2	467.3	608.3	1006.4	6505.6	19594.3	23028.2	22478.0
42.5°	215.7	254.4	306.9	365.0	461.7	530.8	779.7	5864.2	20537.1	24236.5	23490.0
45°	171.4	204.6	259.9	334.5	459.0	456.2	602.7	5231.1	21247.7	25099.1	24244.8
47.5°	135.5	163.1	218.4	326.2	423.0	387.1	483.8	4838.4	21994.2	25876.0	24822.6
50°	107.8	135.5	188.0	340.1	370.5	331.8	406.4	4902.0	22715.8	26271.4	25060.4
52.5°	91.2	118.9	163.1	268.2	284.8	290.3	356.7	5195.1	23647.6	26694.4	25533.2
55°	80.2	105.1	138.2	188.0	221.2	259.9	326.2	5408.0	24894.5	27601.3	26575.5
57.5°	63.6	91.2	124.4	160.4	182.5	226.7	301.4	5424.6	26022.5	28765.3	27960.7
59°	58.1	82.9	116.1	152.1	163.1	204.6	284.8	5283.6	26064.0	28939.4	28596.6
60°	52.5	80.2	110.6	141.0	154.8	193.5	271.0	5120.5	25688.0	28663.0	28859.3
62.5°	44.2	69.1	96.8	113.4	132.7	160.4	235.0	4528.8	23866.0	27410.5	28372.7
65°	38.7	60.8	82.9	94.0	110.6	138.2	207.4	3624.7	21853.2	25712.9	26979.2
67.5°	35.9	55.3	71.9	80.2	96.8	127.2	185.2	2560.2	19246.0	23559.1	24886.2
70°	33.2	52.5	63.6	74.7	85.7	107.8	157.6	1493.0	14825.0	19782.3	21184.1
72.5°	33.2	49.8	55.3	63.6	74.7	96.8	146.5	807.3	10135.9	15090.4	16901.4
75°	33.2	47.0	49.8	55.3	66.4	88.5	129.9	423.0	6552.6	10484.2	12939.4
77.5°	33.2	44.2	49.8	52.5	63.6	77.4	113.4	265.4	4365.7	7343.4	8745.1
80°	35.9	44.2	47.0	52.5	60.8	71.9	94.0	176.9	2565.8	4418.2	5322.3
82.5°	38.7	44.2	49.8	55.3	63.6	69.1	82.9	110.6	1183.3	2922.4	3306.7
85°	41.5	47.0	52.5	58.1	66.4	69.1	77.4	80.2	193.5	1318.8	1783.3
87.5°	44.2	49.8	55.3	60.8	71.9	71.9	71.9	71.9	66.4	141.0	359.4
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: P458266

CATALOG NUMBER: GLAN-SA9C-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12021.5	12021.5	12021.5	12021.5	12021.5	12021.5	12021.5	12021.5	12021.5	12021.5
2.5°	13564.2	13876.7	14095.1	14150.4	13992.8	13920.9	13721.8	13412.2	13224.2	13215.9
5°	14294.2	15026.8	15535.6	15621.3	15317.1	14802.9	14191.9	13403.9	12942.2	12803.9
7.5°	14169.7	15452.6	16271.0	16389.9	15878.4	14896.9	13713.5	12444.5	11941.3	11728.4
10°	13658.2	15223.1	16392.7	16580.7	15897.8	14515.3	13011.3	11595.7	10970.8	10807.7
12.5°	13221.4	14802.9	15842.5	16102.3	15585.3	14205.7	12591.0	11051.0	10381.9	10229.9
15°	13030.6	14305.2	14941.1	15073.8	14988.1	14012.1	12546.8	10968.1	10202.2	10036.3
17.5°	13221.4	13882.2	13962.4	14097.9	14288.6	13992.8	12972.6	11418.7	10592.1	10387.5
20°	13721.8	13514.5	13182.7	13240.8	13677.6	14073.0	13730.1	12416.8	11410.4	11192.0
22.5°	14573.4	13423.2	12671.2	12621.4	13174.4	14341.2	14841.6	13768.8	12602.1	12386.4
25°	15618.5	13652.7	12483.2	12375.4	12978.1	14733.8	16049.8	15425.0	14150.4	13821.4
27.5°	16757.6	14128.3	12483.2	12378.1	12961.5	15082.1	17083.9	16890.3	15754.0	15394.6
30°	17382.5	14520.9	12662.9	12544.0	13166.1	15284.0	17636.8	18192.6	16959.4	16514.3
32.5°	17941.0	15065.5	13014.0	12790.1	13594.7	15582.6	18131.7	19298.5	17918.8	17620.2
35°	18455.2	15648.9	13497.9	13238.0	14158.7	15991.8	18679.2	20459.7	19254.3	18803.6
37.5°	19022.0	16326.3	14252.7	14031.5	15101.5	16788.0	19328.9	21985.9	20567.5	20000.8
40°	19638.6	17111.5	15494.1	15400.1	16600.0	17689.4	20150.1	23614.4	22066.1	21421.9
42.5°	20266.2	18015.6	17014.7	17169.6	18297.6	18952.9	20993.3	24866.9	23293.7	22583.1
45°	20835.7	19171.3	18991.6	19757.5	20277.2	20186.0	21618.2	25748.8	24363.7	23683.5
47.5°	21554.6	20855.1	21383.2	22563.7	22577.6	21526.9	22091.0	26470.4	25284.3	24604.2
50°	22359.2	22843.0	24471.5	25674.2	25350.7	22845.8	22643.9	27324.8	26235.4	25690.8
52.5°	23290.9	25068.7	27324.8	28660.2	27905.4	24283.5	23564.6	28248.2	27745.0	27222.5
55°	24374.7	26586.6	30169.8	31234.2	30473.9	26069.5	24963.6	29500.7	29450.9	29094.3
57.5°	25599.5	28190.2	31817.6	33258.1	32580.7	28165.3	26918.4	30681.3	30493.3	30294.2
59°	26567.2	29014.1	32544.8	34037.8	33628.6	29633.4	28231.6	31416.7	30733.8	30435.2
60°	27153.4	29572.6	32813.0	34142.8	34048.8	30507.1	29063.9	31776.2	30731.0	30316.3
62.5°	28892.4	30548.6	32710.7	33675.6	34043.3	32182.6	31505.2	32171.5	30161.5	29553.2
65°	29511.8	30225.1	31015.8	30896.9	31212.1	32096.9	33064.6	31737.4	28945.0	28079.6
67.5°	28306.3	26677.8	26957.1	26163.6	26008.7	28535.8	32431.4	29614.1	26564.5	25505.5
70°	23860.5	20437.6	20296.6	20661.5	19660.7	23102.9	29121.9	25524.9	22635.6	21435.7
72.5°	18781.5	14443.5	13254.6	14598.3	14567.9	17625.8	24192.2	18112.4	15292.3	15190.0
75°	14769.7	10055.7	8825.3	9043.7	9464.0	12759.7	19268.1	11501.7	9417.0	8582.0
77.5°	9914.7	7125.0	6646.6	6378.5	6831.9	8192.2	12190.1	6237.4	5280.8	5001.6
80°	5714.9	5175.8	5878.0	5336.1	5579.4	5161.9	6063.3	2861.6	2375.0	2571.3
82.5°	3718.7	2947.3	3140.8	2333.5	3190.6	3218.3	1946.4	846.0	716.1	760.3
85°	2325.2	1382.4	776.9	553.0	1100.4	2023.9	608.3	52.5	60.8	52.5
87.5°	602.7	229.5	96.8	143.8	176.9	157.6	141.0	8.3	2.8	5.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)