

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: P532059

Luminaire Tested: **GLAN-SA7B-827-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532059
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7B-827-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16107 lumens
Efficiency: N/A
Efficacy: 56.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G1

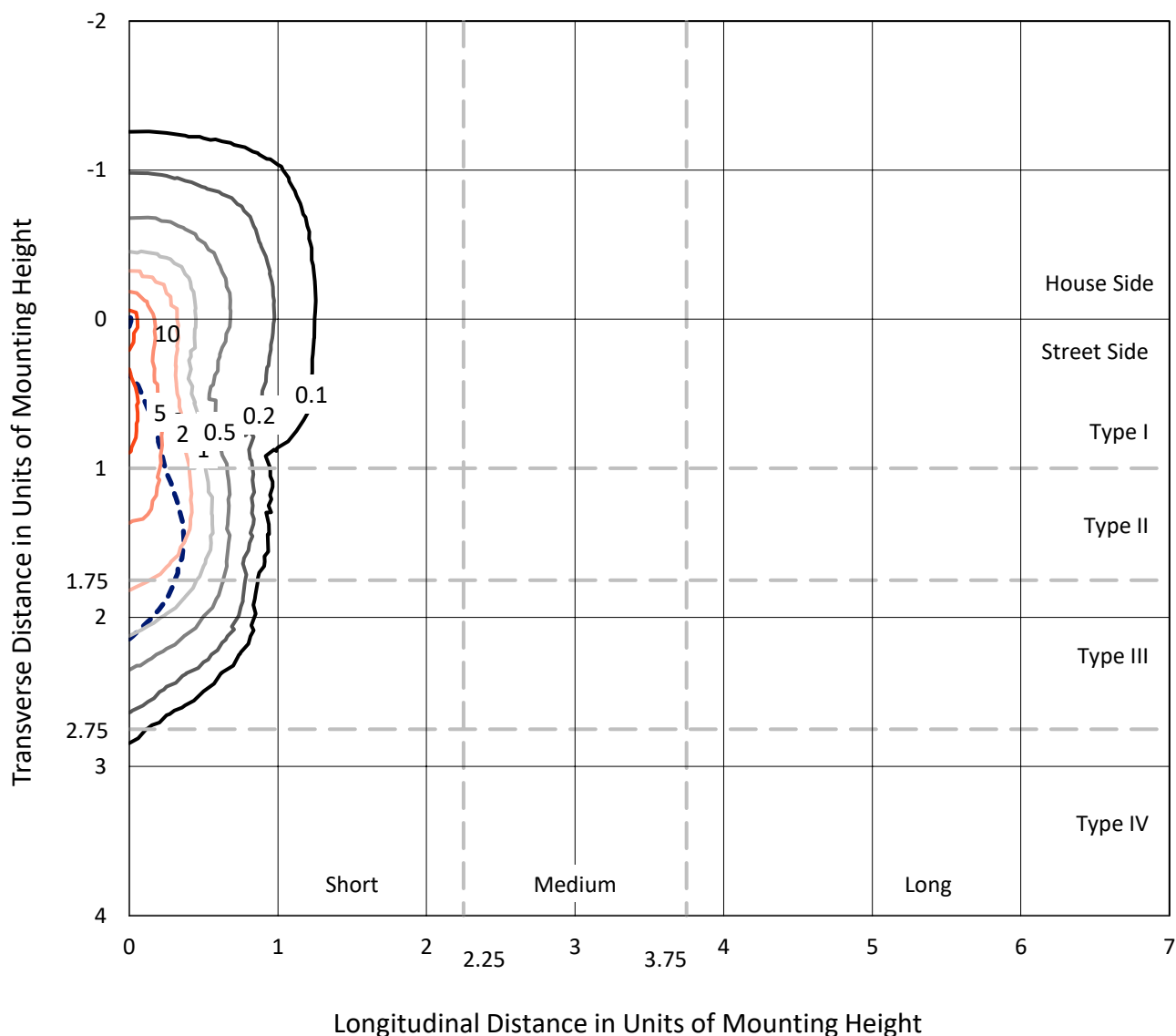
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

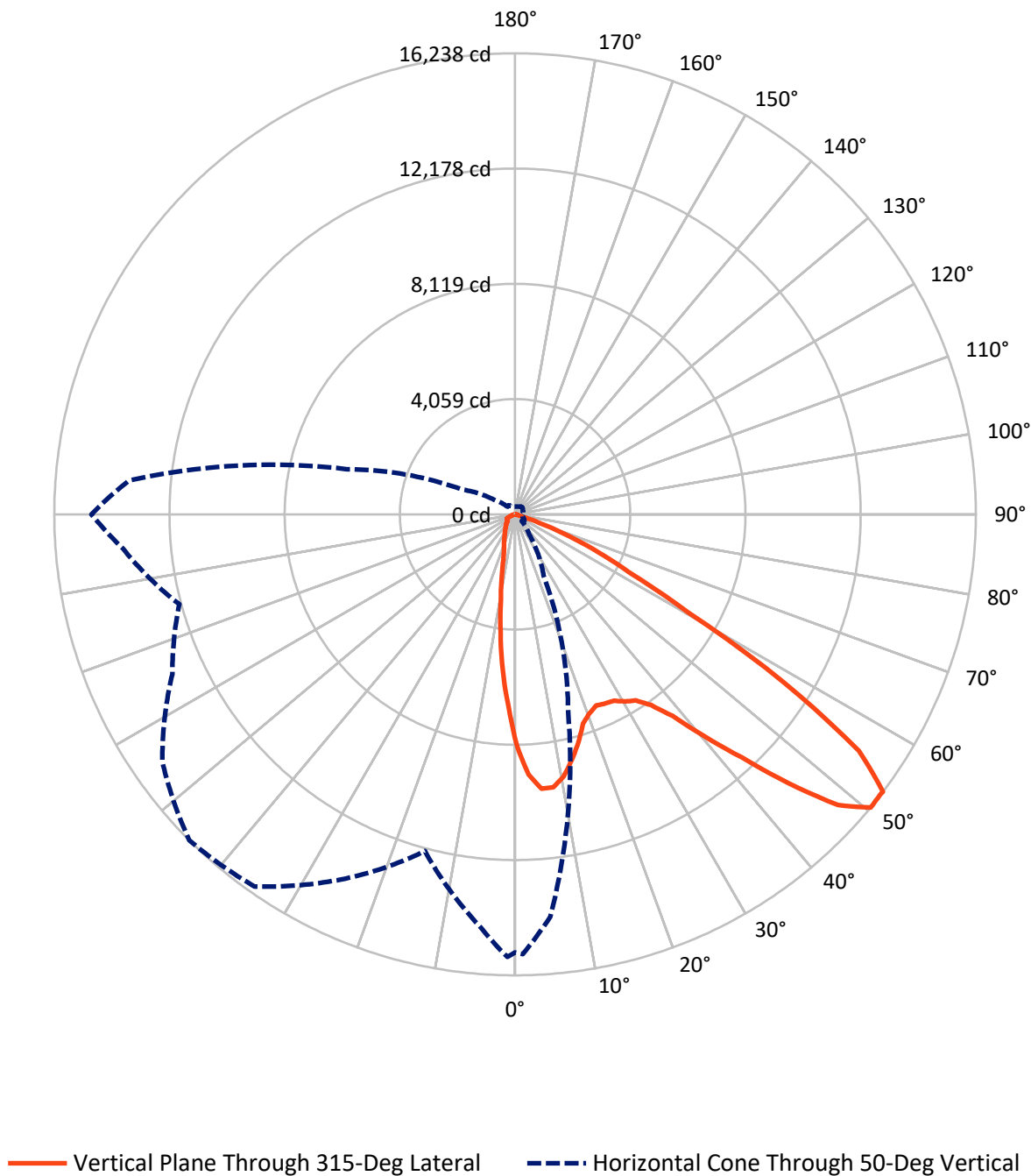
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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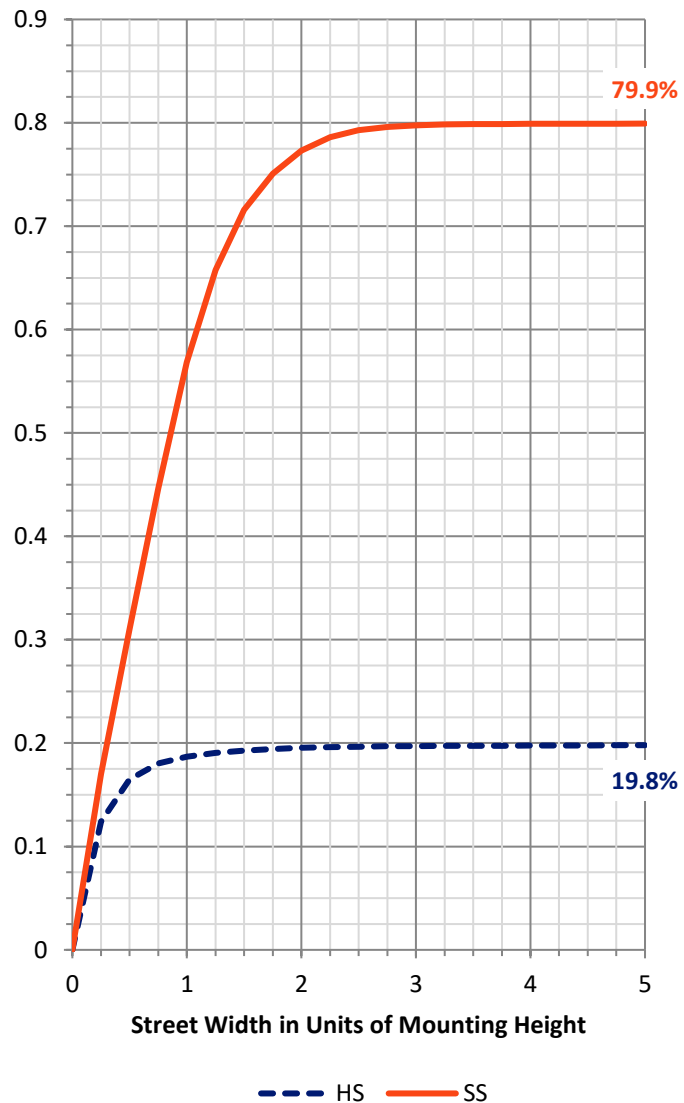
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3226.2	0.0	3226.2
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	12880.8	0.0	12880.8
	% Fixture	80.0	0.0	80.0
Total	Lumens	16107.0	0.0	16107.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	595.4	3.7
10°-20°	1183.3	7.3
20°-30°	1777.7	11.0
30°-40°	2668.2	16.6
40°-50°	3750.0	23.3
50°-60°	4045.0	25.1
60°-70°	1878.1	11.7
70°-80°	176.7	1.1
80°-90°	32.6	0.2
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°	16107.0	100.0
0°-180°	16107.0	100.0

Coefficient of Utilization



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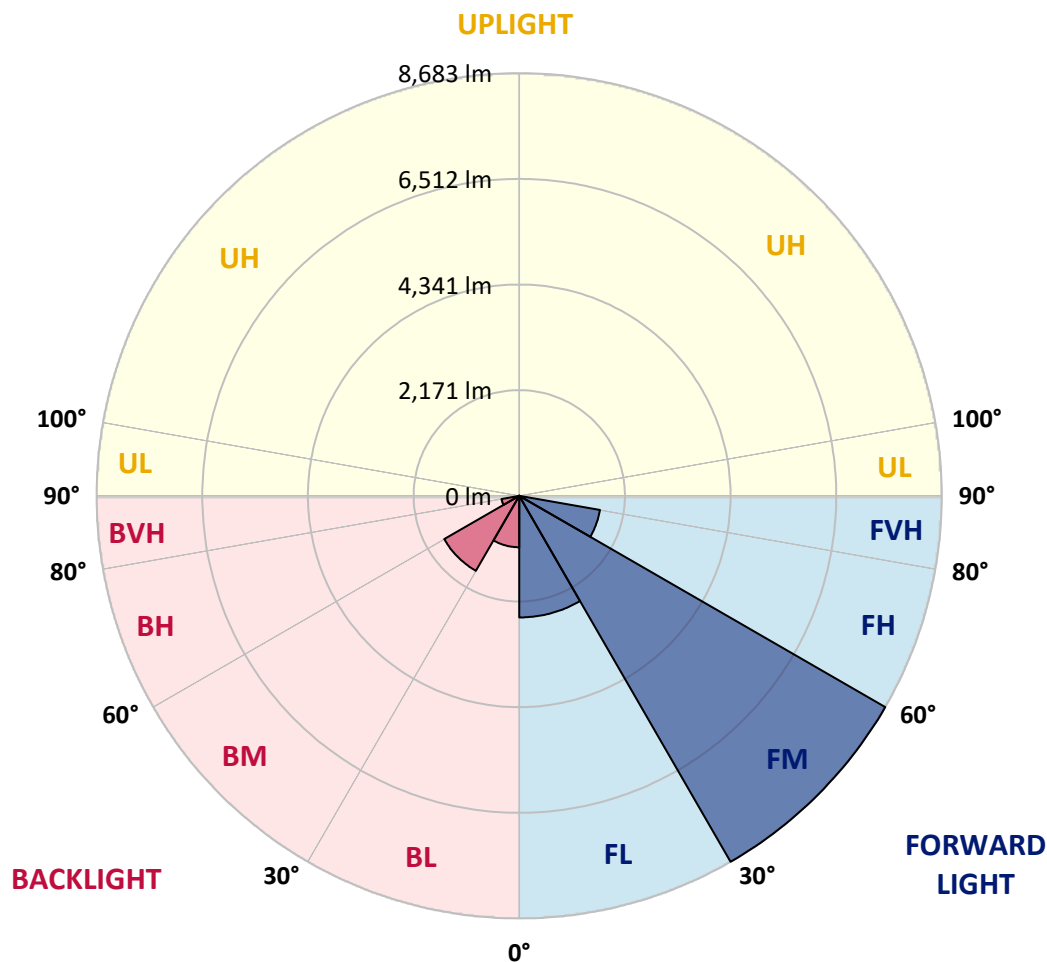
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2498.9	15.5			
FM	(30°-60°)	8682.9	53.9			
FH	(60°-80°)	1684.4	10.5			G1/1800
FVH	(80°-90°)	14.7	0.1			G1/100
BL	(0°-30°)	1057.5	6.6	B3/2500		
BM	(30°-60°)	1780.4	11.1	B2/2500		
BH	(60°-80°)	370.5	2.3	B1/500		G1/500
BVH	(80°-90°)	17.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8168.3	8168.3	8168.3	8168.3	8168.3	8168.3	8168.3	8168.3	8168.3	8168.3	8168.3
2.5°	8491.0	8360.0	8193.8	8056.4	7851.9	7439.7	7327.8	7193.6	7081.7	6931.5	6720.6
5°	7720.9	7679.3	7602.6	7084.9	6711.0	6212.5	5803.4	5630.9	5404.0	5218.6	5084.4
7.5°	7132.9	6966.7	6723.8	6202.9	5605.3	5071.6	4617.8	4352.6	4052.2	3949.9	3767.8
10°	6503.3	6541.7	6183.7	5451.9	4729.7	4298.3	4017.0	3761.4	3489.7	3310.8	3051.9
12.5°	6302.0	6177.3	5902.5	4998.1	4381.3	3978.7	3636.7	3320.4	3032.7	2745.1	2495.9
15°	6433.0	6241.3	5857.8	4902.2	4112.9	3611.2	3182.9	2754.7	2489.5	2122.0	1863.1
17.5°	6902.8	6749.4	6234.9	5004.5	3975.5	3259.6	2623.7	2182.7	1776.8	1444.5	1313.4
20°	7685.7	7468.4	6822.9	5135.5	3771.0	2834.6	2128.4	1585.1	1201.6	1061.0	987.5
22.5°	8452.7	8334.5	7519.5	5388.0	3588.8	2457.5	1597.9	1067.4	898.0	872.4	824.5
25°	9913.1	9558.4	8583.7	5845.0	3448.2	2102.8	1204.8	859.7	760.6	741.4	747.8
27.5°	10782.4	10485.2	9568.0	6148.6	3291.6	1831.2	1019.4	789.3	722.2	680.7	664.7
30°	11616.5	11271.3	10057.0	6327.5	2956.0	1543.5	904.4	757.4	741.4	680.7	661.5
32.5°	12258.8	11920.1	10763.2	6596.0	2818.6	1358.2	744.6	591.2	549.7	543.3	600.8
35°	13243.1	12882.0	11367.2	6743.0	2713.2	1262.3	645.5	527.3	479.4	460.2	463.4
37.5°	14160.3	13914.2	11926.5	6800.5	2601.3	1233.6	578.4	473.0	431.4	418.6	415.4
40°	14927.2	14377.6	12456.9	6861.2	2553.4	1179.2	536.9	431.4	402.7	383.5	383.5
42.5°	15278.8	14719.5	13051.4	6826.1	2540.6	1092.9	536.9	396.3	373.9	354.7	351.5
45°	15202.1	14975.2	13316.6	6810.1	2540.6	1006.7	488.9	386.7	354.7	329.2	322.8
47.5°	15400.2	15103.0	13649.0	6877.2	2489.5	945.9	412.2	405.9	335.6	303.6	297.2
50°	15435.4	15492.9	14227.4	7225.5	2377.6	869.2	322.8	399.5	322.8	274.8	268.4
52°	15665.5	15307.5	14403.1	7410.9	2259.4	811.7	271.6	341.9	310.0	255.7	249.3
52.5°	15349.1	15582.4	14444.7	7478.0	2272.2	773.4	262.0	335.6	303.6	255.7	239.7
55°	14994.4	15218.1	14275.3	7621.8	2083.6	607.2	204.5	242.9	274.8	223.7	214.1
57.5°	13032.2	13259.1	12405.8	6979.5	1696.9	428.2	169.4	182.2	242.9	207.7	198.1
60°	11584.5	11421.5	10411.7	5822.6	1204.8	239.7	134.2	140.6	265.2	191.7	188.5
62.5°	10587.4	10239.1	8702.0	4496.4	735.0	159.8	105.5	108.7	204.5	179.0	179.0
65°	7832.7	7442.8	5781.1	2719.6	361.1	111.9	79.9	86.3	127.8	153.4	153.4
67.5°	4470.8	4320.6	2793.1	1227.2	150.2	70.3	60.7	67.1	99.1	124.6	118.2
70°	2054.9	1843.9	1073.8	258.9	70.3	47.9	47.9	54.3	79.9	92.7	86.3
72.5°	600.8	568.8	262.0	41.5	28.8	28.8	32.0	41.5	60.7	70.3	63.9
75°	44.7	28.8	19.2	12.8	12.8	19.2	25.6	41.5	60.7	67.1	54.3
77.5°	3.2	6.4	3.2	3.2	9.6	19.2	28.8	51.1	79.9	83.1	60.7
80°	3.2	3.2	0.0	3.2	9.6	19.2	32.0	57.5	89.5	95.9	51.1
82.5°	0.0	0.0	0.0	3.2	12.8	25.6	38.3	60.7	83.1	102.3	54.3
85°	0.0	0.0	0.0	3.2	19.2	35.2	44.7	16.0	9.6	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8168.3	8168.3	8168.3	8168.3	8168.3	8168.3	8168.3	8168.3	8168.3	8168.3	8168.3
2.5°	6870.8	6787.7	6755.8	6784.5	6774.9	6765.4	6941.1	6902.8	6896.4	6953.9	6941.1
5°	5157.9	5010.9	5413.6	5250.6	5420.0	5522.2	5541.4	5551.0	5669.2	5544.6	5707.6
7.5°	3675.1	3713.4	3710.2	3818.9	4013.8	4186.4	4288.7	4208.8	4202.4	4186.4	4116.1
10°	2936.9	2869.8	2857.0	2831.4	2892.1	3039.1	3163.8	3064.7	2994.4	3090.3	3061.5
12.5°	2400.0	2307.3	2256.2	2153.9	2157.1	2256.2	2256.2	2256.2	2326.5	2380.8	2422.4
15°	1840.7	1764.0	1764.0	1661.8	1639.4	1642.6	1693.7	1700.1	1812.0	1843.9	1859.9
17.5°	1287.9	1246.3	1294.3	1335.8	1310.2	1316.6	1335.8	1342.2	1358.2	1345.4	1377.4
20°	990.7	984.3	997.1	1070.6	1124.9	1156.9	1134.5	1102.5	1083.4	1038.6	1038.6
22.5°	840.5	853.3	875.6	936.3	1006.7	1025.8	1000.3	926.8	869.2	862.8	866.0
25°	747.8	760.6	795.7	834.1	872.4	904.4	878.8	824.5	792.5	763.8	763.8
27.5°	690.3	696.7	715.8	744.6	776.6	802.1	792.5	763.8	728.6	715.8	687.1
30°	645.5	655.1	677.5	683.9	712.6	725.4	709.5	703.1	680.7	664.7	655.1
32.5°	623.2	620.0	635.9	642.3	645.5	655.1	635.9	645.5	642.3	616.8	607.2
35°	469.8	495.3	536.9	572.0	581.6	594.4	591.2	578.4	543.3	514.5	479.4
37.5°	421.8	437.8	460.2	488.9	527.3	543.3	536.9	504.9	463.4	444.2	437.8
40°	389.9	399.5	418.6	437.8	476.2	504.9	482.6	453.8	421.8	405.9	396.3
42.5°	361.1	364.3	373.9	393.1	421.8	466.6	428.2	389.9	377.1	367.5	361.1
45°	329.2	329.2	341.9	351.5	383.5	425.0	386.7	351.5	345.1	338.7	335.6
47.5°	303.6	306.8	313.2	326.0	351.5	380.3	354.7	326.0	310.0	306.8	300.4
50°	271.6	274.8	287.6	300.4	332.4	348.3	332.4	300.4	284.4	274.8	274.8
52°	246.1	255.7	268.4	294.0	316.4	341.9	322.8	287.6	268.4	258.9	252.5
52.5°	242.9	249.3	262.0	290.8	316.4	338.7	319.6	284.4	262.0	255.7	249.3
55°	217.3	226.9	249.3	284.4	313.2	338.7	313.2	281.2	249.3	233.3	226.9
57.5°	207.7	214.1	242.9	287.6	310.0	338.7	313.2	281.2	249.3	220.5	214.1
60°	198.1	210.9	242.9	278.0	306.8	341.9	316.4	278.0	242.9	207.7	207.7
62.5°	188.5	198.1	239.7	271.6	294.0	329.2	303.6	271.6	233.3	198.1	194.9
65°	163.0	179.0	210.9	226.9	252.5	284.4	258.9	236.5	204.5	175.8	172.6
67.5°	124.6	131.0	156.6	175.8	191.7	220.5	207.7	179.0	156.6	134.2	134.2
70°	86.3	92.7	111.9	121.4	137.4	153.4	143.8	121.4	105.5	92.7	89.5
72.5°	60.7	63.9	70.3	76.7	83.1	89.5	86.3	70.3	60.7	57.5	54.3
75°	47.9	54.3	57.5	54.3	51.1	47.9	47.9	41.5	35.2	32.0	32.0
77.5°	47.9	51.1	47.9	41.5	35.2	32.0	28.8	25.6	19.2	16.0	19.2
80°	41.5	41.5	41.5	35.2	32.0	28.8	25.6	22.4	19.2	16.0	16.0
82.5°	44.7	44.7	41.5	35.2	35.2	28.8	28.8	25.6	22.4	16.0	16.0
85°	0.0	0.0	0.0	6.4	16.0	28.8	28.8	25.6	22.4	19.2	19.2
87.5°	0.0	0.0	0.0	0.0	3.2	6.4	12.8	16.0	19.2	19.2	19.2
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°	8168.3	8168.3	8168.3	8168.3	8168.3	8168.3	8168.3	8168.3	8168.3	8168.3	8168.3
2.5°	7056.2	7177.6	7407.7	7637.8	7778.4	7944.6	8245.0	8404.8	8612.5	8714.7	8916.1
5°	5685.2	5972.8	6075.1	6337.1	6618.4	6899.6	7347.0	7839.1	8248.2	8529.4	8893.7
7.5°	4148.1	4215.2	4611.4	4787.2	5247.4	5758.7	6369.1	6989.1	7506.8	7966.9	8245.0
10°	3109.4	3355.5	3604.8	3940.3	4311.0	4838.3	5423.1	6107.0	6778.1	7238.3	7589.9
12.5°	2499.1	2694.0	3026.4	3387.5	3844.5	4192.8	4780.8	5458.3	6327.5	6778.1	7241.5
15°	1891.9	2141.1	2518.2	2892.1	3374.7	3742.2	4336.6	5189.9	6308.4	6928.3	7327.8
17.5°	1402.9	1572.3	1911.0	2329.7	2821.8	3339.5	4141.7	5161.1	6522.5	7260.7	7672.9
20°	1073.8	1131.3	1345.4	1719.3	2253.0	2930.5	3825.3	5285.7	7155.2	8069.2	8487.9
22.5°	869.2	894.8	977.9	1236.7	1754.5	2572.6	3675.1	5372.0	7867.9	9037.5	9596.8
25°	757.4	751.0	805.3	917.2	1371.0	2237.0	3483.3	5698.0	8740.3	10175.2	10676.9
27.5°	690.3	690.3	715.8	795.7	1137.7	2019.7	3361.9	5931.3	9619.1	11175.5	11447.1
30°	655.1	661.5	735.0	760.6	945.9	1760.8	3160.6	6167.8	10459.6	11814.6	12188.5
32.5°	607.2	581.6	565.6	629.6	795.7	1527.6	2959.2	6266.8	11140.3	12597.6	12917.1
35°	466.6	453.8	473.0	520.9	683.9	1329.4	2735.5	6378.7	11923.3	13505.1	13569.1
37.5°	421.8	418.6	431.4	473.0	575.2	1156.9	2575.8	6349.9	12520.9	14256.1	14083.6
40°	389.9	389.9	399.5	434.6	514.5	1035.4	2409.6	6324.3	13099.3	15099.8	14594.9
42.5°	364.3	364.3	380.3	402.7	488.9	955.5	2284.9	6289.2	13585.0	15617.5	14895.3
45°	329.2	338.7	364.3	386.7	495.3	901.2	2192.3	6155.0	13751.2	15611.1	14751.5
47.5°	303.6	316.4	341.9	373.9	447.4	885.2	2128.4	6036.7	13693.7	15227.6	14300.9
50°	274.8	290.8	326.0	380.3	380.3	853.3	2061.2	6142.2	13652.1	14930.4	13869.5
52°	255.7	268.4	313.2	370.7	332.4	786.1	2019.7	6346.7	13821.5	14892.1	13677.7
52.5°	252.5	262.0	303.6	364.3	316.4	773.4	1990.9	6394.7	13875.8	14796.2	13808.7
55°	223.7	236.5	278.0	284.4	258.9	635.9	1898.3	6503.3	13607.4	14607.7	13684.1
57.5°	210.9	217.3	246.1	233.3	223.7	479.4	1633.0	6333.9	12086.2	12974.7	12731.8
60°	194.9	201.3	230.1	182.2	188.5	335.6	1227.2	5499.8	9705.4	10811.1	11249.0
62.5°	188.5	185.4	217.3	147.0	159.8	242.9	866.0	4470.8	7478.0	8900.1	9657.5
65°	166.2	163.0	156.6	124.6	137.4	188.5	517.7	2917.7	5269.8	6733.4	7148.8
67.5°	127.8	134.2	115.0	99.1	115.0	147.0	287.6	1307.1	2764.3	4039.4	4375.0
70°	89.5	95.9	92.7	86.3	102.3	121.4	166.2	447.4	1144.1	2122.0	2339.3
72.5°	54.3	67.1	70.3	73.5	89.5	105.5	118.2	143.8	303.6	751.0	933.2
75°	32.0	44.7	54.3	63.9	73.5	89.5	99.1	102.3	105.5	140.6	226.9
77.5°	22.4	32.0	47.9	60.7	73.5	89.5	105.5	111.9	105.5	99.1	105.5
80°	19.2	32.0	44.7	57.5	76.7	92.7	105.5	105.5	102.3	89.5	95.9
82.5°	19.2	32.0	47.9	60.7	73.5	89.5	102.3	105.5	95.9	89.5	92.7
85°	22.4	35.2	51.1	63.9	79.9	73.5	67.1	54.3	51.1	41.5	44.7
87.5°	22.4	32.0	32.0	35.2	38.3	38.3	38.3	35.2	28.8	25.6	25.6
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8168.3	8168.3	8168.3	8168.3	8168.3	8168.3	8168.3	8168.3	8168.3	8168.3
2.5°	8925.7	9181.3	9171.7	9178.1	9139.8	8880.9	8756.3	8439.9	8529.4	8491.0
5°	9267.6	9520.1	9737.4	9711.8	9417.8	9066.3	8545.4	8053.2	7919.0	7720.9
7.5°	8925.7	9532.9	9734.2	9705.4	9270.8	8820.2	7989.3	7497.2	7263.9	7132.9
10°	8382.4	9085.5	9334.7	9385.9	9091.8	8408.0	7644.2	6854.8	6730.2	6503.3
12.5°	8072.4	8583.7	8737.1	8874.5	8772.3	8261.0	7382.1	6624.7	6452.2	6302.0
15°	7819.9	8123.5	8187.5	8344.0	8404.8	8129.9	7519.5	6874.0	6449.0	6433.0
17.5°	8053.2	7928.6	7695.3	7743.2	7935.0	8133.1	7874.3	7366.2	6953.9	6902.8
20°	8439.9	7890.3	7363.0	7481.2	7641.0	8248.2	8411.2	8053.2	7816.7	7685.7
22.5°	8884.1	7957.4	7257.5	7315.0	7618.6	8507.0	9280.4	9082.3	8641.2	8452.7
25°	9705.4	8142.7	7340.6	7378.9	7794.4	8868.1	10066.5	10213.5	9951.5	9913.1
27.5°	10507.6	8622.1	7522.7	7436.5	7883.9	9219.7	10542.7	11332.0	10871.9	10782.4
30°	10916.6	9012.0	7794.4	7647.4	8254.6	9433.8	10830.3	12060.7	11658.0	11616.5
32.5°	11543.0	9366.7	8005.3	7816.7	8462.3	9699.0	11367.2	12856.4	12466.5	12258.8
35°	11805.0	9753.4	8468.7	8248.2	9056.7	10069.7	11642.0	13565.9	13444.4	13243.1
37.5°	12309.9	10168.8	9015.1	9002.4	9775.7	10552.3	12137.4	14531.0	14508.6	14160.3
40°	12351.5	10622.6	9878.0	10280.7	10887.8	11392.8	12572.0	14799.4	15163.7	14927.2
42.5°	12415.4	11418.3	11370.4	11702.8	12223.7	12115.0	12588.0	14863.3	15419.4	15278.8
45°	12444.2	12214.1	12888.4	13501.9	13719.3	13060.9	12437.8	14741.9	15553.6	15202.1
47.5°	12214.1	12898.0	14115.5	15301.1	15365.1	13642.6	12373.9	14617.3	15633.5	15400.2
50°	12246.0	13326.2	15176.5	16237.5	16004.2	14157.1	12274.8	14540.6	15592.0	15435.4
52°	12169.3	13335.8	15326.7	16218.3	16055.3	13872.7	12105.4	14246.6	15553.6	15665.5
52.5°	12255.6	13278.2	15170.1	16231.1	16020.2	14013.3	12083.0	14409.5	15576.0	15349.1
55°	11958.4	12594.4	14252.9	14703.5	14671.6	12719.0	11396.0	13869.5	14991.2	14994.4
57.5°	10808.0	10916.6	11178.7	11169.1	11022.1	9999.4	9747.0	12754.1	13364.5	13032.2
60°	9523.3	7992.5	7286.3	6998.6	6835.7	6669.5	8622.1	11667.6	11725.1	11584.5
62.5°	8229.0	5541.4	4601.8	4522.0	4560.3	5167.5	8334.5	11236.2	10891.0	10587.4
65°	6640.7	4039.4	3342.7	3237.3	3611.2	4266.3	6746.2	8615.7	8085.2	7832.7
67.5°	4170.4	2946.5	2259.4	2061.2	2511.8	2936.9	4432.5	5413.6	4819.2	4470.8
70°	2473.5	1645.8	1022.6	917.2	1032.2	1565.9	2483.1	2700.4	2233.8	2054.9
72.5°	974.7	604.0	284.4	242.9	252.5	549.7	914.0	891.6	674.3	600.8
75°	262.0	182.2	99.1	79.9	67.1	102.3	147.0	95.9	35.2	44.7
77.5°	121.4	108.7	86.3	67.1	51.1	38.3	19.2	6.4	6.4	3.2
80°	105.5	92.7	79.9	67.1	51.1	32.0	16.0	3.2	3.2	3.2
82.5°	99.1	86.3	73.5	60.7	47.9	32.0	16.0	3.2	0.0	0.0
85°	41.5	54.3	60.7	57.5	51.1	32.0	16.0	3.2	0.0	0.0
87.5°	22.4	19.2	16.0	12.8	9.6	6.4	6.4	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

(END OF REPORT)