

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: P452757

Luminaire Tested: **GLAN-SA3D-727-U-SLR**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452757  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA3D-727-U-SLR  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16648 lumens  
Efficiency: N/A  
Efficacy: 90.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G3

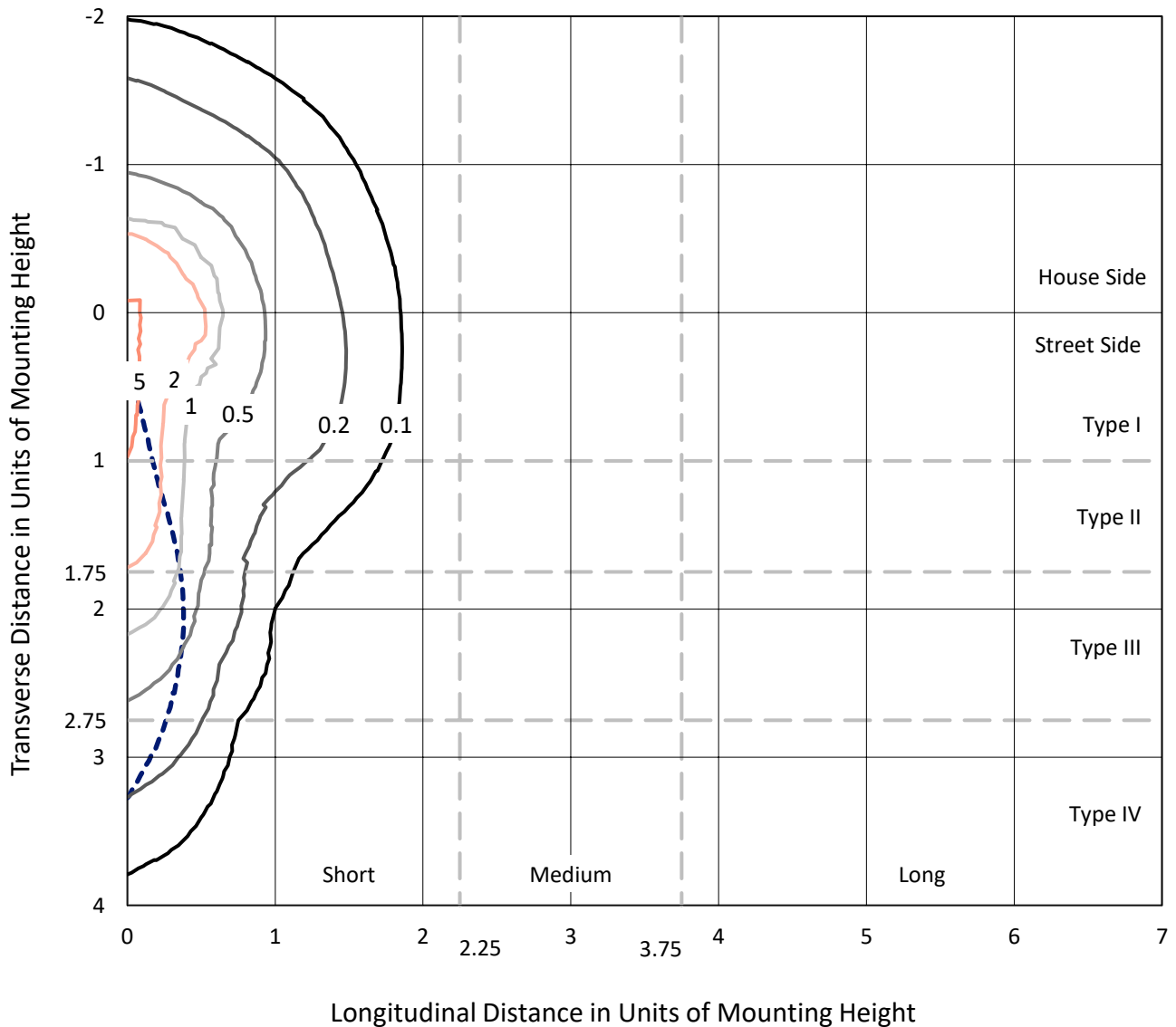
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

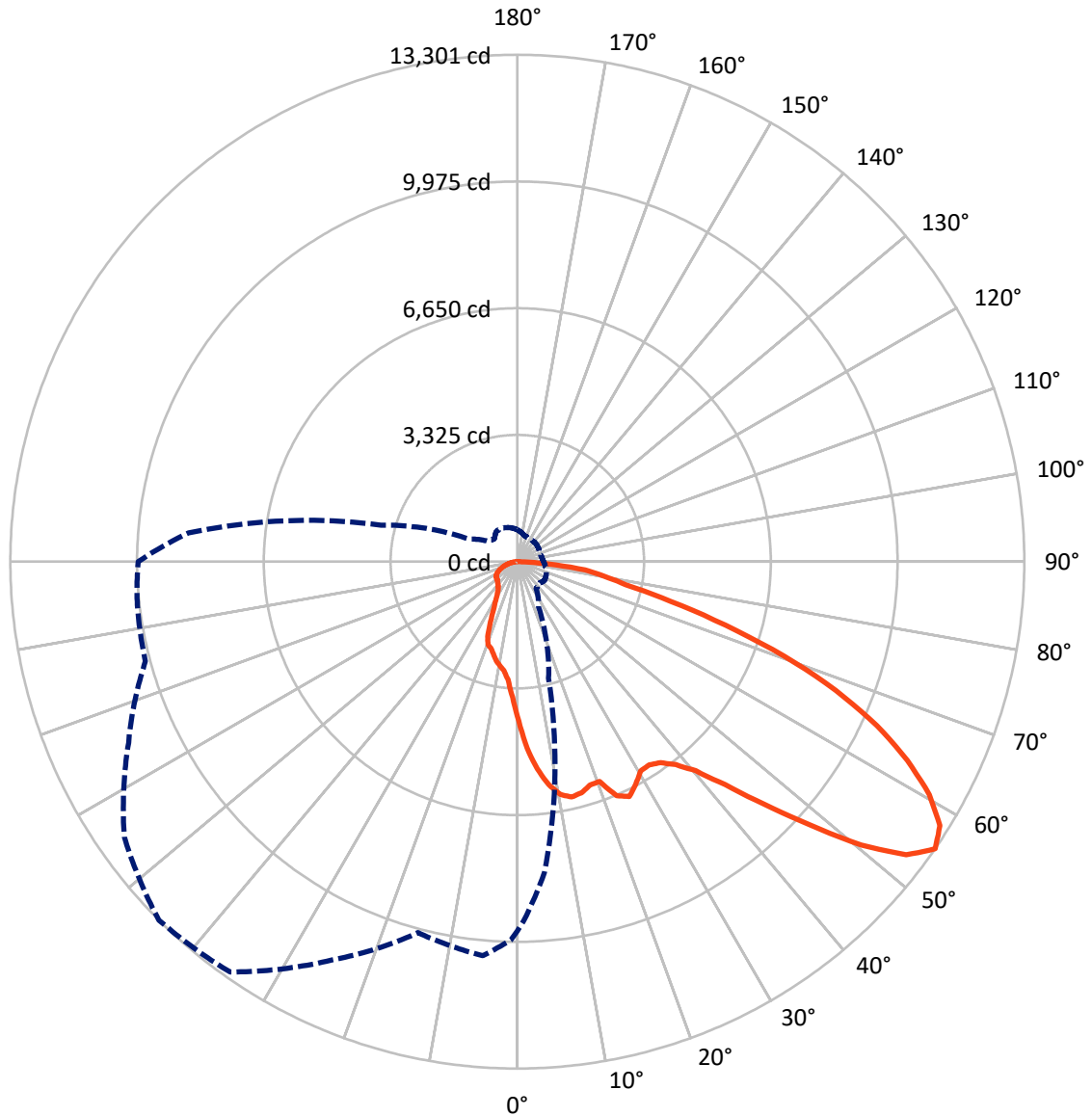
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3641.7	0.0	3641.7
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	13006.3	0.0	13006.3
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	16648.0	0.0	16648.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	354.1	2.1
10°-20°	939.4	5.6
20°-30°	1622.9	9.7
30°-40°	1886.1	11.3
40°-50°	2631.5	15.8
50°-60°	3570.6	21.4
60°-70°	3397.0	20.4
70°-80°	1835.2	11.0
80°-90°	411.3	2.5
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°	16648.0	100.0
0°-180°	16648.0	100.0

**Coefficient of Utilization**



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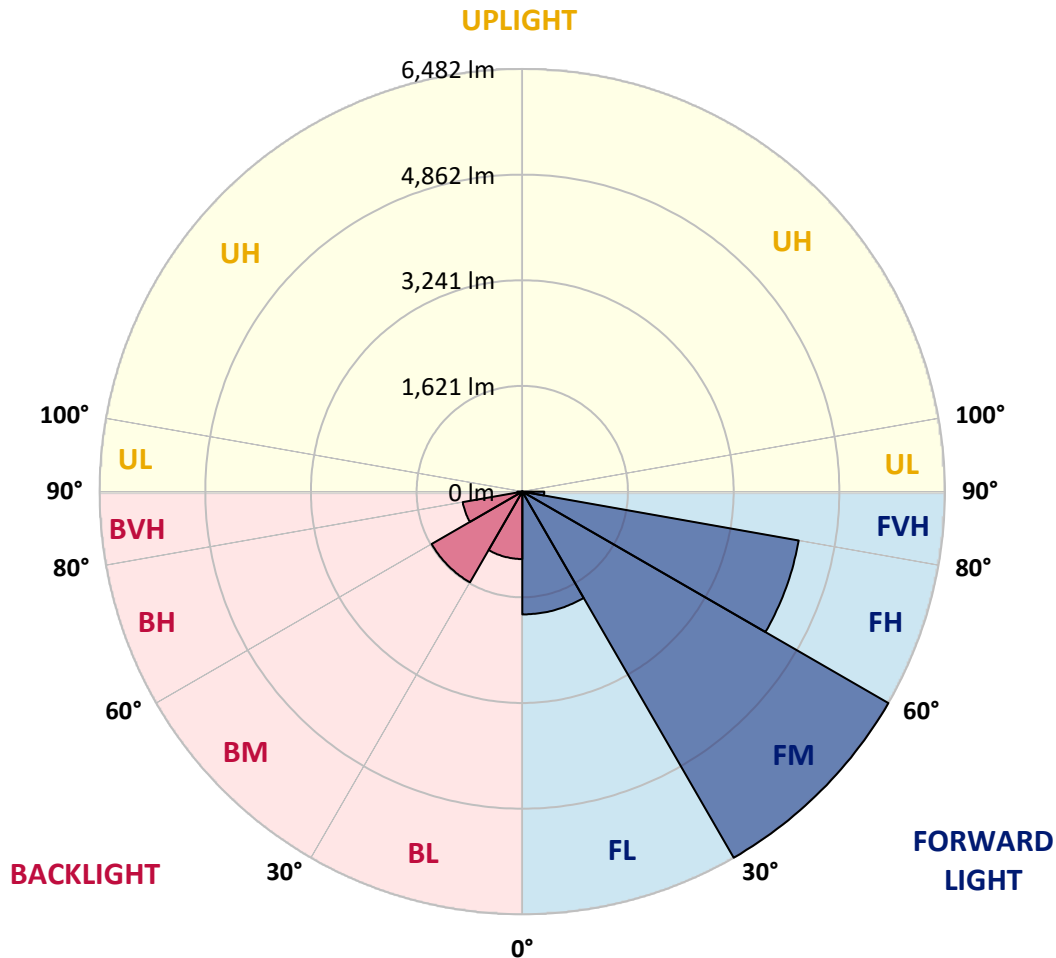
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1882.9	11.3			
FM	(30°-60°)	6482.4	38.9			
FH	(60°-80°)	4304.9	25.9			G2/5000
FVH	(80°-90°)	336.1	2.0			G3/500
BL	(0°-30°)	1033.5	6.2	B3/2500		
BM	(30°-60°)	1605.7	9.6	B2/2500		
BH	(60°-80°)	927.3	5.6	B2/1000		G2/1000
BVH	(80°-90°)	75.2	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4178.0	4178.0	4178.0	4178.0	4178.0	4178.0	4178.0	4178.0	4178.0	4178.0	4178.0
2.5°	4641.5	4623.9	4574.5	4444.9	4314.2	4181.3	4079.1	3951.7	3818.8	3747.5	3656.3
5°	4705.2	4685.4	4569.0	4276.8	4012.2	3734.3	3512.4	3318.0	3238.9	3122.5	3029.2
7.5°	4555.8	4547.0	4372.4	3952.8	3590.4	3226.9	2975.3	2819.4	2677.7	2625.0	2636.0
10°	4419.6	4384.5	4165.9	3617.9	3195.0	2899.6	2719.4	2566.8	2466.8	2440.5	2446.0
12.5°	4306.5	4259.3	4001.2	3392.7	3022.6	2786.4	2556.9	2397.6	2306.5	2331.7	2417.4
15°	4283.4	4219.7	3932.0	3315.8	2928.1	2623.9	2372.4	2188.9	2120.9	2175.8	2313.1
17.5°	4432.8	4352.6	4050.6	3341.1	2838.1	2458.0	2149.4	1939.6	1882.5	1970.4	2149.4
20°	4912.8	4794.2	4420.7	3487.2	2829.3	2375.7	2019.8	1808.9	1833.1	2000.0	2186.7
22.5°	5800.2	5622.3	5068.7	3700.2	2875.4	2354.8	1993.4	1883.6	2016.5	2158.2	2281.2
25°	5975.9	5836.5	5185.2	3748.6	2865.5	2340.5	2068.1	2123.0	2271.3	2341.6	2298.8
27.5°	6074.8	5915.5	5177.5	3509.1	2562.4	2123.0	1977.0	2068.1	2105.5	2037.4	1921.0
30°	6305.4	6139.6	5308.2	3257.6	2109.9	1575.0	1380.6	1343.2	1368.5	1381.7	1339.9
32.5°	6622.9	6459.2	5554.2	3092.9	1824.3	1302.6	1111.5	1058.8	1046.7	1032.4	1015.9
35°	7033.6	6782.1	5795.8	2987.4	1706.8	1204.9	1029.1	988.5	972.0	952.2	934.7
37.5°	7451.0	7187.4	6101.2	2876.5	1628.8	1136.8	974.2	955.5	927.0	906.1	880.9
40°	7894.7	7599.3	6379.0	2779.8	1553.0	1092.8	934.7	932.5	895.1	871.0	841.3
42.5°	8279.1	7974.9	6627.2	2720.5	1494.8	1046.7	910.5	917.1	878.7	842.4	804.0
45°	8584.4	8285.7	6856.8	2720.5	1447.6	1000.6	906.1	901.7	863.3	818.2	774.3
47.5°	8852.4	8543.8	7080.8	2789.7	1417.9	962.1	881.9	889.6	850.1	793.0	750.2
50°	9060.0	8787.6	7382.9	2897.4	1388.3	931.4	851.2	892.9	839.1	779.8	730.4
52.5°	9324.7	9080.9	7746.4	3044.5	1363.0	897.3	823.7	892.9	838.0	780.9	727.1
55°	9691.5	9434.5	8184.7	3166.4	1322.4	865.5	799.6	867.7	834.7	775.4	718.3
57.5°	9948.6	9756.3	8494.4	3247.7	1264.2	824.8	777.6	843.5	820.4	754.5	691.9
58°	9960.6	9772.8	8539.4	3266.4	1249.9	817.1	772.1	832.5	813.9	745.8	683.2
60°	9822.2	9660.8	8548.2	3240.0	1168.6	778.7	743.6	787.5	778.7	694.1	635.9
62.5°	9319.2	9146.8	8193.4	3025.9	1061.0	731.5	699.6	727.1	707.3	621.6	567.8
65°	8604.2	8286.8	7464.2	2689.8	984.1	681.0	640.3	642.5	621.6	560.1	512.9
67.5°	7652.0	7297.2	6319.7	2266.9	925.9	624.9	570.0	564.5	539.3	499.7	461.3
70°	6480.1	6237.3	5135.7	1844.1	861.1	563.4	490.9	487.7	472.3	442.6	408.6
72.5°	5252.2	4943.5	4147.2	1476.1	782.0	504.1	417.4	424.0	404.2	383.3	352.6
75°	3876.0	3673.9	3206.0	1184.0	675.5	439.3	348.2	350.4	341.6	319.6	295.4
77.5°	2552.5	2492.1	2293.3	777.6	519.5	349.3	284.5	286.7	280.1	260.3	235.0
80°	1717.8	1677.1	1554.1	500.8	347.1	252.6	219.7	221.9	220.8	199.9	165.8
82.5°	1058.8	1041.2	1001.7	338.3	240.5	181.2	145.0	151.6	163.6	140.6	113.1
85°	499.7	500.8	605.2	184.5	141.7	116.4	79.1	84.6	84.6	84.6	63.7
87.5°	64.8	68.1	83.5	78.0	51.6	43.9	28.6	24.2	20.9	27.5	19.8
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°	4178.0	4178.0	4178.0	4178.0	4178.0	4178.0	4178.0	4178.0	4178.0	4178.0	4178.0
2.5°	3624.4	3602.5	3555.3	3544.3	3537.7	3556.4	3506.9	3520.1	3498.1	3559.6	3549.8
5°	3034.6	3036.8	3075.3	3100.5	3109.3	3100.5	3067.6	3010.5	2966.6	2949.0	2953.4
7.5°	2615.1	2653.5	2719.4	2793.0	2860.0	2879.8	2861.1	2752.4	2633.8	2559.1	2534.9
10°	2475.6	2527.2	2603.0	2661.2	2720.5	2767.8	2777.6	2693.1	2552.5	2375.7	2306.5
12.5°	2483.3	2553.6	2626.1	2644.7	2639.3	2657.9	2649.1	2634.9	2542.6	2317.4	2202.1
15°	2410.8	2494.3	2544.8	2534.9	2517.3	2500.9	2477.8	2441.6	2408.6	2250.5	2123.0
17.5°	2243.9	2329.5	2371.3	2374.6	2374.6	2370.2	2314.2	2301.0	2296.6	2219.7	2141.7
20°	2274.6	2321.8	2303.2	2272.4	2281.2	2310.9	2277.9	2271.3	2296.6	2330.6	2316.4
22.5°	2292.2	2275.7	2135.1	1998.9	1968.2	2060.4	2079.1	2152.7	2254.8	2377.9	2458.0
25°	2183.5	2050.6	1799.0	1645.3	1558.5	1644.2	1756.2	1892.4	2045.1	2203.2	2296.6
27.5°	1825.4	1724.4	1544.2	1405.8	1330.1	1343.2	1438.8	1562.9	1704.6	1811.1	1879.2
30°	1375.1	1330.1	1236.7	1189.5	1143.3	1132.4	1173.0	1220.2	1282.8	1296.0	1313.6
32.5°	1012.6	1006.1	1011.5	996.2	987.4	986.3	974.2	985.2	991.8	999.5	984.1
35°	916.0	907.2	891.8	887.4	881.9	884.1	878.7	873.2	877.6	884.1	888.5
37.5°	866.6	853.4	831.4	823.7	823.7	827.0	818.2	816.0	823.7	844.6	855.6
40°	828.1	812.8	787.5	777.6	784.2	793.0	780.9	776.5	795.2	817.1	834.7
42.5°	791.9	779.8	755.6	744.7	750.2	766.6	749.1	745.8	769.9	794.1	815.0
45°	761.1	749.1	727.1	721.6	723.8	739.2	727.1	727.1	750.2	776.5	795.2
47.5°	737.0	721.6	707.3	702.9	705.1	713.9	711.7	711.7	733.7	761.1	779.8
50°	712.8	699.6	681.0	683.2	688.6	700.7	699.6	702.9	724.9	758.9	778.7
52.5°	701.8	682.1	661.2	663.4	679.9	694.1	689.7	693.0	718.3	782.0	810.6
55°	689.7	663.4	639.2	642.5	661.2	682.1	676.6	681.0	710.6	797.4	836.9
57.5°	666.7	635.9	609.6	611.8	639.2	661.2	652.4	657.9	693.0	780.9	822.6
58°	656.8	630.4	605.2	606.3	632.6	656.8	646.9	651.3	687.5	776.5	816.0
60°	615.1	599.7	577.7	578.8	604.1	624.9	619.5	623.8	659.0	744.7	774.3
62.5°	557.9	549.2	543.7	543.7	559.0	578.8	584.3	589.8	621.6	673.3	699.6
65°	496.4	496.4	497.5	497.5	507.4	532.7	536.0	550.3	579.9	605.2	624.9
67.5°	454.7	452.5	454.7	449.2	453.6	469.0	485.5	498.6	529.4	547.0	553.6
70°	400.9	399.8	400.9	393.2	398.7	411.9	422.9	444.8	476.7	489.8	493.1
72.5°	348.2	348.2	350.4	344.9	344.9	359.1	366.8	391.0	420.7	428.3	429.4
75°	293.3	296.5	296.5	288.9	291.1	299.8	309.7	329.5	357.0	362.4	362.4
77.5°	232.8	244.9	244.9	237.2	240.5	241.6	254.8	264.7	285.6	287.8	279.0
80°	169.1	181.2	191.1	184.5	190.0	183.4	191.1	197.7	218.6	208.7	194.4
82.5°	120.8	129.6	137.3	138.4	132.9	120.8	130.7	131.8	141.7	128.5	120.8
85°	67.0	74.7	84.6	80.2	71.4	63.7	67.0	69.2	68.1	64.8	60.4
87.5°	17.6	18.7	20.9	15.4	14.3	12.1	16.5	16.5	18.7	19.8	18.7
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°	4178.0	4178.0	4178.0	4178.0	4178.0	4178.0	4178.0	4178.0	4178.0	4178.0	4178.0
2.5°	3557.4	3605.8	3710.1	3789.2	3885.8	4003.4	4141.8	4281.2	4431.7	4478.9	4544.8
5°	2943.5	3064.3	3114.8	3258.7	3401.5	3615.7	3844.1	4108.8	4398.8	4538.2	4672.2
7.5°	2515.1	2579.9	2632.7	2738.1	2909.4	3169.7	3456.4	3787.0	4197.8	4401.0	4597.6
10°	2284.5	2291.1	2355.9	2486.6	2636.0	2865.5	3136.8	3506.9	3964.9	4212.0	4442.7
12.5°	2131.8	2103.3	2173.6	2309.8	2478.9	2690.9	2940.2	3292.8	3796.9	4050.6	4329.6
15°	1997.8	1952.8	2005.5	2145.0	2312.0	2561.3	2829.3	3202.7	3731.0	4026.4	4336.2
17.5°	2001.1	1877.0	1895.7	2013.2	2179.1	2432.8	2757.9	3199.4	3830.9	4171.4	4538.2
20°	2248.3	2049.5	1964.9	1986.9	2147.2	2424.0	2790.8	3353.2	4159.3	4655.8	5047.9
22.5°	2491.0	2371.3	2235.1	2190.0	2277.9	2567.9	3000.6	3716.7	4873.2	5621.2	6329.6
25°	2406.4	2508.6	2474.5	2410.8	2430.6	2671.1	3143.4	4015.4	5427.9	6270.3	6935.9
27.5°	1925.3	2111.0	2148.3	2147.2	2154.9	2352.6	2827.1	3814.5	5497.1	6394.4	7030.3
30°	1353.1	1369.6	1389.4	1427.8	1463.0	1639.8	2212.0	3348.8	5466.3	6450.4	7087.4
32.5°	976.4	998.4	1025.8	1078.5	1162.0	1387.2	1935.2	3200.5	5628.9	6682.2	7254.4
35°	892.9	918.2	944.6	1005.0	1084.0	1292.7	1825.4	3139.0	5895.8	7057.8	7554.2
37.5°	866.6	895.1	918.2	962.1	1025.8	1224.6	1725.5	3097.3	6169.2	7455.4	7956.2
40°	847.9	880.9	899.5	934.7	978.6	1162.0	1636.5	3064.3	6433.9	7818.9	8279.1
42.5°	831.4	865.5	889.6	914.9	951.1	1106.0	1557.4	3031.4	6663.5	8171.5	8600.9
45°	811.7	854.5	885.2	905.0	936.9	1058.8	1497.0	3005.0	6924.9	8484.5	8926.0
47.5°	795.2	842.4	880.9	903.9	916.0	1025.8	1448.7	3041.2	7239.0	8811.8	9228.1
50°	796.3	841.3	889.6	925.9	894.0	998.4	1419.0	3185.1	7647.6	9200.6	9466.4
52.5°	831.4	886.3	924.8	933.6	863.3	965.4	1403.6	3436.6	8130.8	9544.4	9706.9
55°	871.0	928.1	969.8	964.3	846.8	923.7	1400.4	3704.6	8660.2	9945.3	10019.9
57.5°	856.7	940.2	1003.9	975.3	847.9	883.0	1386.1	3921.0	9102.9	10245.1	10329.7
58°	852.3	935.8	1008.3	973.1	844.6	871.0	1382.8	3939.7	9164.4	10266.0	10373.6
60°	809.5	897.3	1005.0	956.6	825.9	838.0	1346.5	4000.1	9147.9	10158.3	10400.0
62.5°	731.5	804.0	929.2	876.5	768.8	794.1	1265.3	3925.4	8702.0	9639.9	10014.5
65°	643.6	697.4	780.9	771.0	687.5	749.1	1154.3	3629.9	7809.0	8798.6	9192.9
67.5°	577.7	621.6	674.4	660.1	618.4	688.6	1034.6	3130.2	6807.4	7788.2	8284.6
70°	510.7	544.8	571.1	561.2	548.1	629.3	928.1	2540.4	5847.4	6828.2	7309.3
72.5°	442.6	474.5	496.4	482.2	474.5	566.7	841.3	1971.5	4618.4	5633.3	6251.6
75°	370.1	402.0	417.4	400.9	396.5	499.7	712.8	1472.8	3465.2	4342.7	4876.5
77.5°	286.7	320.7	340.5	335.0	337.2	410.8	575.5	1008.3	2477.8	2960.0	3522.3
80°	201.0	238.3	251.5	246.0	261.4	313.0	406.4	640.3	1709.0	1921.0	2317.4
82.5°	124.1	159.3	161.5	166.9	177.9	231.7	306.4	389.9	1073.1	1109.3	1397.1
85°	62.6	75.8	81.3	90.1	99.9	141.7	174.6	241.6	690.8	522.8	780.9
87.5°	20.9	22.0	26.4	32.9	40.6	58.2	74.7	98.8	171.3	94.5	241.6
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: P452757

CATALOG NUMBER: GLAN-SA3D-727-U-SLR

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4178.0	4178.0	4178.0	4178.0	4178.0	4178.0	4178.0	4178.0	4178.0	4178.0
2.5°	4677.7	4771.1	4839.2	4901.8	4841.4	4835.9	4776.6	4681.0	4641.5	4641.5
5°	4953.4	5172.0	5348.8	5461.9	5413.6	5297.2	5105.0	4860.1	4728.3	4705.2
7.5°	5029.2	5460.8	5789.2	5905.7	5824.4	5567.4	5199.4	4786.5	4597.6	4555.8
10°	4983.1	5544.3	6026.5	6211.0	6097.9	5709.1	5207.1	4700.8	4468.0	4419.6
12.5°	4934.7	5555.3	6070.4	6337.3	6263.7	5823.3	5263.1	4644.8	4375.7	4306.5
15°	4969.9	5559.7	6016.6	6292.3	6339.5	5960.6	5355.4	4685.4	4357.0	4283.4
17.5°	5191.7	5643.2	5939.7	6162.7	6328.5	6147.3	5617.9	4879.8	4524.0	4432.8
20°	5655.2	5843.0	5983.6	6156.1	6423.0	6528.4	6155.0	5413.6	4992.9	4912.8
22.5°	6997.4	6963.3	6675.6	6672.3	7058.9	7481.7	7456.5	6498.7	5866.1	5800.2
25°	7500.4	7342.2	6926.0	6824.9	6995.2	7647.6	7553.1	6720.6	6136.3	5975.9
27.5°	7303.8	6911.7	6638.2	6615.2	6559.1	7175.3	7402.7	6810.7	6230.8	6074.8
30°	7291.7	6715.1	6324.1	6370.2	6424.1	7012.8	7486.1	7092.9	6472.4	6305.4
32.5°	7321.4	6742.6	6347.2	6356.0	6516.3	7036.9	7578.4	7400.5	6789.8	6622.9
35°	7441.1	6898.5	6494.3	6473.5	6723.9	7195.1	7735.4	7883.7	7223.6	7033.6
37.5°	7634.4	7209.4	6763.4	6757.9	7121.5	7480.6	7930.9	8371.4	7655.3	7451.0
40°	7918.9	7572.9	7242.3	7212.6	7661.9	7945.2	8184.7	8890.9	8157.2	7894.7
42.5°	8262.6	8008.9	7873.8	7991.4	8423.0	8466.9	8580.1	9370.8	8584.4	8279.1
45°	8581.2	8569.1	8756.9	9068.8	9320.3	9056.7	8993.0	9692.6	8916.1	8584.4
47.5°	8960.1	9287.4	9854.1	10311.0	10574.6	9743.2	9345.6	9902.4	9157.8	8852.4
50°	9344.5	10147.4	11052.4	11689.4	11745.4	10488.9	9588.3	10100.1	9377.4	9060.0
52.5°	9748.7	10833.8	12038.7	12778.9	12670.2	11138.0	9823.3	10234.1	9603.7	9324.7
55°	10100.1	11254.5	12590.0	13300.6	13141.4	11533.4	10077.1	10379.1	9926.6	9691.5
57.5°	10296.7	11289.6	12452.7	13073.3	12900.8	11456.5	10193.5	10486.7	10133.1	9948.6
58°	10325.3	11242.4	12330.8	12941.5	12765.7	11391.7	10192.4	10482.3	10146.3	9960.6
60°	10300.0	10935.9	11877.2	12420.9	12236.3	10985.4	10150.6	10400.0	9979.3	9822.2
62.5°	10066.1	10404.4	11094.1	11489.5	11436.8	10350.5	9979.3	10089.1	9470.8	9319.2
65°	9758.5	9679.5	10091.3	10371.4	10410.9	9875.0	9809.1	9417.0	8818.4	8604.2
67.5°	9385.1	8857.9	8856.8	9016.1	9082.0	9143.5	9454.3	8686.6	7878.2	7652.0
70°	8751.4	7591.6	7242.3	7430.1	7375.2	7894.7	8820.6	7660.8	6744.8	6480.1
72.5°	7589.4	6024.3	5465.2	5706.9	5568.5	6191.2	7717.9	6304.3	5577.3	5252.2
75°	6151.7	4506.4	3929.8	4151.6	4066.0	4696.4	6421.9	4578.9	4000.1	3876.0
77.5°	4776.6	3265.3	2930.3	2899.6	2963.3	3494.8	4710.7	3091.8	2637.1	2552.5
80°	3068.7	2337.2	2357.0	2317.4	2350.4	2203.2	2860.0	1972.6	1785.9	1717.8
82.5°	2019.8	1628.8	1941.8	1792.5	1702.4	1481.6	1875.9	1291.6	1096.1	1058.8
85°	1376.2	1199.4	1091.7	834.7	983.0	1141.2	1406.9	695.2	551.4	499.7
87.5°	621.6	417.4	306.4	188.9	298.7	344.9	683.2	81.3	62.6	64.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)