

Scaled data based on original data using
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge
or Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: STREETWORKS

Report Number: ITL52706_350MP

Luminaire Tested: **GMX35PXX2SF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: ITL52706_350MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GMX35PXX2SF
Description: 400W MH TYPE II AREA
Light Source: 350 WATT PULSE-START CLEAR ED-28 HORIZONTAL BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 33000 (1 lamp)
Luminaire Lumens: 22063 lumens
Efficiency: 66.9%
Efficacy: 55.6 lumens/watt
Luminous Opening: Rectangular (W 1.03' x L: 1.01' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B4 - U0 - G4

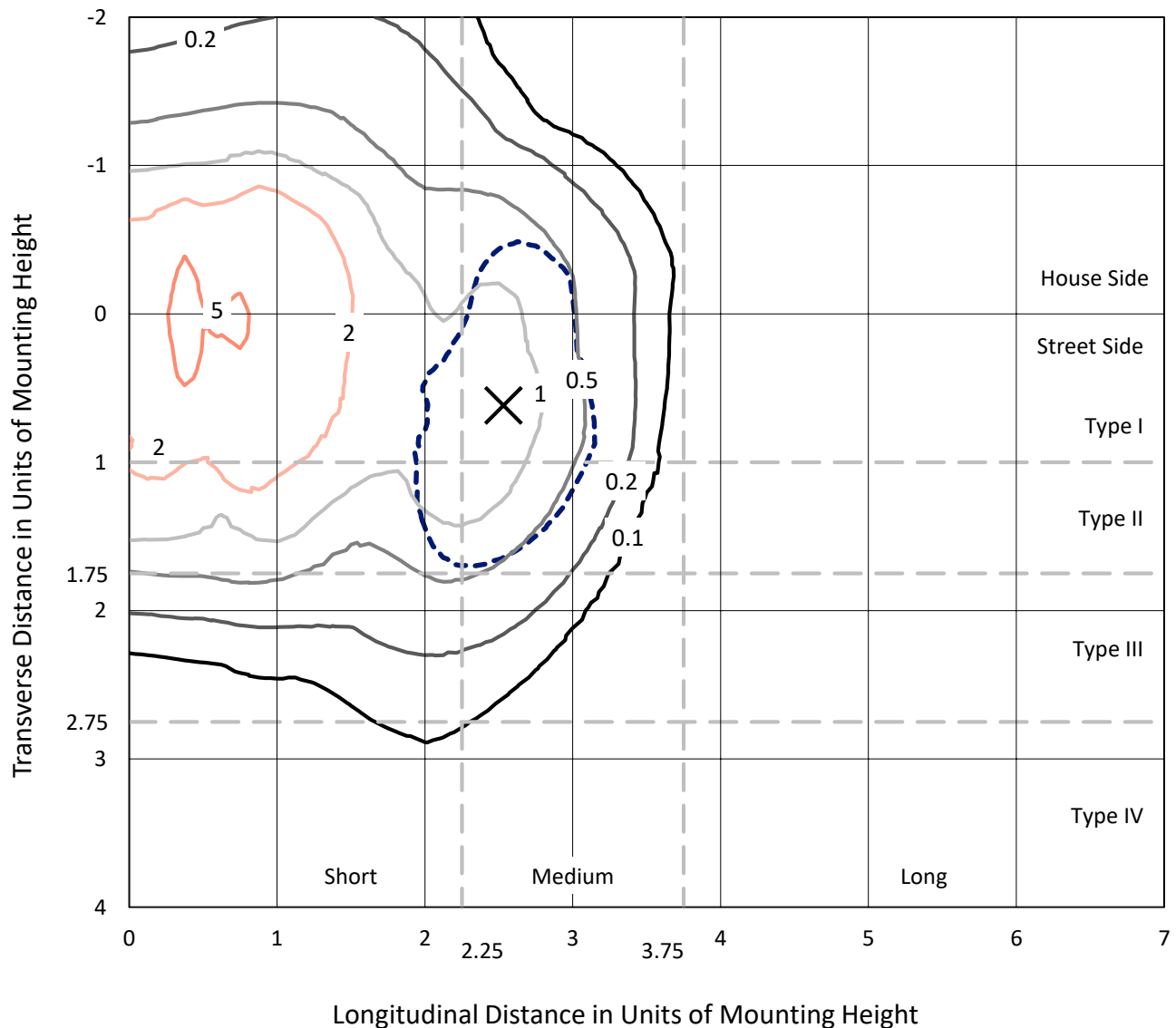
Input Watts (W): 397
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

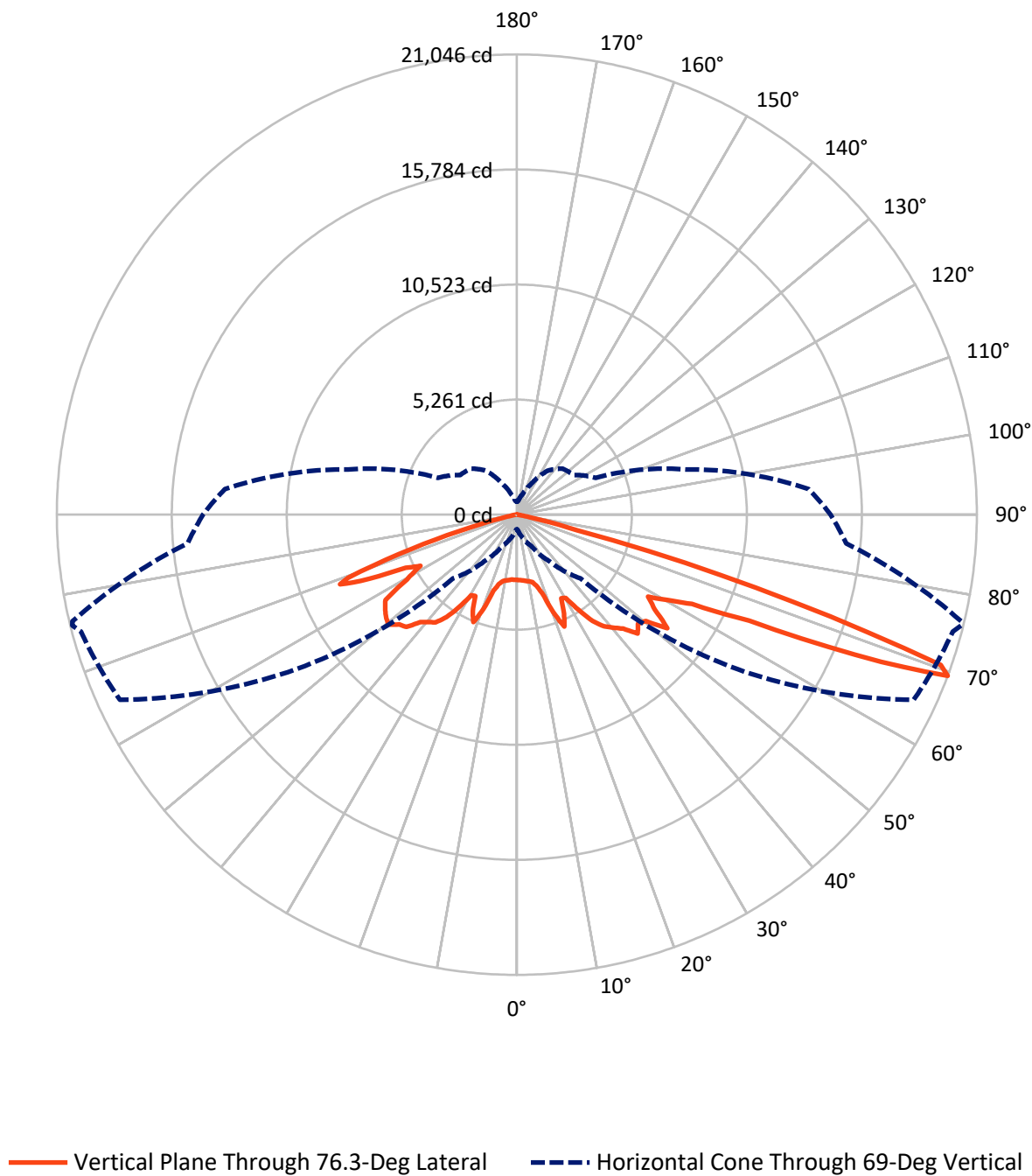
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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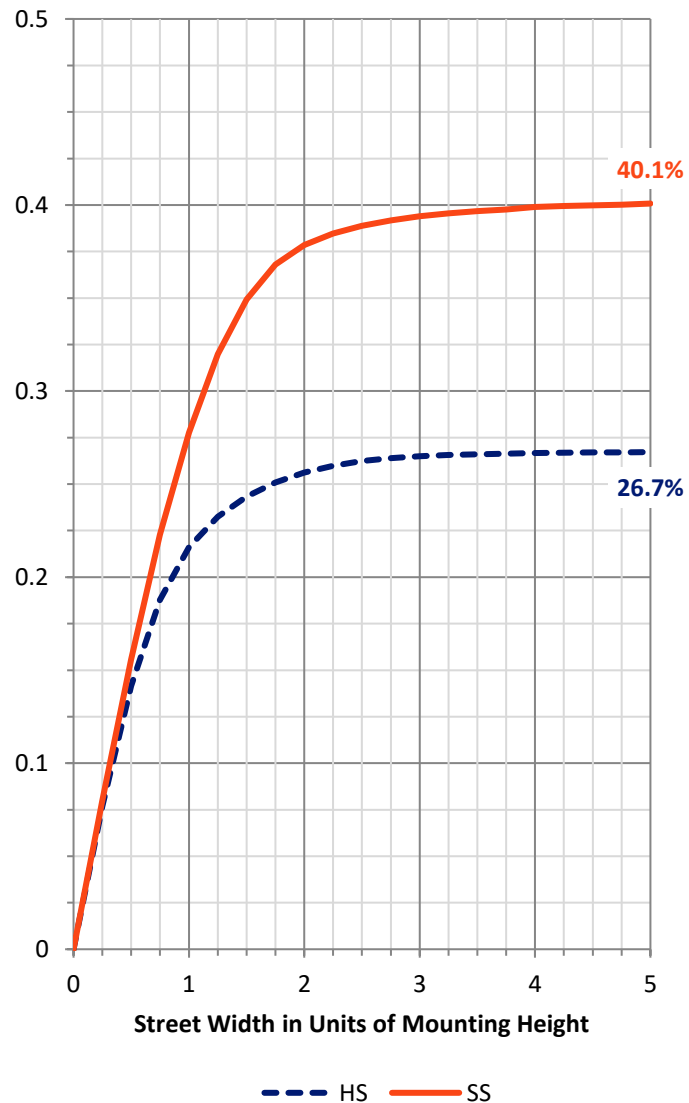
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8847.7	0.0	8847.7
	% Lamp	26.8	0.0	26.8
Street Side	Lumens	13215.3	0.0	13215.3
	% Lamp	40.0	0.0	40.0
Total	Lumens	22063.0	0.0	22063.0
	% Lamp	66.9	0.0	66.9

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	282.3	1.3	0.9
10°-20°	878.1	4.0	2.7
20°-30°	1788.9	8.1	5.4
30°-40°	2686.7	12.2	8.1
40°-50°	3955.4	17.9	12.0
50°-60°	4832.7	21.9	14.6
60°-70°	5044.1	22.9	15.3
70°-80°	2506.8	11.4	7.6
80°-90°	88.0	0.4	0.3
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	22063.0	100.0	66.9
0°-180°	22063.0	100.0	66.9

Coefficient of Utilization



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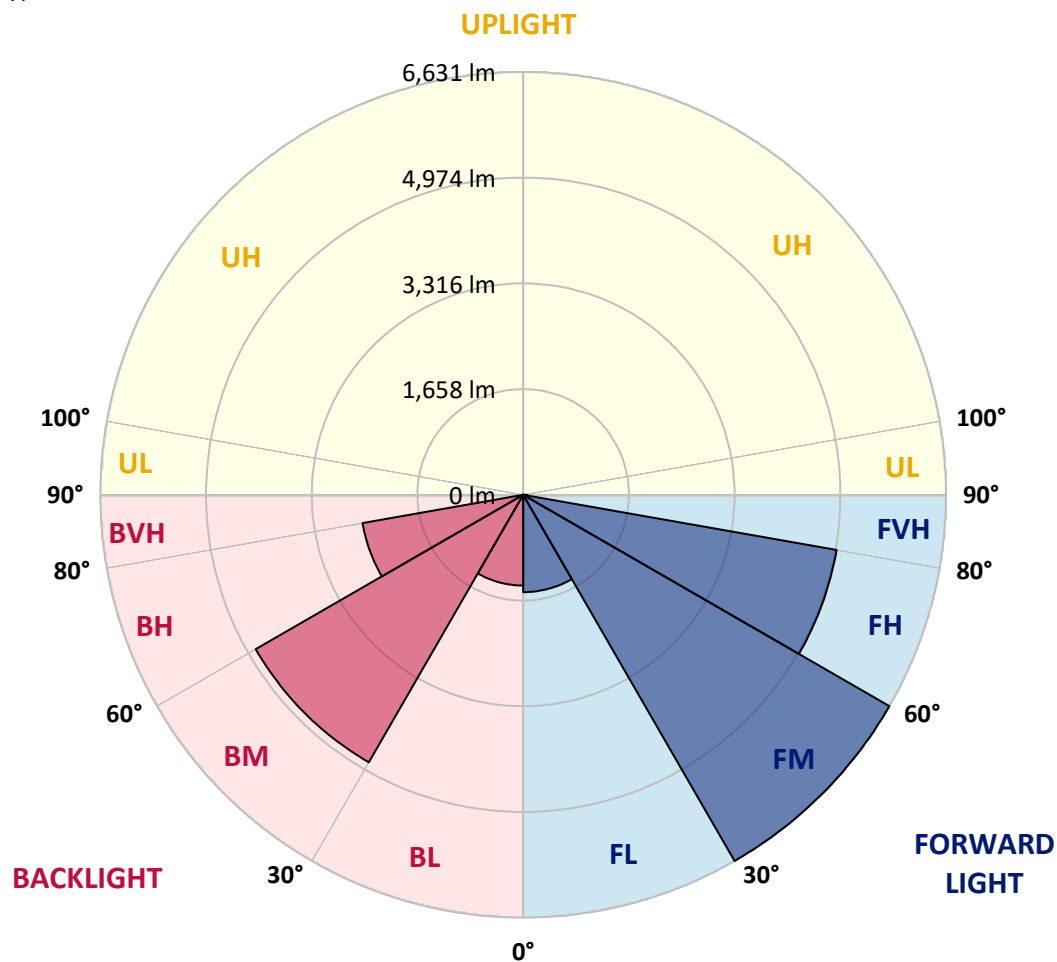
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1526.5	4.6			
FM	(30°-60°)	6631.4	20.1			
FH	(60°-80°)	4991.8	15.1			G2/5000
FVH	(80°-90°)	65.6	0.2			G1/100
BL	(0°-30°)	1422.8	4.3	B3/2500		
BM	(30°-60°)	4843.4	14.7	B3/5000		
BH	(60°-80°)	2559.0	7.8	B4/5000		G4/5000
BVH	(80°-90°)	22.4	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		10937.0	33.1			

BUG Rating: B4-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76.3°	85°
0°	2985.6	2985.6	2985.6	2985.6	2985.6	2985.6	2985.6	2985.6	2985.6	2985.6	2985.6
2.5°	3005.8	3013.1	3042.4	2998.4	2998.4	3013.1	3005.8	3005.8	2998.4	2998.4	3005.8
5°	2975.5	2991.1	2982.8	2975.5	2982.8	3020.4	3027.8	3042.4	3035.1	3020.4	3013.1
7.5°	2975.5	3005.8	2968.2	2975.5	3005.8	3027.8	3042.4	3057.1	3071.8	3064.4	3071.8
10°	2975.5	2975.5	2975.5	2991.1	3020.4	3042.4	3064.4	3087.3	3116.7	3102.0	3116.7
12.5°	2902.2	2902.2	2924.2	2960.8	2998.4	3035.1	3094.7	3124.0	3175.3	3168.0	3175.3
15°	2798.6	2813.2	2909.5	2998.4	2998.4	3071.8	3160.7	3227.6	3345.8	3383.4	3412.8
17.5°	2753.7	2783.0	2871.9	2924.2	3013.1	3131.3	3249.6	3464.1	3686.8	3775.8	3812.4
20°	2724.3	2790.3	2871.9	2916.8	3057.1	3220.2	3583.2	4041.6	4567.8	4760.2	4796.9
22.5°	2679.4	2724.3	2835.2	2924.2	3131.3	3663.9	4493.5	5159.9	5529.3	5559.6	5544.9
25°	2709.7	2679.4	2783.0	2953.5	3398.1	4508.2	5381.8	5433.1	5203.9	5011.4	4982.1
27.5°	2664.8	2702.3	2768.3	2968.2	3982.9	5374.4	5448.7	4811.6	4448.6	4330.3	4345.0
30°	2650.1	2717.0	2768.3	3064.4	4582.4	5552.2	4856.5	4345.0	4382.6	4419.2	4530.2
32.5°	2650.1	2672.1	2783.0	3301.8	4989.4	5152.6	4426.6	4648.4	5063.7	5203.9	5367.1
35°	2561.2	2583.2	2842.6	3819.8	5240.6	4537.5	4789.6	5352.4	5863.0	5973.9	6240.7
37.5°	2531.8	2575.8	2946.2	4315.7	5049.0	4382.6	5314.8	6077.5	6395.6	6484.5	6588.1
40°	2635.4	2946.2	3634.6	4352.3	4560.4	4760.2	5796.1	6558.8	6765.9	6795.2	6743.9
42.5°	3109.3	3671.2	4367.9	4204.8	4426.6	5278.2	6173.8	6840.2	7047.3	7121.6	7136.2
45°	3730.8	4130.5	4019.6	3827.1	4219.4	5714.5	6840.2	7543.2	7721.1	7750.4	7483.7
47.5°	3938.0	4182.8	3856.4	4041.6	4323.0	6699.0	8972.3	8624.0	7632.2	7461.7	6758.6
50°	3849.1	4337.7	4715.3	3597.9	6003.2	8342.6	9956.8	9009.0	7587.2	7646.8	7499.2
52.5°	4101.2	4212.1	5381.8	3560.3	7743.1	8498.4	10045.8	8942.1	8549.8	8624.0	8246.3
55°	4279.0	4123.2	4582.4	3516.3	7225.2	7350.8	9490.2	8564.4	7898.9	7654.2	7239.8
57.5°	3538.3	3708.8	3797.8	3442.1	6529.4	6995.1	7210.5	7735.8	7032.7	7084.0	7136.2
60°	2502.5	2761.0	3345.8	4130.5	6262.7	6602.8	6787.9	7854.0	7802.7	7913.6	7461.7
62.5°	1643.6	1709.6	2294.4	3997.6	5796.1	5478.0	6462.5	8120.8	8253.7	8994.3	7639.5
65°	1155.0	1191.7	1495.1	2517.2	3597.9	4256.1	6566.1	9623.2	10518.8	11695.8	9090.6
67.5°	814.0	888.2	1155.0	1836.1	2686.8	3975.6	10186.0	17240.7	17218.7	17980.4	13310.0
69°	666.4	755.3	1124.8	1591.3	2606.1	4130.5	12325.5	20031.0	20646.1	21045.8	15123.2
70°	592.2	673.8	1140.3	1421.8	2798.6	4486.2	12584.0	19098.8	20372.0	20571.8	14812.4
72.5°	385.0	473.9	1013.8	910.2	3360.5	4818.9	7817.3	10681.9	12036.8	11437.2	8483.8
75°	281.4	332.8	858.9	570.2	2968.2	2991.1	2991.1	3035.1	3175.3	2835.2	2731.7
77.5°	177.8	221.8	681.1	407.0	1821.4	1939.7	1406.2	933.2	821.3	673.8	777.3
80°	88.9	103.6	421.7	243.8	1095.4	1213.7	836.9	288.8	252.1	199.8	288.8
82.5°	29.3	36.7	148.5	132.9	348.3	340.1	296.1	125.6	118.2	88.9	118.2
85°	0.0	7.3	7.3	29.3	36.7	44.0	44.0	59.6	44.0	22.0	52.2
87.5°	0.0	0.0	0.0	0.0	0.0	7.3	7.3	7.3	14.7	0.0	7.3
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°	2985.6	2985.6	2985.6	2985.6	2985.6	2985.6	2985.6	2985.6	2985.6	2985.6	2985.6
2.5°	2998.4	3005.8	2982.8	2968.2	2953.5	2931.5	2916.8	2902.2	2902.2	2916.8	2916.8
5°	2998.4	2991.1	2968.2	2931.5	2916.8	2879.2	2857.2	2820.6	2805.9	2820.6	2842.6
7.5°	3057.1	3049.8	3013.1	2960.8	2916.8	2857.2	2835.2	2775.7	2753.7	2790.3	2842.6
10°	3102.0	3094.7	3042.4	2998.4	2924.2	2842.6	2768.3	2753.7	2702.3	2761.0	2694.1
12.5°	3182.7	3175.3	3102.0	3013.1	2902.2	2813.2	2753.7	2702.3	2635.4	2613.4	2620.8
15°	3390.8	3375.2	3264.2	3109.3	2991.1	2871.9	2746.3	2664.8	2628.1	2561.2	2575.8
17.5°	3834.4	3783.1	3605.2	3338.5	3146.0	2924.2	2753.7	2628.1	2590.5	2517.2	2502.5
20°	4774.9	4811.6	4544.8	4130.5	3619.9	3109.3	2775.7	2590.5	2524.5	2457.6	2472.2
22.5°	5470.7	5396.4	5285.5	4967.4	4426.6	3627.2	2909.5	2583.2	2457.6	2406.2	2398.0
25°	4885.8	4818.9	4863.8	5033.4	4893.2	4308.3	3249.6	2575.8	2383.3	2310.0	2310.0
27.5°	4279.0	4219.4	4168.1	4411.9	4693.3	4648.4	3812.4	2664.8	2346.7	2228.4	2235.8
30°	4486.2	4411.9	4204.8	4086.5	4137.8	4508.2	4190.1	2820.6	2294.4	2176.2	2176.2
32.5°	5374.4	5270.8	4929.8	4397.2	3863.8	4123.2	4145.2	2938.8	2213.8	2057.9	2057.9
35°	6114.2	5981.2	5632.9	5122.3	4212.1	3701.5	3879.3	3057.1	2146.8	1976.3	1969.0
37.5°	6522.1	6425.8	6129.8	5433.1	4752.0	3686.8	3516.3	3057.1	2079.9	1880.1	1880.1
40°	6721.9	6633.0	6322.2	5833.7	5056.3	3967.3	3138.7	2916.8	2021.2	1805.8	1805.8
42.5°	7128.9	6995.1	6551.4	6195.8	5181.9	4071.8	2864.6	2628.1	1939.7	1717.8	1717.8
45°	7432.3	7403.0	7172.9	6898.8	5441.3	4086.5	2731.7	2332.0	1858.1	1621.6	1613.3
47.5°	6729.2	6802.6	7447.0	7417.7	6262.7	4397.2	2642.8	2087.2	1769.2	1525.3	1495.1
50°	7572.6	7403.0	7779.8	7365.4	6513.8	4856.5	2606.1	2043.2	1709.6	1451.1	1421.8
52.5°	8075.8	7787.1	7565.2	7721.1	6099.5	4871.2	2650.1	1991.0	1621.6	1362.2	1332.8
55°	7247.2	7225.2	7425.0	7150.9	5336.8	3841.8	2613.4	1939.7	1532.7	1265.9	1243.9
57.5°	7550.6	7690.8	7091.3	6329.6	4359.7	3256.9	2502.5	1917.7	1458.4	1191.7	1155.0
60°	7447.0	7328.8	5610.9	5433.1	4056.2	3242.2	2494.2	1887.4	1376.8	1110.1	1066.1
62.5°	6951.1	6795.2	4715.3	4264.3	3605.2	3190.9	2457.6	1887.4	1280.6	991.8	947.8
65°	7876.0	7069.3	5425.8	3894.0	3383.4	3198.2	2583.2	1769.2	1155.0	851.6	814.0
67.5°	12080.8	11348.3	7232.5	4123.2	3405.4	3494.3	2502.5	1643.6	1036.8	695.8	666.4
69°	14353.2	13406.2	7987.8	3982.9	3160.7	2975.5	2450.2	1540.0	947.8	621.5	592.2
70°	14146.0	13265.1	7491.0	3345.8	2864.6	2783.0	2354.0	1443.8	880.9	562.8	532.6
72.5°	8150.1	8246.3	4560.4	1732.5	1532.7	2398.0	1554.7	1140.3	688.4	421.7	399.7
75°	2679.4	3198.2	2065.2	828.7	725.1	828.7	592.2	503.2	407.0	288.8	281.4
77.5°	770.0	1013.8	688.4	421.7	392.3	310.8	192.5	170.5	155.8	132.9	163.2
80°	274.1	310.8	252.1	207.2	192.5	125.6	81.6	66.9	59.6	52.2	44.0
82.5°	118.2	125.6	110.9	110.9	88.9	52.2	36.7	29.3	29.3	29.3	29.3
85°	44.0	44.0	36.7	36.7	36.7	14.7	14.7	0.0	0.0	7.3	14.7
87.5°	7.3	7.3	7.3	0.0	0.0	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)