

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: P458351

Luminaire Tested: **GLAN-SA9D-730-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458351
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-SA9D-730-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 45868 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 552
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



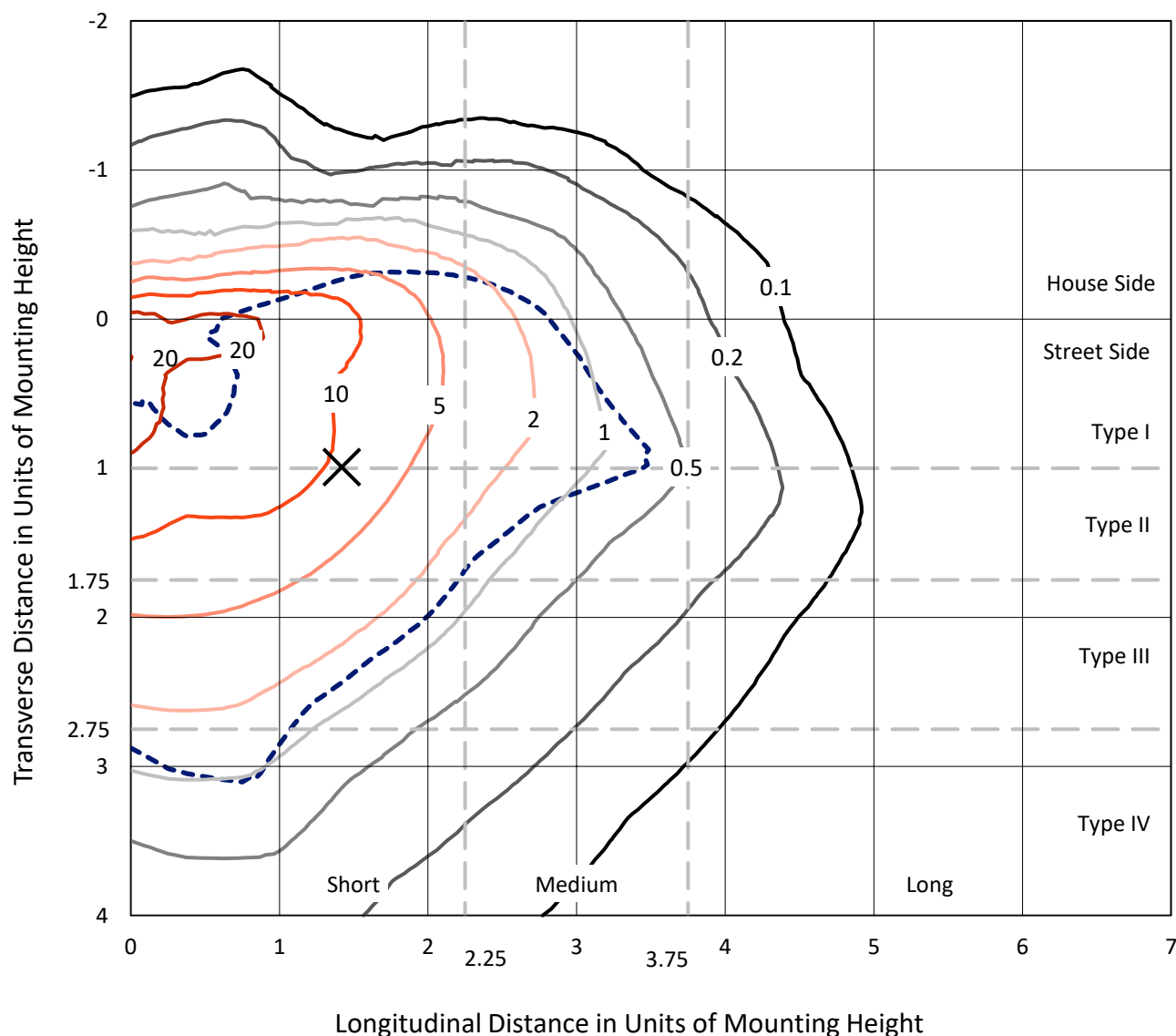
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

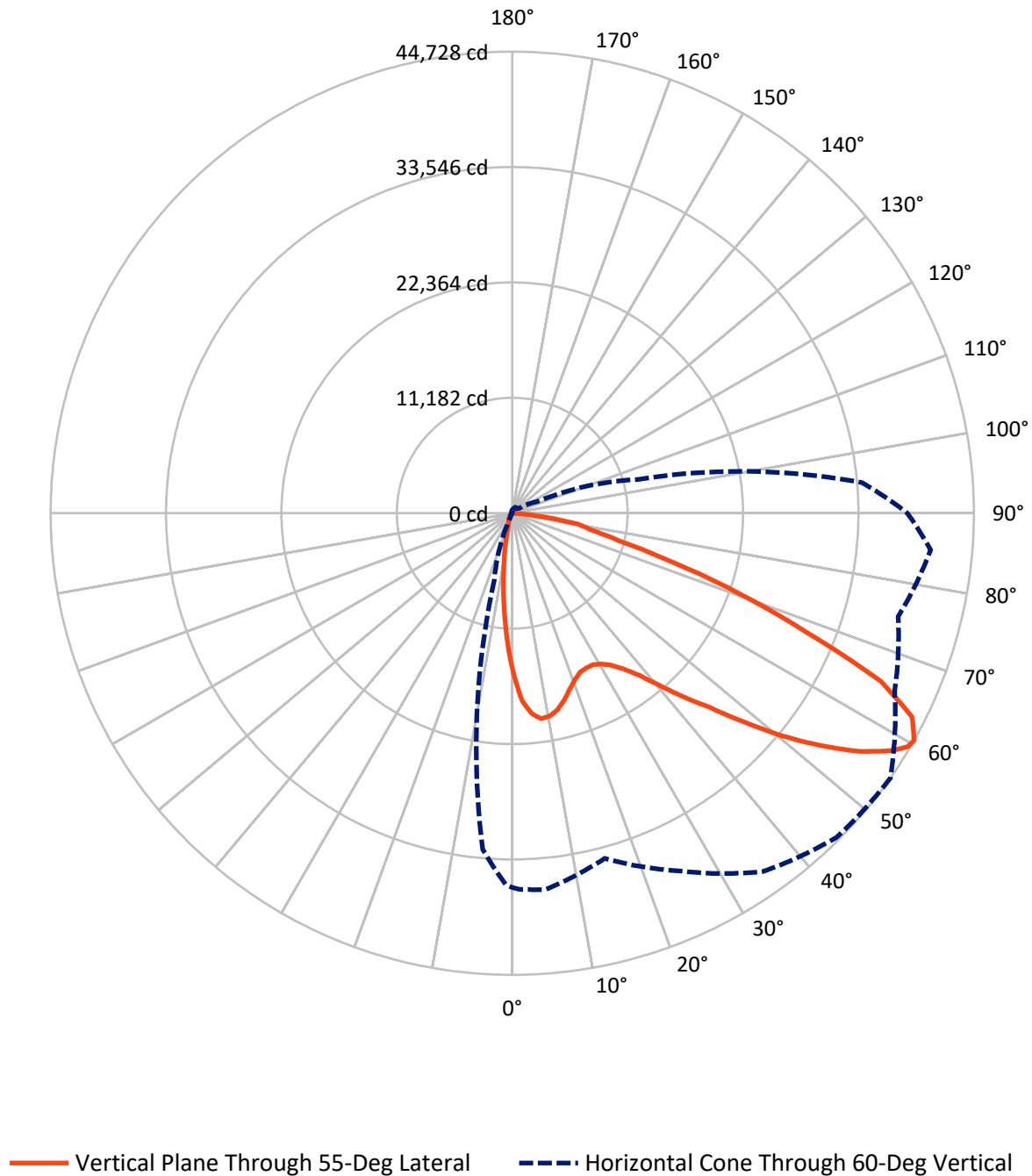


Based on 25 foot mounting height. Maximum calculated value = 32.1 fc

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	6807.2	0.0	6807.2
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	39060.8	0.0	39060.8
	% Fixture	85.2	0.0	85.2
Total	Lumens	45868.0	0.0	45868.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1150.1	2.5
10°-20°	2264.8	4.9
20°-30°	3352.3	7.3
30°-40°	4996.9	10.9
40°-50°	7318.0	16.0
50°-60°	10564.9	23.0
60°-70°	11113.8	24.2
70°-80°	4571.8	10.0
80°-90°	535.5	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°	45868.0	100.0
0°-180°	45868.0	100.0

Coefficient of Utilization



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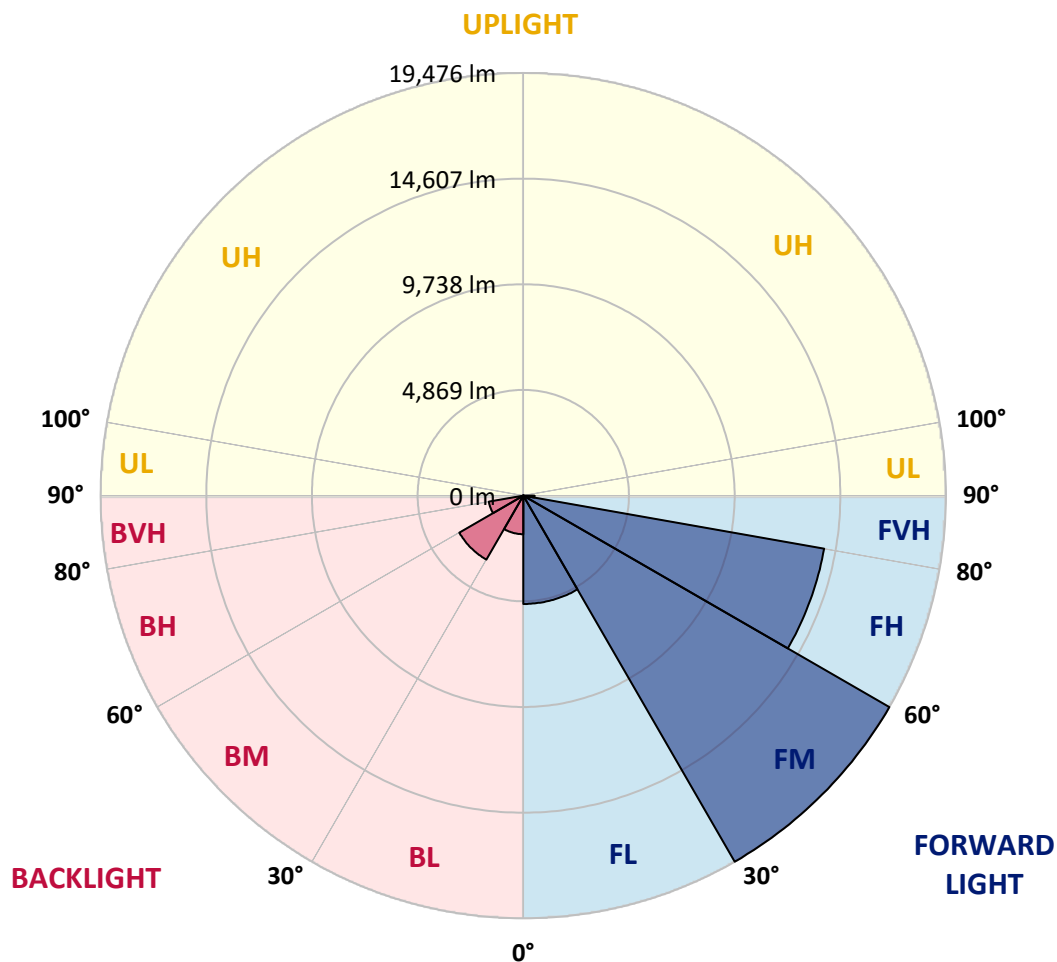
CATALOG NUMBER: GLAN-SA9D-730-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4991.1	10.9			
FM	(30°-60°)	19475.6	42.5			
FH	(60°-80°)	14074.4	30.7			G5
FVH	(80°-90°)	519.7	1.1			G4/750
BL	(0°-30°)	1776.0	3.9	B3/2500		
BM	(30°-60°)	3404.2	7.4	B3/5000		
BH	(60°-80°)	1611.2	3.5	B3/2500		G3/2500
BVH	(80°-90°)	15.7	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-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	15530.8	15530.8	15530.8	15530.8	15530.8	15530.8	15530.8	15530.8	15530.8	15530.8	15530.8
2.5°	16967.7	16939.5	17190.1	17599.7	18012.7	18228.1	18185.7	18168.1	17825.6	17575.0	17048.9
5°	16932.4	17077.1	17525.5	18634.1	19474.4	19880.4	20000.4	19495.6	18828.3	17860.9	16667.6
7.5°	15919.1	16099.2	16830.0	18563.5	20056.9	20939.5	20907.8	20099.3	18722.4	17225.4	15523.7
10°	14662.3	14874.1	15732.0	17836.2	19774.5	20939.5	21003.1	19979.2	18266.9	16346.3	14556.4
12.5°	13776.1	14026.8	14976.5	17158.3	19047.2	20194.6	20268.7	19527.3	17924.5	16007.4	14030.3
15°	13476.0	13712.6	14676.4	16815.9	18274.0	18891.8	18874.2	18796.5	17790.3	16088.6	14058.5
17.5°	13991.5	14185.6	15273.0	16971.2	17550.2	17486.7	17578.5	17952.7	17818.6	16770.0	14948.2
20°	15322.5	15520.2	16688.8	17447.9	16995.9	16593.5	16635.8	17260.7	18079.8	18051.6	16339.3
22.5°	17154.8	17490.2	18549.4	18372.9	16921.8	16039.2	15950.9	16762.9	18524.7	19527.3	18217.5
25°	19474.4	19813.3	20639.4	19848.6	17285.4	15908.5	15827.3	16611.1	19064.8	20967.8	20332.3
27.5°	21423.2	21681.0	22503.6	21285.5	17822.1	15965.0	15830.9	16632.3	19502.6	22192.9	22115.2
30°	22983.7	23174.4	23658.0	21956.3	18284.6	16212.2	16056.8	16943.0	19696.8	22789.5	23559.2
32.5°	24240.6	24561.9	24713.7	22673.0	18948.3	16678.2	16413.4	17539.6	20169.9	23527.4	25073.8
35°	25677.5	26048.2	25854.0	23358.0	19823.9	17405.5	17080.7	18507.0	20886.6	24208.8	26832.0
37.5°	27499.3	27926.4	27167.4	24078.2	20748.9	18499.9	18348.1	19866.3	21974.0	25183.2	28717.3
40°	29384.6	29631.7	28441.9	24953.7	21885.7	20092.2	20237.0	21885.7	23396.8	26351.8	30722.6
42.5°	30856.8	31089.8	29751.7	25688.1	23047.3	21981.0	22584.8	24321.8	25027.9	27548.7	32219.6
45°	31983.0	32180.7	30659.1	26489.5	24614.8	24717.2	25857.6	26832.0	26662.5	28279.5	33374.0
47.5°	32858.6	33028.1	31358.1	27351.0	26962.6	28064.1	29808.2	30221.3	28357.2	29070.3	34419.1
50°	33218.7	33268.1	31577.0	28449.0	29628.2	32329.0	34147.2	33896.6	30299.0	29949.4	35531.2
52.5°	33688.3	33677.7	32201.9	29494.0	32134.8	36142.0	37956.7	37388.3	32494.9	31266.3	36781.0
55°	34920.4	34934.5	33540.0	30976.8	34270.8	39220.6	41162.4	40749.3	34811.0	33490.6	38239.1
57.5°	36417.4	36470.3	35442.9	32710.3	36311.4	41451.9	43556.1	43397.2	37942.5	35965.5	39616.0
59°	36611.5	36717.5	36343.2	33931.9	37522.4	42136.8	44375.2	44530.5	39619.5	37596.6	40361.0
60°	36258.5	36435.0	36604.5	34623.9	38232.1	42383.9	44424.6	44728.2	40879.9	38705.1	40699.9
62.5°	34719.2	34998.1	35848.9	36752.8	39118.2	41614.3	42846.4	43481.9	42440.4	41617.8	40731.7
65°	32703.2	32848.0	34076.6	37130.5	37398.8	38020.2	38401.5	39217.1	40565.7	42740.5	39273.6
67.5°	29398.7	29825.9	31329.9	34938.1	32325.5	31591.1	31495.8	30683.8	34186.1	40064.4	35679.5
70°	24286.5	24477.1	26330.7	28643.1	24395.9	23266.2	23718.1	23414.4	26500.1	34489.7	28717.3
72.5°	18365.8	18796.5	20607.7	22831.9	16600.5	15135.4	16381.6	16268.7	19905.1	27718.1	19728.6
75°	13066.5	13345.4	15654.3	17868.0	11626.0	9850.2	10298.5	10718.7	13896.1	21885.7	11657.8
77.5°	8978.1	9218.2	10951.7	11816.7	8480.3	8123.7	7431.8	7837.8	9105.2	12985.3	6344.4
80°	5415.8	5405.2	6545.6	6757.4	5906.6	6859.8	5754.8	6460.9	5504.1	5557.0	2457.2
82.5°	3516.4	3481.1	4003.6	4363.7	3286.9	3456.4	2319.6	3343.4	3587.0	1549.9	776.7
85°	1574.6	1641.7	1924.1	2538.4	1440.5	766.1	473.1	1027.4	1528.7	780.2	0.0
87.5°	162.4	127.1	338.9	617.8	197.7	21.2	70.6	35.3	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°	15530.8	15530.8	15530.8	15530.8	15530.8	15530.8	15530.8	15530.8	15530.8	15530.8	15530.8
2.5°	16805.3	16600.5	15989.7	15417.8	14927.1	14326.9	13938.5	13327.7	12957.0	12844.0	12861.7
5°	16131.0	15541.4	14379.8	13451.3	12416.9	11827.3	10930.5	10069.1	9603.0	9430.0	9352.4
7.5°	14718.8	14086.8	12685.2	11227.1	10118.5	9084.0	8416.8	7657.7	7138.7	6711.5	6637.4
10°	13670.2	12840.5	11103.5	9535.9	8660.4	7883.7	7216.4	6457.3	5846.5	5359.3	5225.2
12.5°	13041.8	12113.2	10175.0	8861.6	8031.9	7234.0	6365.5	5486.4	4861.5	4335.5	4091.9
15°	12928.8	11852.0	9913.7	8377.9	7354.1	6390.2	5235.8	4286.1	3643.5	3145.7	2993.9
17.5°	13610.2	12321.5	9874.9	7873.1	6467.9	5101.6	3901.2	3113.9	2390.2	2111.3	2001.8
20°	14824.7	13151.2	9871.3	7287.0	5557.0	3929.5	2739.7	2030.1	1737.0	1602.9	1539.3
22.5°	16480.5	14281.0	10058.5	6782.1	4610.9	2898.6	1955.9	1617.0	1447.5	1338.1	1313.4
25°	18503.5	15954.4	10517.4	6439.7	3887.1	2273.7	1613.4	1384.0	1242.7	1193.3	1172.1
27.5°	20300.5	17557.3	11022.3	6086.6	3368.1	2012.4	1496.9	1267.5	1154.5	1115.6	1083.9
30°	21850.4	19011.9	11265.9	5620.6	2951.5	1842.9	1518.1	1355.7	1207.4	1090.9	1038.0
32.5°	23142.6	20127.5	11424.8	5196.9	2598.5	1507.5	1200.4	1048.6	981.5	939.1	903.8
35°	24759.6	21335.0	11329.5	4956.9	2418.4	1373.4	1094.5	903.8	790.8	706.1	670.8
37.5°	26454.2	22542.4	11163.5	4759.1	2337.2	1274.5	1041.5	857.9	734.3	646.1	600.2
40°	28208.9	23661.6	10969.3	4575.6	2263.1	1211.0	1009.7	819.1	695.5	600.2	550.8
42.5°	29815.3	24752.5	10891.7	4455.5	2143.0	1221.6	985.0	801.4	656.7	557.8	515.5
45°	31114.5	25787.0	10997.6	4392.0	2012.4	1203.9	992.1	780.2	624.9	529.6	487.2
47.5°	32502.0	27248.6	11340.0	4328.4	1885.3	1119.2	1045.0	776.7	610.8	511.9	466.0
50°	34115.5	29119.8	12123.8	4173.1	1730.0	1027.4	1112.1	773.2	593.1	490.7	444.8
52.5°	36265.5	31245.1	12932.3	3901.2	1504.0	939.1	1062.7	762.6	557.8	466.0	420.1
55°	38196.7	33483.5	13617.2	3580.0	1218.0	812.0	956.8	716.7	497.8	423.7	381.3
57.5°	38994.6	34747.4	13596.1	3135.1	974.4	713.2	787.3	656.7	434.3	374.2	338.9
59°	38701.6	34588.5	13140.6	2806.8	889.7	660.2	653.1	649.6	406.0	338.9	310.7
60°	38288.5	34009.5	12649.9	2644.4	836.7	624.9	600.2	642.6	381.3	317.7	289.5
62.5°	36706.9	31608.8	11022.3	2369.0	766.1	529.6	480.2	543.7	338.9	275.4	250.7
65°	34415.6	27919.4	9331.2	2291.3	744.9	437.8	398.9	388.4	289.5	233.0	211.8
67.5°	29945.9	23626.3	7558.9	2238.4	752.0	367.2	349.5	293.0	240.1	194.2	180.1
70°	23975.8	18422.3	6189.0	2178.3	759.1	300.1	293.0	233.0	194.2	162.4	148.3
72.5°	14566.9	10919.9	4872.1	1892.4	737.9	240.1	261.3	176.5	141.2	116.5	109.4
75°	9006.4	7474.1	3022.1	1472.2	487.2	176.5	183.6	109.4	95.3	74.1	74.1
77.5°	5218.1	4720.3	1080.3	529.6	215.4	105.9	81.2	56.5	53.0	31.8	31.8
80°	2164.2	1733.5	374.2	180.1	116.5	49.4	17.7	3.5	0.0	0.0	0.0
82.5°	632.0	561.4	102.4	81.2	35.3	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°	15530.8	15530.8	15530.8	15530.8	15530.8	15530.8	15530.8	15530.8	15530.8	15530.8	15530.8
2.5°	12561.6	12445.1	12392.1	12572.2	12406.3	12618.1	12455.7	12526.3	12734.6	12826.4	13062.9
5°	9401.8	9281.7	9225.3	9497.1	9483.0	9617.1	9603.0	9726.6	9832.5	9596.0	9839.6
7.5°	6549.1	6467.9	6602.1	6813.9	7039.9	6965.7	6965.7	6799.8	6856.3	6821.0	6810.4
10°	4981.6	4702.7	4632.0	4625.0	4709.7	4727.4	4632.0	4402.6	4487.3	4512.0	4660.3
12.5°	3918.9	3703.5	3375.2	3226.9	3188.1	3219.8	2905.6	2704.4	2799.7	2743.2	2888.0
15°	2810.3	2633.8	2439.6	2273.7	2227.8	2164.2	1821.8	1581.7	1553.4	1564.0	1588.7
17.5°	2005.3	1885.3	1885.3	1708.8	1613.4	1422.8	1249.8	1143.9	1133.3	1143.9	1161.5
20°	1479.3	1415.7	1408.7	1362.8	1256.9	1129.8	1009.7	988.5	981.5	999.1	1006.2
22.5°	1274.5	1207.4	1151.0	1147.4	1048.6	942.7	886.2	857.9	861.4	868.5	886.2
25°	1140.4	1069.7	1009.7	974.4	903.8	829.7	776.7	762.6	762.6	773.2	776.7
27.5°	1045.0	956.8	903.8	854.4	790.8	727.3	681.4	670.8	663.7	670.8	688.5
30°	978.0	889.7	822.6	748.5	699.0	639.0	600.2	586.1	582.5	586.1	600.2
32.5°	836.7	783.8	730.8	663.7	603.7	564.9	522.5	497.8	497.8	504.9	519.0
35°	632.0	603.7	600.2	582.5	533.1	490.7	441.3	416.6	416.6	430.7	437.8
37.5°	557.8	504.9	497.8	490.7	469.6	413.1	367.2	346.0	342.5	353.1	367.2
40°	508.4	448.4	416.6	409.5	413.1	349.5	300.1	278.9	278.9	282.4	296.6
42.5°	469.6	398.9	342.5	335.4	349.5	293.0	243.6	222.4	222.4	222.4	240.1
45°	437.8	356.6	289.5	254.2	275.4	240.1	197.7	176.5	169.5	176.5	183.6
47.5°	416.6	324.8	254.2	204.8	204.8	190.6	158.9	134.2	127.1	130.6	141.2
50°	398.9	296.6	215.4	165.9	148.3	151.8	120.0	102.4	95.3	95.3	105.9
52.5°	370.7	268.3	187.1	141.2	113.0	102.4	88.3	74.1	70.6	74.1	81.2
55°	335.4	243.6	162.4	116.5	88.3	70.6	63.5	53.0	49.4	53.0	63.5
57.5°	296.6	204.8	130.6	91.8	60.0	45.9	42.4	35.3	28.2	31.8	38.8
59°	271.9	183.6	113.0	74.1	45.9	31.8	31.8	24.7	17.7	21.2	31.8
60°	261.3	169.5	95.3	63.5	38.8	24.7	24.7	17.7	10.6	14.1	24.7
62.5°	222.4	141.2	74.1	38.8	17.7	3.5	10.6	3.5	0.0	3.5	10.6
65°	187.1	113.0	49.4	17.7	0.0	0.0	0.0	0.0	0.0	0.0	3.5
67.5°	155.3	84.7	24.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	123.6	56.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	84.7	31.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	53.0	10.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	21.2	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: P458351

CATALOG NUMBER: GLAN-SA9D-730-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	15530.8	15530.8	15530.8	15530.8	15530.8	15530.8	15530.8	15530.8	15530.8	15530.8
2.5°	13077.1	13581.9	13892.6	14478.7	15078.9	15541.4	16120.4	16639.4	16854.7	16967.7
5°	10086.7	10789.3	11385.9	12279.2	13108.8	14118.6	15142.4	16349.9	16812.4	16932.4
7.5°	7078.7	7795.4	8420.3	9454.7	10637.5	11989.7	13521.9	15054.2	15728.5	15919.1
10°	5112.2	5878.3	6640.9	7675.4	8780.4	10245.6	11841.4	13737.3	14514.0	14662.3
12.5°	3226.9	4049.5	5288.7	6566.8	7735.4	8914.6	10584.5	12646.3	13504.3	13776.1
15°	1871.2	2485.5	3421.1	5087.5	6573.8	8134.3	9956.1	12236.8	13197.1	13476.0
17.5°	1253.3	1465.2	2107.7	3382.2	5345.2	7414.1	9797.2	12572.2	13634.9	13991.5
20°	1055.6	1151.0	1376.9	2061.8	4116.6	6771.5	9839.6	13483.1	14877.6	15322.5
22.5°	928.5	1016.8	1161.5	1482.8	2873.8	5973.6	10040.8	14785.8	16586.4	17154.8
25°	819.1	907.3	1034.4	1228.6	1931.2	5052.2	10482.1	16692.3	18849.5	19474.4
27.5°	727.3	808.5	917.9	1083.9	1486.4	4024.8	10874.0	18549.4	20914.8	21423.2
30°	642.6	709.6	815.6	942.7	1235.7	3103.3	11071.7	20173.4	22418.8	22983.7
32.5°	557.8	621.4	723.8	826.1	1016.8	2365.5	10934.0	21366.7	23880.5	24240.6
35°	476.6	543.7	628.4	723.8	879.1	1910.0	10245.6	22708.3	25395.1	25677.5
37.5°	409.5	466.0	554.3	628.4	794.4	1528.7	9412.4	23915.8	27093.2	27499.3
40°	346.0	402.5	490.7	557.8	730.8	1203.9	8660.4	25257.4	28883.2	29384.6
42.5°	282.4	349.5	427.2	536.6	628.4	917.9	7749.5	26344.8	30228.4	30856.8
45°	226.0	300.1	384.8	533.1	547.2	699.0	6870.4	27192.1	31418.1	31983.0
47.5°	180.1	254.2	370.7	497.8	448.4	554.3	6369.1	28078.3	32406.7	32858.6
50°	144.8	211.8	388.4	437.8	374.2	469.6	6354.9	29066.8	32918.6	33218.7
52.5°	116.5	173.0	328.3	335.4	317.7	413.1	6736.2	30178.9	33441.1	33688.3
55°	98.9	144.8	215.4	247.1	286.0	374.2	7022.2	31891.2	34687.4	34920.4
57.5°	77.7	123.6	165.9	197.7	254.2	342.5	7061.0	33211.6	36265.5	36417.4
59°	67.1	105.9	148.3	176.5	233.0	321.3	6902.2	33292.8	36367.9	36611.5
60°	56.5	95.3	130.6	165.9	215.4	303.6	6729.2	32703.2	35986.6	36258.5
62.5°	42.4	74.1	95.3	134.2	176.5	261.3	5910.1	30645.0	34528.5	34719.2
65°	28.2	53.0	70.6	98.9	137.7	226.0	4815.6	27975.9	32276.1	32703.2
67.5°	17.7	38.8	56.5	74.1	113.0	190.6	3431.7	23989.9	29123.3	29398.7
70°	10.6	24.7	42.4	60.0	88.3	151.8	2037.1	18962.4	24230.0	24286.5
72.5°	7.1	17.7	28.2	42.4	70.6	137.7	988.5	12360.4	17691.5	18365.8
75°	3.5	10.6	17.7	31.8	56.5	113.0	473.1	8257.9	12872.3	13066.5
77.5°	0.0	3.5	10.6	21.2	42.4	88.3	275.4	5422.9	8776.9	8978.1
80°	0.0	0.0	7.1	17.7	31.8	56.5	165.9	3198.7	5317.0	5415.8
82.5°	0.0	0.0	3.5	14.1	21.2	42.4	84.7	1405.1	3481.1	3516.4
85°	0.0	0.0	3.5	14.1	17.7	28.2	31.8	190.6	1546.4	1574.6
87.5°	0.0	0.0	3.5	17.7	17.7	17.7	17.7	10.6	130.6	162.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)