

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: P323980

Luminaire Tested: **GAN-SA6D-827-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323980
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6D-827-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27688 lumens
Efficiency: N/A
Efficacy: 72.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

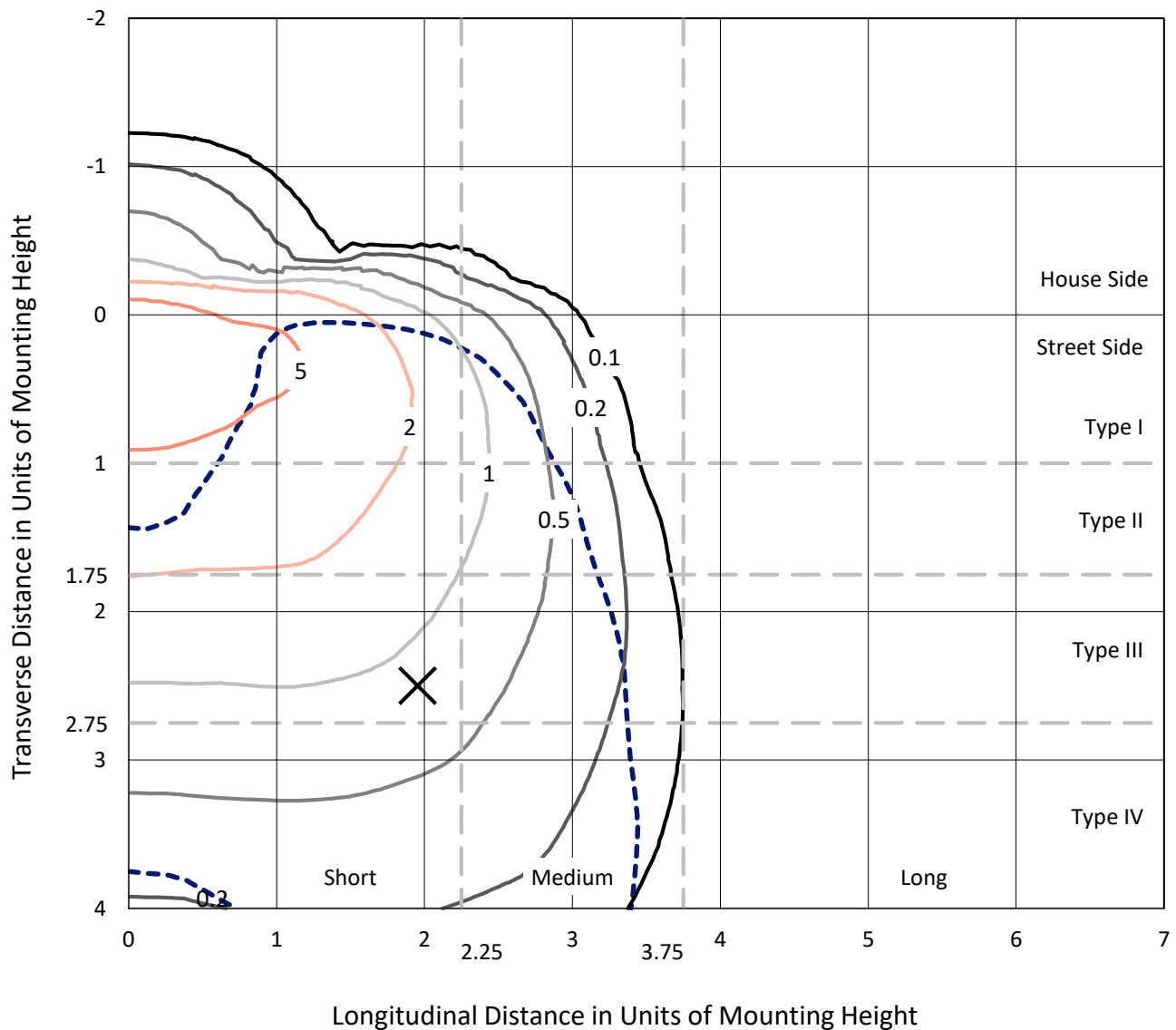
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

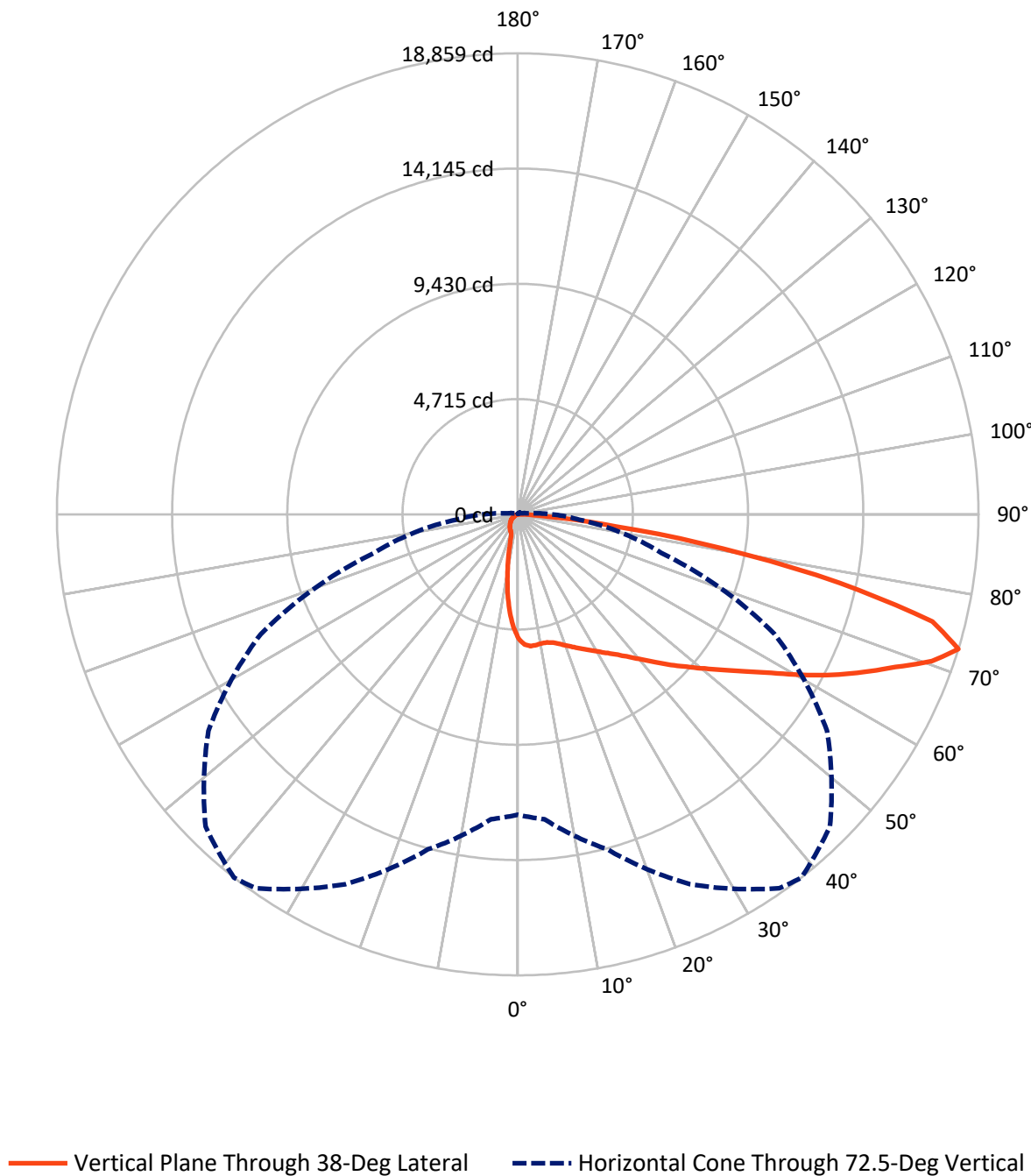
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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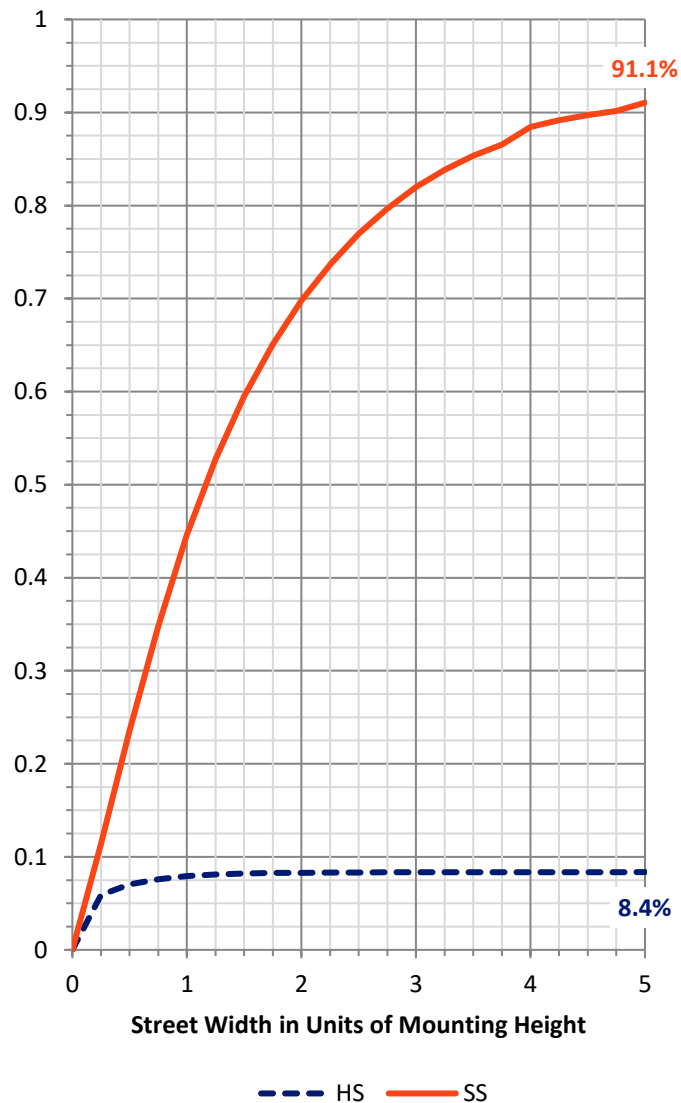
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2330.0	0.0	2330.0
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	25358.0	0.0	25358.0
	% Fixture	91.6	0.0	91.6
Total	Lumens	27688.0	0.0	27688.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	433.9	1.6
10°-20°	1061.0	3.8
20°-30°	1687.5	6.1
30°-40°	2537.0	9.2
40°-50°	3870.4	14.0
50°-60°	5470.2	19.8
60°-70°	6861.4	24.8
70°-80°	5130.4	18.5
80°-90°	636.1	2.3
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°	27688.0	100.0
0°-180°	27688.0	100.0

Coefficient of Utilization



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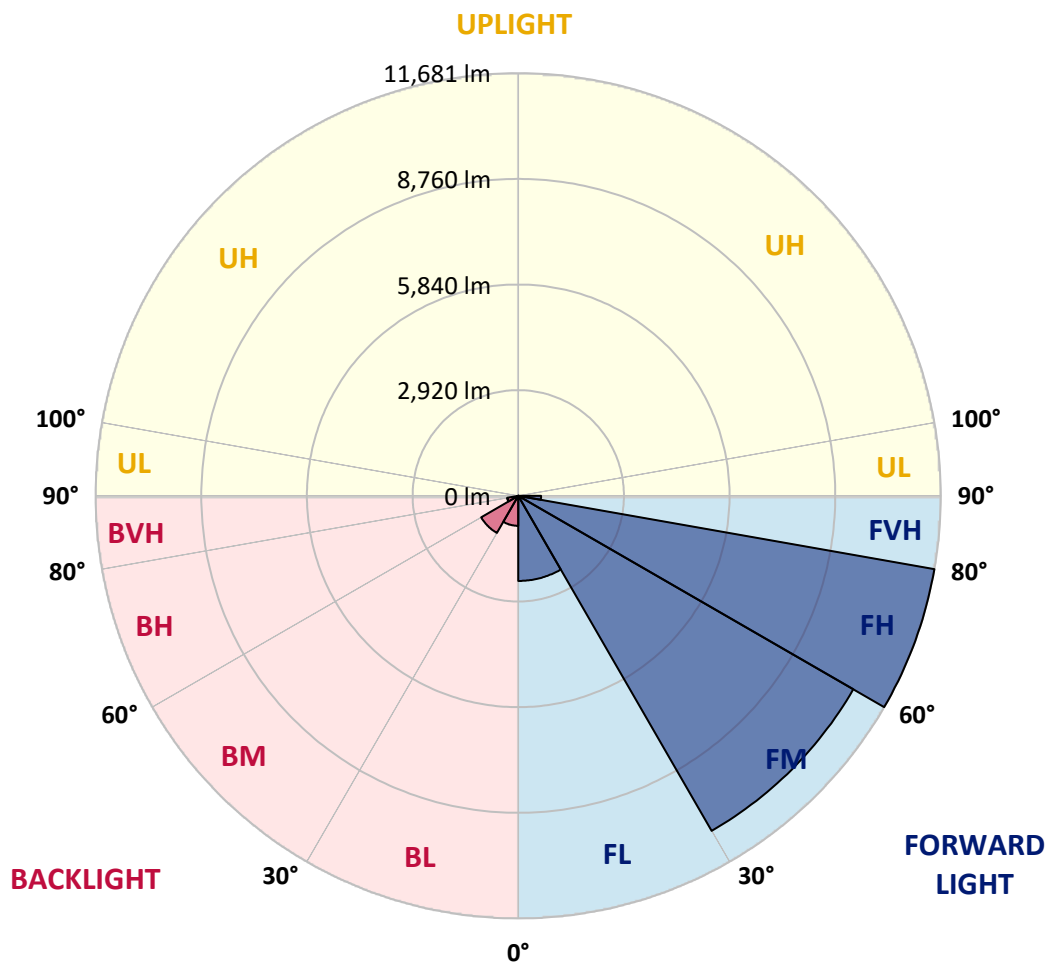
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2352.8	8.5			
FM	(30°-60°)	10694.3	38.6			
FH	(60°-80°)	11680.6	42.2			G4/12000
FVH	(80°-90°)	630.2	2.3			G4/750
BL	(0°-30°)	829.6	3.0	B2/1000		
BM	(30°-60°)	1183.2	4.3	B2/2500		
BH	(60°-80°)	311.2	1.1	B1/500		G1/500
BVH	(80°-90°)	5.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	5091.7	5091.7	5091.7	5091.7	5091.7	5091.7	5091.7	5091.7	5091.7	5091.7	5091.7
2.5°	5404.5	5405.7	5393.0	5372.3	5345.9	5332.1	5309.1	5272.3	5233.2	5163.0	5087.1
5°	5514.9	5514.9	5498.8	5471.2	5428.7	5416.0	5372.3	5313.7	5233.2	5119.3	4991.7
7.5°	5503.4	5505.7	5483.8	5455.1	5412.6	5401.1	5348.2	5282.6	5182.6	5044.6	4881.3
10°	5443.6	5449.3	5432.1	5418.3	5379.2	5366.6	5317.1	5251.6	5151.5	5004.3	4816.9
12.5°	5382.7	5388.4	5394.2	5406.8	5382.7	5378.1	5339.0	5283.8	5188.3	5035.4	4823.8
15°	5343.6	5355.1	5396.5	5445.9	5451.6	5447.0	5421.8	5370.0	5273.4	5114.7	4873.3
17.5°	5343.6	5362.0	5448.2	5542.5	5575.8	5579.3	5557.4	5485.0	5370.0	5199.8	4919.2
20°	5388.4	5413.7	5548.2	5681.6	5736.8	5736.8	5694.3	5593.1	5458.5	5276.9	4950.3
22.5°	5503.4	5536.7	5705.8	5859.9	5918.5	5905.9	5848.4	5701.2	5550.5	5364.3	4989.4
25°	5729.9	5755.2	5931.2	6086.4	6122.0	6093.3	6020.8	5832.3	5667.8	5482.7	5060.7
27.5°	6022.0	6025.4	6207.1	6338.2	6316.4	6296.8	6206.0	5996.7	5836.9	5651.7	5183.7
30°	6342.8	6342.8	6502.7	6602.7	6536.0	6519.9	6429.1	6195.6	6053.0	5881.7	5358.5
32.5°	6653.3	6667.1	6797.0	6860.3	6785.5	6769.4	6680.9	6447.5	6340.5	6232.4	5631.0
35°	6953.4	6963.8	7086.8	7121.3	7050.0	7054.6	6991.4	6793.6	6753.3	6739.5	6041.5
37.5°	7244.3	7246.6	7372.0	7393.8	7358.2	7397.3	7403.0	7228.2	7303.0	7414.5	6619.9
40°	7510.0	7512.3	7636.4	7692.8	7753.7	7804.3	7849.2	7756.0	8003.3	8262.0	7308.7
42.5°	7722.7	7746.8	7904.4	8011.3	8172.3	8268.9	8390.8	8386.2	8836.9	9225.6	8141.3
45°	7910.1	7951.5	8171.1	8358.6	8634.6	8788.6	8979.5	9129.0	9775.3	10298.5	8984.1
47.5°	8157.4	8196.4	8447.1	8754.1	9122.1	9324.5	9640.7	9963.8	10806.7	11351.8	9807.4
50°	8505.8	8488.5	8735.7	9176.2	9648.8	9914.4	10365.1	10849.3	11830.1	12269.4	10291.6
52.5°	8877.2	8870.3	9053.1	9635.0	10269.7	10580.2	11175.8	11764.6	12808.7	12901.8	10513.5
55°	9337.1	9287.7	9441.8	10158.2	11006.8	11340.3	12041.7	12670.7	13588.3	13258.3	10625.0
57.5°	9818.9	9737.3	9884.5	10741.2	11838.2	12232.6	13000.7	13553.8	14106.9	13502.1	10623.9
60°	10316.9	10220.3	10395.0	11470.2	12870.8	13327.3	14040.2	14150.6	14591.0	13625.1	10545.7
62.5°	10733.1	10675.6	10935.5	12249.8	14024.1	14472.6	14825.6	14693.3	14999.2	13720.5	10362.8
65°	11173.5	11177.0	11596.7	13159.4	15249.9	15552.3	15582.2	15397.1	15340.7	13701.0	9744.2
67.5°	11769.2	11824.4	12524.6	14394.4	16442.3	16675.8	16673.5	16159.5	15590.3	12923.7	8372.4
70°	12399.3	12529.2	13594.1	15807.6	17744.0	17980.9	17859.0	16644.7	14679.6	10450.2	5925.4
72.5°	12293.5	12518.9	14188.5	16698.8	18678.9	18859.4	18067.1	15452.3	11602.4	6073.7	2522.9
75°	9484.3	9745.4	13009.9	15815.6	17698.0	17535.9	15523.6	12024.4	6340.5	1694.9	568.0
77.5°	5010.1	5149.2	8594.3	12048.6	13799.9	13460.7	10935.5	6670.5	1933.0	419.7	255.3
80°	2624.1	2656.3	3745.2	6836.1	8517.3	8519.6	6480.8	2929.9	796.9	215.0	171.3
82.5°	1405.2	1432.8	1979.0	3158.8	4462.7	4045.3	2481.5	1612.2	463.4	121.9	164.4
85°	338.1	343.8	1122.3	1443.1	1754.7	1253.4	737.1	1353.4	125.3	71.3	133.4
87.5°	129.9	132.2	416.3	624.4	447.3	289.8	345.0	504.8	16.1	27.6	20.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5091.7	5091.7	5091.7	5091.7	5091.7	5091.7	5091.7	5091.7	5091.7	5091.7	5091.7
2.5°	5041.1	5011.2	4937.6	4844.5	4761.7	4701.9	4612.2	4553.6	4514.5	4513.3	4498.4
5°	4913.5	4852.6	4693.9	4505.3	4334.0	4179.9	3998.2	3854.4	3747.5	3730.3	3693.5
7.5°	4776.7	4676.6	4432.8	4138.5	3851.0	3558.9	3219.7	3009.3	2828.7	2742.5	2733.3
10°	4692.7	4552.4	4206.3	3780.9	3330.1	2855.2	2411.3	2104.3	1882.4	1819.1	1772.0
12.5°	4675.5	4490.3	4031.5	3445.1	2801.1	2173.3	1682.3	1355.7	1178.6	1122.3	1107.3
15°	4692.7	4461.6	3884.3	3112.8	2265.3	1542.0	1129.2	939.5	872.8	856.7	855.5
17.5°	4703.1	4427.1	3717.6	2743.6	1745.5	1101.6	864.7	809.5	799.2	798.0	800.3
20°	4701.9	4374.2	3518.7	2332.0	1298.2	865.9	781.9	770.4	768.1	769.3	768.1
22.5°	4693.9	4312.1	3300.2	1907.7	980.9	773.9	746.3	739.4	738.2	738.2	738.2
25°	4708.8	4262.7	3059.9	1501.8	808.4	731.3	714.1	708.3	707.2	707.2	704.9
27.5°	4762.9	4235.1	2796.5	1155.6	730.2	693.4	679.6	678.4	675.0	673.8	676.1
30°	4850.3	4235.1	2507.9	899.2	683.0	654.3	643.9	641.6	640.5	639.3	640.5
32.5°	5004.3	4267.3	2192.8	747.4	638.2	610.6	603.7	607.1	603.7	603.7	603.7
35°	5282.6	4363.8	1862.8	652.0	591.0	568.0	561.1	565.7	563.4	563.4	562.3
37.5°	5688.5	4543.2	1530.5	594.5	549.6	525.5	516.3	523.2	520.9	520.9	519.8
40°	6183.0	4804.3	1214.3	550.8	509.4	484.1	476.1	479.5	473.8	473.8	476.1
42.5°	6793.6	5135.4	938.3	508.3	469.2	445.0	440.4	437.0	426.6	420.9	422.0
45°	7472.0	5480.4	731.3	466.9	431.2	411.7	404.8	395.6	378.3	366.8	368.0
47.5°	8078.0	5746.0	594.5	426.6	396.7	381.8	371.4	354.2	328.9	315.1	316.2
50°	8396.5	5786.3	506.0	386.4	364.5	349.6	334.6	308.2	278.3	263.3	262.2
52.5°	8478.2	5597.7	440.4	349.6	332.3	315.1	295.5	259.9	226.5	210.4	208.1
55°	8508.1	5310.2	381.8	315.1	297.8	278.3	253.0	212.7	181.7	165.6	164.4
57.5°	8409.2	4881.3	335.8	284.0	263.3	239.2	208.1	170.2	140.3	127.6	127.6
60°	8189.5	4300.6	300.1	250.7	227.7	200.1	167.9	132.2	104.6	94.3	94.3
62.5°	7751.4	3548.6	266.8	216.2	194.3	165.6	135.7	100.0	73.6	67.8	69.0
65°	6924.7	2691.9	233.4	185.1	165.6	136.8	105.8	71.3	49.4	49.4	51.7
67.5°	5647.1	1869.7	198.9	157.5	142.6	111.5	80.5	49.4	34.5	39.1	43.7
70°	3738.3	1048.7	170.2	129.9	121.9	88.5	59.8	33.3	27.6	36.8	44.8
72.5°	1410.9	408.2	142.6	104.6	105.8	67.8	42.5	25.3	25.3	40.2	52.9
75°	393.3	200.1	102.3	77.0	82.8	49.4	31.0	21.8	24.1	46.0	62.1
77.5°	231.1	147.2	66.7	44.8	56.3	34.5	20.7	17.2	20.7	39.1	59.8
80°	186.3	78.2	39.1	23.0	31.0	19.5	13.8	10.3	5.7	14.9	31.0
82.5°	186.3	47.1	18.4	16.1	16.1	10.3	6.9	4.6	1.1	0.0	8.0
85°	125.3	19.5	11.5	10.3	8.0	3.4	2.3	1.1	0.0	0.0	0.0
87.5°	20.7	8.0	4.6	2.3	1.1	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

(END OF REPORT)