

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: P529562

Luminaire Tested: **GLAN-SA4D-727-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529562
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4D-727-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19061 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

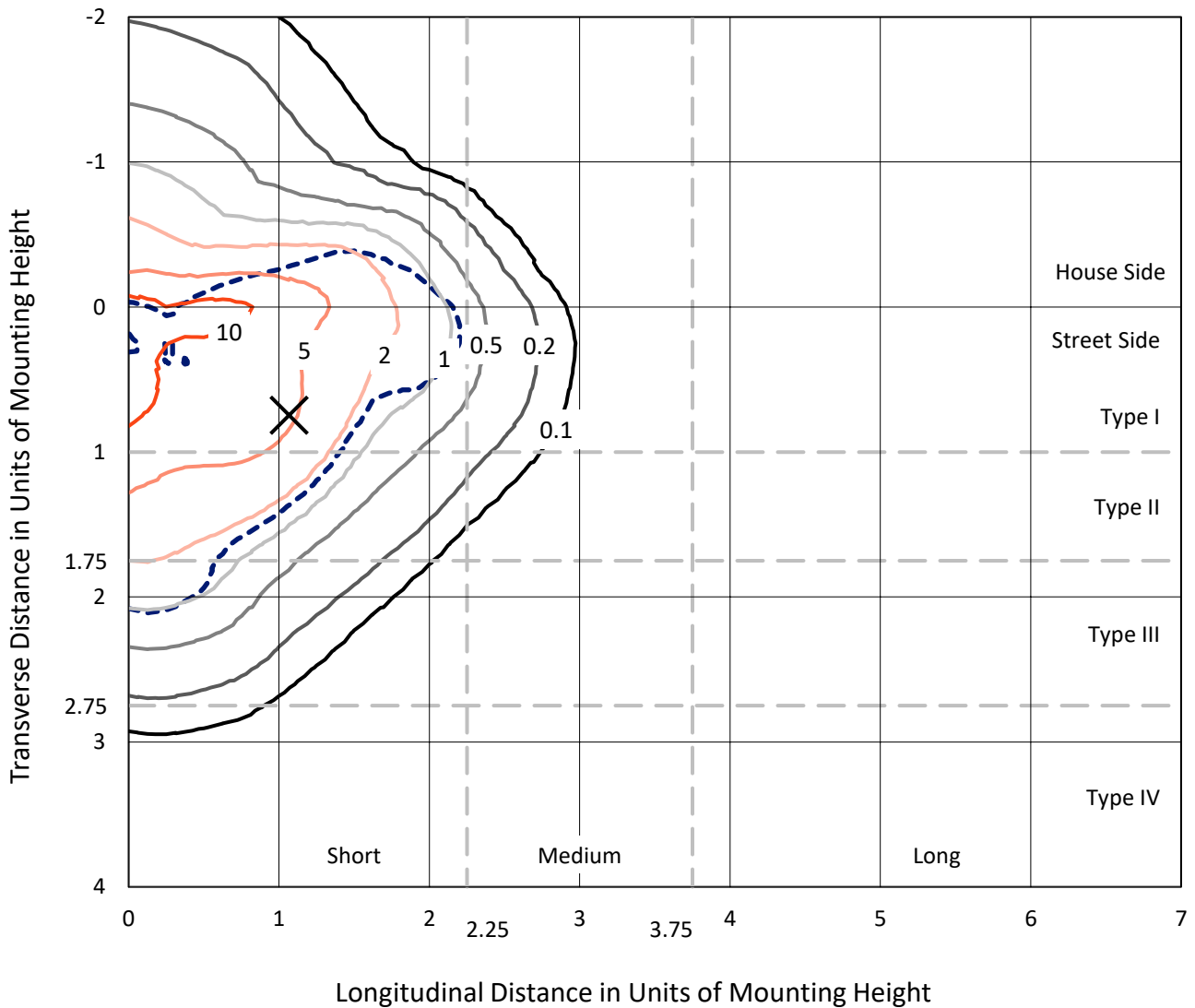
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

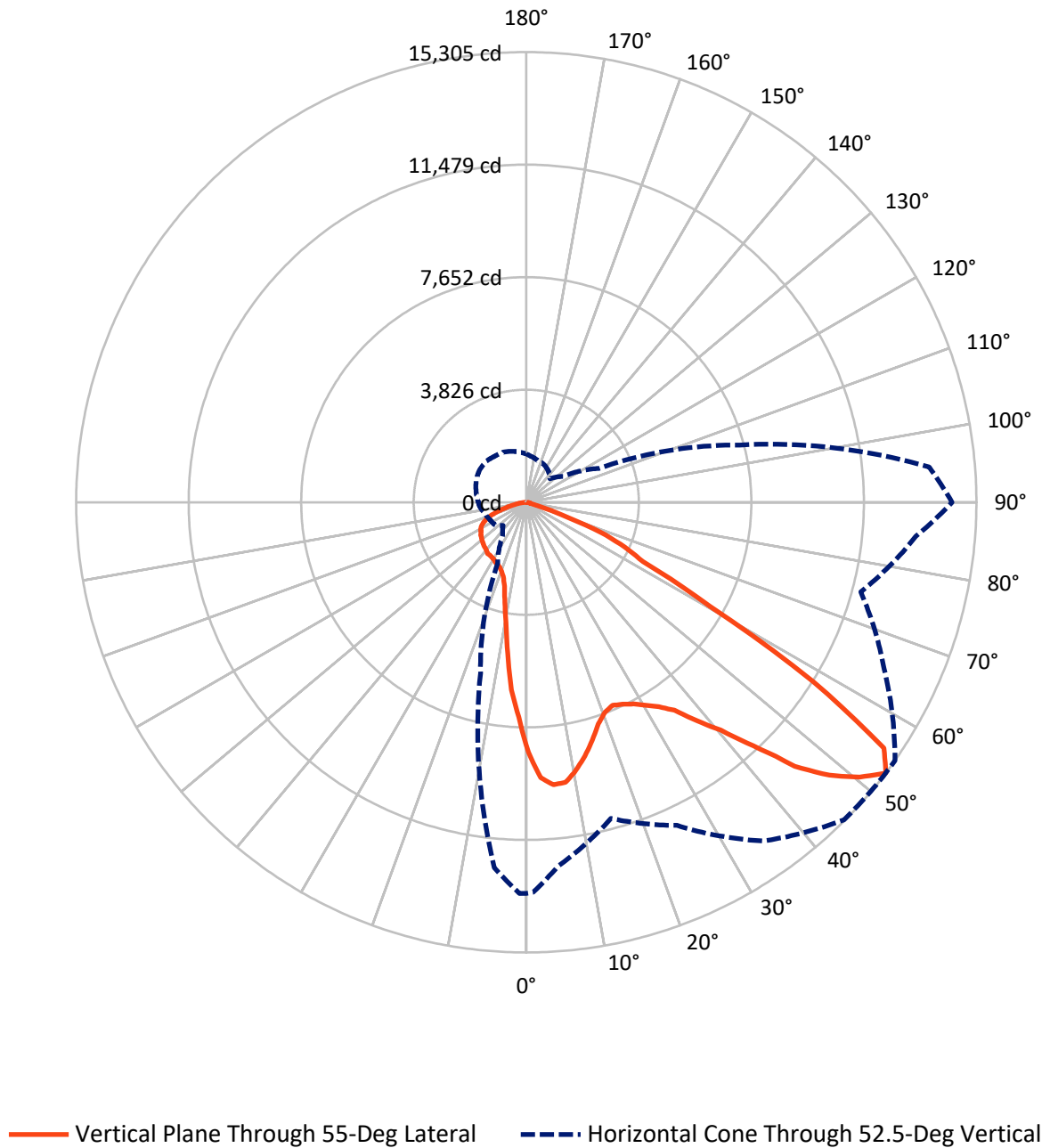
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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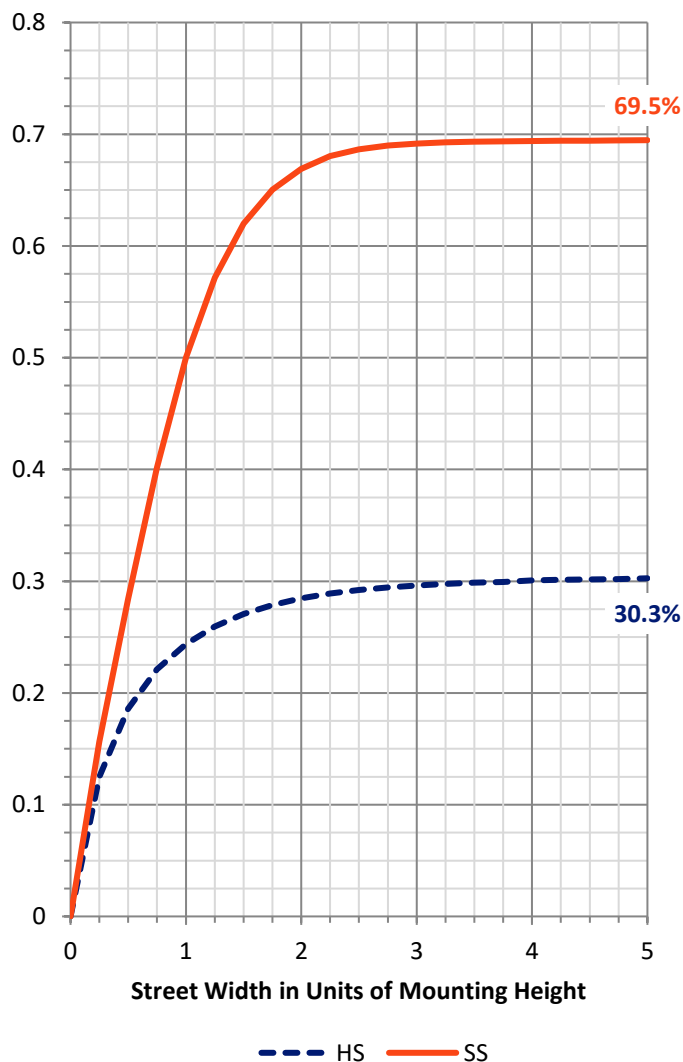
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5814.6	0.0	5814.6
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	13246.4	0.0	13246.4
	% Fixture	69.5	0.0	69.5
Total	Lumens	19061.0	0.0	19061.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	649.6	3.4
10°-20°	1400.6	7.3
20°-30°	2123.8	11.1
30°-40°	3068.5	16.1
40°-50°	4100.4	21.5
50°-60°	4576.9	24.0
60°-70°	2510.6	13.2
70°-80°	542.8	2.8
80°-90°	87.8	0.5
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°	19061.0	100.0
0°-180°	19061.0	100.0

Coefficient of Utilization



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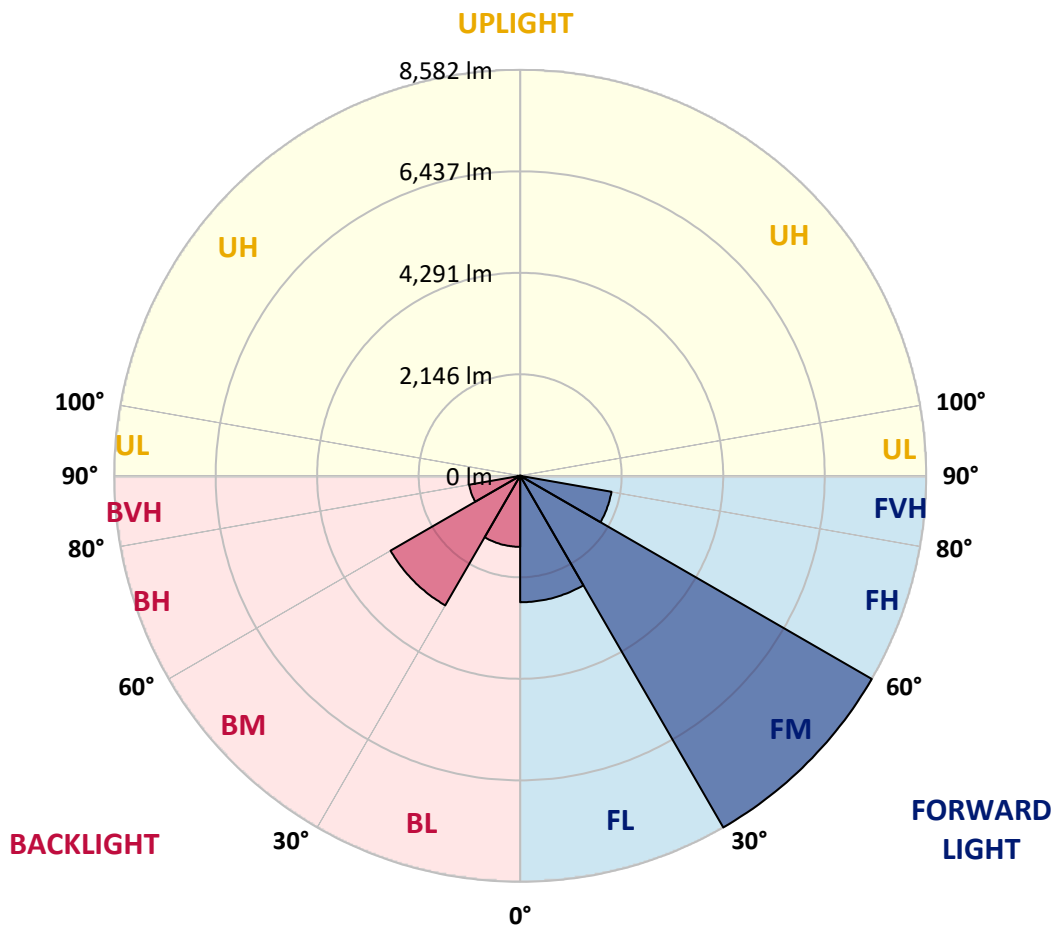
CATALOG NUMBER: GLAN-SA4D-727-U-SLL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2672.7	14.0			
FM (30°-60°)	8582.2	45.0			
FH (60°-80°)	1959.0	10.3			G2/5000
FVH (80°-90°)	32.5	0.2			G1/100
BL (0°-30°)	1501.3	7.9	B3/2500		
BM (30°-60°)	3163.6	16.6	B3/5000		
BH (60°-80°)	1094.4	5.7	B3/2500		G3/2500
BVH (80°-90°)	55.3	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8502.7	8502.7	8502.7	8502.7	8502.7	8502.7	8502.7	8502.7	8502.7	8502.7	8502.7
2.5°	8922.9	8872.8	8917.4	9128.9	9251.4	9334.9	9387.7	9379.4	9179.0	8984.2	8984.2
5°	8661.3	8597.3	8689.2	9167.9	9649.4	9691.1	9760.7	9646.6	9351.6	8995.3	8550.0
7.5°	7904.3	7951.6	8104.7	8733.7	9359.9	9674.4	9757.9	9613.2	9134.5	8469.3	7815.2
10°	7250.2	7361.6	7715.0	8394.1	8970.3	9379.4	9471.2	9268.1	8889.5	8074.1	7489.6
12.5°	7024.8	6955.2	7347.7	8026.8	8577.8	8797.7	8839.4	8853.4	8597.3	7873.7	7161.2
15°	6997.0	7041.5	7347.7	7862.5	8202.1	8213.2	8282.8	8391.4	8424.8	8010.1	7314.3
17.5°	7397.7	7344.9	7659.4	8068.5	7907.1	7745.6	7762.3	7918.2	8193.7	8126.9	7795.7
20°	7990.6	8110.2	8358.0	8316.2	7882.0	7472.9	7475.7	7623.2	8165.9	8611.2	8466.5
22.5°	8975.8	9092.7	9276.4	8772.7	7882.0	7392.2	7297.6	7497.9	8344.0	9187.3	9223.5
25°	9874.8	10089.1	10139.2	9546.4	8277.2	7467.3	7406.1	7603.7	8522.2	9749.6	10091.9
27.5°	10693.1	10771.0	10990.9	10044.6	8497.1	7517.4	7511.9	7765.1	8747.6	10030.7	10868.4
30°	11338.8	11330.4	11455.7	10359.1	8847.8	7798.5	7528.6	8007.3	9042.6	10495.5	11586.5
32.5°	11778.5	11873.1	12137.5	10796.0	8995.3	8065.7	7854.2	8291.2	9401.7	10715.3	12093.0
35°	12552.2	12716.4	12382.5	11038.2	9462.9	8330.1	8082.4	8678.0	9579.8	10954.7	12713.7
37.5°	13281.4	13156.2	12816.6	11169.0	9766.3	8820.0	8589.0	9426.7	10133.6	11475.1	13125.6
40°	13749.0	13746.2	13142.3	11274.7	9980.6	9568.6	9554.7	10186.5	10812.7	11803.6	13587.6
42.5°	13952.2	14147.0	13275.9	11263.6	10431.4	10476.0	10757.1	11322.1	11294.2	11870.4	13576.5
44°	14230.5	14347.4	13506.9	11288.7	10732.0	11088.3	11750.7	12109.7	11714.5	11834.2	13562.5
45°	14219.4	14227.7	13178.5	11322.1	10988.1	11600.4	12193.2	12799.9	12084.7	11756.2	13746.2
47.5°	13893.7	13799.1	12900.1	11074.4	11786.9	12953.0	13501.3	13868.7	12541.1	11589.3	13518.0
50°	13250.8	13142.3	12223.8	10968.6	11953.9	13793.5	14550.6	14684.2	12955.8	11425.0	13292.6
52.5°	13295.4	13264.7	12415.9	11127.2	12120.8	14058.0	15271.4	15304.8	13426.2	11770.2	13295.4
55°	14091.3	13985.6	12966.9	11324.8	11998.4	13749.0	14812.2	14753.8	13267.5	11561.4	13540.3
57.5°	12894.6	12964.2	12204.3	10542.8	10501.0	11177.3	11644.9	11500.2	11071.6	10434.2	12596.8
60°	10403.6	10601.2	10673.6	8817.2	7923.8	7575.9	7436.7	7180.7	7253.0	8572.3	11066.0
62.5°	8922.9	8911.8	9365.5	7993.4	5190.7	4464.3	4397.5	4455.9	5290.9	8438.7	10837.8
65°	7074.9	7264.2	7403.3	6774.3	4108.0	3314.8	3312.0	3682.2	4578.4	7052.6	8750.4
67.5°	4492.1	4739.8	4912.4	4333.4	2747.0	2360.2	2296.1	2741.5	3172.8	4625.7	5268.6
70°	2532.7	2649.6	2727.5	2499.3	1747.9	1224.6	1152.2	1258.0	1917.6	2994.7	3122.8
72.5°	976.9	1029.8	1135.5	1143.9	659.6	395.2	320.1	384.1	807.1	1185.6	1130.0
75°	150.3	161.4	228.2	272.8	189.3	144.7	153.1	158.6	225.4	306.2	256.1
77.5°	72.4	72.4	69.6	80.7	94.6	103.0	111.3	122.5	133.6	147.5	141.9
80°	47.3	47.3	47.3	55.7	69.6	83.5	94.6	100.2	105.8	116.9	111.3
82.5°	30.6	30.6	30.6	41.7	55.7	69.6	75.1	89.1	100.2	116.9	108.5
85°	16.7	16.7	16.7	27.8	41.7	58.4	55.7	44.5	25.0	2.8	5.6
87.5°	5.6	5.6	5.6	5.6	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8502.7	8502.7	8502.7	8502.7	8502.7	8502.7	8502.7	8502.7	8502.7	8502.7	8502.7
2.5°	8750.4	8622.4	8611.2	8349.6	8115.8	8001.7	7909.9	7653.8	7709.5	7562.0	7559.2
5°	8327.3	8065.7	7642.7	7294.8	6946.9	6877.3	6573.9	6309.5	6317.9	6128.6	6162.0
7.5°	7567.5	7386.6	6871.7	6326.2	5864.2	5535.8	5249.1	5076.6	4856.7	4781.5	4742.6
10°	7086.0	6863.4	6284.5	5599.8	5082.1	4906.8	4631.2	4478.2	4252.7	4141.4	4063.5
12.5°	6874.5	6548.9	5825.2	5129.4	4784.3	4603.4	4369.6	4091.3	3824.1	3721.1	3579.2
15°	6896.8	6507.1	5691.6	4940.2	4525.5	4174.8	3966.1	3657.1	3384.4	3203.5	3100.5
17.5°	7233.5	6760.4	5752.9	4795.5	4199.9	3760.1	3351.0	3017.0	2799.9	2663.5	2630.1
20°	8029.5	7386.6	5855.9	4561.7	3874.2	3325.9	2822.2	2474.3	2307.3	2304.5	2307.3
22.5°	8691.9	8054.6	6064.6	4422.5	3548.6	2769.3	2268.3	2157.0	2123.6	2193.2	2201.5
25°	9585.3	8806.0	6423.6	4350.1	3248.0	2360.2	2051.2	2009.5	2006.7	2095.8	2098.5
27.5°	10501.0	9462.9	6637.9	4138.6	2941.8	2148.6	1920.4	1912.1	1956.6	2051.2	2042.9
30°	11124.5	10014.0	7024.8	3885.3	2580.0	1962.2	1867.5	1878.7	1939.9	2012.3	2023.4
32.5°	11850.9	10556.7	7125.0	3746.2	2357.4	1806.3	1739.5	1764.5	1842.5	1956.6	2017.8
35°	12683.0	10940.8	7278.1	3556.9	2273.9	1686.6	1653.2	1681.1	1775.7	1850.8	1917.6
37.5°	13298.1	11619.9	7305.9	3409.4	2182.0	1619.8	1566.9	1658.8	1714.5	1820.2	1853.6
40°	13754.6	12112.5	7378.3	3317.6	2109.7	1533.5	1533.5	1594.8	1669.9	1767.3	1834.1
42.5°	14046.8	12471.5	7431.1	3234.1	1970.5	1508.5	1494.6	1555.8	1656.0	1750.6	1781.2
44°	14224.9	12624.6	7378.3	3156.2	1931.5	1477.9	1477.9	1530.8	1608.7	1720.0	1756.2
45°	14269.5	12816.6	7261.4	3153.4	1884.2	1441.7	1436.1	1536.3	1589.2	1725.6	1747.9
47.5°	14442.0	13053.2	7275.3	3064.3	1770.1	1355.4	1452.8	1497.4	1544.7	1664.4	1739.5
50°	14436.5	13200.7	7244.7	2933.5	1686.6	1258.0	1419.4	1469.5	1516.8	1639.3	1669.9
52.5°	14475.4	13751.8	7525.8	2724.8	1536.3	1132.8	1308.1	1419.4	1477.9	1580.9	1644.9
55°	14455.9	14066.3	7804.1	2568.9	1324.8	1057.6	1213.5	1344.3	1427.8	1536.3	1566.9
57.5°	13203.5	12432.6	7222.4	2276.7	1096.6	968.6	1079.9	1266.4	1372.1	1483.4	1522.4
60°	10787.7	9582.6	5956.1	1675.5	901.8	890.6	1004.7	1241.3	1285.8	1383.3	1450.0
62.5°	9969.4	8405.3	4723.1	1280.3	770.9	815.5	926.8	1121.6	1191.2	1310.9	1372.1
65°	7801.3	5583.1	2925.1	865.6	679.1	732.0	837.7	982.5	1096.6	1207.9	1280.3
67.5°	4620.1	3050.4	1447.3	606.7	592.8	648.5	757.0	865.6	996.4	1118.8	1155.0
70°	2516.0	1500.1	617.9	462.0	503.8	553.9	659.6	734.8	860.0	954.6	1015.9
72.5°	807.1	456.4	308.9	342.3	384.1	442.5	506.5	598.4	687.5	743.1	793.2
75°	194.8	192.0	219.9	239.4	278.3	322.9	375.7	423.0	492.6	545.5	590.0
77.5°	136.4	147.5	169.8	197.6	211.5	228.2	261.6	297.8	328.4	367.4	395.2
80°	105.8	114.1	130.8	144.7	158.6	172.6	189.3	203.2	222.7	247.7	261.6
82.5°	100.2	105.8	122.5	130.8	125.2	122.5	133.6	139.2	141.9	150.3	158.6
85°	8.3	0.0	5.6	19.5	47.3	69.6	75.1	75.1	72.4	77.9	77.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	11.1	8.3
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°	8502.7	8502.7	8502.7	8502.7	8502.7	8502.7	8502.7	8502.7	8502.7	8502.7	8502.7
2.5°	7525.8	7431.1	7467.3	7511.9	7447.8	7300.3	7339.3	7322.6	7472.9	7461.8	7612.1
5°	6309.5	6162.0	6178.7	6395.8	6326.2	6401.4	6251.1	6231.6	6259.4	6273.3	6298.4
7.5°	4828.9	4809.4	4976.4	5160.1	5246.3	5157.3	5009.8	4976.4	4945.7	4884.5	5023.7
10°	3941.0	3946.6	3935.4	4074.6	4172.0	4152.5	4063.5	4052.3	3993.9	3971.6	4049.6
12.5°	3518.0	3442.8	3406.6	3362.1	3437.3	3487.4	3448.4	3420.6	3423.3	3451.2	3462.3
15°	3108.8	3061.5	2983.6	2933.5	2969.7	2944.6	2930.7	2986.4	2972.5	2966.9	3033.7
17.5°	2649.6	2688.6	2683.0	2627.3	2674.7	2655.2	2652.4	2613.4	2560.5	2521.6	2543.8
20°	2346.2	2418.6	2474.3	2477.0	2502.1	2499.3	2457.6	2337.9	2298.9	2290.6	2296.1
22.5°	2237.7	2276.7	2343.5	2438.1	2438.1	2393.6	2343.5	2204.3	2168.1	2129.1	2112.4
25°	2151.4	2226.6	2312.8	2324.0	2368.5	2326.8	2246.0	2176.5	2101.3	2048.4	2048.4
27.5°	2106.9	2190.4	2254.4	2273.9	2335.1	2301.7	2218.2	2129.1	2040.1	2037.3	1990.0
30°	2087.4	2165.3	2207.1	2254.4	2282.2	2229.3	2204.3	2109.7	2020.6	1998.3	1920.4
32.5°	2029.0	2140.3	2218.2	2207.1	2229.3	2207.1	2170.9	2093.0	1992.8	1942.7	1934.3
35°	1962.2	2073.5	2157.0	2215.4	2229.3	2182.0	2159.8	2054.0	1917.6	1892.6	1806.3
37.5°	1926.0	1992.8	2095.8	2190.4	2209.9	2184.8	2109.7	2001.1	1864.7	1836.9	1761.8
40°	1881.4	1967.7	2048.4	2126.4	2184.8	2123.6	2037.3	1931.5	1870.3	1786.8	1764.5
42.5°	1848.0	1945.5	2012.3	2098.5	2165.3	2084.6	1984.4	1912.1	1825.8	1770.1	1706.1
44°	1836.9	1926.0	1970.5	2076.3	2131.9	2070.7	1987.2	1912.1	1811.9	1761.8	1706.1
45°	1797.9	1920.4	1967.7	2062.4	2109.7	2059.6	1953.8	1878.7	1806.3	1745.1	1686.6
47.5°	1759.0	1842.5	1923.2	1998.3	2031.7	2015.0	1926.0	1834.1	1747.9	1711.7	1656.0
50°	1747.9	1831.3	1906.5	1976.1	2015.0	1981.6	1900.9	1811.9	1711.7	1653.2	1605.9
52.5°	1692.2	1795.2	1878.7	1900.9	1951.0	1931.5	1870.3	1772.9	1678.3	1628.2	1589.2
55°	1611.5	1720.0	1834.1	1862.0	1934.3	1903.7	1811.9	1720.0	1639.3	1564.2	1514.1
57.5°	1580.9	1686.6	1797.9	1834.1	1878.7	1828.6	1806.3	1708.9	1580.9	1541.9	1464.0
60°	1502.9	1636.5	1728.4	1811.9	1814.6	1800.7	1761.8	1650.4	1544.7	1472.3	1416.6
62.5°	1441.7	1566.9	1639.3	1717.2	1764.5	1725.6	1686.6	1583.6	1469.5	1388.8	1324.8
65°	1352.6	1466.7	1528.0	1575.3	1628.2	1622.6	1555.8	1480.7	1361.0	1297.0	1235.7
67.5°	1216.3	1316.5	1400.0	1444.5	1477.9	1469.5	1419.4	1366.6	1244.1	1180.1	1135.5
70°	1052.1	1155.0	1207.9	1233.0	1266.4	1283.1	1244.1	1219.0	1110.5	1027.0	985.3
72.5°	846.1	912.9	990.8	1013.1	1027.0	1038.1	1038.1	1015.9	904.5	871.1	798.8
75°	623.4	676.3	734.8	734.8	759.8	762.6	768.2	754.2	670.8	626.2	609.5
77.5°	423.0	462.0	509.3	528.8	545.5	542.7	539.9	501.0	456.4	437.0	420.3
80°	275.5	314.5	336.8	361.8	378.5	375.7	381.3	353.5	334.0	300.6	306.2
82.5°	164.2	194.8	217.1	247.7	247.7	256.1	256.1	247.7	228.2	211.5	211.5
85°	77.9	103.0	116.9	136.4	147.5	150.3	133.6	114.1	94.6	86.3	94.6
87.5°	13.9	19.5	27.8	25.0	30.6	27.8	27.8	27.8	27.8	22.3	25.0
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: P529562

CATALOG NUMBER: GLAN-SA4D-727-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8502.7	8502.7	8502.7	8502.7	8502.7	8502.7	8502.7	8502.7	8502.7	8502.7
2.5°	7556.4	7695.6	7793.0	7954.4	8232.7	8455.4	8683.6	8853.4	8872.8	8922.9
5°	6390.2	6465.4	6713.1	7035.9	7264.2	7639.9	7882.0	8321.8	8486.0	8661.3
7.5°	4990.3	5112.7	5443.9	5661.0	6162.0	6632.4	7119.4	7662.2	7879.2	7904.3
10°	4208.2	4386.3	4611.8	4959.7	5232.4	5755.7	6362.4	6966.4	7208.5	7250.2
12.5°	3696.1	3924.3	4224.9	4475.4	4737.0	5193.5	5775.1	6521.0	6835.5	7024.8
15°	3203.5	3440.0	3771.2	4119.1	4350.1	4895.7	5580.3	6420.8	6830.0	6997.0
17.5°	2696.9	2916.8	3189.5	3565.3	4030.1	4642.4	5549.7	6754.8	7202.9	7397.7
20°	2262.7	2385.2	2702.5	3089.4	3671.0	4383.5	5560.8	7247.5	7904.3	7990.6
22.5°	2093.0	2120.8	2246.0	2602.3	3239.6	4119.1	5758.4	7946.0	8691.9	8975.8
25°	1962.2	1956.6	1990.0	2229.3	2925.1	4016.2	5953.3	8589.0	9565.9	9874.8
27.5°	1889.8	1834.1	1836.9	2062.4	2702.5	3849.2	6203.8	9326.5	10556.7	10693.1
30°	1853.6	1842.5	1809.1	1900.9	2460.4	3598.7	6245.5	10052.9	11141.2	11338.8
32.5°	1831.3	1722.8	1681.1	1714.5	2232.1	3325.9	6401.4	10531.6	11864.8	11778.5
35°	1720.0	1622.6	1594.8	1628.2	2070.7	3172.8	6298.4	10949.1	12407.5	12552.2
37.5°	1678.3	1592.0	1536.3	1508.5	1920.4	3044.8	6245.5	11592.0	12933.5	13281.4
40°	1639.3	1547.5	1480.7	1452.8	1803.5	2875.0	6228.8	12087.4	13540.3	13749.0
42.5°	1594.8	1536.3	1461.2	1411.1	1661.6	2705.3	6036.8	12240.5	13726.7	13952.2
44°	1580.9	1491.8	1413.9	1397.2	1605.9	2619.0	5997.8	12379.7	13888.2	14230.5
45°	1566.9	1483.4	1394.4	1372.1	1586.4	2571.7	5944.9	12413.1	14155.4	14219.4
47.5°	1528.0	1475.1	1388.8	1327.6	1544.7	2468.7	5786.3	12223.8	13882.6	13893.7
50°	1497.4	1436.1	1347.1	1227.4	1489.0	2382.4	5858.6	12154.2	13225.8	13250.8
52.5°	1464.0	1372.1	1322.0	1116.1	1397.2	2310.1	6011.7	12468.7	13300.9	13295.4
55°	1425.0	1324.8	1202.3	1021.4	1244.1	2218.2	6381.9	13089.4	13996.7	14091.3
57.5°	1363.8	1277.5	1102.1	937.9	1068.7	2042.9	6262.2	11901.0	12877.9	12894.6
60°	1283.1	1202.3	999.2	873.9	876.7	1611.5	5599.8	9273.6	10161.5	10403.6
62.5°	1205.1	1160.6	912.9	782.1	745.9	1283.1	4734.2	7706.7	8722.6	8922.9
65°	1113.3	1004.7	837.7	712.5	640.1	899.0	3353.8	5758.4	6804.9	7074.9
67.5°	996.4	879.5	737.5	626.2	548.3	601.2	1731.2	3273.0	4333.4	4492.1
70°	871.1	762.6	620.7	528.8	442.5	414.7	762.6	1561.4	2368.5	2532.7
72.5°	715.3	615.1	495.4	417.5	331.2	286.7	256.1	417.5	840.5	976.9
75°	517.7	448.1	372.9	297.8	233.8	183.7	150.3	125.2	139.2	150.3
77.5°	381.3	325.6	275.5	211.5	164.2	130.8	103.0	77.9	75.1	72.4
80°	297.8	264.4	219.9	169.8	128.0	97.4	72.4	52.9	47.3	47.3
82.5°	233.8	217.1	180.9	139.2	105.8	77.9	52.9	36.2	30.6	30.6
85°	89.1	89.1	130.8	114.1	80.7	55.7	36.2	19.5	16.7	16.7
87.5°	22.3	22.3	22.3	22.3	19.5	16.7	16.7	8.3	5.6	5.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)