

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: ITL52665_350MP

Luminaire Tested: **GMX35PXX3SF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: ITL52665_350MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GMX35PXX3SF
Description: 400W MH TYPE III AREA
Light Source: 350 WATT PULSE-START CLEAR ED-28 HORIZONTAL BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 33000 (1 lamp)
Luminaire Lumens: 22993.9 lumens
Efficiency: 69.7%
Efficacy: 57.9 lumens/watt
Luminous Opening: Rectangular (W 1.03' x L: 1.01' x H: 0')
IES Classification: Type III - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

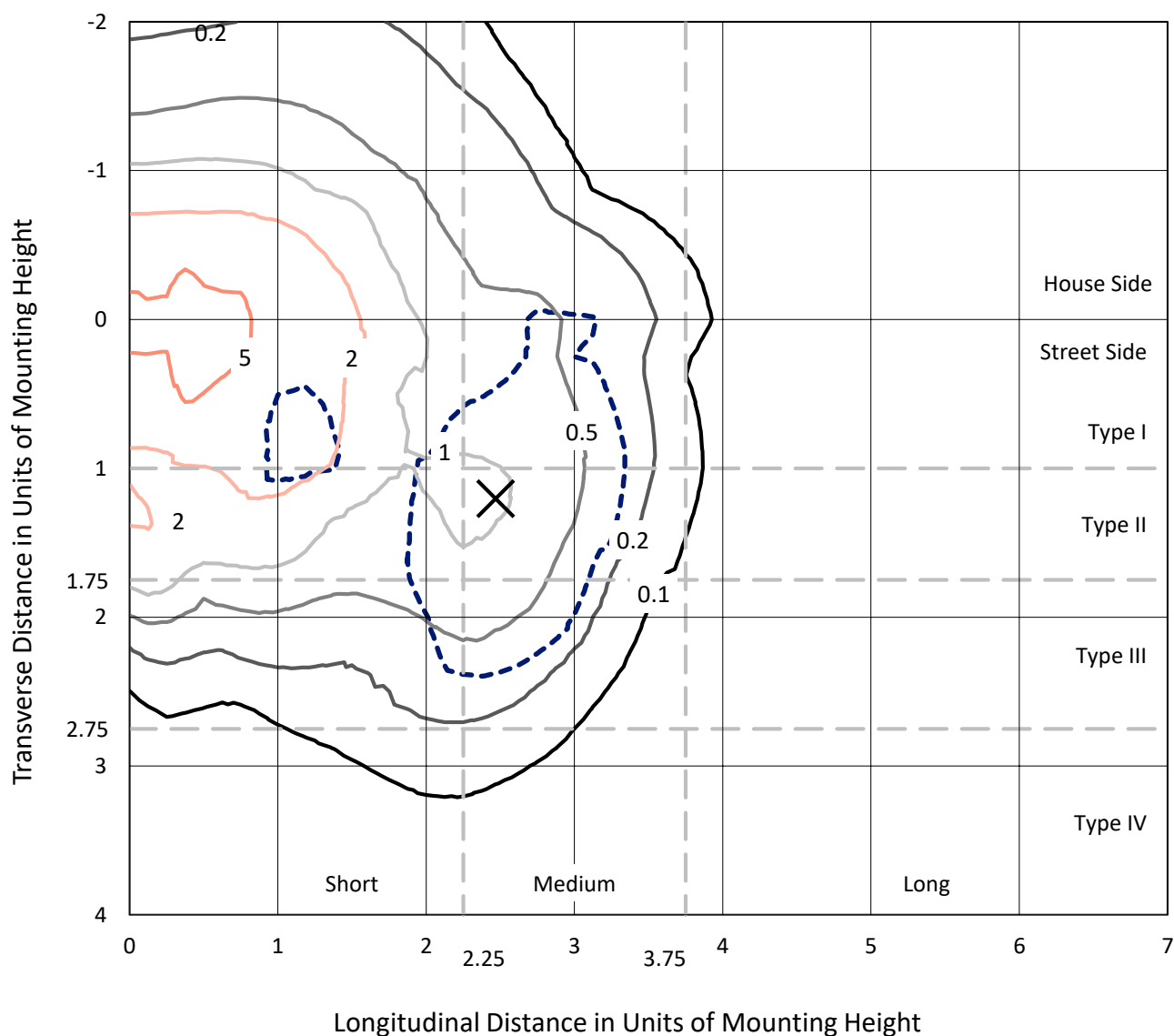
Input Watts (W): 397
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

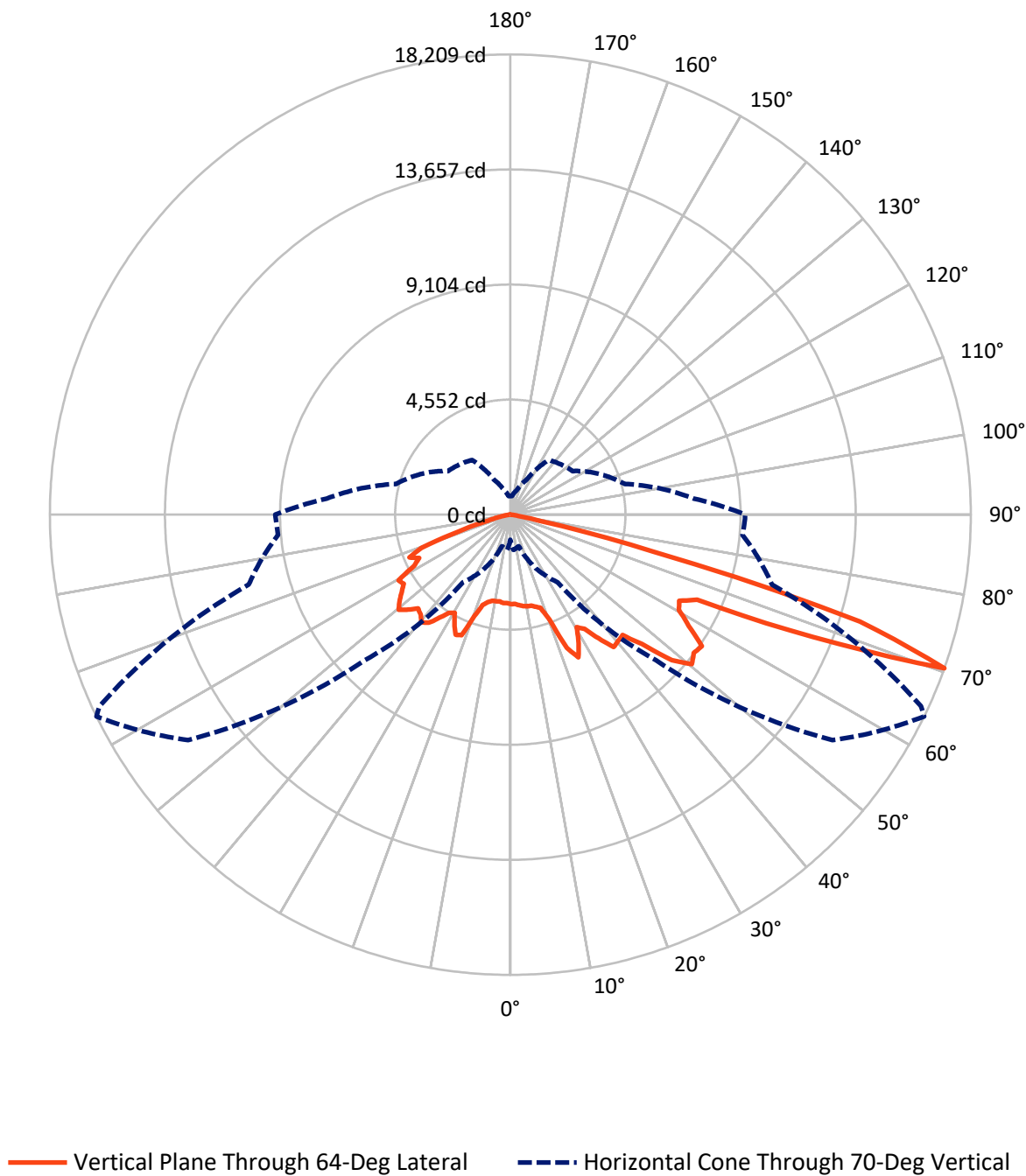
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type III - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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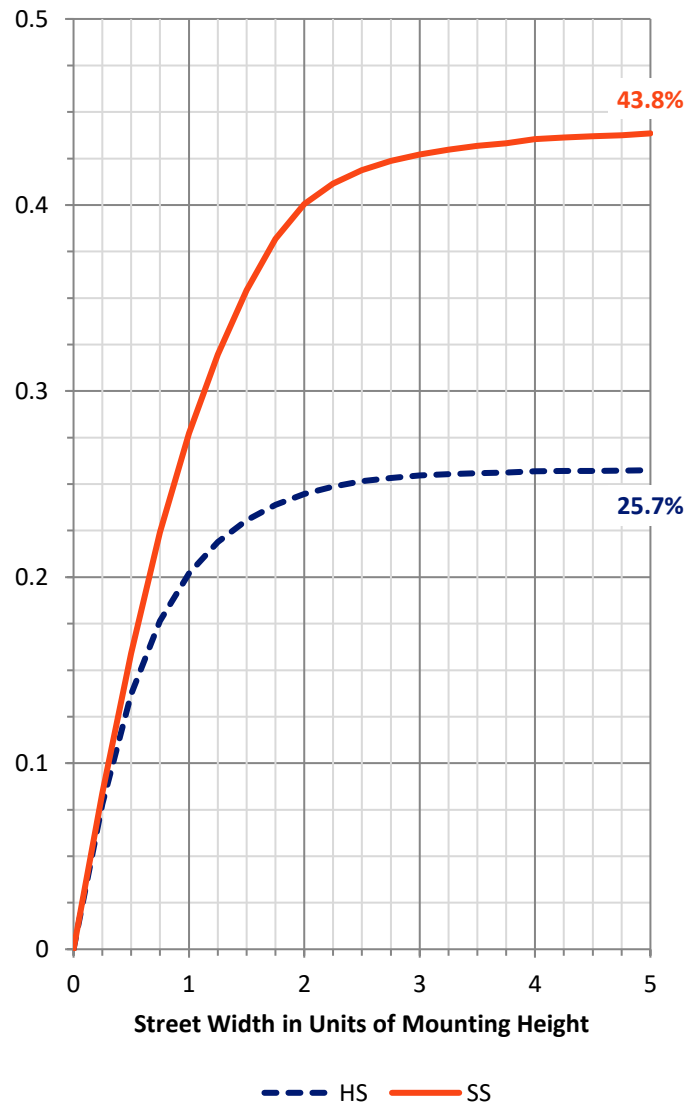
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8529.1	0.0	8529.1
	% Lamp	25.8	0.0	25.8
Street Side	Lumens	14464.8	0.0	14464.8
	% Lamp	43.8	0.0	43.8
Total	Lumens	22993.9	0.0	22993.9
	% Lamp	69.7	0.0	69.7

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	334.8	1.5	1.0
10°-20°	1011.9	4.4	3.1
20°-30°	1984.6	8.6	6.0
30°-40°	2861.3	12.4	8.7
40°-50°	3861.3	16.8	11.7
50°-60°	4990.5	21.7	15.1
60°-70°	4715.4	20.5	14.3
70°-80°	3114.0	13.5	9.4
80°-90°	120.2	0.5	0.4
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°	22993.9	100.0	69.7
0°-180°	22993.9	100.0	69.7

Coefficient of Utilization



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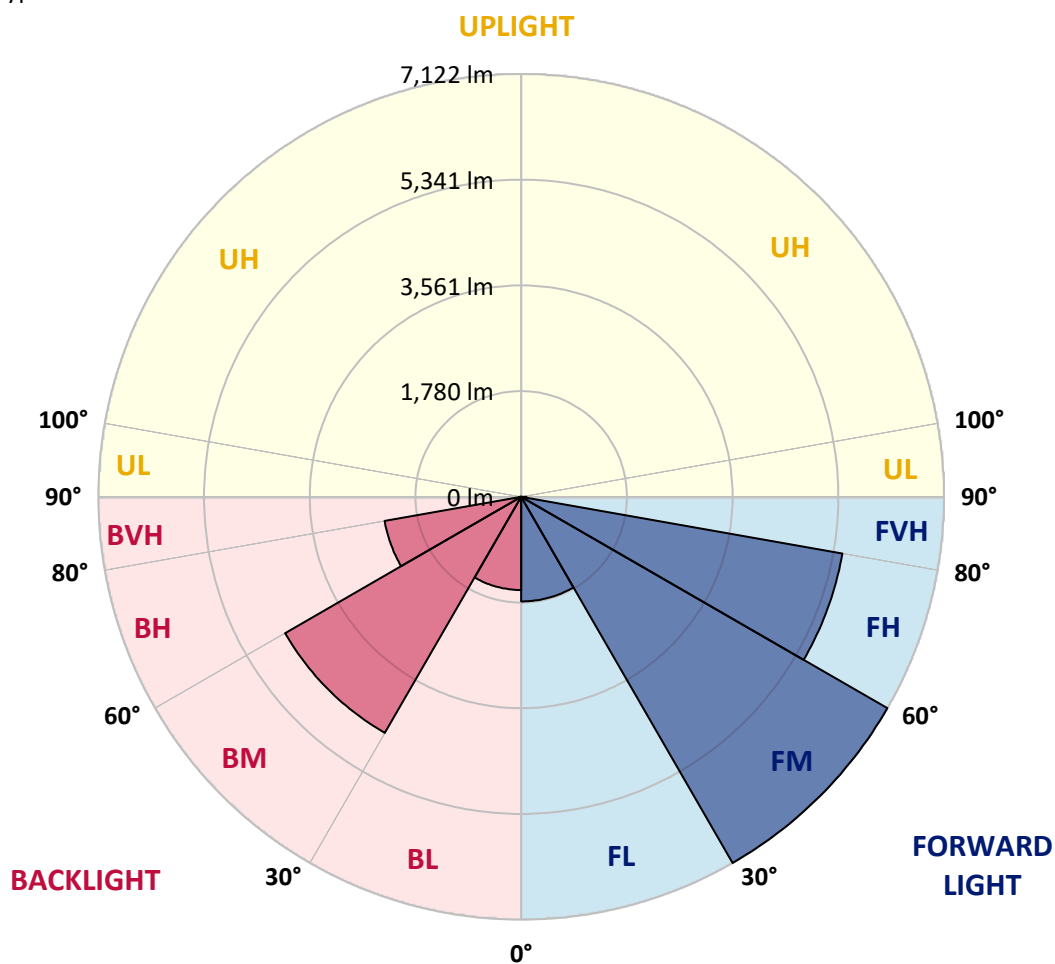
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1761.7	5.3			
FM	(30°-60°)	7121.6	21.6			
FH	(60°-80°)	5494.0	16.6			G3/7500
FVH	(80°-90°)	87.5	0.3			G1/100
BL	(0°-30°)	1569.6	4.8	B3/2500		
BM	(30°-60°)	4591.5	13.9	B3/5000		
BH	(60°-80°)	2335.4	7.1	B3/2500		G3/2500
BVH	(80°-90°)	32.6	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		10006.1	30.3			

BUG Rating: B3-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3539.2	3539.2	3539.2	3539.2	3539.2	3539.2	3539.2	3539.2	3539.2	3539.2	3539.2
2.5°	3604.3	3595.2	3604.3	3585.1	3566.8	3566.8	3566.8	3538.3	3557.6	3557.6	3538.3
5°	3585.1	3595.2	3595.2	3557.6	3557.6	3595.2	3613.5	3595.2	3622.7	3613.5	3575.9
7.5°	3510.8	3575.9	3510.8	3510.8	3547.5	3613.5	3622.7	3651.1	3651.1	3651.1	3604.3
10°	3491.6	3463.2	3473.2	3491.6	3510.8	3557.6	3632.8	3688.7	3717.1	3726.2	3697.8
12.5°	3378.8	3378.8	3398.1	3435.7	3454.0	3510.8	3622.7	3697.8	3717.1	3754.7	3754.7
15°	3322.9	3332.1	3398.1	3444.8	3444.8	3529.2	3651.1	3782.2	3782.2	3951.8	3932.5
17.5°	3360.5	3360.5	3416.4	3407.2	3463.2	3566.8	3697.8	3876.6	3914.2	4102.1	4186.4
20°	3398.1	3444.8	3454.0	3435.7	3500.8	3622.7	3885.8	4430.2	4392.7	4993.1	5302.9
22.5°	3378.8	3407.2	3463.2	3454.0	3566.8	3885.8	4693.3	5725.5	5697.1	6223.2	6260.8
25°	3190.9	3276.2	3369.7	3463.2	3763.8	4720.8	5875.8	6250.8	6260.8	6185.7	5866.7
27.5°	3115.8	3172.6	3256.9	3454.0	4317.5	5885.0	6288.3	5763.1	5838.2	5462.4	5265.3
30°	3059.8	3135.0	3201.0	3425.6	4908.8	6420.3	5931.8	5162.7	5209.4	5293.8	5275.4
32.5°	3079.1	3106.6	3190.9	3538.3	5490.8	6438.7	5322.2	5387.2	5359.8	5941.8	6270.0
35°	2984.7	3031.4	3153.3	3848.2	5951.0	5763.1	5490.8	6016.1	6006.9	6560.6	6814.5
37.5°	2816.0	2918.7	3125.8	4279.9	6194.8	5162.7	6044.5	6644.9	6655.0	6908.0	6945.6
40°	2834.3	2881.1	3041.5	4702.5	5763.1	5359.8	6617.4	6570.7	6635.8	6589.0	6644.9
42.5°	2909.5	2862.8	2993.8	4768.5	5077.4	5866.7	6757.7	6513.8	6504.7	6644.9	6852.1
45°	3003.9	2984.7	3003.9	4383.5	4871.2	6701.8	6927.2	7302.2	7161.9	7640.4	7762.3
47.5°	3923.3	3604.3	3398.1	3951.8	5059.1	7593.7	8212.4	8597.4	8447.1	8278.4	8260.1
50°	5030.7	4543.0	3848.2	3717.1	5322.2	7602.8	9480.2	9301.4	9095.2	7950.2	8109.8
52.5°	5951.0	5687.9	4308.3	3697.8	6232.4	8654.2	10709.4	9086.0	8916.4	8569.9	8513.1
55°	6363.5	6814.5	4843.7	4552.2	7040.0	10193.3	11150.3	9188.7	9254.7	7631.2	7246.2
57.5°	6288.3	6908.0	5077.4	4683.2	6429.5	8184.9	9799.2	8325.2	8100.6	6682.5	8484.7
60°	6063.8	7114.2	4674.1	5632.0	7086.8	7040.0	8907.2	7658.8	7452.5	6373.6	8550.7
62.5°	4148.8	5603.6	3360.5	5904.2	6983.2	6101.3	7255.4	7499.2	7330.6	5546.8	7368.2
65°	1820.5	2721.6	2167.9	4458.7	5659.5	6354.3	7067.5	8118.9	7612.0	7696.3	7273.8
67.5°	1295.2	1736.2	1661.0	3079.1	3894.9	7161.9	9639.7	12905.8	11836.0	9423.3	6730.2
70°	994.6	1398.8	1295.2	2299.9	3266.1	8138.2	15553.1	18208.7	17918.1	10709.4	9217.1
72.5°	788.3	1276.9	1286.1	2243.1	4421.1	10569.2	15806.1	14454.9	14829.8	11873.6	8559.8
75°	582.1	1164.2	1060.6	1924.1	4552.2	6336.0	7133.5	5819.0	6767.8	6316.8	3697.8
77.5°	394.2	901.1	825.9	1361.2	2947.1	2731.7	1671.1	1164.2	1585.8	1323.7	1004.7
80°	243.8	422.6	450.1	648.1	1529.9	1314.5	657.2	309.8	385.0	319.0	328.2
82.5°	131.1	159.5	178.8	300.7	741.6	328.2	309.8	141.2	178.8	150.3	168.7
85°	0.0	0.0	9.2	28.4	46.8	46.8	46.8	28.4	46.8	46.8	46.8
87.5°	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3539.2	3539.2	3539.2	3539.2	3539.2	3539.2	3539.2	3539.2	3539.2	3539.2	3539.2
2.5°	3538.3	3529.2	3520.0	3500.8	3491.6	3482.4	3510.8	3463.2	3454.0	3463.2	3473.2
5°	3566.8	3557.6	3529.2	3510.8	3482.4	3454.0	3425.6	3388.0	3378.8	3378.8	3398.1
7.5°	3585.1	3538.3	3500.8	3463.2	3416.4	3378.8	3350.4	3332.1	3312.8	3360.5	3491.6
10°	3670.3	3632.8	3575.9	3482.4	3378.8	3312.8	3294.5	3276.2	3247.8	3266.1	3228.5
12.5°	3745.5	3707.9	3622.7	3491.6	3388.0	3285.3	3238.6	3238.6	3219.3	3163.4	3153.3
15°	3905.0	3876.6	3726.2	3595.2	3416.4	3312.8	3228.5	3144.2	3115.8	3097.4	3097.4
17.5°	4195.6	4158.0	4016.8	3763.8	3538.3	3332.1	3228.5	3079.1	3031.4	2984.7	3003.9
20°	5368.9	5275.4	4937.2	4308.3	3782.2	3378.8	3135.0	3013.1	2928.8	2881.1	2909.5
22.5°	6213.2	6091.2	5734.7	5227.8	4383.5	3575.9	3135.0	2956.2	2834.3	2796.8	2796.8
25°	5763.1	5687.9	5528.4	5265.3	4824.4	3998.5	3181.8	2881.1	2750.0	2684.0	2684.0
27.5°	5152.6	5003.2	4871.2	4880.3	4702.5	4233.2	3312.8	2825.2	2646.4	2562.1	2572.2
30°	5200.2	5068.2	4815.2	4486.2	4299.2	4167.2	3341.2	2759.2	2562.1	2468.6	2477.8
32.5°	6091.2	5885.0	5340.5	4636.5	4092.0	3942.6	3210.2	2712.4	2486.9	2384.2	2384.2
35°	6720.1	6542.2	5941.8	5030.7	4204.8	3575.9	3031.4	2665.7	2421.8	2289.8	2309.1
37.5°	6908.0	6748.5	6336.0	5472.5	4317.5	3538.3	2984.7	2618.9	2355.8	2214.7	2214.7
40°	6608.2	6457.9	6204.0	5621.9	4609.0	3557.6	2947.1	2562.1	2280.7	2130.3	2140.4
42.5°	6720.1	6485.4	5941.8	5378.1	4580.6	3575.9	2871.9	2486.9	2187.2	2036.8	2046.0
45°	7649.6	7368.2	6382.8	5284.6	4496.2	3670.3	2825.2	2421.8	2102.8	1924.1	1933.2
47.5°	8222.5	7987.8	7311.3	5632.0	4392.7	3641.9	2778.4	2375.1	2027.7	1820.5	1820.5
50°	8015.3	7762.3	7227.0	5941.8	4552.2	3547.5	2721.6	2327.4	1961.7	1736.2	1708.7
52.5°	8400.3	8043.8	6626.6	5678.8	4496.2	3416.4	2703.2	2299.9	1868.2	1633.5	1614.2
55°	7348.9	7227.0	6504.7	5415.7	3923.3	3332.1	2694.1	2280.7	1793.0	1539.1	1501.5
57.5°	8250.0	7658.8	6739.3	5171.8	3726.2	3201.0	2694.1	2271.5	1708.7	1436.4	1408.0
60°	7527.7	7208.7	5331.3	5293.8	3641.9	3219.3	2721.6	2167.9	1614.2	1361.2	1314.5
62.5°	6410.2	5387.2	4448.6	4392.7	3473.2	3125.8	2646.4	2017.6	1492.3	1229.2	1182.5
65°	6570.7	5237.8	4439.4	4064.5	3322.9	3115.8	2900.3	1886.5	1361.2	1079.8	1051.4
67.5°	6673.3	5406.5	4505.4	4439.4	3332.1	3219.3	2731.7	1746.2	1201.8	910.2	901.1
70°	9292.2	7283.8	4683.2	3829.8	3003.9	2816.0	2637.2	1520.8	1013.8	741.6	732.4
72.5°	8869.7	7302.2	2590.5	2149.6	1990.1	2289.8	1961.7	1164.2	770.0	582.1	582.1
75°	5200.2	4345.9	1576.7	1004.7	863.5	1032.2	797.5	516.1	422.6	394.2	413.4
77.5°	1474.0	1651.8	770.0	619.7	431.8	440.9	309.8	206.2	187.9	197.1	243.8
80°	591.2	506.9	309.8	290.6	243.8	206.2	168.7	103.6	93.5	84.3	93.5
82.5°	168.7	187.9	150.3	178.8	121.9	84.3	75.2	46.8	46.8	46.8	55.9
85°	46.8	55.9	46.8	37.6	46.8	18.3	9.2	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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)