

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: P317383

Luminaire Tested: **GAN-SA9D-727-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317383
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60434 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

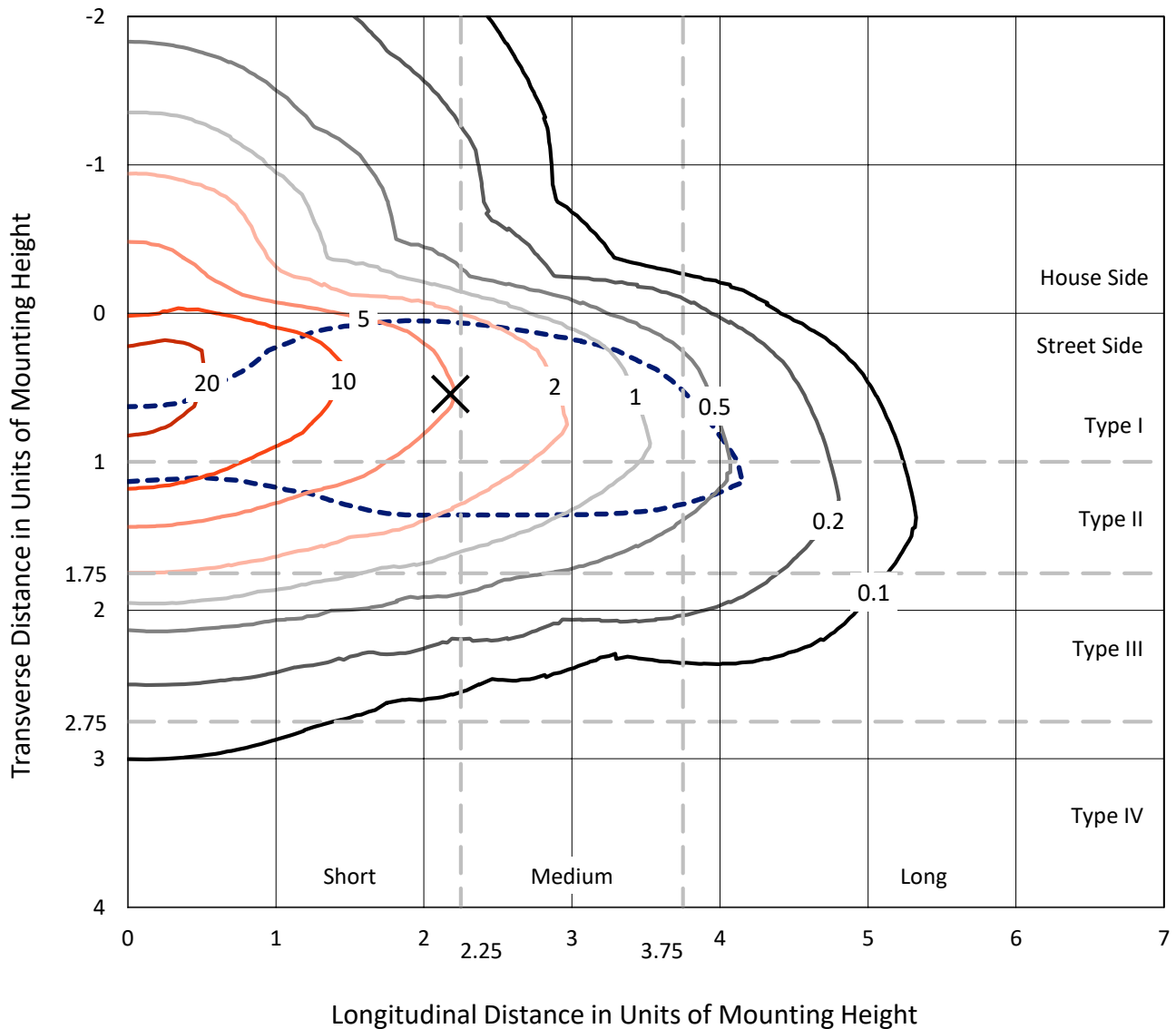
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

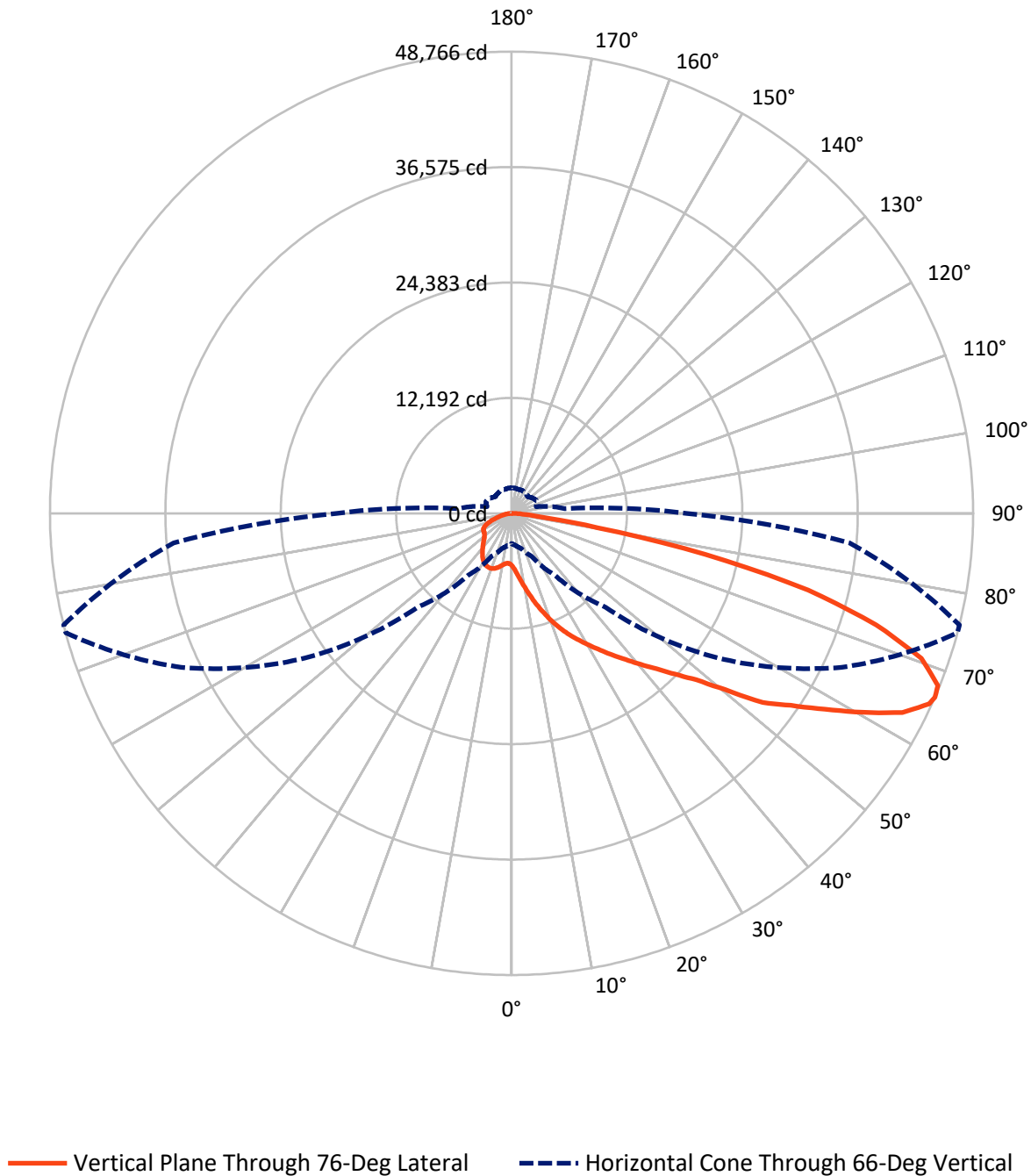
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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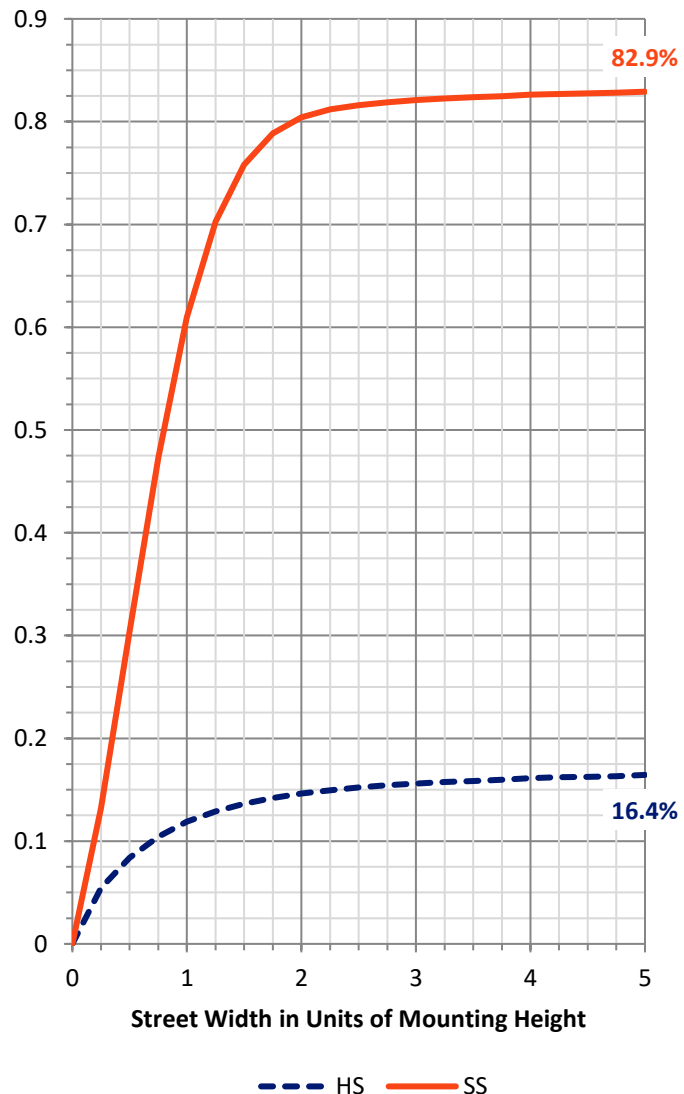
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10169.0	0.0	10169.0
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	50265.0	0.0	50265.0
	% Fixture	83.2	0.0	83.2
Total	Lumens	60434.0	0.0	60434.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	667.4	1.1
10°-20°	2635.5	4.4
20°-30°	5121.4	8.5
30°-40°	8359.3	13.8
40°-50°	11420.8	18.9
50°-60°	13302.9	22.0
60°-70°	11926.3	19.7
70°-80°	6027.1	10.0
80°-90°	973.3	1.6
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°	60434.0	100.0
0°-180°	60434.0	100.0

Coefficient of Utilization



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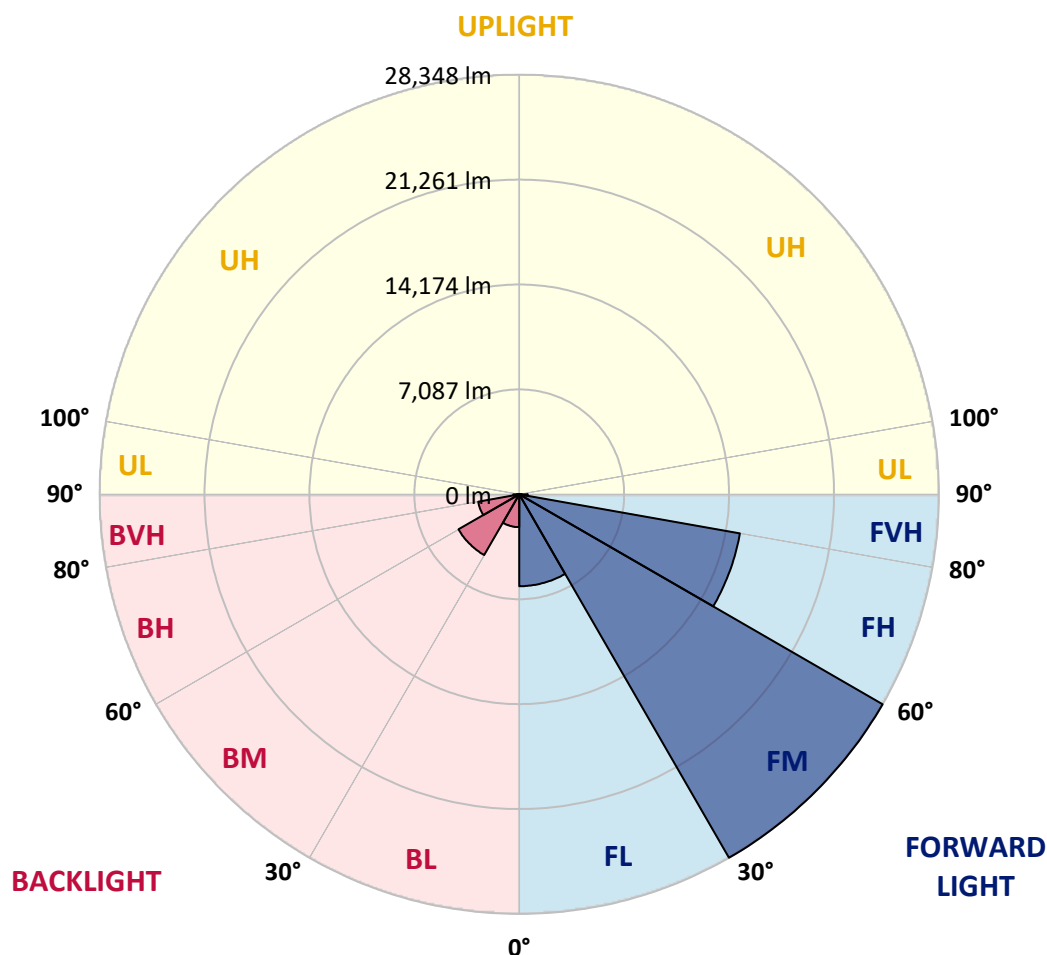
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6206.4	10.3			
FM	(30°-60°)	28347.7	46.9			
FH	(60°-80°)	15136.1	25.0			G5
FVH	(80°-90°)	574.8	1.0			G4/750
BL	(0°-30°)	2217.9	3.7	B3/2500		
BM	(30°-60°)	4735.3	7.8	B3/5000		
BH	(60°-80°)	2817.3	4.7	B4/5000		G4/5000
BVH	(80°-90°)	398.5	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5519.0	5519.0	5519.0	5519.0	5519.0	5519.0	5519.0	5519.0	5519.0	5519.0	5519.0
2.5°	7326.5	7215.7	7205.5	7043.4	7006.4	6696.6	6468.9	6230.9	5960.1	5906.8	5693.4
5°	9411.0	9400.7	9259.2	8994.5	8787.3	8258.0	7734.8	7180.8	6573.5	6475.1	5995.0
7.5°	11286.2	11269.8	11161.1	10875.9	10576.3	9926.0	9179.2	8329.8	7345.0	7199.3	6403.3
10°	12710.1	12703.9	12667.0	12457.7	12203.3	11579.6	10754.8	9595.7	8241.6	8042.5	6914.1
12.5°	13809.8	13822.1	13846.7	13772.8	13651.8	13120.4	12275.1	10937.4	9197.6	9000.7	7482.4
15°	14554.5	14591.5	14718.7	14823.3	14886.9	14560.7	13742.1	12310.0	10268.6	10032.7	8112.3
17.5°	14930.0	14971.0	15190.6	15506.5	15797.8	15765.0	15114.6	13619.0	11296.5	11068.7	8789.3
20°	15254.2	15284.9	15531.1	15910.7	16425.7	16653.4	16288.2	14878.7	12422.9	12152.0	9507.4
22.5°	16193.8	16232.8	16306.7	16522.1	16977.6	17396.1	17219.7	16070.7	13454.8	13202.5	10188.6
25°	18007.5	18054.7	17894.6	17712.1	17798.2	18089.6	18122.4	17158.1	14501.2	14216.0	10921.0
27.5°	20192.5	20260.2	19987.4	19517.5	19107.2	18994.3	18955.4	18048.5	15500.4	15170.0	11645.3
30°	22332.4	22449.4	22094.4	21485.1	20732.1	20202.8	19810.9	18920.5	16485.2	16169.2	12328.5
32.5°	24423.1	24375.9	23860.9	23265.9	22383.7	21721.0	20773.1	19856.0	17593.1	17229.9	13007.6
35°	25855.1	25871.5	25393.5	24687.7	23846.5	23337.7	22061.6	20865.5	18723.5	18389.1	13779.0
37.5°	27073.8	26997.9	26456.3	25797.7	25073.4	24856.0	23569.6	21977.5	19948.4	19583.2	14599.7
40°	27480.0	27391.8	27036.9	26562.9	25982.3	25963.9	25233.5	23237.2	21333.2	20972.2	15525.0
42.5°	27233.8	27121.0	26975.3	26846.1	26667.6	26749.6	26796.8	24714.4	22855.6	22451.4	16595.9
45°	26325.0	26154.7	26257.2	26538.3	26926.1	27389.8	28208.4	26349.6	24560.5	24222.0	17853.6
47.5°	24927.8	24773.9	25094.0	25695.1	26749.6	27923.2	29544.0	28155.0	26595.8	26259.3	19644.7
50°	22962.3	23007.4	23464.9	24558.5	26152.6	28169.4	31189.5	30545.2	29554.3	29240.4	22088.3
52.5°	19737.0	19745.3	21033.7	22828.9	25094.0	28042.2	32102.5	33600.2	33594.0	33214.5	24414.9
55°	16741.6	16924.2	17943.9	20330.0	23378.8	27533.4	32740.5	35085.6	36246.8	35801.6	26583.5
57.5°	13815.9	13922.6	14889.0	17285.3	20931.1	26177.2	33395.0	36868.5	39303.8	39022.7	29279.4
60°	10488.1	10652.3	11651.4	13865.2	17800.3	23770.6	33456.6	38729.3	42957.8	42674.7	32289.2
62.5°	6807.4	7090.6	8026.1	10100.4	14012.9	20309.5	32028.6	39946.0	46421.0	46320.5	34960.4
65°	3912.5	4125.9	4776.3	6376.6	9667.5	15964.0	28633.1	39478.2	48552.7	48495.3	35959.6
66°	3196.5	3329.9	3828.4	4983.5	7976.9	14019.0	26659.4	38491.3	48764.0	48766.1	35844.7
67.5°	2556.4	2615.9	2839.5	3567.9	5886.2	11111.8	23132.6	36314.5	48501.4	48573.2	35104.0
70°	2115.3	2146.0	2215.8	2392.2	3212.9	6700.7	16419.5	30658.1	45865.0	45920.4	32213.2
72.5°	1897.8	1916.3	1942.9	1967.5	2267.1	3744.3	10028.6	24525.6	40212.7	40284.5	27808.3
75°	1719.3	1729.6	1725.5	1727.5	1901.9	2386.1	5182.5	18311.1	32514.8	32371.2	21302.5
77.5°	1510.0	1520.3	1499.8	1503.9	1682.4	1834.2	2578.9	12818.8	21942.6	20929.1	12002.3
80°	1276.1	1284.3	1276.1	1290.5	1464.9	1384.9	1499.8	7211.6	9702.3	9177.1	4267.5
82.5°	964.3	999.2	1023.8	1081.2	1206.4	984.8	1003.3	2808.7	2954.4	2812.8	1309.0
85°	422.6	515.0	771.4	826.8	906.8	590.9	658.6	1144.8	1202.3	1165.3	476.0
87.5°	110.8	121.0	381.6	480.1	502.7	266.7	342.6	521.1	549.8	521.1	158.0
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°	5519.0	5519.0	5519.0	5519.0	5519.0	5519.0	5519.0	5519.0	5519.0	5519.0	5519.0
2.5°	5580.5	5480.0	5299.5	5139.4	5018.4	4936.3	4854.2	4813.2	4788.6	4764.0	4768.1
5°	5759.0	5555.9	5246.1	5026.6	4903.5	4825.5	4784.5	4768.1	4757.8	4733.2	4733.2
7.5°	6027.8	5740.6	5313.8	5088.1	4991.7	4932.2	4907.6	4899.4	4887.1	4858.4	4862.5
10°	6366.3	5964.2	5455.4	5235.9	5147.6	5082.0	5047.1	5034.8	5012.2	4979.4	4983.5
12.5°	6764.3	6241.2	5642.1	5412.3	5305.6	5217.4	5159.9	5125.1	5086.1	5043.0	5045.1
15°	7199.3	6542.8	5843.2	5570.3	5424.6	5301.5	5209.2	5149.7	5088.1	5034.8	5032.7
17.5°	7640.4	6834.1	5997.0	5656.4	5459.5	5297.4	5172.3	5079.9	5004.0	4938.4	4932.2
20°	8116.4	7096.7	6083.2	5648.2	5393.8	5201.0	5034.8	4919.9	4835.8	4770.1	4759.9
22.5°	8600.6	7342.9	6097.6	5564.1	5248.2	5012.2	4837.8	4710.6	4624.5	4556.8	4532.1
25°	9043.8	7533.7	6038.1	5402.0	5045.1	4790.6	4620.4	4491.1	4421.3	4341.3	4316.7
27.5°	9447.9	7667.1	5919.1	5194.8	4817.3	4567.0	4407.0	4296.2	4220.3	4158.7	4138.2
30°	9811.1	7738.9	5724.2	4948.6	4583.4	4355.7	4220.3	4144.4	4078.7	4000.8	3986.4
32.5°	10155.8	7738.9	5473.9	4679.9	4351.6	4169.0	4089.0	4041.8	3967.9	3892.0	3871.5
35°	10500.4	7691.7	5178.4	4398.8	4138.2	4035.6	4031.5	3976.1	3863.3	3760.7	3734.0
37.5°	10863.6	7595.3	4846.0	4136.2	3963.8	3976.1	4011.0	3887.9	3727.9	3582.2	3543.2
40°	11273.9	7461.9	4501.4	3908.4	3818.2	3949.5	3955.6	3760.7	3448.9	3315.5	3280.6
42.5°	11756.1	7328.6	4181.3	3707.4	3703.3	3869.4	3851.0	3485.8	3299.1	3231.4	3212.9
45°	12390.0	7252.6	3877.7	3516.6	3613.0	3740.2	3672.5	3334.0	3256.0	3217.0	3200.6
47.5°	13389.2	7291.6	3598.6	3364.7	3522.7	3610.9	3340.1	3272.4	3217.0	3169.8	3153.4
50°	14640.7	7269.1	3372.9	3260.1	3420.1	3475.5	3190.3	3192.4	3163.7	3110.3	3085.7
52.5°	15582.4	7092.6	3227.3	3200.6	3329.9	3235.5	3096.0	3114.4	3100.1	3022.1	2995.4
55°	16491.3	6940.8	3153.4	3178.0	3264.2	2935.9	2985.2	3030.3	3016.0	2940.0	2927.7
57.5°	17621.8	6912.1	3108.3	3184.2	3208.8	2786.2	2878.5	2938.0	2927.7	2894.9	2888.7
60°	19006.7	6920.3	3067.2	3194.4	3147.3	2675.4	2778.0	2853.9	2860.0	2853.9	2849.8
62.5°	19767.8	6696.6	2964.7	3165.7	3038.5	2578.9	2673.3	2784.1	2786.2	2798.5	2796.4
65°	19121.5	6027.8	2773.9	3065.2	2855.9	2498.9	2583.1	2704.1	2673.3	2728.7	2728.7
66°	18493.7	5642.1	2679.5	2999.5	2778.0	2468.2	2554.3	2663.1	2624.1	2700.0	2700.0
67.5°	17211.4	4991.7	2509.2	2860.0	2667.2	2425.1	2521.5	2595.4	2542.0	2654.9	2646.7
70°	14868.4	3861.2	2166.6	2544.1	2484.6	2361.5	2476.4	2460.0	2382.0	2554.3	2521.5
72.5°	12535.7	2933.9	1739.8	2129.6	2207.6	2281.5	2412.8	2287.6	2189.1	2310.2	2238.4
75°	9727.0	2205.5	1374.6	1655.7	1865.0	2156.3	2336.8	2088.6	1947.0	1934.7	1895.7
77.5°	5258.4	1514.1	1089.4	1263.8	1481.3	2000.4	2285.6	1875.2	1661.9	1612.6	1581.8
80°	2082.4	984.8	791.9	958.1	1036.1	1774.7	2162.5	1627.0	1370.5	1321.3	1274.1
82.5°	859.6	582.7	510.9	642.2	675.0	1518.2	1940.9	1333.6	1058.7	1464.9	1555.2
85°	369.3	320.1	303.6	332.4	381.6	1064.8	1544.9	1017.6	1142.8	1019.7	810.4
87.5°	110.8	135.4	129.3	127.2	139.5	254.4	822.7	566.3	839.1	318.0	238.0
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)