

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: P533435

Luminaire Tested: **GLAN-SA8D-760-U-SLL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533435  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA8D-760-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34534 lumens  
Efficiency: N/A  
Efficacy: 70.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G2

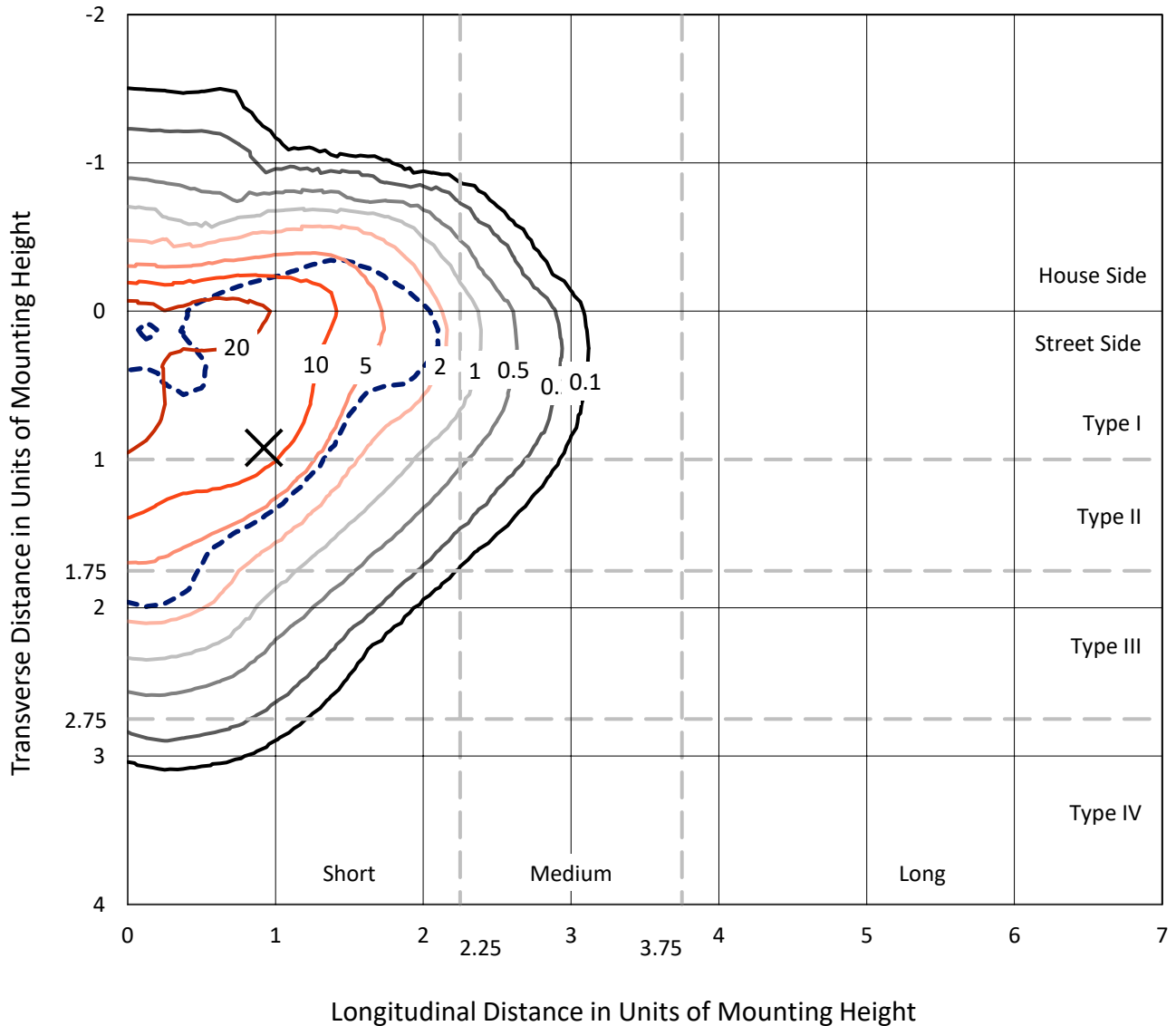
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P533435  
 CATALOG NUMBER: GLAN-SA8D-760-U-SLL-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

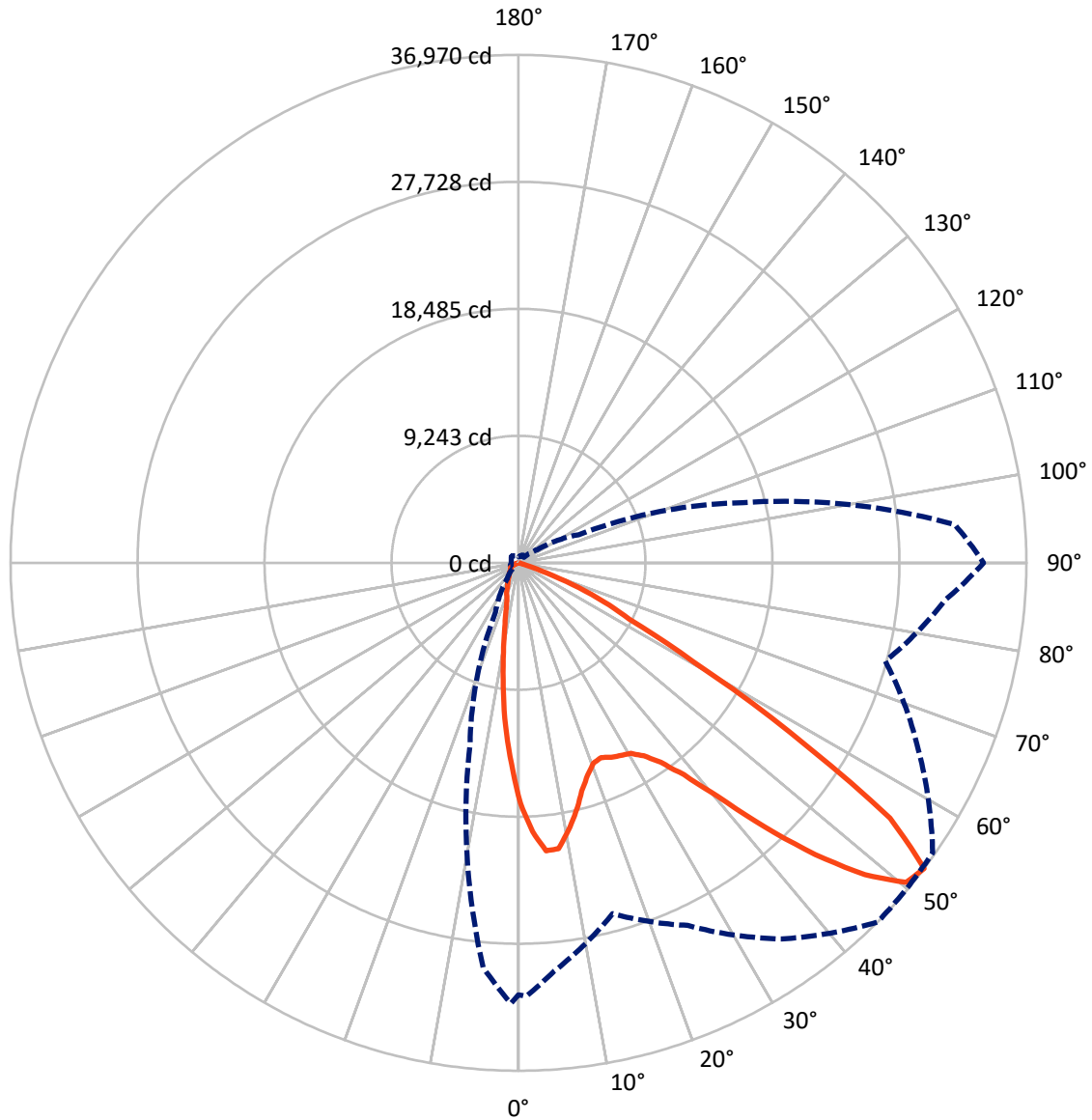
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 30.3 fc  
 Type III - Short - N/A

REPORT NUMBER: P533435  
CATALOG NUMBER: GLAN-SA8D-760-U-SLL-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 52.5-Deg Vertical

REPORT NUMBER: P533435  
 CATALOG NUMBER: GLAN-SA8D-760-U-SLL-GRSBK

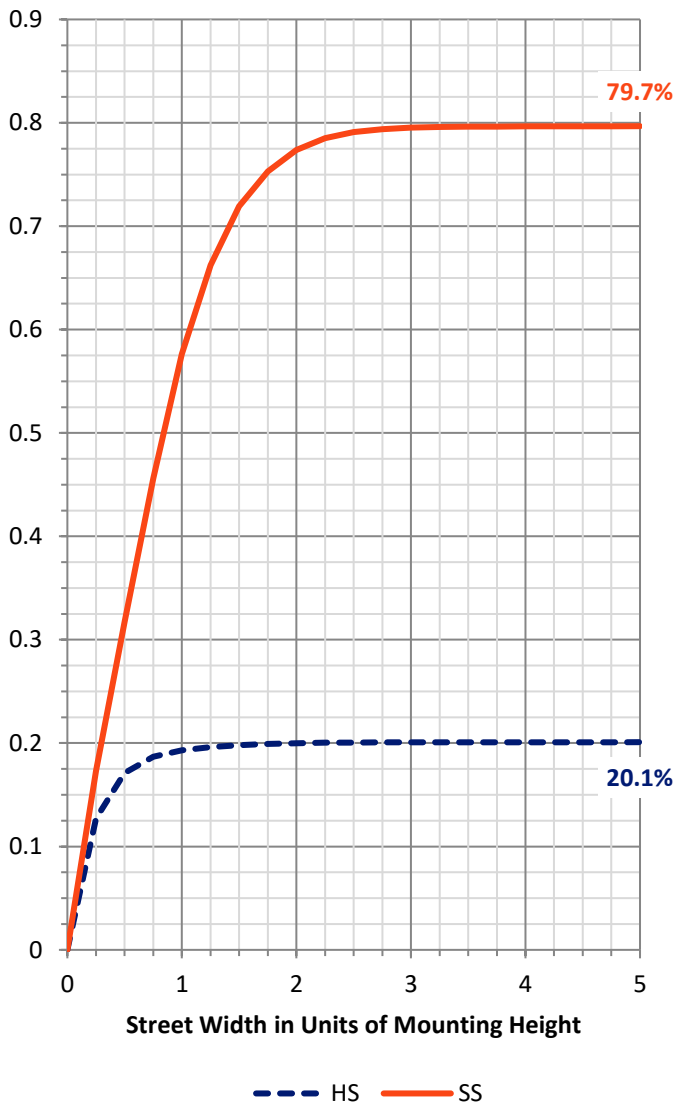
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7008.7	0.0	7008.7
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	27525.3	0.0	27525.3
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	34534.0	0.0	34534.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1277.0	3.7
10°-20°	2519.5	7.3
20°-30°	3834.2	11.1
30°-40°	5730.7	16.6
40°-50°	8161.1	23.6
50°-60°	8772.9	25.4
60°-70°	3887.5	11.3
70°-80°	314.5	0.9
80°-90°	36.7	0.1
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°	34534.0	100.0
0°-180°	34534.0	100.0



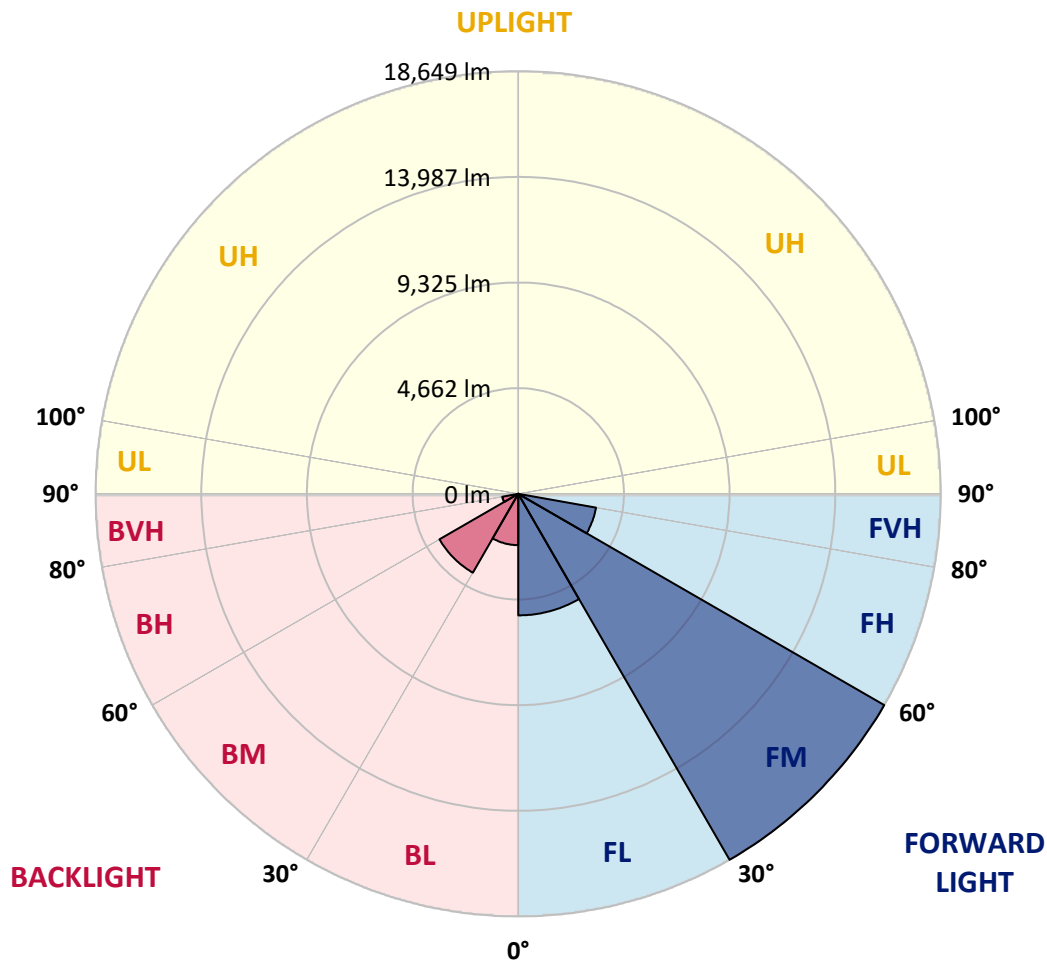
REPORT NUMBER: P533435  
 CATALOG NUMBER: GLAN-SA8D-760-U-SLL-GRSBK

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5363.8	15.5			
FM (30°-60°)	18649.4	54.0			
FH (60°-80°)	3484.9	10.1			G2/5000
FVH (80°-90°)	27.2	0.1			G1/100
BL (0°-30°)	2266.9	6.6	B3/2500		
BM (30°-60°)	4015.2	11.6	B3/5000		
BH (60°-80°)	717.1	2.1	B2/1000		G2/1000
BVH (80°-90°)	9.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type III Short





REPORT NUMBER: P533435

CATALOG NUMBER: GLAN-SA8D-760-U-SLL-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	17510.3	17510.3	17510.3	17510.3	17510.3	17510.3	17510.3	17510.3	17510.3	17510.3	17510.3
2.5°	18529.2	18583.5	18882.4	19255.9	19452.9	19901.2	19588.8	19670.3	19500.5	18902.7	18434.1
5°	17965.4	17958.6	18339.0	19262.7	20138.9	21028.7	21055.9	20580.4	19745.0	18828.0	17517.1
7.5°	16267.4	16532.3	16926.2	18400.1	20023.5	20689.1	21008.3	20451.4	19167.6	17856.7	16437.2
10°	14983.6	15119.5	15785.1	17564.7	18753.3	19643.1	19840.1	19520.8	18536.0	16899.0	15309.7
12.5°	14243.3	14311.2	15092.3	16586.6	17843.2	18502.0	18597.1	18746.5	18040.1	16505.1	14596.5
15°	14250.1	14304.4	15357.2	16607.0	17102.8	16926.2	17238.7	17231.9	17537.5	16430.4	15194.2
17.5°	15275.7	15336.8	16287.7	16905.8	16688.5	16274.2	16253.8	16566.2	17211.5	17360.9	16097.6
20°	17041.7	17184.3	17883.9	17850.0	16627.4	15791.9	15561.0	15798.7	17299.8	18148.8	17917.9
22.5°	19419.0	19615.9	20105.0	19167.6	16905.8	15465.9	15391.2	15853.0	17883.9	19908.0	19982.7
25°	22176.6	22509.4	22747.1	21544.9	17897.5	16029.6	15676.4	16471.1	18671.8	21816.6	22611.3
27.5°	24003.7	24350.1	24295.8	22577.3	18563.1	16179.1	15880.2	16620.6	19357.8	22271.7	23983.3
30°	25430.1	25640.6	26021.0	23134.3	19228.8	16600.2	16090.8	17252.2	19582.0	23059.6	25640.6
32.5°	27094.2	27236.8	27264.0	24119.2	20254.4	17130.0	16742.8	18040.1	20573.6	23813.5	27107.8
35°	28771.8	28982.4	28540.9	25335.0	20886.1	18114.9	17829.6	19405.4	21368.3	24594.6	28724.3
37.5°	30592.2	30700.8	29682.0	25837.6	21789.4	19717.8	19561.6	20879.3	22747.1	26007.4	30517.4
40°	32120.4	32222.3	30897.8	26455.7	22740.4	21959.2	22360.0	23691.3	24621.8	26924.4	31414.0
42.5°	32969.4	33207.2	31305.3	26116.1	24649.0	24499.5	26279.1	26747.8	26795.3	27182.5	32215.5
45°	33200.4	33091.7	30632.9	26394.6	26319.9	28676.8	30293.3	30911.4	28955.2	27657.9	32419.3
47.5°	32134.0	32276.6	29641.2	26150.0	28513.7	31841.9	33933.9	35081.8	30565.0	27243.6	31916.6
50°	31271.4	31088.0	29322.0	25973.4	29104.7	33336.2	36562.5	36820.6	32045.7	27753.0	31366.5
52.5°	31441.2	31556.7	29831.4	26442.1	29118.2	33424.5	36970.1	36793.5	32093.2	27637.5	31169.5
55°	31801.2	31291.8	29614.1	25409.7	27168.9	30958.9	32813.2	32541.5	29620.9	26408.2	30687.3
57.5°	27440.6	28228.5	27230.0	22686.0	22298.9	23324.5	23290.5	24126.0	22095.1	22726.8	27936.4
60°	22271.7	22407.5	22781.1	19405.4	15431.9	15078.7	14589.7	14059.9	14868.2	19432.5	25409.7
62.5°	19588.8	19425.7	20757.0	17653.0	10894.7	9122.0	9040.4	9366.5	11472.1	18536.0	23833.9
65°	14236.5	14440.3	15404.8	13699.9	8177.8	6962.0	6839.8	7804.3	9285.0	14854.6	18189.6
67.5°	8694.0	9088.0	9176.3	8449.5	5549.2	4408.2	4231.6	5107.7	6703.9	9611.0	10663.8
70°	4014.2	4489.7	4937.9	4611.9	3212.7	1813.5	1711.6	2146.3	3382.5	5528.9	5657.9
72.5°	1215.8	1222.6	1711.6	1786.4	1039.2	407.5	360.0	475.5	1147.9	1827.1	1922.2
75°	88.3	95.1	230.9	264.9	197.0	101.9	108.7	129.1	244.5	407.5	305.6
77.5°	6.8	6.8	6.8	34.0	61.1	67.9	88.3	101.9	129.1	149.4	135.8
80°	6.8	0.0	6.8	27.2	47.5	67.9	81.5	95.1	101.9	115.5	101.9
82.5°	0.0	0.0	0.0	20.4	47.5	67.9	74.7	101.9	115.5	135.8	115.5
85°	0.0	0.0	0.0	20.4	47.5	74.7	67.9	34.0	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: P533435

CATALOG NUMBER: GLAN-SA8D-760-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	17510.3	17510.3	17510.3	17510.3	17510.3	17510.3	17510.3	17510.3	17510.3	17510.3	17510.3
2.5°	18515.6	18250.7	17646.2	17340.5	16620.6	16518.7	15812.3	15696.8	15459.1	15330.0	15017.6
5°	16939.8	16620.6	15635.7	14807.0	13842.5	13170.1	12653.9	12185.2	11913.6	11662.2	11777.7
7.5°	15656.1	14725.5	13632.0	12246.4	11132.4	10412.5	9624.6	8979.3	8599.0	8340.8	8402.0
10°	14311.2	13706.7	12185.2	10629.8	9285.0	8775.5	8157.5	7661.6	7125.0	6663.2	6445.8
12.5°	13890.1	12993.5	11084.9	9502.3	8483.5	7987.7	7281.3	6710.7	6024.7	5460.9	5264.0
15°	13964.8	13102.2	10786.0	9094.8	7892.6	7036.7	6194.5	5488.1	4734.2	4340.2	4136.5
17.5°	15180.6	13686.3	10983.0	8666.9	7070.7	5882.1	4842.9	3946.3	3382.5	2975.0	2886.7
20°	16674.9	14949.7	11404.1	8354.4	6398.3	4679.8	3538.7	2764.4	2295.8	2227.8	2207.5
22.5°	18862.0	17014.5	12307.5	8143.9	5576.4	3647.4	2424.8	2010.5	1881.4	1867.9	1874.7
25°	21918.5	19602.3	13292.4	7967.3	4958.3	2812.0	1983.3	1704.8	1664.1	1643.7	1677.7
27.5°	23243.0	21164.6	13815.4	7586.9	4394.6	2533.5	1956.2	1691.3	1575.8	1541.8	1562.2
30°	24879.9	22203.8	14637.2	6934.9	3565.9	2085.2	1827.1	1840.7	1786.4	1616.5	1562.2
32.5°	27053.4	23501.1	15051.6	6473.0	3185.6	1725.2	1338.1	1229.4	1372.0	1399.2	1446.7
35°	28445.8	24818.8	15262.1	6201.3	2988.6	1473.9	1134.3	1032.4	998.5	1005.2	1032.4
37.5°	31033.7	26598.3	15527.0	5916.0	2839.1	1283.7	1025.6	930.5	883.0	883.0	910.2
40°	32582.3	28011.1	15887.0	5759.8	2689.7	1168.3	930.5	849.0	808.3	808.3	821.9
42.5°	32969.4	28710.7	15764.7	5705.5	2519.9	1141.1	849.0	787.9	740.4	733.6	726.8
45°	33662.2	29777.1	15785.1	5644.3	2343.3	1039.2	801.5	733.6	665.6	658.8	652.1
47.5°	34423.0	30544.6	15825.9	5406.6	2173.5	869.4	835.4	679.2	597.7	584.1	584.1
50°	33770.9	31155.9	16179.1	5168.9	1956.2	706.4	821.9	638.5	529.8	509.4	516.2
52.5°	33852.4	31875.9	16926.2	4836.1	1684.5	563.8	665.6	604.5	482.2	448.3	455.1
55°	32548.3	31115.2	17028.1	4482.9	1317.7	434.7	509.4	529.8	407.5	393.9	393.9
57.5°	28017.9	26347.0	15024.4	3633.8	869.4	360.0	366.8	461.9	353.2	339.6	346.4
60°	23976.5	21151.0	12090.2	2397.7	543.4	285.3	264.9	468.7	312.4	305.6	326.0
62.5°	21857.4	17381.3	9169.5	1487.5	373.6	217.4	183.4	380.4	271.7	271.7	298.9
65°	15791.9	11675.8	5331.9	781.1	264.9	169.8	135.8	217.4	224.1	230.9	244.5
67.5°	9780.8	5895.6	2248.2	380.4	176.6	115.5	88.3	135.8	149.4	149.4	163.0
70°	4829.3	2350.1	747.1	217.4	135.8	95.1	61.1	74.7	74.7	67.9	74.7
72.5°	1494.3	706.4	190.2	135.8	95.1	61.1	34.0	27.2	13.6	0.0	6.8
75°	169.8	135.8	122.3	95.1	61.1	27.2	6.8	0.0	0.0	0.0	0.0
77.5°	101.9	115.5	115.5	95.1	61.1	20.4	0.0	0.0	0.0	0.0	0.0
80°	81.5	88.3	95.1	88.3	54.3	27.2	0.0	0.0	0.0	0.0	0.0
82.5°	101.9	115.5	129.1	115.5	74.7	34.0	13.6	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	20.4	6.8	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: P533435

CATALOG NUMBER: GLAN-SA8D-760-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	17510.3	17510.3	17510.3	17510.3	17510.3	17510.3	17510.3	17510.3	17510.3	17510.3	17510.3
2.5°	14888.5	14739.1	14949.7	14637.2	14630.4	14637.2	14548.9	14467.4	14596.5	14942.9	14976.8
5°	11363.4	11682.6	11784.5	12117.3	11933.9	11662.2	11716.6	11533.2	11981.5	12178.5	12022.2
7.5°	8272.9	8252.5	8938.6	8979.3	9067.6	9074.4	9060.8	8700.8	8334.1	8415.6	8660.1
10°	6418.6	6072.2	6405.1	6371.1	6588.5	6527.3	6615.6	6228.5	6357.5	6357.5	6513.7
12.5°	5230.0	4863.2	4802.1	4713.8	4802.1	4836.1	4870.0	4795.3	5012.7	5114.5	5223.2
15°	3993.8	3790.1	3735.7	3565.9	3593.1	3688.2	3769.7	3803.6	3735.7	3891.9	3905.5
17.5°	2900.3	2893.5	2927.4	2920.7	2893.5	2873.1	2866.3	2778.0	2750.8	2764.4	2818.8
20°	2200.7	2255.0	2370.5	2486.0	2547.1	2472.4	2370.5	2221.1	2159.9	2173.5	2180.3
22.5°	1881.4	1963.0	2119.2	2248.2	2309.4	2173.5	1990.1	1861.1	1833.9	1827.1	1820.3
25°	1704.8	1799.9	1915.4	1956.2	1949.4	1867.9	1732.0	1677.7	1664.1	1650.5	1589.4
27.5°	1609.8	1643.7	1664.1	1711.6	1732.0	1677.7	1643.7	1562.2	1548.6	1548.6	1507.9
30°	1555.4	1535.0	1562.2	1528.2	1555.4	1514.7	1521.5	1521.5	1487.5	1501.1	1501.1
32.5°	1446.7	1453.5	1453.5	1385.6	1406.0	1358.4	1406.0	1446.7	1453.5	1460.3	1514.7
35°	1059.6	1181.8	1243.0	1243.0	1263.4	1229.4	1222.6	1175.1	1113.9	1052.8	1025.6
37.5°	930.5	978.1	1059.6	1107.1	1141.1	1113.9	1052.8	978.1	944.1	916.9	889.8
40°	828.7	869.4	923.7	978.1	1046.0	1012.0	916.9	883.0	842.2	842.2	815.1
42.5°	747.1	767.5	801.5	883.0	957.7	889.8	821.9	794.7	774.3	767.5	760.7
45°	672.4	679.2	713.2	781.1	869.4	801.5	733.6	699.6	706.4	713.2	706.4
47.5°	604.5	618.1	638.5	720.0	774.3	740.4	665.6	645.3	645.3	645.3	652.1
50°	523.0	557.0	597.7	665.6	706.4	686.0	624.9	597.7	584.1	584.1	590.9
52.5°	468.7	495.8	550.2	631.7	686.0	652.1	590.9	550.2	523.0	516.2	529.8
55°	407.5	455.1	543.4	604.5	679.2	645.3	577.3	529.8	482.2	475.5	475.5
57.5°	366.8	441.5	523.0	597.7	658.8	631.7	577.3	516.2	455.1	448.3	448.3
60°	346.4	427.9	509.4	577.3	658.8	618.1	570.5	502.6	434.7	434.7	427.9
62.5°	326.0	400.7	482.2	550.2	631.7	597.7	550.2	482.2	414.3	414.3	400.7
65°	271.7	346.4	400.7	461.9	550.2	516.2	468.7	421.1	366.8	353.2	360.0
67.5°	190.2	237.7	292.1	353.2	407.5	393.9	373.6	339.6	292.1	285.3	278.5
70°	95.1	129.1	176.6	237.7	285.3	271.7	258.1	230.9	203.8	197.0	197.0
72.5°	13.6	40.8	74.7	108.7	149.4	156.2	149.4	142.6	135.8	129.1	135.8
75°	0.0	0.0	0.0	27.2	61.1	74.7	88.3	101.9	101.9	88.3	108.7
77.5°	0.0	0.0	0.0	0.0	6.8	34.0	67.9	88.3	108.7	95.1	129.1
80°	0.0	0.0	0.0	0.0	6.8	40.8	67.9	95.1	108.7	95.1	135.8
82.5°	0.0	0.0	0.0	0.0	6.8	47.5	67.9	88.3	101.9	95.1	122.3
85°	0.0	0.0	0.0	0.0	20.4	40.8	27.2	13.6	6.8	6.8	20.4
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: P533435

CATALOG NUMBER: GLAN-SA8D-760-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	17510.3	17510.3	17510.3	17510.3	17510.3	17510.3	17510.3	17510.3	17510.3	17510.3
2.5°	15167.0	15649.3	16165.5	16362.5	16973.8	17435.6	17748.1	18420.5	18522.4	18529.2
5°	12185.2	12429.8	13312.8	13727.1	14637.2	15343.6	16097.6	17184.3	17911.1	17965.4
7.5°	8660.1	9339.3	9712.9	10792.8	11913.6	13020.7	14141.4	15404.8	16247.0	16267.4
10°	6968.8	7410.3	8075.9	8884.2	9828.3	10955.9	12450.1	13917.3	14773.1	14983.6
12.5°	5610.4	6384.7	7145.4	7980.9	8700.8	9549.9	11159.6	13115.8	13822.2	14243.3
15°	4319.9	5026.2	5922.8	6900.9	7716.0	8850.3	10684.2	12918.8	14107.4	14250.1
17.5°	3185.6	3817.2	4645.9	5569.6	6792.2	8402.0	10765.7	13917.3	15038.0	15275.7
20°	2289.0	2655.8	3307.8	4381.0	5936.4	7879.0	10847.2	14929.3	16634.1	17041.7
22.5°	1813.5	1963.0	2390.9	3341.8	4978.7	7328.8	11424.5	16865.1	18828.0	19419.0
25°	1575.8	1657.3	1861.1	2635.4	4374.2	7274.5	12348.3	19188.0	21748.7	22176.6
27.5°	1521.5	1535.0	1711.6	2418.0	4048.2	6914.5	12701.5	20838.5	23569.0	24003.7
30°	1603.0	1820.3	1833.9	2044.5	3443.7	6201.3	12884.8	22434.7	25110.8	25430.1
32.5°	1385.6	1317.7	1365.2	1582.6	3029.3	5787.0	13231.2	23827.1	26870.0	27094.2
35°	964.5	1012.0	1120.7	1372.0	2649.0	5352.3	13319.5	25362.1	28540.9	28771.8
37.5°	889.8	916.9	1005.2	1168.3	2329.7	5107.7	13197.3	26482.9	30272.9	30592.2
40°	828.7	862.6	910.2	1059.6	2092.0	4836.1	13027.5	27494.9	31332.5	32120.4
42.5°	781.1	808.3	849.0	1012.0	1888.2	4564.4	12789.8	28921.3	32283.4	32969.4
45°	726.8	767.5	815.1	984.9	1772.8	4381.0	12613.2	28833.0	32833.6	33200.4
47.5°	672.4	740.4	794.7	916.9	1738.8	4292.7	12687.9	28500.2	32385.3	32134.0
50°	618.1	706.4	801.5	760.7	1657.3	4116.1	12776.2	28955.2	31318.9	31271.4
52.5°	570.5	672.4	747.1	624.9	1473.9	3946.3	13632.0	29552.9	32072.9	31441.2
55°	502.6	604.5	597.7	502.6	1195.4	3817.2	14304.4	29566.5	31563.4	31801.2
57.5°	455.1	536.6	468.7	421.1	883.0	3192.3	13210.9	24791.6	27019.5	27440.6
60°	421.1	523.0	353.2	332.8	577.3	2302.6	11533.2	19201.6	21477.0	22271.7
62.5°	387.2	495.8	278.5	271.7	400.7	1636.9	9481.9	16070.4	18508.8	19588.8
65°	339.6	353.2	224.1	210.6	285.3	883.0	5773.4	11064.5	13835.8	14236.5
67.5°	278.5	271.7	183.4	169.8	190.2	427.9	2547.1	5542.5	8021.6	8694.0
70°	224.1	224.1	156.2	135.8	135.8	197.0	665.6	2207.5	3627.0	4014.2
72.5°	163.0	169.8	122.3	108.7	101.9	95.1	108.7	441.5	950.9	1215.8
75°	142.6	149.4	122.3	95.1	74.7	61.1	47.5	40.8	54.3	88.3
77.5°	156.2	156.2	129.1	88.3	67.9	47.5	27.2	13.6	13.6	6.8
80°	197.0	203.8	169.8	115.5	81.5	54.3	34.0	13.6	6.8	6.8
82.5°	210.6	230.9	190.2	142.6	101.9	61.1	34.0	6.8	0.0	0.0
85°	54.3	88.3	149.4	129.1	101.9	61.1	34.0	6.8	0.0	0.0
87.5°	0.0	6.8	20.4	20.4	27.2	27.2	20.4	6.8	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

(END OF REPORT)