

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: P456142

Luminaire Tested: **GLAN-SA7B-827-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456142
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7B-827-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29082 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

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

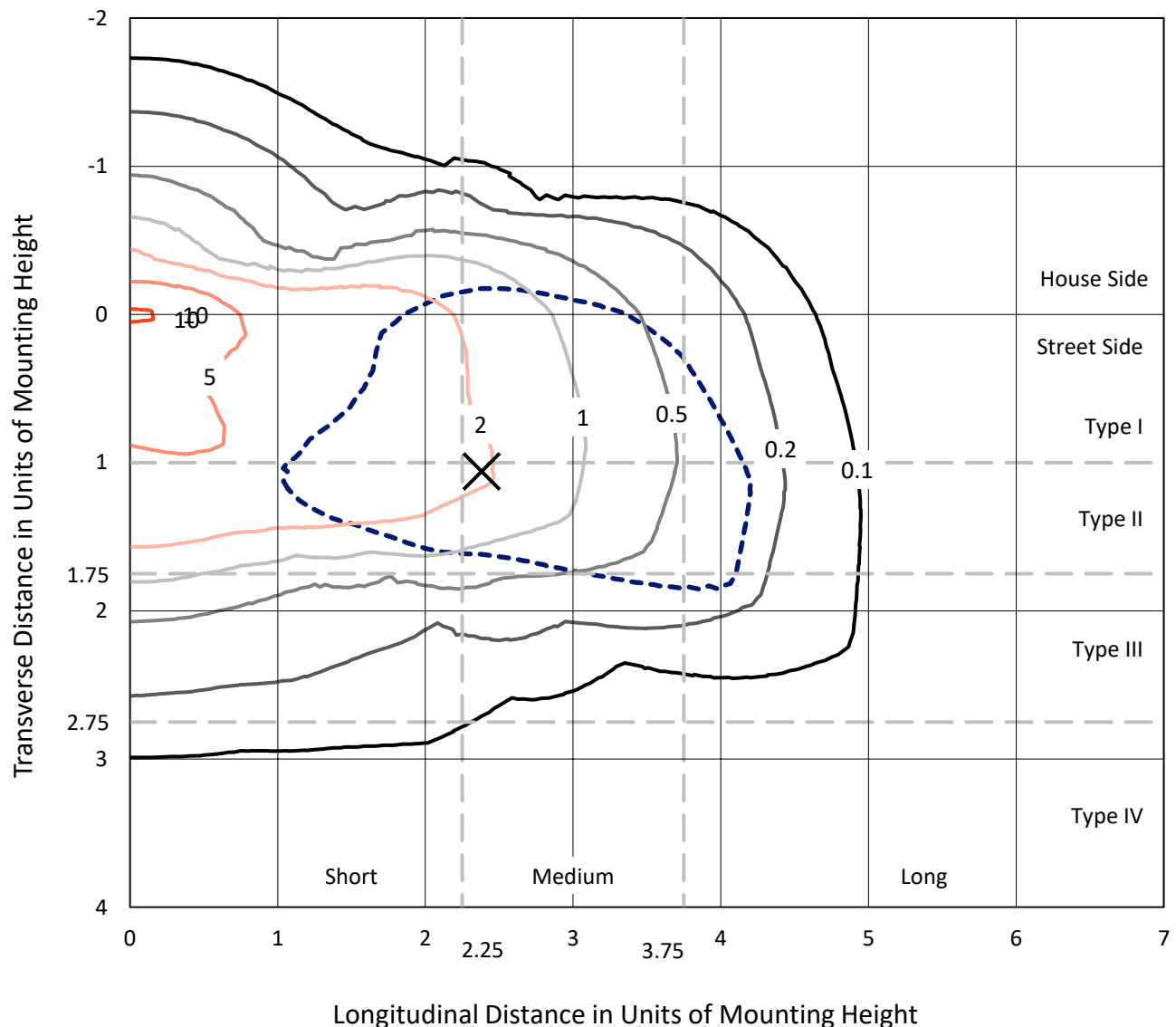


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

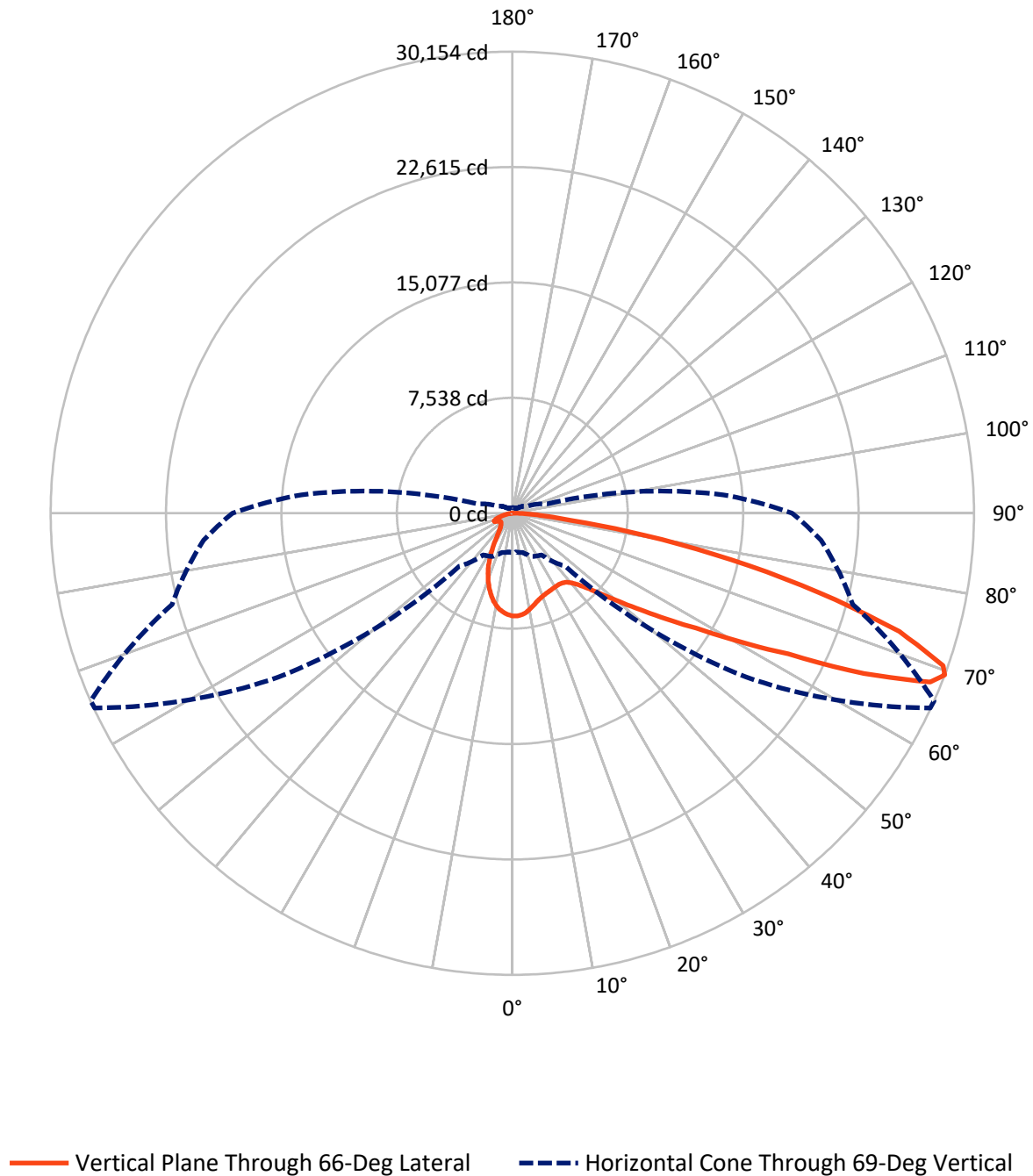


Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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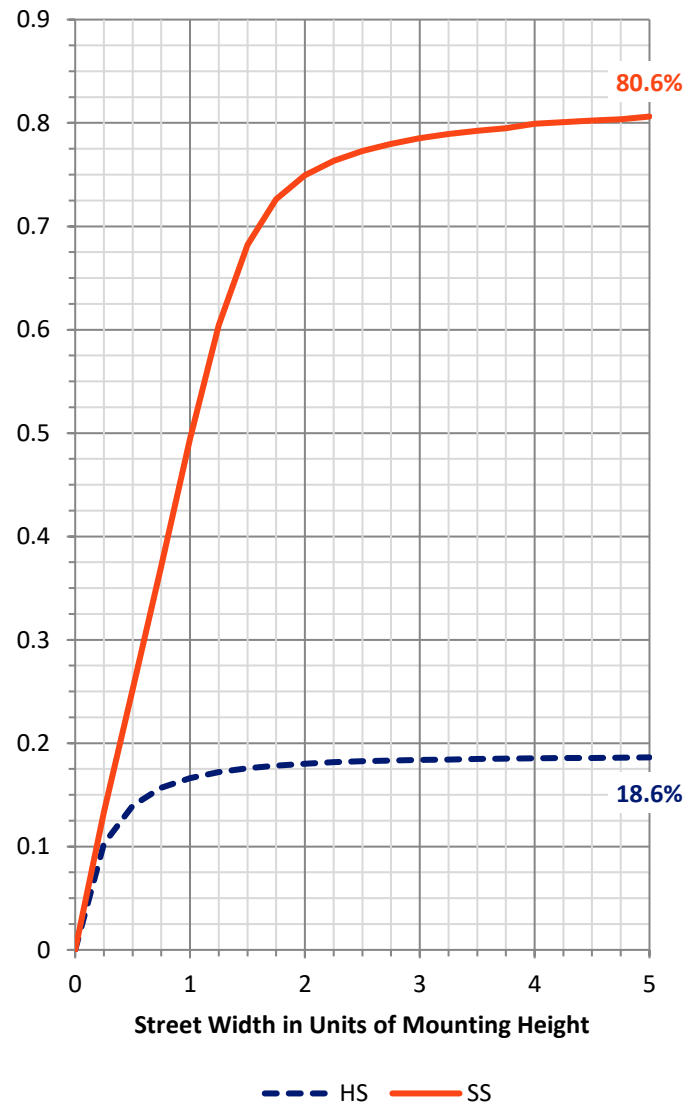
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5469.2	0.0	5469.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	23612.8	0.0	23612.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	29082.0	0.0	29082.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	583.2	2.0
10°-20°	1383.3	4.8
20°-30°	1883.2	6.5
30°-40°	2530.6	8.7
40°-50°	3778.6	13.0
50°-60°	6010.4	20.7
60°-70°	7392.5	25.4
70°-80°	4809.9	16.5
80°-90°	710.3	2.4
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°	29082.0	100.0
0°-180°	29082.0	100.0

Coefficient of Utilization



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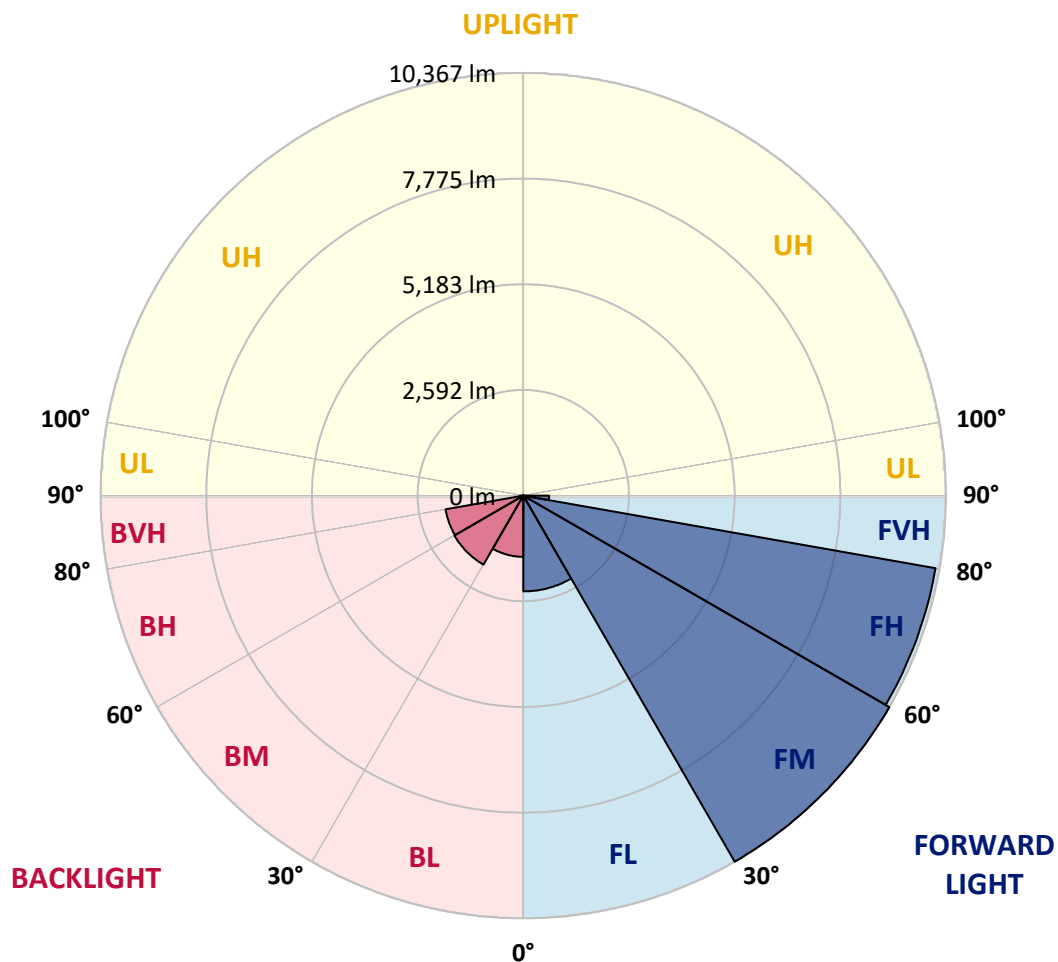
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2348.3	8.1			
FM	(30°-60°)	10366.9	35.6			
FH	(60°-80°)	10266.1	35.3			G4/12000
FVH	(80°-90°)	631.5	2.2			G4/750
BL	(0°-30°)	1501.3	5.2	B3/2500		
BM	(30°-60°)	1952.8	6.7	B2/2500		
BH	(60°-80°)	1936.3	6.7	B3/2500		G3/2500
BVH	(80°-90°)	78.8	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-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6715.8	6715.8	6715.8	6715.8	6715.8	6715.8	6715.8	6715.8	6715.8	6715.8	6715.8
2.5°	6480.7	6506.5	6535.5	6567.7	6628.9	6662.7	6686.9	6714.2	6717.5	6731.9	6720.7
5°	6002.4	6033.0	6076.5	6137.7	6229.5	6372.8	6521.0	6641.8	6656.3	6723.9	6743.2
7.5°	5603.0	5620.7	5656.1	5754.4	5884.8	6044.3	6260.1	6504.9	6540.3	6701.3	6757.7
10°	5277.7	5295.4	5337.2	5438.7	5567.5	5767.2	6004.0	6326.1	6355.1	6632.1	6760.9
12.5°	5034.5	5050.6	5095.7	5195.5	5343.7	5530.5	5791.4	6132.8	6174.7	6540.3	6730.3
15°	4849.3	4879.9	4916.9	4999.0	5155.3	5335.6	5588.5	5955.7	5989.5	6443.7	6709.4
17.5°	4770.3	4784.8	4810.6	4886.3	5000.6	5177.8	5432.3	5817.2	5857.4	6376.0	6704.6
20°	4773.6	4788.1	4792.9	4834.8	4916.9	5069.9	5321.1	5707.7	5756.0	6316.4	6712.6
22.5°	4883.1	4884.7	4867.0	4852.5	4884.7	5011.9	5242.2	5625.5	5681.9	6290.7	6719.1
25°	5052.2	5081.2	5055.4	4987.8	4928.2	4989.4	5211.6	5580.4	5633.6	6253.6	6711.0
27.5°	5326.0	5330.8	5309.9	5218.1	5063.5	5018.4	5198.7	5546.6	5591.7	6226.2	6670.7
30°	5693.2	5678.7	5659.3	5557.9	5314.7	5129.5	5226.1	5516.0	5562.7	6186.0	6622.4
32.5°	6065.2	6110.3	6092.6	5973.4	5657.7	5345.3	5314.7	5512.8	5551.4	6155.4	6569.3
35°	6459.8	6480.7	6564.5	6503.3	6179.5	5694.8	5480.6	5562.7	5593.3	6157.0	6532.2
37.5°	6769.0	6825.4	7021.8	7075.0	6770.6	6157.0	5749.5	5704.4	5717.3	6235.9	6546.7
40°	7142.6	7239.3	7492.1	7709.5	7509.8	6757.7	6206.9	5967.0	5983.1	6425.9	6641.8
42.5°	7616.1	7683.8	8023.6	8318.3	8286.1	7551.7	6760.9	6397.0	6405.0	6804.4	6907.5
45°	8170.1	8266.8	8648.5	9091.3	9167.0	8450.4	7561.4	7047.6	7042.8	7392.3	7403.5
47.5°	8878.8	8938.4	9316.8	9800.0	10106.0	9579.3	8532.5	7981.7	7930.2	8249.1	8157.3
50°	9531.0	9624.4	9911.1	10439.3	11201.1	10901.6	9809.6	9192.8	9072.0	9370.0	9215.4
52.5°	9804.8	9903.0	10144.6	10800.1	12140.1	12611.9	11431.4	10637.4	10436.1	10664.8	10608.5
55°	9329.7	9456.9	9682.4	10479.6	12552.3	14584.8	13618.5	12307.5	12161.0	12062.7	12078.9
57.5°	8052.6	8173.4	8477.7	9357.1	12059.5	16016.6	16741.3	14454.4	14140.3	13687.8	13765.1
60°	6129.6	6205.3	6363.1	7337.5	10598.8	16388.6	20287.6	17168.1	16968.4	15306.3	15361.1
62.5°	4353.2	4438.6	4548.1	5034.5	7759.5	15340.1	23064.2	20957.6	20244.2	16982.9	16929.7
65°	3535.1	3477.1	3609.2	3836.2	4552.9	11888.8	23689.0	26217.6	25235.1	19190.9	18453.3
67.5°	2907.0	2845.8	2976.2	3380.5	3462.6	6901.1	21437.5	29631.8	29435.4	21592.2	20001.0
69°	2573.6	2541.4	2655.7	3116.3	3324.1	4900.8	18675.5	30106.9	30153.6	23007.8	20239.3
70°	2319.1	2332.0	2443.1	2982.7	3261.3	4040.8	15961.8	29451.5	29847.6	23714.8	19981.6
72.5°	1707.1	1734.5	1889.1	2470.5	3201.7	3428.8	9498.8	25724.7	26425.3	23756.7	18279.3
75°	1193.4	1180.5	1317.4	1860.1	3024.5	3398.2	5578.8	19894.7	20688.7	20534.0	15359.5
77.5°	781.1	802.0	911.6	1314.2	2544.6	3372.4	3636.5	14114.5	14629.9	13732.8	9084.9
80°	550.8	549.2	610.4	897.1	1887.5	3240.4	2977.8	8896.5	8766.0	5396.8	2694.4
82.5°	315.7	338.2	409.1	631.3	1262.6	2852.2	2739.5	4255.0	3884.6	1538.0	909.9
85°	175.5	183.6	243.2	381.7	737.6	2148.4	2391.6	1935.8	1826.3	642.6	391.4
87.5°	56.4	61.2	101.5	193.3	335.0	1014.6	1354.4	893.8	824.6	231.9	157.8
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°	6715.8	6715.8	6715.8	6715.8	6715.8	6715.8	6715.8	6715.8	6715.8	6715.8	6715.8
2.5°	6725.5	6744.8	6693.3	6643.4	6598.3	6535.5	6479.1	6432.4	6400.2	6395.3	6379.2
5°	6748.1	6749.7	6651.4	6519.4	6390.5	6248.8	6102.2	5997.6	5899.3	5844.6	5817.2
7.5°	6764.2	6749.7	6572.5	6358.3	6110.3	5852.6	5594.9	5388.8	5229.3	5166.5	5190.7
10°	6757.7	6712.6	6453.3	6110.3	5749.5	5364.6	4994.2	4704.3	4438.6	4301.7	4304.9
12.5°	6722.3	6648.2	6276.2	5831.7	5301.8	4786.4	4219.5	3828.2	3520.6	3338.6	3282.2
15°	6691.7	6562.8	6068.4	5453.2	4794.5	4058.5	3367.6	2884.4	2626.7	2483.4	2481.8
17.5°	6659.5	6480.7	5841.3	5052.2	4211.5	3264.5	2539.8	2171.0	2050.2	2064.7	2040.5
20°	6625.7	6384.1	5604.6	4606.1	3501.3	2435.1	1902.0	1752.2	1786.1	1852.1	1861.8
22.5°	6587.0	6281.0	5350.1	4114.9	2754.0	1832.8	1542.9	1520.3	1607.3	1710.4	1724.9
25°	6527.4	6152.2	5029.6	3601.1	2124.3	1476.8	1351.2	1367.3	1452.7	1539.7	1549.3
27.5°	6443.7	5992.7	4705.9	2960.1	1596.0	1267.5	1235.3	1256.2	1298.1	1351.2	1364.1
30°	6330.9	5812.3	4333.9	2406.1	1278.7	1162.8	1149.9	1161.2	1185.3	1207.9	1214.3
32.5°	6218.2	5638.4	3958.6	1842.4	1140.2	1093.5	1080.7	1080.7	1080.7	1083.9	1085.5
35°	6113.5	5474.1	3556.0	1435.0	1067.8	1038.8	1021.1	1001.7	998.5	987.2	987.2
37.5°	6055.5	5324.4	3127.6	1201.4	1014.6	993.7	969.5	937.3	919.6	921.2	918.0
40°	6066.8	5226.1	2737.9	1069.4	971.1	948.6	911.6	874.5	863.2	863.2	860.0
42.5°	6194.0	5193.9	2364.2	1000.1	929.3	903.5	856.8	823.0	816.5	814.9	818.1
45°	6487.1	5272.8	2029.2	955.0	893.8	855.2	808.5	777.9	771.4	771.4	769.8
47.5°	7058.9	5528.9	1789.3	926.0	868.1	818.1	769.8	739.2	728.0	724.7	724.7
50°	7947.9	6084.5	1610.5	900.3	835.9	784.3	734.4	699.0	681.2	679.6	678.0
52.5°	9183.1	6951.0	1541.3	881.0	800.4	748.9	694.1	660.3	637.8	632.9	629.7
55°	10627.8	8160.5	1636.3	866.5	763.4	708.6	652.3	616.8	595.9	586.2	584.6
57.5°	12301.1	9613.2	1997.0	847.1	729.6	665.1	610.4	575.0	552.4	541.1	537.9
60°	13803.7	11106.1	2626.7	835.9	700.6	618.4	562.1	529.9	508.9	497.6	496.0
62.5°	15454.5	12529.8	3378.9	866.5	687.7	573.3	517.0	488.0	470.3	459.0	459.0
65°	17218.0	13955.1	3876.5	969.5	707.0	537.9	468.7	444.5	428.4	420.3	418.7
67.5°	18406.6	14447.9	3193.6	1075.8	755.3	499.3	422.0	402.6	393.0	384.9	384.9
69°	18277.7	13824.6	2356.2	1103.2	769.8	479.9	396.2	381.7	368.8	365.6	362.4
70°	17870.3	13114.4	1974.5	1085.5	758.6	462.2	380.1	362.4	351.1	347.9	346.3
72.5°	15916.7	11373.4	1470.4	943.8	645.8	401.0	336.6	320.5	310.8	306.0	306.0
75°	13223.9	9295.9	1148.3	750.5	505.7	338.2	288.3	275.4	267.3	264.1	262.5
77.5°	7411.6	5190.7	824.6	587.8	383.3	273.8	241.6	230.3	222.3	219.0	219.0
80°	2064.7	1483.3	484.8	388.1	260.9	207.8	191.7	183.6	172.3	164.3	169.1
82.5°	777.9	642.6	277.0	233.5	165.9	138.5	133.7	127.2	122.4	111.1	111.1
85°	378.5	312.4	177.2	124.0	91.8	72.5	69.3	66.0	62.8	54.8	56.4
87.5°	130.5	138.5	77.3	45.1	27.4	17.7	14.5	8.1	8.1	8.1	8.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)