

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: P534404

Luminaire Tested: **GLAN-SA9D-827-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534404
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9D-827-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45303 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

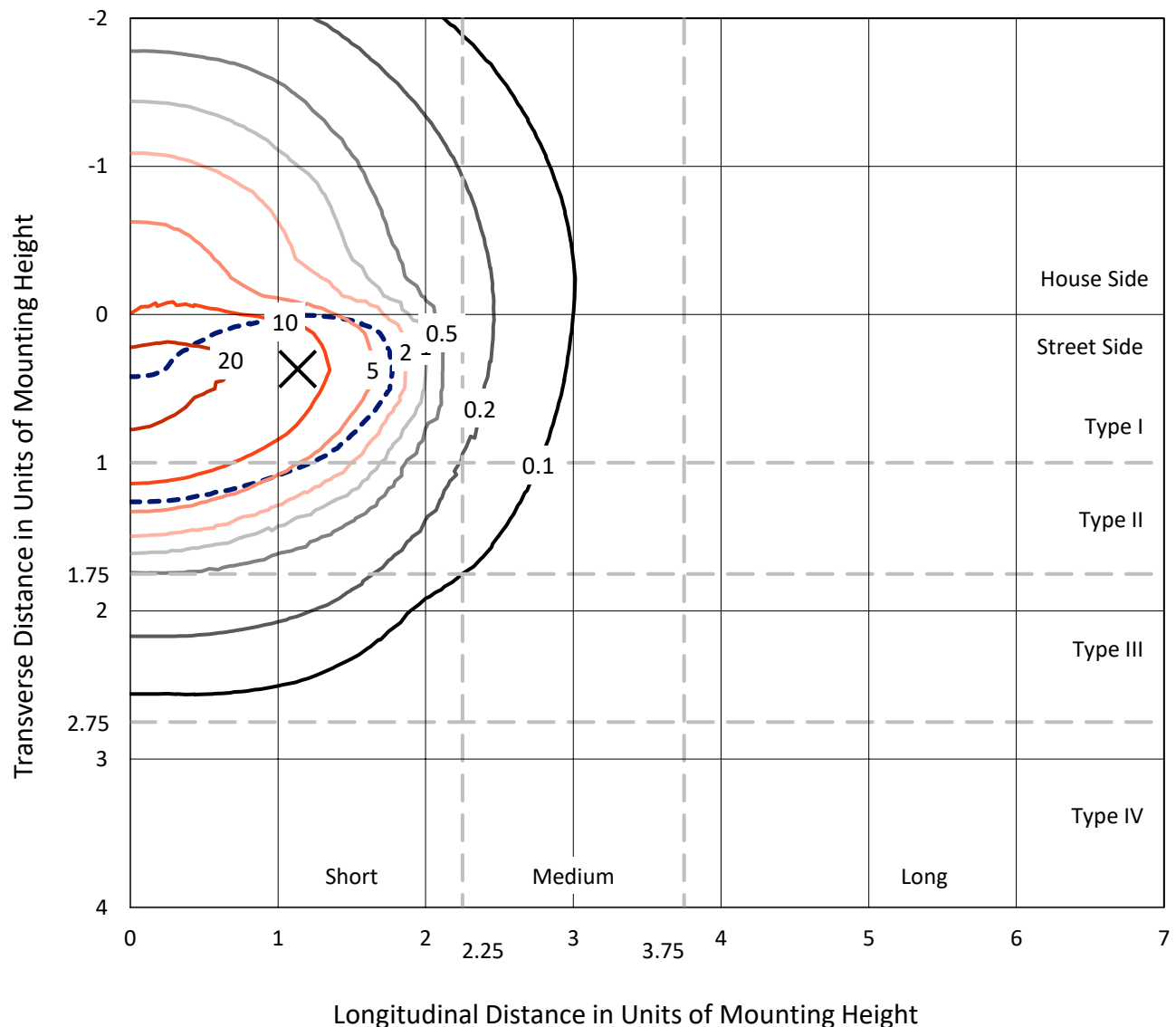
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

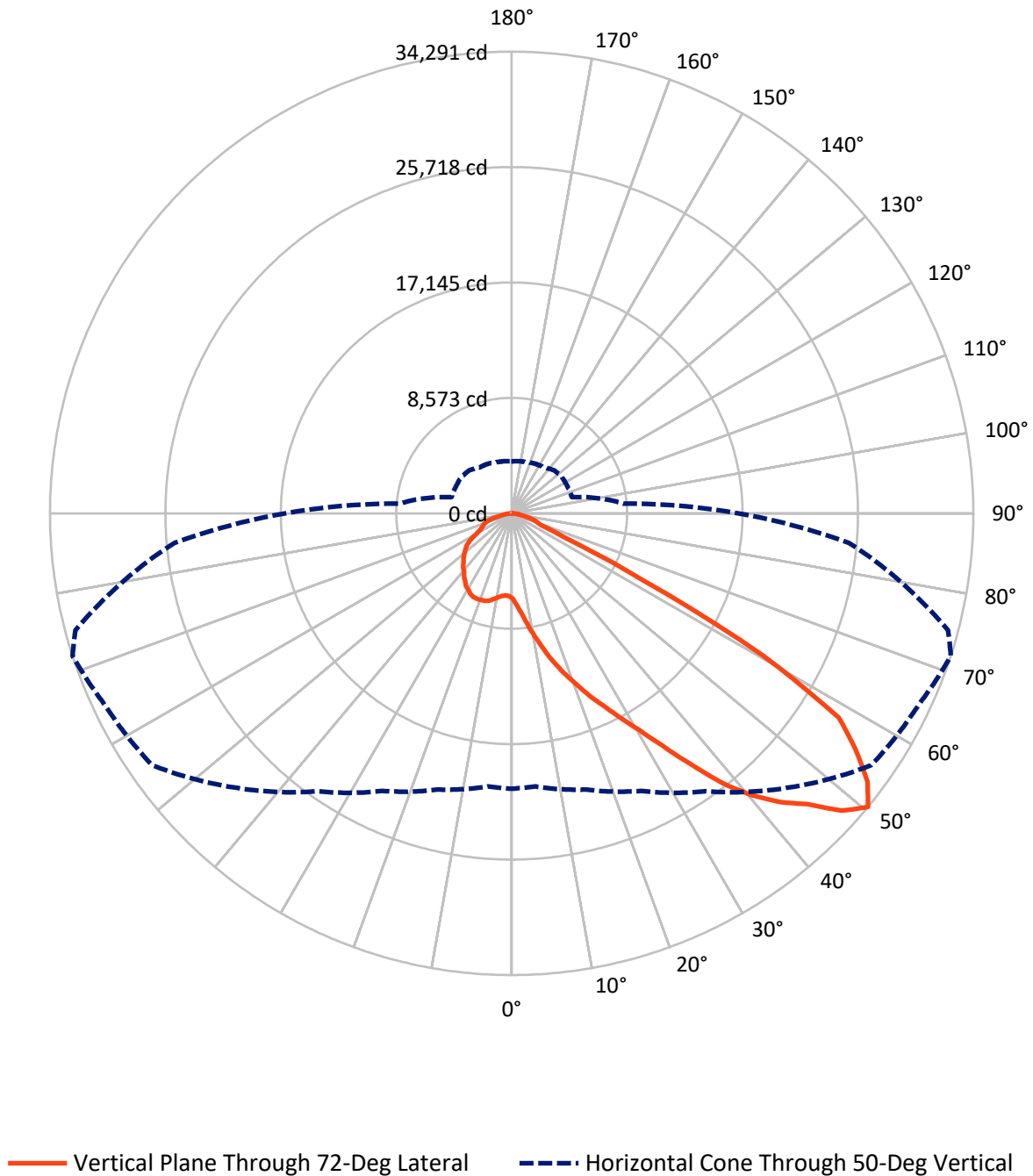
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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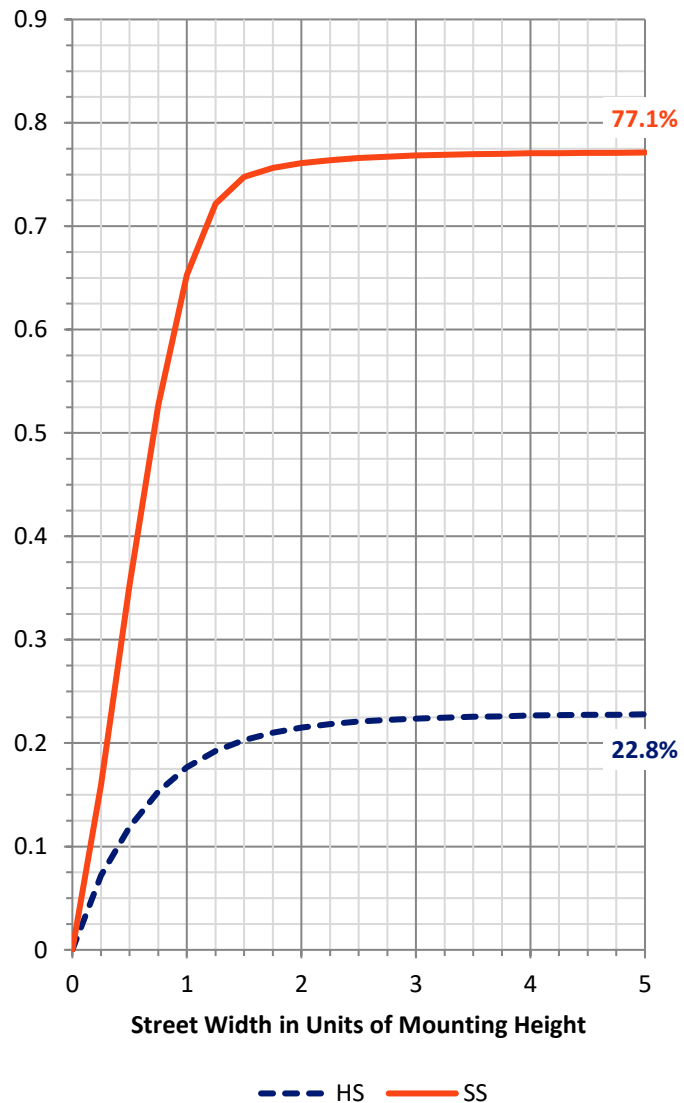
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10379.2	0.0	10379.2
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	34923.8	0.0	34923.8
	% Fixture	77.1	0.0	77.1
Total	Lumens	45303.0	0.0	45303.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	741.8	1.6
10°-20°	2773.1	6.1
20°-30°	5376.9	11.9
30°-40°	8907.7	19.7
40°-50°	12463.8	27.5
50°-60°	10514.8	23.2
60°-70°	3204.9	7.1
70°-80°	1124.4	2.5
80°-90°	195.5	0.4
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°	45303.0	100.0
0°-180°	45303.0	100.0

Coefficient of Utilization



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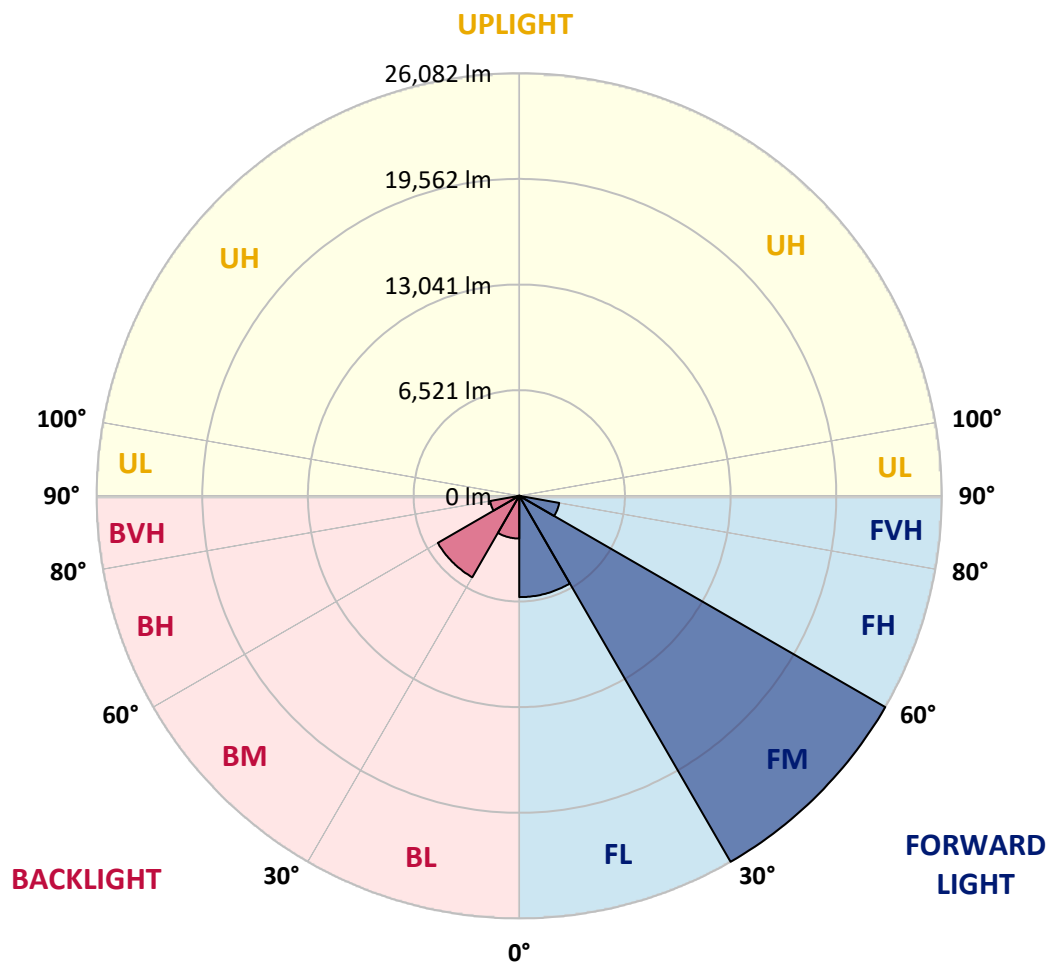
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6253.4	13.8			
FM	(30°-60°)	26082.2	57.6			
FH	(60°-80°)	2500.7	5.5			G2/5000
FVH	(80°-90°)	87.6	0.2			G1/100
BL	(0°-30°)	2638.4	5.8	B4/5000		
BM	(30°-60°)	5804.2	12.8	B4/8500		
BH	(60°-80°)	1828.6	4.0	B3/2500		G3/2500
BVH	(80°-90°)	107.9	0.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	6306.6	6306.6	6306.6	6306.6	6306.6	6306.6	6306.6	6306.6	6306.6	6306.6	6306.6
2.5°	8111.6	8061.2	7909.8	7859.4	7680.0	7354.9	7242.7	6912.0	6771.8	6642.9	6491.6
5°	10258.7	10023.2	10006.4	9720.5	9305.7	9064.6	8347.1	7865.0	7422.1	7197.9	6783.1
7.5°	11626.5	11632.1	11632.1	11396.7	11065.9	10454.9	9810.2	8941.3	8274.2	7943.5	7237.1
10°	12927.1	12814.9	12753.3	12730.9	12506.6	11912.4	11222.9	10146.6	9232.8	8846.0	7579.1
12.5°	13846.4	13751.1	13891.3	13818.4	13655.8	13269.0	12618.7	11391.1	10247.5	9726.1	8128.5
15°	14283.7	14350.9	14463.1	14664.9	14592.0	14446.2	13728.7	12669.2	11340.6	10752.0	8616.2
17.5°	14956.4	14771.4	14905.9	15158.2	15360.0	15292.7	14883.5	13594.1	12422.5	11699.4	9272.1
20°	15427.3	15320.7	15388.0	15679.5	15830.9	16212.1	15999.1	14805.0	13459.6	12697.2	10045.7
22.5°	16772.7	16615.7	16397.1	16441.9	16498.0	16767.1	16817.5	16133.6	14664.9	13857.6	10780.0
25°	18432.0	18286.2	18028.4	17764.9	17602.3	17551.9	17725.6	17176.3	15819.7	14984.4	11570.4
27.5°	20259.5	20012.8	19850.3	19306.5	18869.2	18802.0	18717.9	18420.8	17187.5	16284.9	12461.8
30°	22036.5	21840.3	21621.7	20752.8	20298.7	20225.9	19811.0	19895.1	18673.0	17669.6	13470.8
32.5°	23381.9	23398.8	22899.8	22244.0	21817.9	21431.1	21279.7	21520.8	20579.0	19771.8	14597.6
35°	24469.5	24519.9	24043.4	23449.2	22989.5	23258.6	23191.3	23303.5	22855.0	21868.4	15909.4
37.5°	25529.0	25276.7	24766.6	24480.7	24239.6	24682.5	25254.3	25349.6	25433.7	24273.3	17434.1
40°	25702.8	25725.2	25428.1	25629.9	25327.2	25994.3	27322.8	27199.5	27541.5	26526.8	19087.9
42.5°	25456.1	25506.5	25624.3	25910.2	26638.9	27440.6	29413.8	28909.3	29324.1	28421.6	20696.7
45°	25052.5	24845.1	24990.8	26078.3	27339.7	29122.3	31325.4	30933.0	30798.5	30041.7	22613.9
47.5°	23124.1	23337.1	23791.2	25131.0	27025.7	29413.8	32682.0	32592.3	32995.9	32463.4	24357.4
50°	20450.1	20366.0	21240.5	22748.5	25192.6	28842.0	32609.1	33422.0	34290.9	33550.9	25136.6
52.5°	15315.1	15763.6	16514.8	18387.1	21874.0	25725.2	31017.1	32373.7	33080.0	32923.1	24508.7
55°	9681.3	9815.8	10269.9	12495.4	15634.7	20646.3	26588.5	29733.3	30994.7	31583.3	23931.3
57.5°	4703.3	4451.0	5006.0	6794.3	9031.0	13885.7	20506.1	25899.0	28640.2	29705.3	22675.6
60°	2455.4	2550.7	2769.3	3408.3	4669.7	7209.1	12781.3	17260.4	21447.9	23084.8	17187.5
62.5°	2034.9	2068.6	2214.3	2533.8	3105.6	4148.3	6525.2	8414.4	10937.0	12411.3	9776.6
65°	1726.6	1743.4	1900.4	2113.4	2477.8	2920.6	3357.9	3514.9	4254.8	4366.9	3475.6
67.5°	1440.7	1457.5	1625.7	1827.5	2062.9	2180.7	2292.8	2281.6	2365.7	2332.0	2326.4
70°	1110.0	1126.8	1300.6	1513.6	1631.3	1564.0	1911.6	1990.1	2023.7	2051.7	2096.6
72.5°	801.6	835.3	969.8	1121.2	1059.5	1216.5	1575.2	1693.0	1737.8	1754.6	1810.7
75°	583.0	594.2	627.9	583.0	672.7	846.5	1110.0	1255.7	1311.8	1328.6	1412.7
77.5°	257.9	263.5	269.1	336.4	431.6	526.9	661.5	779.2	857.7	880.1	902.5
80°	134.5	140.1	173.8	229.8	308.3	386.8	482.1	549.4	599.8	605.4	627.9
82.5°	84.1	89.7	123.3	162.6	218.6	285.9	353.2	409.2	448.5	454.1	459.7
85°	39.2	50.5	72.9	100.9	145.8	185.0	190.6	162.6	173.8	179.4	168.2
87.5°	11.2	16.8	22.4	16.8	22.4	22.4	28.0	33.6	33.6	33.6	39.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6306.6	6306.6	6306.6	6306.6	6306.6	6306.6	6306.6	6306.6	6306.6	6306.6	6306.6
2.5°	6407.5	6357.0	6160.8	6087.9	5897.3	5931.0	5830.1	5824.5	5802.0	5796.4	5790.8
5°	6564.4	6407.5	6172.0	5992.6	5886.1	5874.9	5802.0	5802.0	5824.5	5841.3	5802.0
7.5°	6822.3	6642.9	6244.9	6076.7	5981.4	5964.6	5914.2	5874.9	5925.4	5908.5	5863.7
10°	7119.4	6805.5	6385.0	6239.3	6082.3	6043.1	6043.1	6059.9	5975.8	6003.8	5959.0
12.5°	7450.2	7029.7	6564.4	6396.3	6211.3	6188.8	6177.6	6054.3	6099.1	6076.7	5964.6
15°	7870.6	7287.6	6794.3	6508.4	6351.4	6250.5	6104.8	6082.3	6054.3	5998.2	5947.8
17.5°	8324.7	7567.9	6900.8	6542.0	6306.6	6233.7	6121.6	6003.8	5919.8	5931.0	5891.7
20°	8711.5	7825.7	6940.0	6575.6	6272.9	6132.8	5959.0	5886.1	5796.4	5790.8	5785.2
22.5°	9171.1	8173.3	6996.1	6486.0	6172.0	6026.3	5908.5	5779.6	5718.0	5639.5	5678.7
25°	9720.5	8307.8	7007.3	6435.5	6099.1	5841.3	5779.6	5639.5	5617.0	5504.9	5527.4
27.5°	10118.5	8380.7	6917.6	6278.5	5931.0	5734.8	5622.7	5521.7	5482.5	5398.4	5376.0
30°	10651.1	8492.8	6727.0	6082.3	5762.8	5544.2	5476.9	5454.5	5342.4	5252.7	5241.5
32.5°	11256.5	8565.7	6603.7	5880.5	5589.0	5420.8	5454.5	5348.0	5207.8	5129.3	5106.9
35°	11738.6	8593.7	6295.4	5650.7	5471.3	5364.8	5325.5	5303.1	5101.3	5028.4	4972.4
37.5°	12473.0	8532.1	6037.5	5488.1	5342.4	5303.1	5269.5	5118.1	4888.3	4781.8	4703.3
40°	13330.7	8515.3	5706.7	5258.3	5219.0	5263.9	5163.0	4927.5	4608.0	4490.3	4434.2
42.5°	14154.7	8633.0	5499.3	5134.9	5084.5	5101.3	4961.2	4608.0	4451.0	4383.8	4294.1
45°	15533.8	8879.6	5157.4	4944.3	4921.9	4910.7	4742.5	4372.6	4282.9	4198.8	4182.0
47.5°	16778.3	8717.1	4938.7	4748.1	4770.6	4708.9	4350.1	4232.4	4131.5	4047.4	4019.4
50°	16851.1	8330.3	4630.4	4596.8	4602.4	4495.9	4153.9	4075.4	3946.5	3890.4	3851.2
52.5°	16469.9	7696.8	4344.5	4355.7	4372.6	4198.8	3912.9	3856.8	3750.3	3671.8	3649.4
55°	15399.2	6710.2	4064.2	4109.1	4153.9	3823.2	3733.5	3593.3	3509.3	3397.1	3402.7
57.5°	13566.1	5404.0	3671.8	3744.7	3840.0	3475.6	3408.3	3234.6	3111.2	3021.5	3010.3
60°	9092.7	3845.6	3083.2	3111.2	3324.3	3178.5	3172.9	2999.1	2830.9	2752.5	2707.6
62.5°	5364.8	2937.5	2662.8	2634.7	2629.1	2713.2	2853.4	2791.7	2573.1	2421.7	2466.6
65°	2808.5	2539.4	2477.8	2382.5	2326.4	2304.0	2410.5	2438.5	2292.8	2130.2	2119.0
67.5°	2360.1	2360.1	2309.6	2276.0	2197.5	2102.2	2034.9	1945.2	1922.8	1878.0	1821.9
70°	2147.0	2203.1	2186.3	2107.8	2040.5	1934.0	1760.2	1614.5	1474.3	1423.9	1457.5
72.5°	1872.3	1928.4	1928.4	1889.2	1799.5	1636.9	1468.7	1300.6	1182.8	1093.1	1081.9
75°	1440.7	1468.7	1536.0	1491.2	1373.4	1272.5	1098.7	925.0	812.8	728.8	711.9
77.5°	919.4	964.2	964.2	958.6	874.5	779.2	667.1	543.8	459.7	398.0	381.2
80°	611.0	639.1	661.5	639.1	583.0	510.1	426.0	342.0	280.3	229.8	218.6
82.5°	448.5	482.1	498.9	476.5	420.4	364.4	302.7	241.1	179.4	140.1	128.9
85°	173.8	179.4	201.8	241.1	235.4	229.8	185.0	134.5	100.9	72.9	67.3
87.5°	44.8	39.2	44.8	44.8	39.2	33.6	33.6	33.6	33.6	16.8	22.4
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)