

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: P451855

Luminaire Tested: **GLAN-SA2D-730-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451855
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-SA2D-730-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1200mA 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: 10175 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 125
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

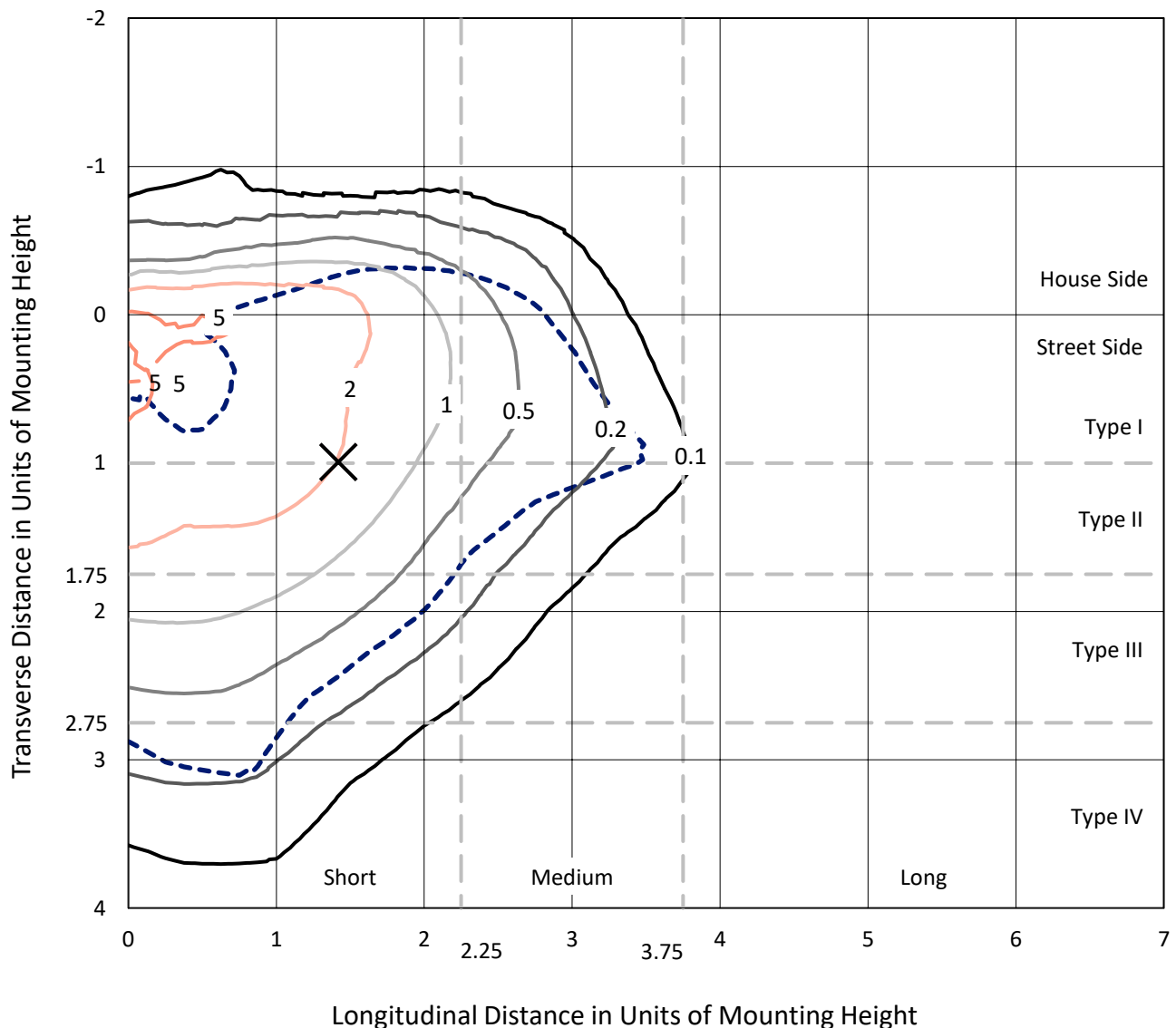


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Iso-Footcandle Lines of Horizontal Illumination

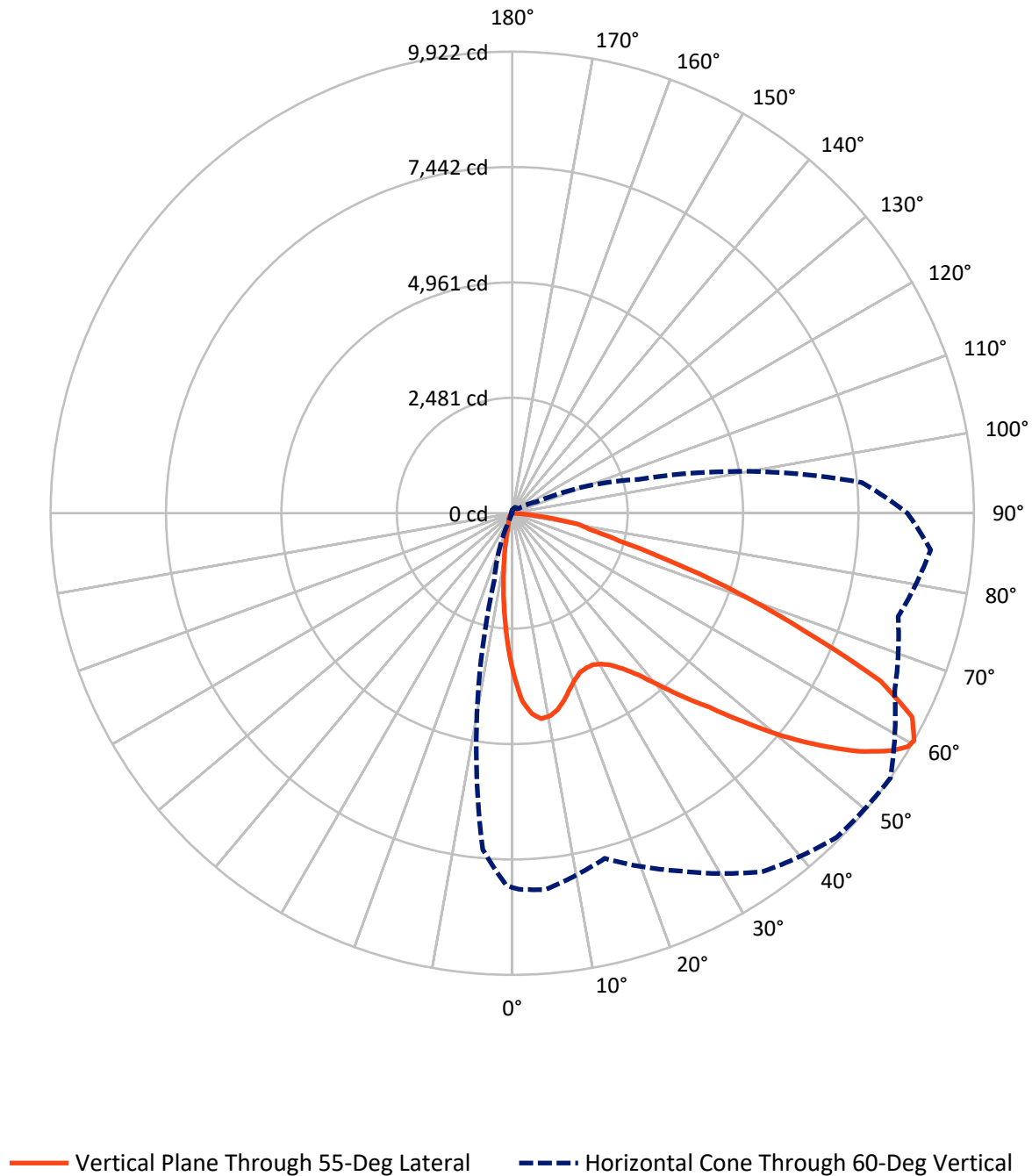
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	1510.1	0.0	1510.1
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	8664.9	0.0	8664.9
	% Fixture	85.2	0.0	85.2
Total	Lumens	10175.0	0.0	10175.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.1	2.5
10°-20°	502.4	4.9
20°-30°	743.6	7.3
30°-40°	1108.5	10.9
40°-50°	1623.4	16.0
50°-60°	2343.6	23.0
60°-70°	2465.4	24.2
70°-80°	1014.2	10.0
80°-90°	118.8	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°	10175.0	100.0
0°-180°	10175.0	100.0

Coefficient of Utilization



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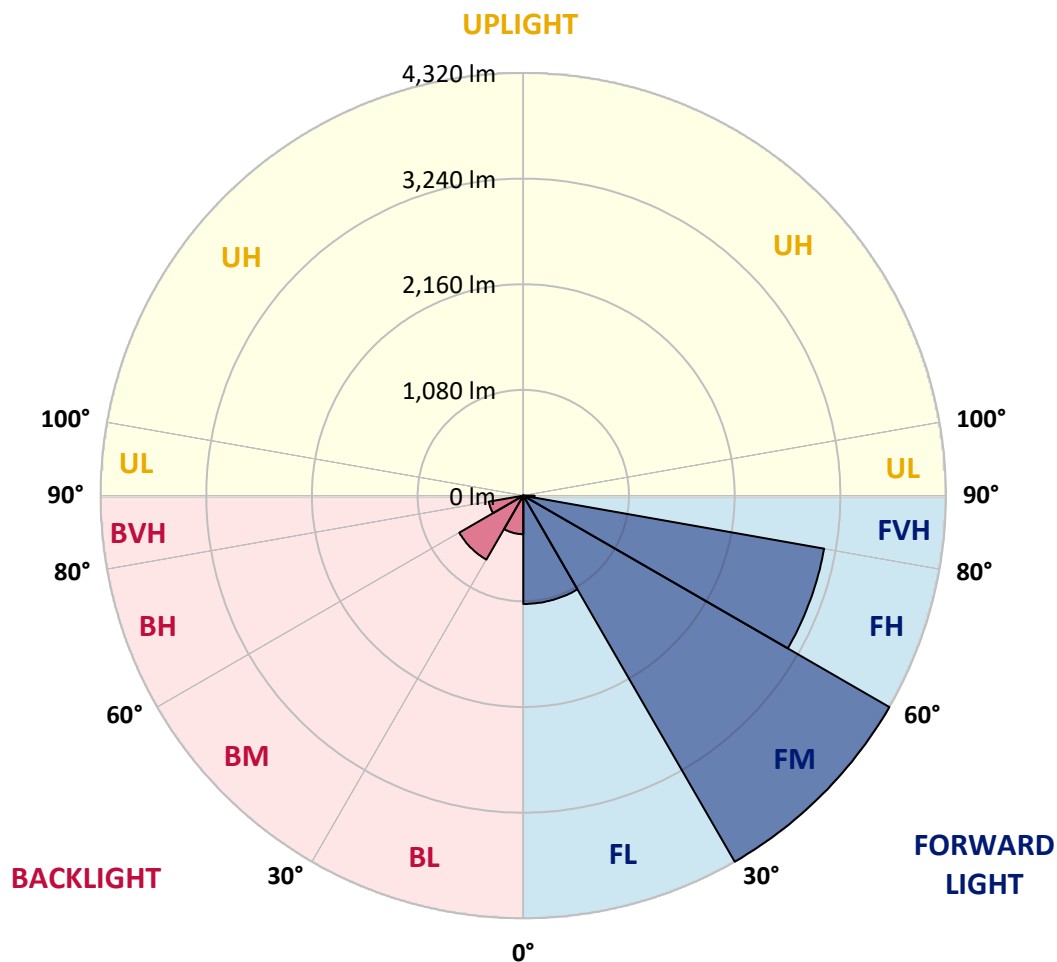
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1107.2	10.9			
FM	(30°-60°)	4320.3	42.5			
FH	(60°-80°)	3122.1	30.7			G2/5000
FVH	(80°-90°)	115.3	1.1			G2/225
BL	(0°-30°)	394.0	3.9	B1/500		
BM	(30°-60°)	755.2	7.4	B1/1000		
BH	(60°-80°)	357.4	3.5	B1/500		G1/500
BVH	(80°-90°)	3.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3445.2	3445.2	3445.2	3445.2	3445.2	3445.2	3445.2	3445.2	3445.2	3445.2	3445.2
2.5°	3764.0	3757.7	3813.3	3904.2	3995.8	4043.6	4034.2	4030.3	3954.3	3898.7	3782.0
5°	3756.2	3788.3	3887.7	4133.6	4320.0	4410.1	4436.7	4324.7	4176.7	3962.1	3697.4
7.5°	3531.4	3571.3	3733.4	4118.0	4449.3	4645.1	4638.0	4458.7	4153.2	3821.2	3443.7
10°	3252.6	3299.6	3489.9	3956.6	4386.6	4645.1	4659.2	4432.0	4052.2	3626.1	3229.1
12.5°	3056.0	3111.6	3322.3	3806.3	4225.3	4479.8	4496.3	4331.8	3976.2	3551.0	3112.4
15°	2989.4	3041.9	3255.7	3730.3	4053.8	4190.8	4186.9	4169.7	3946.5	3569.0	3118.6
17.5°	3103.8	3146.8	3388.1	3764.8	3893.2	3879.1	3899.5	3982.5	3952.7	3720.1	3316.0
20°	3399.0	3442.9	3702.1	3870.5	3770.2	3681.0	3690.4	3829.0	4010.7	4004.4	3624.6
22.5°	3805.5	3879.9	4114.8	4075.7	3753.8	3558.0	3538.4	3718.6	4109.4	4331.8	4041.2
25°	4320.0	4395.2	4578.5	4403.1	3834.5	3529.0	3511.0	3684.9	4229.2	4651.3	4510.4
27.5°	4752.4	4809.5	4992.0	4721.8	3953.5	3541.6	3511.8	3689.6	4326.3	4923.1	4905.9
30°	5098.5	5140.8	5248.1	4870.6	4056.1	3596.4	3561.9	3758.5	4369.4	5055.5	5226.2
32.5°	5377.3	5448.6	5482.3	5029.6	4203.3	3699.8	3641.0	3890.9	4474.3	5219.1	5562.2
35°	5696.1	5778.3	5735.3	5181.5	4397.6	3861.1	3789.0	4105.5	4633.3	5370.3	5952.2
37.5°	6100.2	6195.0	6026.6	5341.3	4602.8	4103.9	4070.2	4407.0	4874.5	5586.5	6370.4
40°	6518.4	6573.3	6309.3	5535.5	4855.0	4457.1	4489.2	4855.0	5190.2	5845.7	6815.3
42.5°	6845.0	6896.7	6599.9	5698.4	5112.6	4876.1	5010.0	5395.4	5552.0	6111.2	7147.3
45°	7094.9	7138.7	6801.2	5876.2	5460.4	5483.1	5736.0	5952.2	5914.6	6273.3	7403.4
47.5°	7289.1	7326.7	6956.2	6067.3	5981.2	6225.5	6612.4	6704.1	6290.5	6448.7	7635.3
50°	7369.0	7379.9	7004.8	6310.9	6572.5	7171.6	7575.0	7519.4	6721.3	6643.8	7882.0
52.5°	7473.1	7470.8	7143.4	6542.7	7128.5	8017.5	8420.0	8293.9	7208.4	6935.9	8159.2
55°	7746.5	7749.6	7440.2	6871.7	7602.4	8700.4	9131.1	9039.5	7722.2	7429.3	8482.7
57.5°	8078.5	8090.3	7862.4	7256.2	8055.0	9195.4	9662.1	9626.9	8416.9	7978.3	8788.1
59°	8121.6	8145.1	8062.1	7527.2	8323.7	9347.3	9843.8	9878.3	8788.9	8340.1	8953.4
60°	8043.3	8082.5	8120.1	7680.7	8481.1	9402.1	9854.8	9922.2	9068.5	8586.0	9028.5
62.5°	7701.8	7763.7	7952.5	8152.9	8677.7	9231.4	9504.7	9645.7	9414.7	9232.2	9035.6
65°	7254.6	7286.7	7559.3	8236.7	8296.3	8434.1	8518.7	8699.6	8998.8	9481.2	8712.1
67.5°	6521.6	6616.3	6950.0	7750.4	7170.8	7007.9	6986.8	6806.7	7583.6	8887.6	7914.9
70°	5387.5	5429.8	5841.0	6354.0	5411.8	5161.2	5261.4	5194.1	5878.6	7650.9	6370.4
72.5°	4074.1	4169.7	4571.4	5064.9	3682.5	3357.5	3634.0	3608.9	4415.6	6148.8	4376.4
75°	2898.6	2960.4	3472.6	3963.7	2579.0	2185.1	2284.5	2377.7	3082.6	4855.0	2586.1
77.5°	1991.6	2044.9	2429.4	2621.3	1881.2	1802.1	1648.6	1738.7	2019.8	2880.6	1407.4
80°	1201.4	1199.1	1452.0	1499.0	1310.3	1521.7	1276.6	1433.2	1221.0	1232.7	545.1
82.5°	780.1	772.2	888.1	968.0	729.1	766.7	514.6	741.7	795.7	343.8	172.3
85°	349.3	364.2	426.8	563.1	319.5	170.0	104.9	227.9	339.1	173.1	0.0
87.5°	36.0	28.2	75.2	137.1	43.9	4.7	15.7	7.8	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°	3445.2	3445.2	3445.2	3445.2	3445.2	3445.2	3445.2	3445.2	3445.2	3445.2	3445.2
2.5°	3728.0	3682.5	3547.0	3420.2	3311.3	3178.2	3092.0	2956.5	2874.3	2849.2	2853.1
5°	3578.4	3447.6	3189.9	2983.9	2754.5	2623.7	2424.7	2233.6	2130.3	2091.9	2074.7
7.5°	3265.1	3124.9	2814.0	2490.5	2244.6	2015.1	1867.1	1698.7	1583.6	1488.8	1472.4
10°	3032.5	2848.4	2463.1	2115.4	1921.2	1748.9	1600.8	1432.4	1297.0	1188.9	1159.1
12.5°	2893.1	2687.1	2257.1	1965.8	1781.7	1604.7	1412.1	1217.1	1078.4	961.8	907.7
15°	2868.0	2629.1	2199.2	1858.5	1631.4	1417.6	1161.5	950.8	808.2	697.8	664.1
17.5°	3019.2	2733.3	2190.6	1746.5	1434.8	1131.7	865.4	690.8	530.2	468.3	444.1
20°	3288.6	2917.4	2189.8	1616.5	1232.7	871.7	607.8	450.3	385.3	355.6	341.5
22.5°	3655.9	3168.0	2231.3	1504.5	1022.8	643.0	433.9	358.7	321.1	296.8	291.3
25°	4104.7	3539.2	2333.1	1428.5	862.3	504.4	357.9	307.0	275.7	264.7	260.0
27.5°	4503.3	3894.8	2445.1	1350.2	747.2	446.4	332.1	281.2	256.1	247.5	240.4
30°	4847.1	4217.4	2499.1	1246.8	654.7	408.8	336.8	300.7	267.8	242.0	230.3
32.5°	5133.8	4464.9	2534.4	1152.8	576.4	334.4	266.3	232.6	217.7	208.3	200.5
35°	5492.5	4732.8	2513.2	1099.6	536.5	304.7	242.8	200.5	175.4	156.6	148.8
37.5°	5868.4	5000.6	2476.4	1055.7	518.5	282.7	231.0	190.3	162.9	143.3	133.1
40°	6257.6	5248.9	2433.4	1015.0	502.0	268.6	224.0	181.7	154.3	133.1	122.2
42.5°	6614.0	5490.9	2416.1	988.4	475.4	271.0	218.5	177.8	145.7	123.7	114.3
45°	6902.2	5720.4	2439.6	974.3	446.4	267.1	220.1	173.1	138.6	117.5	108.1
47.5°	7210.0	6044.6	2515.6	960.2	418.2	248.3	231.8	172.3	135.5	113.6	103.4
50°	7567.9	6459.7	2689.5	925.7	383.8	227.9	246.7	171.5	131.6	108.9	98.7
52.5°	8044.9	6931.2	2868.8	865.4	333.6	208.3	235.7	169.2	123.7	103.4	93.2
55°	8473.3	7427.7	3020.7	794.1	270.2	180.1	212.2	159.0	110.4	94.0	84.6
57.5°	8650.3	7708.1	3016.0	695.5	216.2	158.2	174.7	145.7	96.3	83.0	75.2
59°	8585.3	7672.9	2915.0	622.6	197.4	146.5	144.9	144.1	90.1	75.2	68.9
60°	8493.6	7544.4	2806.1	586.6	185.6	138.6	133.1	142.5	84.6	70.5	64.2
62.5°	8142.8	7011.8	2445.1	525.5	170.0	117.5	106.5	120.6	75.2	61.1	55.6
65°	7634.5	6193.4	2070.0	508.3	165.3	97.1	88.5	86.2	64.2	51.7	47.0
67.5°	6643.0	5241.1	1676.8	496.5	166.8	81.5	77.5	65.0	53.3	43.1	39.9
70°	5318.6	4086.7	1372.9	483.2	168.4	66.6	65.0	51.7	43.1	36.0	32.9
72.5°	3231.4	2422.4	1080.8	419.8	163.7	53.3	58.0	39.2	31.3	25.8	24.3
75°	1997.9	1658.0	670.4	326.6	108.1	39.2	40.7	24.3	21.1	16.4	16.4
77.5°	1157.5	1047.1	239.7	117.5	47.8	23.5	18.0	12.5	11.7	7.0	7.0
80°	480.1	384.5	83.0	39.9	25.8	11.0	3.9	0.8	0.0	0.0	0.0
82.5°	140.2	124.5	22.7	18.0	7.8	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°	3445.2	3445.2	3445.2	3445.2	3445.2	3445.2	3445.2	3445.2	3445.2	3445.2	3445.2
2.5°	2786.6	2760.7	2749.0	2788.9	2752.1	2799.1	2763.1	2778.7	2824.9	2845.3	2897.8
5°	2085.6	2059.0	2046.5	2106.8	2103.6	2133.4	2130.3	2157.7	2181.2	2128.7	2182.7
7.5°	1452.8	1434.8	1464.6	1511.5	1561.7	1545.2	1545.2	1508.4	1520.9	1513.1	1510.8
10°	1105.1	1043.2	1027.5	1026.0	1044.8	1048.7	1027.5	976.6	995.4	1000.9	1033.8
12.5°	869.3	821.6	748.7	715.8	707.2	714.3	644.6	599.9	621.1	608.5	640.6
15°	623.4	584.3	541.2	504.4	494.2	480.1	404.1	350.9	344.6	347.0	352.4
17.5°	444.8	418.2	418.2	379.1	357.9	315.6	277.2	253.8	251.4	253.8	257.7
20°	328.2	314.1	312.5	302.3	278.8	250.6	224.0	219.3	217.7	221.6	223.2
22.5°	282.7	267.8	255.3	254.5	232.6	209.1	196.6	190.3	191.1	192.7	196.6
25°	253.0	237.3	224.0	216.2	200.5	184.0	172.3	169.2	169.2	171.5	172.3
27.5°	231.8	212.2	200.5	189.5	175.4	161.3	151.2	148.8	147.2	148.8	152.7
30°	216.9	197.4	182.5	166.0	155.1	141.8	133.1	130.0	129.2	130.0	133.1
32.5°	185.6	173.9	162.1	147.2	133.9	125.3	115.9	110.4	110.4	112.0	115.1
35°	140.2	133.9	133.1	129.2	118.3	108.9	97.9	92.4	92.4	95.5	97.1
37.5°	123.7	112.0	110.4	108.9	104.2	91.6	81.5	76.8	76.0	78.3	81.5
40°	112.8	99.5	92.4	90.8	91.6	77.5	66.6	61.9	61.9	62.7	65.8
42.5°	104.2	88.5	76.0	74.4	77.5	65.0	54.0	49.3	49.3	49.3	53.3
45°	97.1	79.1	64.2	56.4	61.1	53.3	43.9	39.2	37.6	39.2	40.7
47.5°	92.4	72.1	56.4	45.4	45.4	42.3	35.2	29.8	28.2	29.0	31.3
50°	88.5	65.8	47.8	36.8	32.9	33.7	26.6	22.7	21.1	21.1	23.5
52.5°	82.2	59.5	41.5	31.3	25.1	22.7	19.6	16.4	15.7	16.4	18.0
55°	74.4	54.0	36.0	25.8	19.6	15.7	14.1	11.7	11.0	11.7	14.1
57.5°	65.8	45.4	29.0	20.4	13.3	10.2	9.4	7.8	6.3	7.0	8.6
59°	60.3	40.7	25.1	16.4	10.2	7.0	7.0	5.5	3.9	4.7	7.0
60°	58.0	37.6	21.1	14.1	8.6	5.5	5.5	3.9	2.3	3.1	5.5
62.5°	49.3	31.3	16.4	8.6	3.9	0.8	2.3	0.8	0.0	0.8	2.3
65°	41.5	25.1	11.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.8
67.5°	34.5	18.8	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	27.4	12.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	18.8	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	11.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.7	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: P451855

CATALOG NUMBER: GLAN-SA2D-730-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3445.2	3445.2	3445.2	3445.2	3445.2	3445.2	3445.2	3445.2	3445.2	3445.2
2.5°	2900.9	3012.9	3081.8	3211.8	3345.0	3447.6	3576.0	3691.1	3738.9	3764.0
5°	2237.6	2393.4	2525.8	2723.9	2908.0	3132.0	3359.1	3626.9	3729.5	3756.2
7.5°	1570.3	1729.3	1867.9	2097.4	2359.7	2659.7	2999.6	3339.5	3489.1	3531.4
10°	1134.1	1304.0	1473.2	1702.6	1947.8	2272.8	2626.8	3047.4	3219.7	3252.6
12.5°	715.8	898.3	1173.2	1456.7	1716.0	1977.5	2348.0	2805.4	2995.7	3056.0
15°	415.1	551.4	758.9	1128.6	1458.3	1804.5	2208.6	2714.5	2927.5	2989.4
17.5°	278.0	325.0	467.6	750.3	1185.7	1644.7	2173.3	2788.9	3024.7	3103.8
20°	234.2	255.3	305.4	457.4	913.2	1502.1	2182.7	2991.0	3300.3	3399.0
22.5°	206.0	225.6	257.7	328.9	637.5	1325.1	2227.4	3280.0	3679.4	3805.5
25°	181.7	201.3	229.5	272.5	428.4	1120.7	2325.3	3702.9	4181.4	4320.0
27.5°	161.3	179.3	203.6	240.4	329.7	892.8	2412.2	4114.8	4639.6	4752.4
30°	142.5	157.4	180.9	209.1	274.1	688.4	2456.1	4475.1	4973.2	5098.5
32.5°	123.7	137.8	160.6	183.3	225.6	524.7	2425.5	4739.8	5297.5	5377.3
35°	105.7	120.6	139.4	160.6	195.0	423.7	2272.8	5037.4	5633.4	5696.1
37.5°	90.8	103.4	123.0	139.4	176.2	339.1	2088.0	5305.3	6010.2	6100.2
40°	76.8	89.3	108.9	123.7	162.1	267.1	1921.2	5602.9	6407.2	6518.4
42.5°	62.7	77.5	94.8	119.0	139.4	203.6	1719.1	5844.1	6705.6	6845.0
45°	50.1	66.6	85.4	118.3	121.4	155.1	1524.1	6032.1	6969.6	7094.9
47.5°	39.9	56.4	82.2	110.4	99.5	123.0	1412.9	6228.7	7188.8	7289.1
50°	32.1	47.0	86.2	97.1	83.0	104.2	1409.7	6448.0	7302.4	7369.0
52.5°	25.8	38.4	72.8	74.4	70.5	91.6	1494.3	6694.7	7418.3	7473.1
55°	21.9	32.1	47.8	54.8	63.4	83.0	1557.8	7074.5	7694.8	7746.5
57.5°	17.2	27.4	36.8	43.9	56.4	76.0	1566.4	7367.4	8044.9	8078.5
59°	14.9	23.5	32.9	39.2	51.7	71.3	1531.1	7385.4	8067.6	8121.6
60°	12.5	21.1	29.0	36.8	47.8	67.4	1492.7	7254.6	7983.0	8043.3
62.5°	9.4	16.4	21.1	29.8	39.2	58.0	1311.1	6798.0	7659.5	7701.8
65°	6.3	11.7	15.7	21.9	30.5	50.1	1068.3	6206.0	7159.9	7254.6
67.5°	3.9	8.6	12.5	16.4	25.1	42.3	761.3	5321.7	6460.5	6521.6
70°	2.3	5.5	9.4	13.3	19.6	33.7	451.9	4206.5	5375.0	5387.5
72.5°	1.6	3.9	6.3	9.4	15.7	30.5	219.3	2741.9	3924.5	4074.1
75°	0.8	2.3	3.9	7.0	12.5	25.1	104.9	1831.9	2855.5	2898.6
77.5°	0.0	0.8	2.3	4.7	9.4	19.6	61.1	1203.0	1947.0	1991.6
80°	0.0	0.0	1.6	3.9	7.0	12.5	36.8	709.6	1179.5	1201.4
82.5°	0.0	0.0	0.8	3.1	4.7	9.4	18.8	311.7	772.2	780.1
85°	0.0	0.0	0.8	3.1	3.9	6.3	7.0	42.3	343.0	349.3
87.5°	0.0	0.0	0.8	3.9	3.9	3.9	3.9	2.3	29.0	36.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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