

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: P193002

Luminaire Tested: **GAN-AF-04-LED-U-SL4-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193002
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-04-LED-U-SL4-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24207.5 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 258
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: 28.75 FT

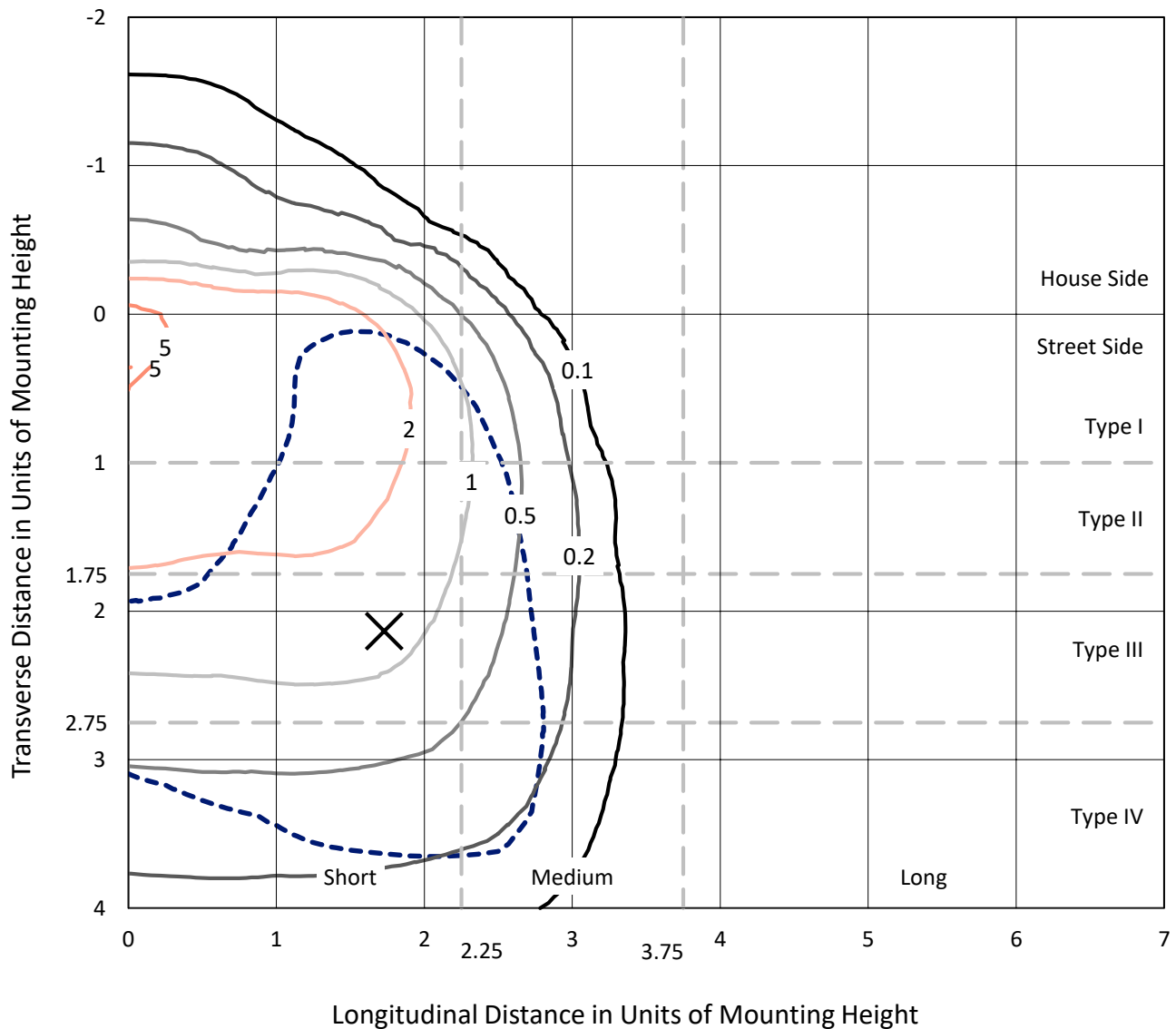


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

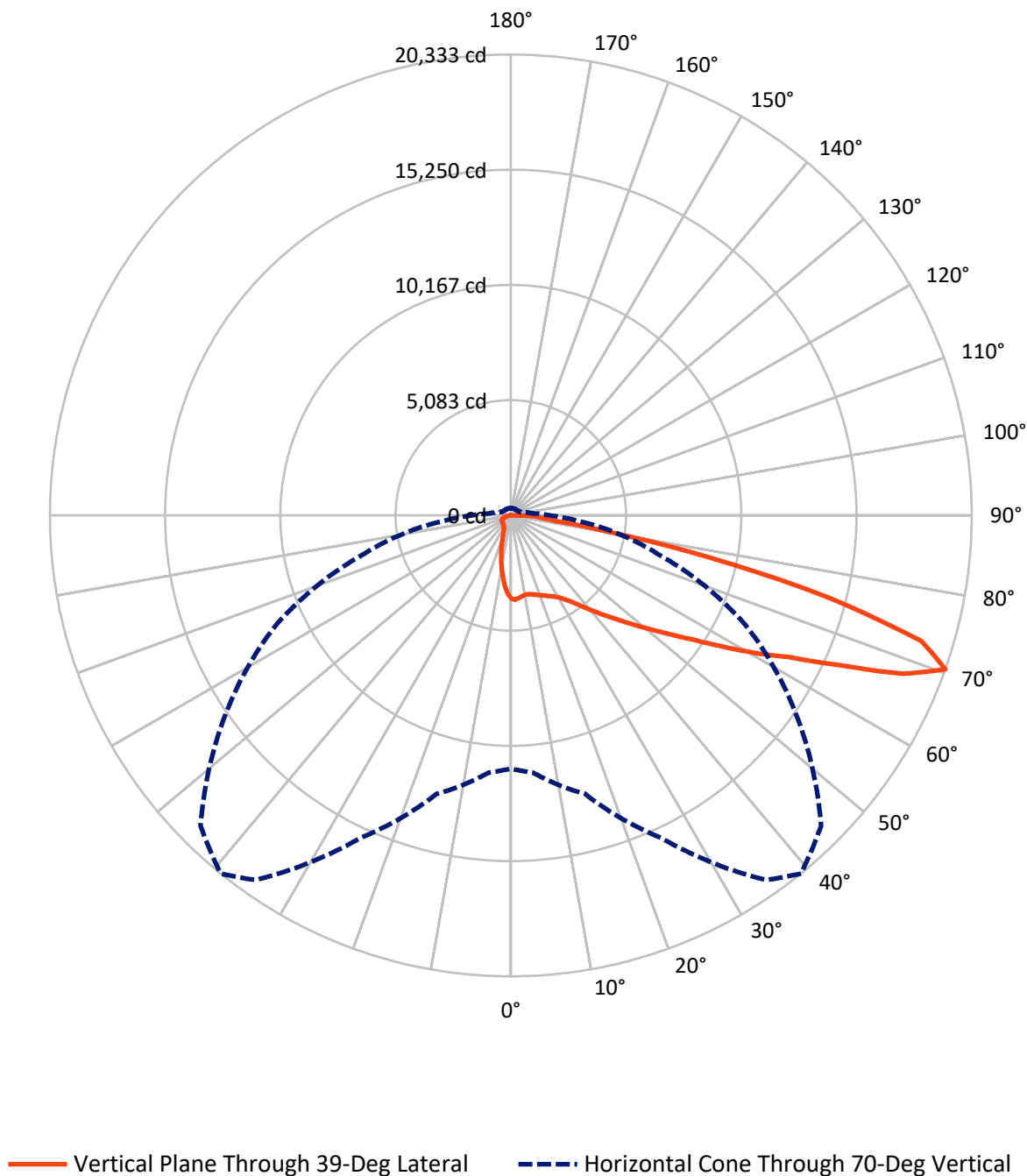


Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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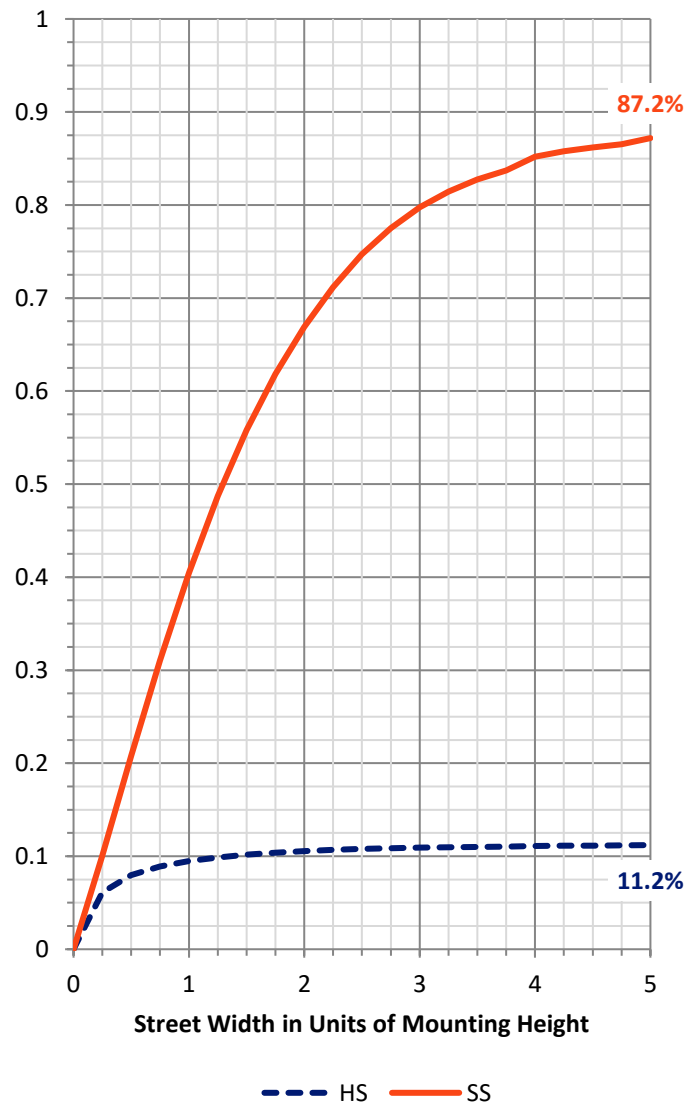
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2753.2	0.0	2753.2
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	21454.3	0.0	21454.3
	% Fixture	88.6	0.0	88.6
Total	Lumens	24207.5	0.0	24207.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.4	1.3
10°-20°	788.4	3.3
20°-30°	1227.5	5.1
30°-40°	1912.2	7.9
40°-50°	3210.3	13.3
50°-60°	5099.8	21.1
60°-70°	6802.6	28.1
70°-80°	4107.9	17.0
80°-90°	743.5	3.1
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°	24207.5	100.0
0°-180°	24207.5	100.0

Coefficient of Utilization



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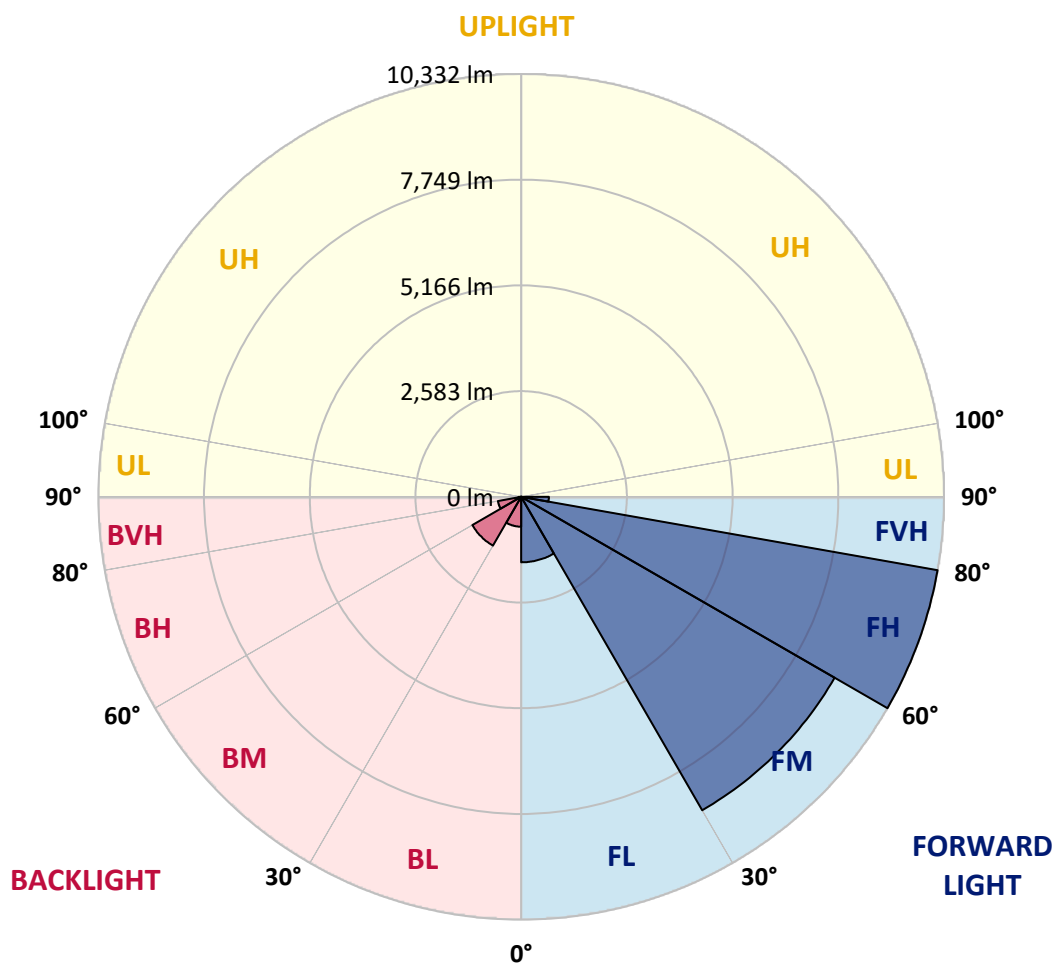
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1600.9	6.6			
FM	(30°-60°)	8844.5	36.5			
FH	(60°-80°)	10332.4	42.7			G4/12000
FVH	(80°-90°)	676.5	2.8			G4/750
BL	(0°-30°)	730.4	3.0	B2/1000		
BM	(30°-60°)	1377.8	5.7	B2/2500		
BH	(60°-80°)	578.0	2.4	B2/1000		G2/1000
BVH	(80°-90°)	67.0	0.3			G1/100
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°	39°	45°	55°	65°	75°	85°
0°	3675.1	3675.1	3675.1	3675.1	3675.1	3675.1	3675.1	3675.1	3675.1	3675.1	3675.1
2.5°	3746.5	3745.2	3735.3	3728.0	3721.8	3719.4	3724.3	3705.8	3689.8	3670.1	3649.3
5°	3718.2	3716.9	3700.9	3686.2	3671.3	3666.4	3665.2	3632.0	3612.3	3582.7	3543.4
7.5°	3687.4	3681.3	3660.3	3635.7	3609.8	3597.6	3585.3	3542.1	3520.0	3490.5	3445.0
10°	3655.4	3647.9	3628.3	3603.7	3579.2	3560.6	3539.7	3497.8	3474.5	3452.3	3399.4
12.5°	3622.2	3616.1	3611.0	3600.0	3582.7	3566.8	3550.8	3515.1	3490.5	3464.6	3403.1
15°	3617.2	3614.8	3625.9	3633.2	3623.4	3613.5	3596.3	3565.5	3539.7	3513.9	3433.8
17.5°	3656.6	3655.4	3683.6	3703.4	3698.4	3681.3	3657.9	3623.4	3602.5	3580.3	3480.6
20°	3742.7	3748.9	3783.4	3809.3	3784.6	3760.0	3721.8	3673.9	3662.8	3652.9	3528.6
22.5°	3905.3	3911.4	3935.9	3945.8	3881.9	3846.2	3793.3	3731.6	3724.3	3731.6	3586.4
25°	4158.7	4152.6	4148.9	4112.0	3995.1	3939.7	3872.0	3808.0	3811.7	3845.0	3667.8
27.5°	4494.7	4461.5	4409.8	4299.1	4113.2	4051.7	3969.2	3910.2	3933.6	3997.6	3789.5
30°	4843.0	4806.1	4686.7	4505.9	4268.3	4200.6	4108.2	4041.8	4103.3	4204.3	3952.0
32.5°	5165.6	5160.7	4985.8	4753.3	4482.5	4423.4	4331.0	4255.9	4355.7	4509.5	4195.7
35°	5517.5	5528.6	5319.4	5040.0	4771.7	4710.1	4643.7	4587.0	4720.0	4931.6	4548.9
37.5°	5894.1	5916.3	5668.9	5353.8	5101.6	5075.6	5036.3	5011.7	5217.2	5510.2	5042.5
40°	6397.5	6375.4	6031.9	5708.2	5506.4	5505.2	5492.9	5522.4	5864.6	6265.8	5676.3
42.5°	6936.7	6871.5	6417.3	6088.6	5950.8	5992.7	6017.2	6137.8	6643.7	7184.1	6449.2
45°	7517.5	7371.0	6817.2	6491.1	6444.3	6532.9	6616.6	6878.8	7560.6	8228.9	7296.0
47.5°	7981.5	7840.0	7230.8	6913.3	7015.3	7149.5	7310.7	7725.5	8587.0	9308.4	8131.7
50°	8347.1	8254.7	7648.0	7405.5	7644.4	7851.1	8114.4	8684.3	9655.4	10359.4	8905.8
52.5°	8701.5	8632.6	8068.9	7910.2	8382.8	8668.3	9026.5	9713.2	10750.8	11393.2	9556.9
55°	9021.5	8972.3	8521.7	8539.0	9251.6	9623.3	10073.8	10885.0	11944.6	12315.0	10108.3
57.5°	9382.1	9319.4	9038.8	9328.0	10367.9	10850.4	11436.2	12201.8	13064.5	13134.7	10528.0
60°	9745.2	9691.1	9612.3	10238.8	11785.8	12292.9	12848.1	13478.1	14200.7	13771.0	10503.4
62.5°	10060.3	10066.5	10205.5	11195.0	13174.2	13761.2	14438.2	15061.0	15228.3	13881.8	9726.8
65°	10594.5	10691.7	11106.4	12548.9	15128.6	15913.8	16744.6	16644.9	15512.6	12846.7	8061.4
67.5°	11229.5	11400.5	12241.2	14353.2	17598.7	18641.2	18962.4	17003.0	14374.1	10443.1	5746.5
70°	11165.5	11400.5	12731.1	15698.5	19634.4	20333.4	19358.8	15388.3	11414.1	6822.1	3052.2
72.5°	9915.1	10251.0	11733.0	15081.8	18993.2	18931.7	16806.1	11472.0	6781.5	2739.6	1192.6
75°	7556.9	7896.6	9171.7	11915.0	15011.6	14494.8	11924.9	6337.2	2573.5	1088.0	752.0
77.5°	4347.1	4610.4	5595.0	7307.0	9523.7	8993.2	6637.5	2818.5	1252.8	758.1	587.0
80°	2427.0	2573.5	3171.7	3707.0	4667.1	4278.1	2969.8	1751.4	935.4	550.1	452.9
82.5°	1918.8	2049.2	2565.0	2338.4	2131.6	1966.7	1705.9	1559.3	747.2	347.1	270.8
85°	1676.2	1800.6	2171.1	1841.2	1456.0	1335.3	1385.9	1534.8	580.9	209.2	231.4
87.5°	1553.2	1719.4	1934.8	1419.1	1133.6	1004.3	1278.8	1682.5	187.1	130.4	93.5
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°	3675.1	3675.1	3675.1	3675.1	3675.1	3675.1	3675.1	3675.1	3675.1	3675.1	3675.1
2.5°	3630.8	3611.0	3579.2	3550.8	3506.4	3483.0	3457.2	3438.7	3423.9	3411.7	3431.4
5°	3518.8	3481.9	3414.2	3341.5	3255.4	3187.6	3131.1	3078.2	3041.2	3016.6	3033.8
7.5°	3412.9	3352.6	3246.7	3115.1	2967.4	2841.9	2738.5	2647.4	2584.6	2544.0	2560.0
10°	3352.6	3277.6	3113.9	2907.1	2689.2	2493.6	2331.0	2190.7	2093.5	2038.1	2046.8
12.5°	3337.9	3240.6	3014.1	2729.9	2432.0	2159.9	1931.0	1736.5	1600.0	1528.6	1531.0
15°	3348.9	3224.6	2920.6	2560.0	2183.3	1840.0	1554.4	1318.1	1159.4	1078.2	1077.0
17.5°	3367.4	3212.3	2822.1	2376.6	1931.0	1532.3	1213.6	982.1	841.9	776.7	771.7
20°	3387.0	3192.5	2711.4	2178.4	1668.9	1246.7	950.1	769.1	680.5	644.9	642.5
22.5°	3415.3	3175.4	2596.9	1969.2	1411.7	1015.3	781.5	659.7	613.0	594.5	591.9
25°	3460.9	3166.8	2475.0	1751.4	1180.3	849.3	680.5	605.6	578.4	566.2	564.9
27.5°	3537.3	3179.1	2360.6	1539.7	992.0	737.3	624.0	578.4	558.8	547.7	546.6
30°	3635.7	3217.2	2240.1	1339.1	845.5	660.9	589.6	560.0	544.0	532.9	532.9
32.5°	3799.4	3281.3	2113.2	1165.6	740.9	608.0	563.7	544.0	530.5	521.8	520.6
35°	4040.6	3401.8	1995.1	1021.6	665.8	569.9	541.5	526.7	516.9	512.0	512.0
37.5°	4391.3	3592.7	1890.5	918.1	620.3	544.0	520.6	509.5	503.3	503.3	503.3
40°	4862.8	3856.0	1805.5	849.3	594.5	525.5	504.7	496.0	492.3	493.6	493.6
42.5°	5444.9	4198.2	1748.9	801.2	582.2	514.5	493.6	486.2	482.5	481.2	482.5
45°	6108.2	4587.0	1742.8	765.6	569.9	507.1	486.2	478.8	471.4	466.4	466.4
47.5°	6753.2	4982.1	1793.3	753.3	556.3	498.4	479.9	472.6	461.5	450.4	450.4
50°	7323.1	5318.2	1860.9	758.1	551.4	486.2	470.2	466.4	449.3	436.9	435.7
52.5°	7776.0	5576.6	1916.3	772.9	556.3	477.6	457.8	459.1	440.7	427.1	425.9
55°	8139.0	5746.5	1901.5	787.6	567.4	472.6	446.8	449.3	434.5	420.9	420.9
57.5°	8297.8	5683.6	1737.9	775.4	576.1	473.8	438.1	448.0	435.7	423.4	423.4
60°	7957.0	5126.1	1431.4	721.2	564.9	470.2	434.5	452.9	451.7	439.3	438.1
62.5°	6925.5	4128.1	1110.2	641.3	526.7	451.7	424.6	451.7	465.2	461.5	460.3
65°	5337.9	2940.2	848.0	555.0	475.1	420.9	398.8	423.4	441.9	446.8	445.6
67.5°	3464.6	1801.8	653.6	473.8	417.3	385.2	365.6	376.6	380.3	380.3	377.8
70°	1703.4	969.9	520.6	398.8	358.2	347.1	336.0	329.9	323.7	318.8	318.8
72.5°	840.6	633.8	428.3	337.3	308.8	304.0	301.5	294.1	289.2	283.1	280.6
75°	621.5	515.7	364.3	284.3	265.8	260.9	265.8	259.7	258.5	253.6	251.1
77.5°	510.8	439.3	313.8	243.6	227.7	219.1	226.5	227.7	228.9	221.6	219.1
80°	414.7	371.7	262.1	201.8	187.1	181.0	185.8	195.7	198.2	187.1	182.1
82.5°	299.1	304.0	211.8	157.6	145.2	140.3	150.1	162.5	164.9	148.9	145.2
85°	251.1	253.6	162.5	112.0	99.7	92.4	108.2	120.6	129.3	113.2	109.6
87.5°	104.6	148.9	93.5	62.8	55.4	48.0	57.8	64.0	77.6	71.3	70.2
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)