

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: P454640

Luminaire Tested: **GLAN-SA5D-730-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454640
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5D-730-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30412 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

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

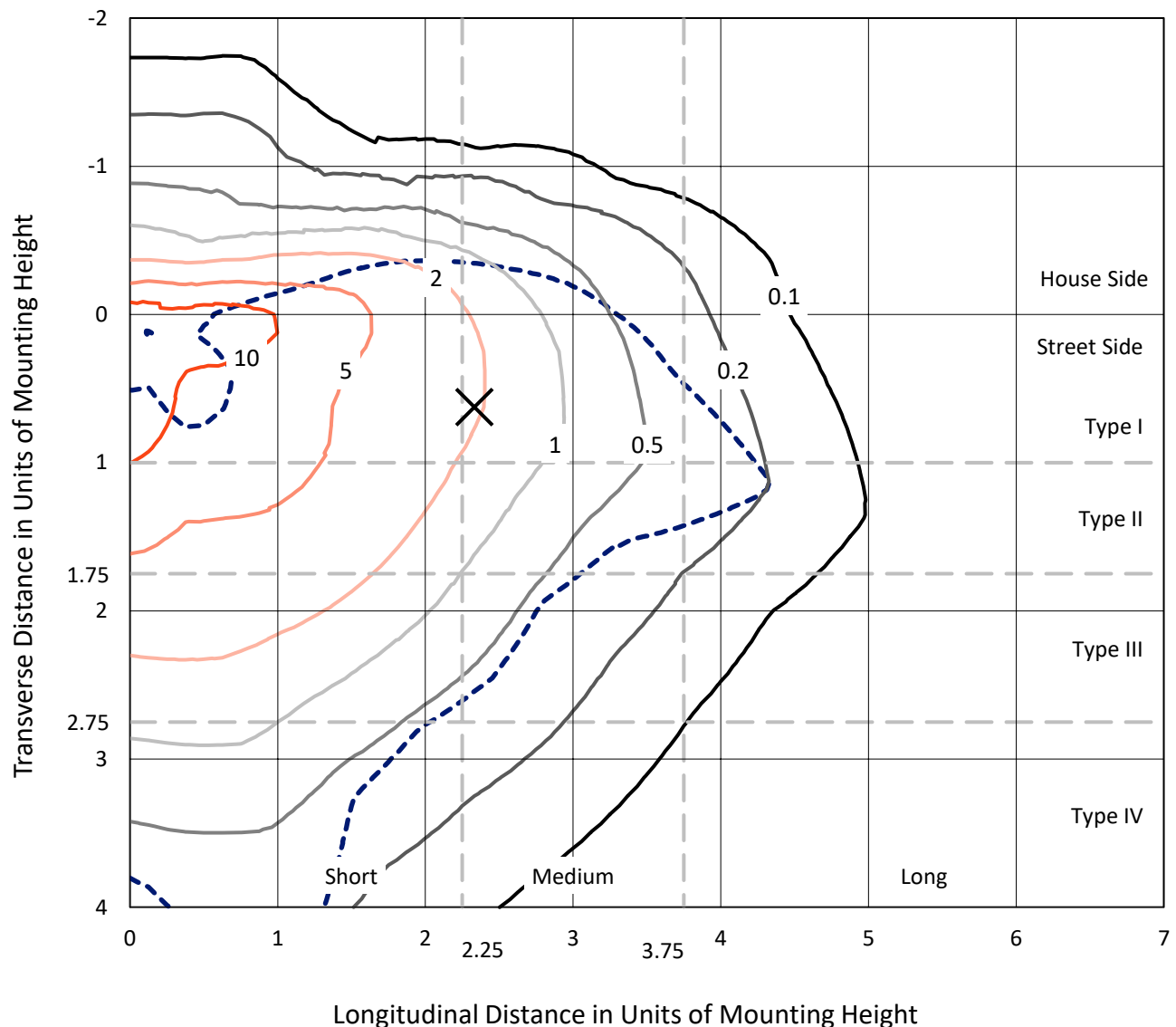


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

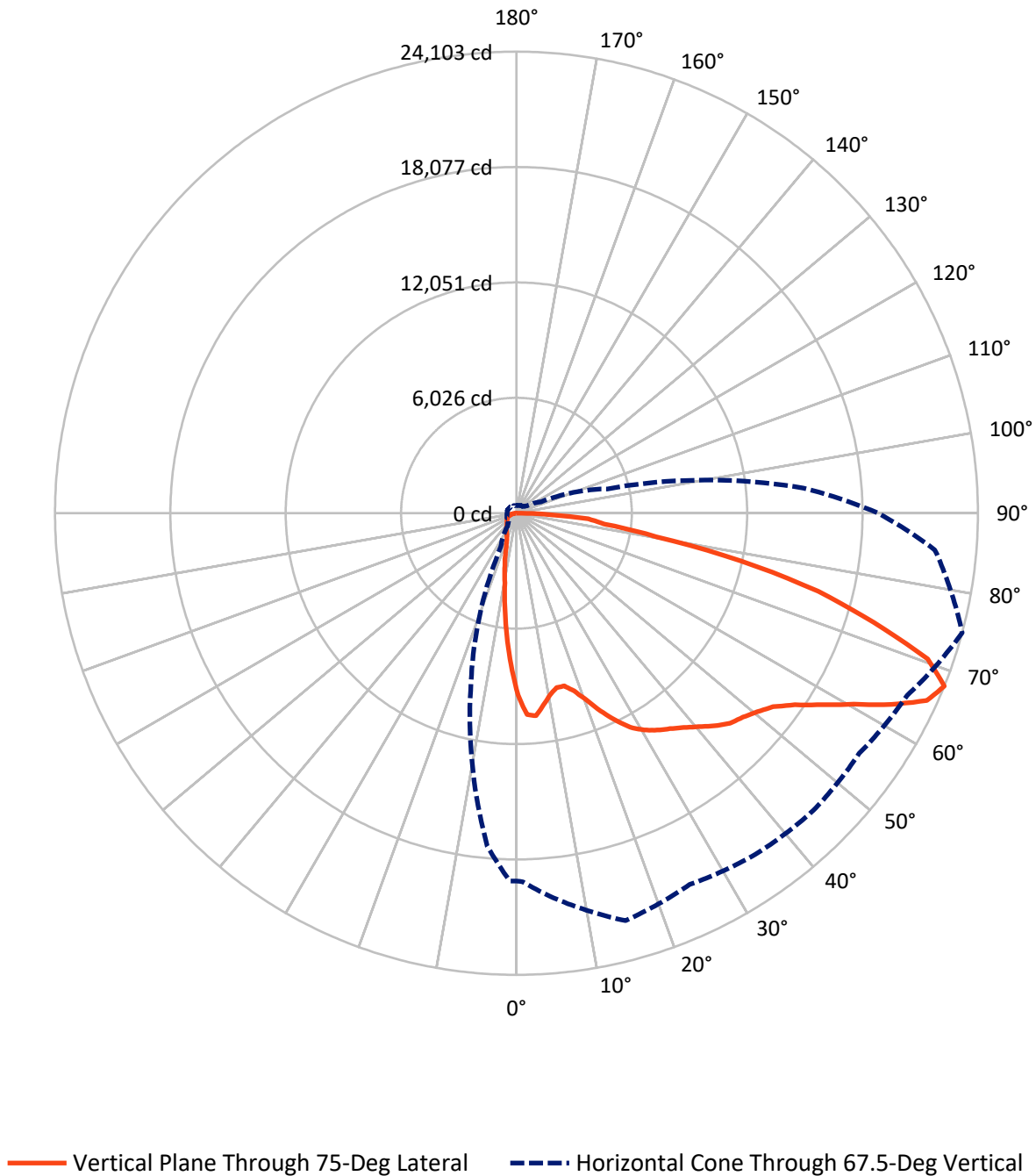


Based on 25 foot mounting height. Maximum calculated value = 18.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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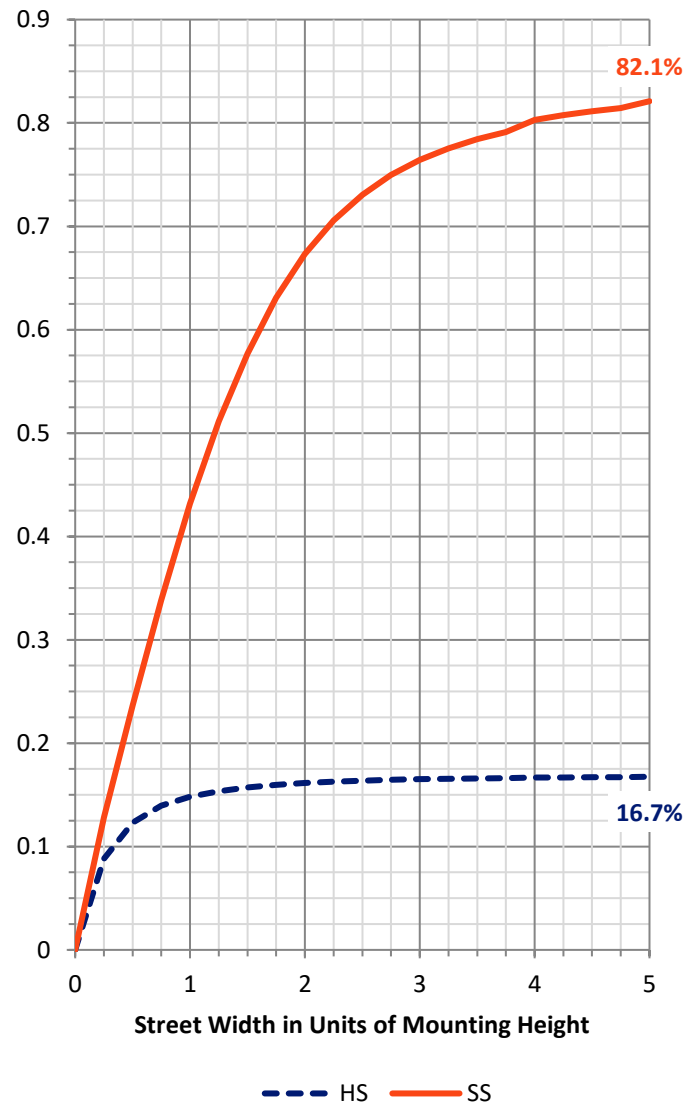
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5140.3	0.0	5140.3
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	25271.7	0.0	25271.7
	% Fixture	83.1	0.0	83.1
Total	Lumens	30412.0	0.0	30412.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	720.7	2.4
10°-20°	1503.0	4.9
20°-30°	2162.8	7.1
30°-40°	3115.0	10.2
40°-50°	4375.7	14.4
50°-60°	6102.6	20.1
60°-70°	7255.6	23.9
70°-80°	4273.1	14.1
80°-90°	903.6	3.0
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°	30412.0	100.0
0°-180°	30412.0	100.0

Coefficient of Utilization



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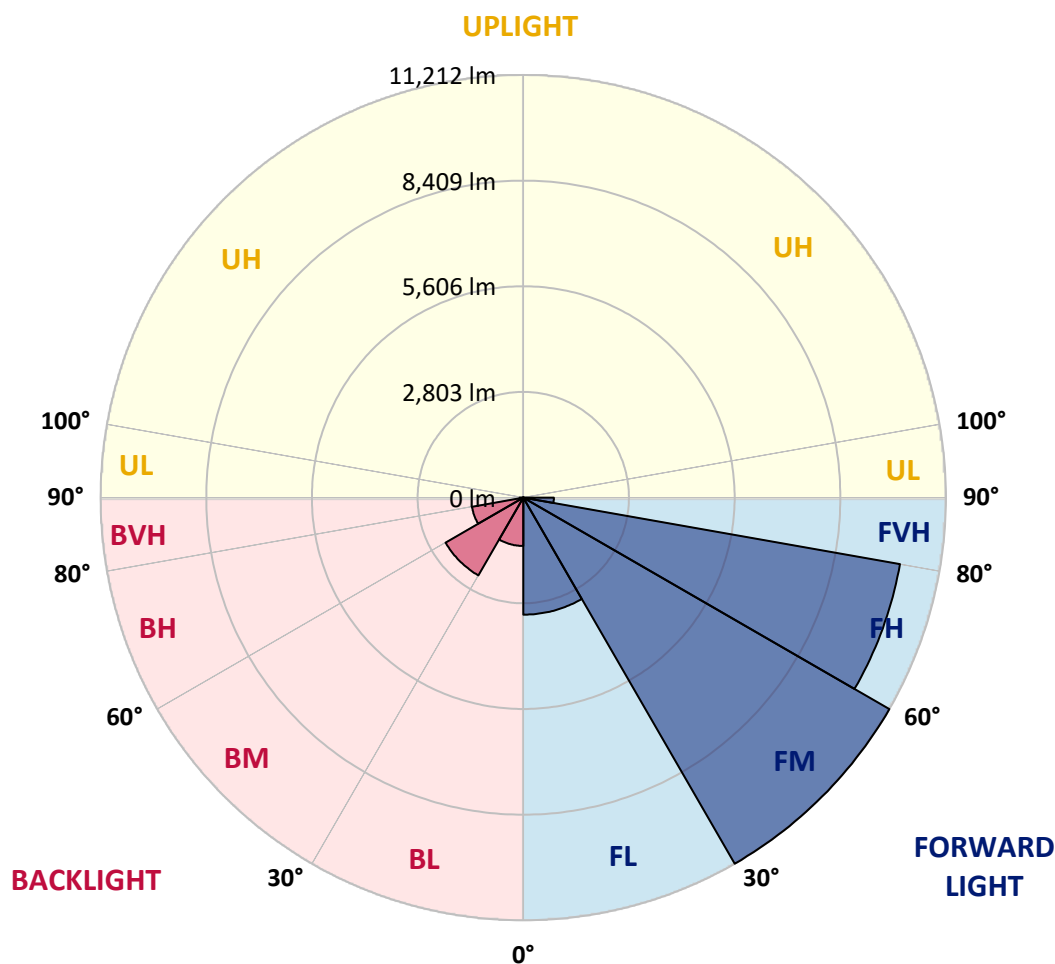
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3104.2	10.2			
FM	(30°-60°)	11211.8	36.9			
FH	(60°-80°)	10145.6	33.4			G4/12000
FVH	(80°-90°)	810.1	2.7			G5
BL	(0°-30°)	1282.1	4.2	B3/2500		
BM	(30°-60°)	2381.5	7.8	B2/2500		
BH	(60°-80°)	1383.1	4.5	B3/2500		G3/2500
BVH	(80°-90°)	93.5	0.3			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9501.4	9501.4	9501.4	9501.4	9501.4	9501.4	9501.4	9501.4	9501.4	9501.4	9501.4
2.5°	10244.5	10258.1	10345.9	10601.3	10776.9	10841.2	10886.1	10802.2	10720.3	10521.4	10221.1
5°	10213.3	10293.2	10521.4	11094.8	11547.2	11742.2	11800.7	11549.2	11133.8	10622.8	10008.5
7.5°	9616.5	9723.8	10074.8	11036.2	11833.9	12290.2	12229.8	11775.4	11026.5	10115.7	9257.7
10°	8908.6	9027.5	9450.7	10613.0	11640.8	12268.8	12268.8	11714.9	10720.3	9637.9	8649.2
12.5°	8346.9	8471.7	8955.4	10178.2	11239.1	11833.9	11933.3	11457.5	10499.9	9335.7	8249.4
15°	8161.6	8282.5	8803.3	9914.9	10813.9	11176.7	11209.8	11053.8	10392.7	9357.1	8231.8
17.5°	8391.8	8547.8	9074.3	9992.9	10423.9	10445.3	10470.7	10593.5	10404.4	9749.1	8586.8
20°	9056.8	9224.5	9774.5	10244.5	10082.6	9860.3	9873.9	10189.9	10542.8	10396.6	9435.1
22.5°	10016.3	10162.6	10726.2	10687.2	9938.3	9480.0	9384.4	9825.2	10747.6	11204.0	10338.1
25°	11051.8	11223.5	11870.9	11344.4	9979.2	9253.8	9193.3	9610.6	10960.2	11958.7	11381.4
27.5°	12237.6	12405.3	12916.2	12007.4	10193.8	9236.2	9164.0	9591.1	11151.3	12656.9	12378.0
30°	13119.1	13273.1	13620.3	12565.2	10457.0	9353.2	9263.5	9745.2	11315.1	13134.7	13349.2
32.5°	13811.4	13971.3	14160.5	12912.3	10804.2	9565.8	9400.0	10026.0	11529.6	13499.4	14068.8
35°	14533.0	14722.1	14708.5	13220.5	11127.9	9811.5	9649.6	10431.7	11867.0	13817.2	14981.5
37.5°	15447.6	15523.7	15426.2	13497.4	11516.0	10254.2	10164.5	11034.3	12346.8	14201.4	16048.3
40°	16375.9	16528.0	16026.8	13832.8	11987.9	11087.0	11077.2	11925.5	12916.2	14651.9	17081.9
42.5°	17171.6	17300.3	16588.5	14125.4	12559.4	12103.0	12177.1	13121.0	13663.2	15174.6	17912.7
45°	17770.3	17885.4	17107.3	14408.2	13312.1	13277.0	13713.9	14402.3	14605.1	15644.6	18400.2
47.5°	18279.3	18390.5	17468.0	14837.2	14242.4	14679.2	15439.8	15738.2	15410.6	15913.7	18946.3
50°	18708.4	18741.5	17715.7	15348.2	15396.9	16397.4	17134.6	17327.6	16206.3	16299.9	19420.2
52.5°	19155.0	19112.1	18142.8	15991.7	16645.1	18027.8	18564.1	18764.9	16968.8	16775.7	20110.6
55°	20155.4	20196.4	19100.4	16803.0	17906.8	19628.9	20334.9	20141.8	17813.2	17651.4	20988.2
57.5°	21364.6	21329.5	20448.0	18072.6	19192.0	21118.8	21645.4	21335.3	18940.5	18854.6	21877.5
60°	21834.6	21881.4	21575.2	19437.8	20459.7	22423.5	22961.8	22480.1	20291.9	20252.9	22548.3
62.5°	21362.6	21625.9	21832.6	20652.7	21540.1	23383.0	23917.4	23367.4	21701.9	21984.7	23018.3
65°	20422.6	20479.2	21183.2	21682.4	22060.8	23541.0	23819.9	23527.3	22879.9	23562.5	22996.9
67.5°	19201.8	19250.5	20075.5	22019.8	21389.9	21746.8	21941.8	21856.0	22515.2	24102.7	21937.9
70°	18039.5	18000.4	18872.2	21159.8	18620.6	18078.5	18240.3	17971.2	19428.0	22782.4	19860.9
72.5°	15777.2	15917.6	16853.7	18768.8	14743.6	13862.1	14215.1	13518.9	14942.5	19511.9	16120.4
75°	12358.5	12391.6	13953.8	15751.9	11122.1	9731.6	10209.4	9918.8	11445.8	16276.5	11131.8
77.5°	8557.5	8483.4	10162.6	12030.9	7931.5	7124.1	7131.9	6993.5	7992.0	11984.0	7562.9
80°	5435.2	5322.1	6361.6	7432.3	5450.8	5831.1	5640.0	5634.2	5203.2	7393.3	4573.2
82.5°	2937.0	3061.8	4019.4	4659.1	3910.2	4506.9	4130.5	4009.6	3570.8	4627.9	2925.3
85°	1337.8	1454.9	2143.3	3169.1	2970.2	3003.3	2006.8	2367.6	2954.6	3758.1	1562.1
87.5°	130.7	167.7	442.7	1495.8	1014.1	799.6	298.4	575.3	743.0	1335.9	124.8
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°	9501.4	9501.4	9501.4	9501.4	9501.4	9501.4	9501.4	9501.4	9501.4	9501.4	9501.4
2.5°	10098.2	9996.8	9651.6	9366.9	9064.6	8834.5	8534.1	8333.3	8194.8	7986.1	7960.8
5°	9634.0	9386.4	8785.7	8173.3	7644.8	7247.0	6843.3	6472.8	6254.3	6186.1	6098.3
7.5°	8852.0	8434.7	7662.4	6960.3	6353.8	5760.9	5304.6	4980.8	4764.4	4637.6	4485.5
10°	8208.4	7724.8	6784.8	5924.7	5425.5	5056.9	4655.2	4308.0	4040.8	3812.7	3687.8
12.5°	7775.5	7229.4	6172.4	5474.2	5088.1	4696.1	4226.1	3836.1	3442.1	3182.7	3071.6
15°	7644.8	7067.6	5983.2	5250.0	4696.1	4183.2	3656.6	3147.6	2757.6	2511.9	2430.0
17.5°	7964.7	7266.5	5981.3	4951.6	4235.9	3623.5	2948.7	2470.9	2071.1	1887.8	1829.3
20°	8561.4	7648.7	5998.8	4657.1	3736.6	2874.6	2145.2	1753.2	1562.1	1484.1	1454.9
22.5°	9394.2	8231.8	6051.5	4366.5	3190.5	2207.6	1607.0	1408.1	1339.8	1326.1	1320.3
25°	10420.0	8953.4	6229.0	4105.2	2730.3	1685.0	1343.7	1254.0	1215.0	1201.3	1199.4
27.5°	11363.9	9885.6	6443.5	3880.9	2285.6	1452.9	1215.0	1138.9	1099.9	1098.0	1101.9
30°	12216.1	10665.7	6622.9	3629.3	1948.3	1291.0	1131.1	1055.1	1018.0	1016.1	1027.8
32.5°	12953.3	11307.3	6755.5	3381.7	1761.0	1191.6	1055.1	973.2	942.0	936.1	942.0
35°	13741.2	11947.0	6695.1	3188.6	1653.8	1109.7	998.5	918.5	881.5	863.9	863.9
37.5°	14640.2	12606.2	6591.7	3028.7	1605.0	1041.4	949.8	871.7	834.7	817.1	815.2
40°	15621.2	13265.3	6449.3	2886.3	1556.3	1000.5	916.6	834.7	789.8	772.3	768.4
42.5°	16487.1	13828.9	6332.3	2792.7	1476.3	1008.3	887.3	807.4	750.8	727.4	725.5
45°	17239.9	14396.5	6310.9	2738.1	1410.0	996.6	879.5	785.9	719.6	694.3	690.4
47.5°	17828.8	14987.4	6433.7	2706.9	1337.8	934.2	930.3	772.3	692.3	665.0	661.1
50°	18546.5	15826.0	6714.6	2642.5	1271.5	875.6	982.9	770.3	670.9	635.8	626.0
52.5°	19502.1	16918.1	7094.9	2527.5	1176.0	821.0	938.1	770.3	645.5	610.4	598.7
55°	20947.2	18310.5	7467.4	2365.6	1041.4	748.9	846.4	746.9	608.5	577.3	569.5
57.5°	21904.8	19328.5	7705.3	2141.3	873.7	696.2	729.4	709.9	571.4	538.3	538.3
60°	21953.5	19601.6	7592.2	1858.6	768.4	647.5	633.8	715.7	538.3	503.2	499.3
62.5°	21391.9	18932.6	7003.2	1605.0	711.8	594.8	573.4	628.0	505.1	470.0	464.2
65°	20514.3	17226.2	5981.3	1484.1	680.6	548.0	516.8	514.9	470.0	436.8	429.0
67.5°	18901.4	15053.7	4914.5	1413.9	665.0	495.4	466.1	456.3	429.0	401.7	397.8
70°	16524.1	12608.1	3941.4	1384.6	657.2	440.7	417.3	405.6	382.2	360.8	358.8
72.5°	12855.8	10226.9	3253.0	1365.1	653.3	390.0	364.7	349.1	335.4	315.9	315.9
75°	9234.2	7523.9	2482.6	1230.6	604.6	335.4	308.1	298.4	278.9	263.3	267.2
77.5°	5821.4	5066.6	1634.3	904.9	468.1	269.1	245.7	239.9	224.3	202.8	216.5
80°	3931.6	3563.0	953.7	569.5	294.5	197.0	189.2	187.2	169.7	146.3	148.2
82.5°	2675.7	2625.0	495.4	323.7	169.7	115.1	111.2	115.1	95.6	78.0	78.0
85°	1045.3	1427.6	234.0	126.8	54.6	17.6	25.4	27.3	15.6	7.8	9.8
87.5°	19.5	146.3	5.9	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°	9501.4	9501.4	9501.4	9501.4	9501.4	9501.4	9501.4	9501.4	9501.4	9501.4	9501.4
2.5°	7921.8	7904.2	7933.5	7808.6	7834.0	7880.8	7904.2	7917.9	8110.9	8066.1	8188.9
5°	6180.2	6162.7	6275.8	6291.4	6349.9	6338.2	6394.7	6408.4	6478.6	6504.0	6675.6
7.5°	4495.2	4571.3	4700.0	4766.3	4865.8	4897.0	4867.7	4939.9	4793.6	4898.9	4930.1
10°	3611.8	3520.1	3465.5	3617.6	3637.1	3781.5	3723.0	3676.1	3762.0	3765.9	3847.8
12.5°	3007.2	2810.3	2679.6	2722.5	2769.3	2831.7	2841.5	2935.1	2997.5	3056.0	3104.7
15°	2357.8	2289.5	2170.6	2112.1	2178.4	2203.7	2264.2	2342.2	2408.5	2426.1	2492.4
17.5°	1809.8	1821.5	1802.0	1766.9	1807.8	1827.3	1831.2	1833.2	1850.8	1839.0	1936.6
20°	1456.8	1497.8	1546.5	1554.3	1568.0	1577.7	1560.2	1493.9	1495.8	1536.8	1568.0
22.5°	1318.3	1326.1	1380.7	1398.3	1441.2	1423.7	1372.9	1341.7	1337.8	1347.6	1363.2
25°	1209.1	1220.8	1259.8	1287.1	1320.3	1289.1	1252.0	1222.8	1218.9	1228.6	1244.2
27.5°	1111.6	1129.2	1164.3	1191.6	1222.8	1193.5	1158.4	1133.1	1131.1	1129.2	1138.9
30°	1033.6	1053.1	1078.5	1109.7	1131.1	1105.8	1072.6	1059.0	1057.0	1053.1	1057.0
32.5°	955.6	986.8	1012.2	1027.8	1049.2	1029.7	1004.4	996.6	982.9	971.2	965.4
35°	867.8	901.0	940.0	959.5	981.0	961.5	943.9	910.7	887.3	885.4	889.3
37.5°	817.1	830.8	862.0	895.1	916.6	906.8	873.7	840.5	834.7	834.7	838.6
40°	772.3	778.1	791.8	834.7	873.7	844.4	803.5	793.7	793.7	791.8	793.7
42.5°	727.4	733.3	733.3	766.4	828.8	782.0	750.8	750.8	750.8	752.8	758.6
45°	686.5	688.4	686.5	709.9	768.4	729.4	707.9	713.8	717.7	721.6	725.5
47.5°	651.4	653.3	651.4	670.9	700.1	684.5	672.8	680.6	688.4	694.3	698.2
50°	620.2	618.2	622.1	633.8	647.5	651.4	643.6	655.3	659.2	667.0	676.7
52.5°	592.9	590.9	594.8	600.7	620.2	620.2	620.2	629.9	637.7	645.5	659.2
55°	561.7	563.6	569.5	577.3	602.6	598.7	600.7	608.5	616.3	628.0	635.8
57.5°	532.4	536.3	544.1	555.8	581.2	579.2	581.2	585.1	594.8	600.7	608.5
60°	499.3	507.1	516.8	524.6	550.0	548.0	557.8	565.6	571.4	571.4	575.3
62.5°	466.1	477.8	487.6	493.4	520.7	522.7	536.3	542.2	546.1	542.2	548.0
65°	432.9	450.5	454.4	462.2	489.5	491.5	507.1	520.7	516.8	512.9	522.7
67.5°	399.8	421.2	419.3	429.0	456.3	460.2	473.9	497.3	489.5	485.6	493.4
70°	362.7	378.3	380.3	386.1	423.2	417.3	438.8	460.2	454.4	456.3	456.3
72.5°	321.8	335.4	335.4	347.1	386.1	376.4	393.9	417.3	417.3	415.4	415.4
75°	273.0	280.8	288.6	306.2	347.1	335.4	347.1	368.6	372.5	368.6	368.6
77.5°	220.4	232.1	236.0	259.4	288.6	286.7	298.4	308.1	315.9	312.0	312.0
80°	156.0	167.7	183.3	208.7	226.2	232.1	237.9	245.7	249.6	249.6	253.5
82.5°	87.8	105.3	119.0	144.3	152.1	181.4	179.4	185.3	179.4	158.0	175.5
85°	19.5	37.1	52.7	66.3	76.1	105.3	111.2	124.8	103.4	95.6	95.6
87.5°	0.0	0.0	0.0	0.0	0.0	15.6	31.2	42.9	37.1	31.2	31.2
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: P454640

CATALOG NUMBER: GLAN-SA5D-730-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9501.4	9501.4	9501.4	9501.4	9501.4	9501.4	9501.4	9501.4	9501.4	9501.4
2.5°	8292.3	8462.0	8666.7	9019.7	9267.4	9534.6	9803.7	10090.4	10166.5	10244.5
5°	6722.4	7055.9	7237.2	7711.1	8208.4	8840.3	9357.1	9922.7	10158.6	10213.3
7.5°	5092.0	5318.2	5794.1	6273.8	6890.1	7553.2	8345.0	9226.4	9501.4	9616.5
10°	4036.9	4345.1	4762.4	5277.3	5817.5	6531.3	7424.5	8454.2	8844.2	8908.6
12.5°	3436.3	3779.5	4233.9	4778.0	5289.0	5827.2	6728.2	7791.1	8208.4	8346.9
15°	2747.8	3163.2	3687.8	4261.2	4817.0	5406.0	6318.7	7518.1	7999.8	8161.6
17.5°	2158.9	2494.3	3061.8	3683.9	4343.1	5088.1	6232.9	7648.7	8241.6	8391.8
20°	1651.8	1891.7	2369.5	3026.7	3799.0	4774.1	6254.3	8142.1	8852.0	9056.8
22.5°	1427.6	1550.4	1841.0	2467.0	3331.0	4501.1	6342.1	8818.9	9675.0	10016.3
25°	1293.0	1357.3	1521.2	1930.7	2884.4	4235.9	6543.0	9729.6	10825.6	11051.8
27.5°	1177.9	1224.7	1326.1	1620.6	2478.7	3990.1	6777.0	10739.8	11900.2	12237.6
30°	1068.7	1131.1	1226.7	1439.3	2219.3	3765.9	7071.5	11558.9	12805.1	13119.1
32.5°	984.9	1047.3	1135.0	1312.5	1999.0	3529.9	7247.0	12278.5	13544.2	13811.4
35°	916.6	969.3	1060.9	1211.1	1831.2	3350.5	7211.9	12849.9	14259.9	14533.0
37.5°	867.8	912.7	1004.4	1115.5	1704.5	3163.2	7194.3	13604.7	15131.7	15447.6
40°	823.0	869.8	953.7	1053.1	1577.7	2942.9	7204.1	14353.6	16060.0	16375.9
42.5°	787.9	840.5	908.8	1035.6	1447.1	2765.4	7204.1	15004.9	16867.4	17171.6
45°	758.6	815.2	881.5	1033.6	1343.7	2630.8	7155.3	15564.6	17510.9	17770.3
47.5°	733.3	795.7	891.2	998.5	1318.3	2533.3	7112.4	16013.2	18035.6	18279.3
50°	715.7	789.8	947.8	957.6	1326.1	2504.1	7319.1	16578.7	18497.8	18708.4
52.5°	702.1	791.8	945.9	897.1	1312.5	2523.6	7750.1	17462.2	19139.4	19155.0
55°	674.8	789.8	897.1	828.8	1255.9	2556.7	8304.0	18745.4	20143.7	20155.4
57.5°	647.5	768.4	832.7	770.3	1140.9	2556.7	8971.0	19960.4	21354.8	21364.6
60°	620.2	799.6	731.3	719.6	990.7	2509.9	9675.0	20494.8	21735.1	21834.6
62.5°	592.9	805.4	653.3	674.8	881.5	2396.8	10199.6	19903.9	21220.2	21362.6
65°	561.7	649.4	602.6	628.0	824.9	2207.6	10033.8	18821.5	20252.9	20422.6
67.5°	524.6	550.0	548.0	579.2	805.4	1928.8	9160.1	17452.4	19211.5	19201.8
70°	479.8	493.4	499.3	532.4	768.4	1712.3	7633.1	15675.8	17821.0	18039.5
72.5°	432.9	444.6	450.5	479.8	731.3	1589.4	5924.7	13228.3	15435.9	15777.2
75°	382.2	390.0	397.8	423.2	692.3	1408.1	4220.3	10098.2	11822.2	12358.5
77.5°	329.6	329.6	339.3	364.7	583.1	1162.3	2831.7	7083.2	8009.5	8557.5
80°	267.2	269.1	265.2	292.5	429.0	795.7	1608.9	4731.2	5329.9	5435.2
82.5°	204.8	198.9	200.9	214.5	319.8	542.2	858.1	2939.0	2995.5	2937.0
85°	128.7	128.7	124.8	140.4	204.8	282.8	468.1	1800.0	1406.1	1337.8
87.5°	52.7	42.9	48.8	56.6	97.5	115.1	183.3	370.5	142.4	130.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)