

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: ITL53968_250MP

Luminaire Tested: **GMX25PXX3SF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: ITL53968_250MP
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GMX25PXX3SF
Description: 250W MH TYPE III AREA
Light Source: 250 WATT PULSE-START CLEAR ED-28 HORIZONTAL BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 22000 (1 lamp)
Luminaire Lumens: 15636.9 lumens
Efficiency: 71.1%
Efficacy: 55.3 lumens/watt
Luminous Opening: Circular (Dia: 1.74' x H: 0')
IES Classification: Type III - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

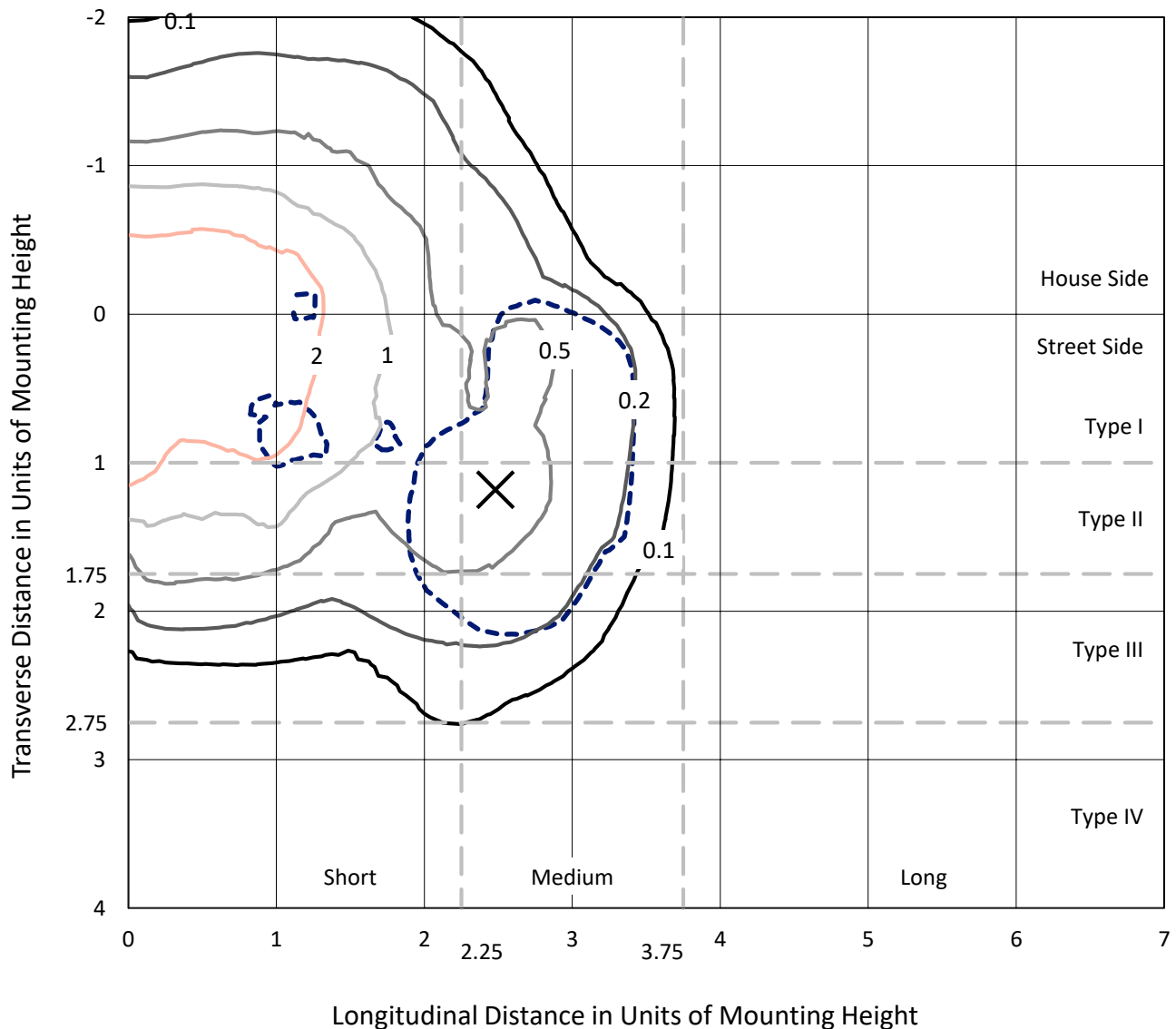
Input Watts (W): 283
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

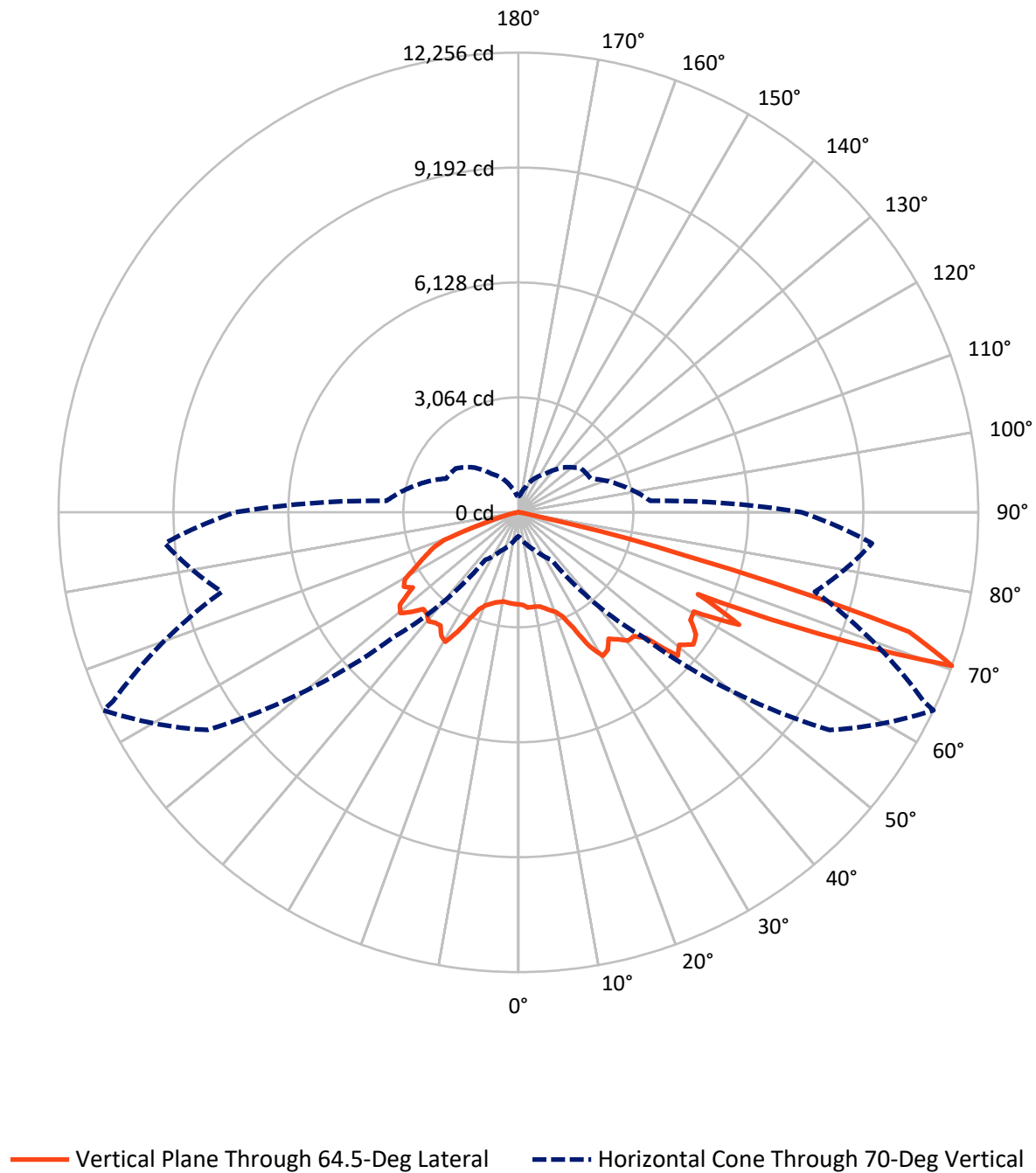
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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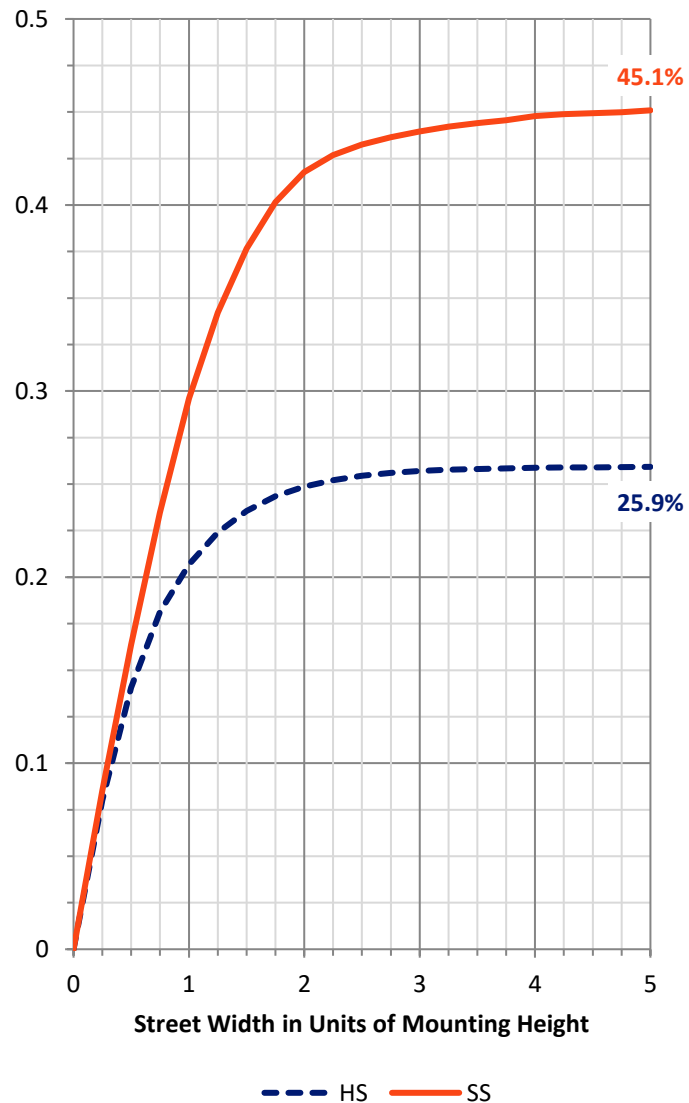
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5728.8	0.0	5728.8
	% Lamp	26.0	0.0	26.0
Street Side	Lumens	9908.1	0.0	9908.1
	% Lamp	45.0	0.0	45.0
Total	Lumens	15636.9	0.0	15636.9
	% Lamp	71.1	0.0	71.1

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	233.8	1.5	1.1
10°-20°	700.9	4.5	3.2
20°-30°	1327.1	8.5	6.0
30°-40°	2098.5	13.4	9.5
40°-50°	2816.1	18.0	12.8
50°-60°	3350.0	21.4	15.2
60°-70°	3100.9	19.8	14.1
70°-80°	1943.1	12.4	8.8
80°-90°	66.4	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°	15636.9	100.0	71.1
0°-180°	15636.9	100.0	71.1

Coefficient of Utilization



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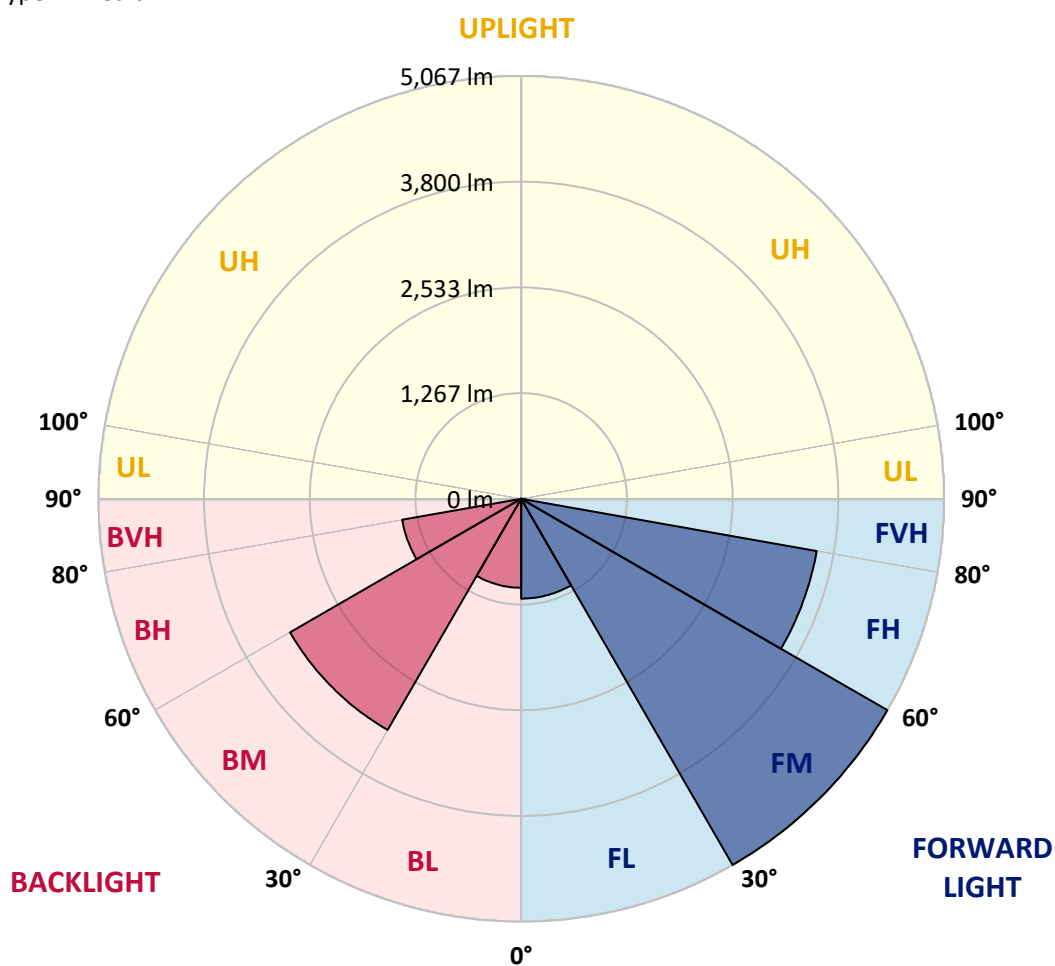
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1196.1	5.4			
FM	(30°-60°)	5066.8	23.0			
FH	(60°-80°)	3595.8	16.3			G2/5000
FVH	(80°-90°)	49.3	0.2			G1/100
BL	(0°-30°)	1065.8	4.8	B3/2500		
BM	(30°-60°)	3197.8	14.5	B3/5000		
BH	(60°-80°)	1448.2	6.6	B3/2500		G3/2500
BVH	(80°-90°)	17.1	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		6363.1	28.9			

BUG Rating: B3-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64.5°	65°	75°	85°
0°	2453.3	2453.3	2453.3	2453.3	2453.3	2453.3	2453.3	2453.3	2453.3	2453.3	2453.3
2.5°	2461.9	2461.9	2486.5	2461.9	2461.9	2461.9	2474.7	2474.7	2486.5	2474.7	2461.9
5°	2486.5	2500.5	2500.5	2486.5	2486.5	2500.5	2526.2	2550.9	2538.0	2538.0	2538.0
7.5°	2512.3	2512.3	2486.5	2500.5	2500.5	2526.2	2538.0	2550.9	2550.9	2550.9	2538.0
10°	2461.9	2461.9	2461.9	2461.9	2486.5	2500.5	2526.2	2550.9	2550.9	2589.6	2576.7
12.5°	2436.1	2423.2	2423.2	2447.9	2474.7	2486.5	2526.2	2576.7	2576.7	2628.2	2628.2
15°	2436.1	2410.3	2436.1	2447.9	2486.5	2526.2	2589.6	2654.0	2654.0	2691.5	2679.7
17.5°	2436.1	2436.1	2461.9	2461.9	2500.5	2589.6	2654.0	2744.1	2730.1	2794.5	2782.7
20°	2461.9	2447.9	2461.9	2474.7	2564.9	2654.0	2718.3	2833.2	2808.5	3012.4	3026.3
22.5°	2461.9	2461.9	2474.7	2512.3	2666.8	2755.9	2833.2	3012.4	2987.7	3281.8	3384.8
25°	2410.3	2436.1	2474.7	2564.9	2768.8	2858.9	3012.4	3410.5	3359.0	3781.9	3961.1
27.5°	2410.3	2436.1	2461.9	2589.6	2858.9	2987.7	3371.9	4038.3	3961.1	4372.1	4422.5
30°	2615.3	2576.7	2550.9	2641.1	2897.6	3231.3	3949.3	4436.5	4461.2	4525.6	4397.9
32.5°	3051.0	2987.7	2755.9	2846.0	3038.1	3628.4	4448.3	4372.1	4436.5	4230.4	4167.1
35°	3667.0	3576.9	2987.7	3076.8	3217.4	4167.1	4577.1	4140.3	4167.1	4230.4	4397.9
37.5°	4358.1	4230.4	3166.9	3270.0	3410.5	4564.2	4358.1	4294.8	4257.3	4499.8	4640.4
40°	4898.0	4601.8	3294.6	3384.8	3807.6	4590.0	4499.8	4499.8	4461.2	4538.4	4461.2
42.5°	4999.9	4704.8	3397.7	3191.6	4204.7	4512.7	5230.6	4512.7	4512.7	4372.1	4294.8
45°	5051.4	4577.1	3384.8	2768.8	4192.9	4845.4	6269.5	4769.2	4718.7	4475.1	4269.1
47.5°	4743.4	4333.5	3307.5	2602.4	4075.9	5782.2	6256.6	5717.9	5550.4	5063.2	5166.2
50°	4230.4	3820.5	3115.4	2512.3	3961.1	5589.1	6140.7	5550.4	5577.3	5614.8	6411.1
52.5°	3513.6	3307.5	2973.8	3231.3	4590.0	6319.9	6346.7	5846.6	5820.9	5717.9	5217.8
55°	2794.5	3281.8	3191.6	3986.8	4564.2	6025.9	6397.2	5743.6	5897.1	5038.5	4743.4
57.5°	2230.0	3525.4	3346.1	3166.9	4794.9	5423.8	6076.3	5409.9	5409.9	4859.3	5577.3
60°	1845.9	3166.9	3141.2	3487.8	5435.6	4640.4	5885.3	5371.2	5333.7	5038.5	5641.7
62.5°	1358.6	2474.7	2730.1	3513.6	4346.3	3499.6	4615.7	6602.1	6411.1	4743.4	4654.3
65°	1051.7	1538.9	1859.8	2153.9	2628.2	3063.9	4627.5	5256.4	5550.4	4538.4	4448.3
67.5°	846.7	884.3	1154.7	1487.4	1768.6	4243.3	6692.3	8627.2	7922.1	5306.8	5385.2
70°	640.7	693.3	897.2	1140.8	1551.8	4704.8	10115.7	12255.6	11922.9	8179.7	9461.1
72.5°	513.0	743.7	1026.0	1037.8	1974.6	4410.7	9499.7	10884.1	11038.6	9474.0	8448.0
75°	358.4	730.8	1000.2	936.9	3153.0	3320.4	4845.4	4577.1	5525.8	4178.9	3051.0
77.5°	231.8	500.1	819.9	538.7	2244.0	1910.2	1166.5	640.7	833.9	654.6	640.7
80°	77.3	114.8	422.8	269.4	1102.1	961.6	448.6	140.6	167.4	167.4	231.8
82.5°	25.8	50.4	103.0	77.3	346.6	179.2	231.8	50.4	77.3	77.3	77.3
85°	0.0	0.0	0.0	0.0	12.9	12.9	12.9	12.9	38.6	38.6	38.6
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°	2453.3	2453.3	2453.3	2453.3	2453.3	2453.3	2453.3	2453.3	2453.3	2453.3	2453.3
2.5°	2447.9	2447.9	2447.9	2447.9	2423.2	2410.3	2410.3	2410.3	2397.5	2410.3	2410.3
5°	2512.3	2500.5	2474.7	2436.1	2423.2	2397.5	2384.6	2358.8	2346.0	2358.8	2384.6
7.5°	2526.2	2500.5	2474.7	2423.2	2371.7	2358.8	2333.1	2307.3	2307.3	2321.3	2358.8
10°	2550.9	2550.9	2474.7	2410.3	2358.8	2333.1	2294.4	2268.7	2268.7	2282.6	2282.6
12.5°	2615.3	2602.4	2526.2	2447.9	2371.7	2307.3	2256.9	2218.2	2244.0	2218.2	2256.9
15°	2654.0	2654.0	2564.9	2486.5	2423.2	2321.3	2244.0	2204.3	2179.6	2166.7	2179.6
17.5°	2755.9	2744.1	2641.1	2564.9	2447.9	2346.0	2230.0	2179.6	2128.1	2115.2	2153.9
20°	2973.8	2936.2	2782.7	2641.1	2486.5	2346.0	2218.2	2128.1	2050.8	2013.3	2050.8
22.5°	3346.1	3294.6	3076.8	2794.5	2564.9	2384.6	2192.5	2063.7	1986.4	1936.0	1974.6
25°	3922.4	3896.7	3589.8	3115.4	2691.5	2397.5	2179.6	2025.1	1910.2	1859.8	1897.4
27.5°	4397.9	4383.9	4178.9	3602.6	2923.3	2436.1	2153.9	1974.6	1845.9	1807.2	1821.2
30°	4346.3	4358.1	4333.5	3999.7	3231.3	2526.2	2141.0	1948.9	1795.4	1731.0	1768.6
32.5°	4128.5	4115.6	4025.5	3896.7	3435.2	2654.0	2153.9	1897.4	1731.0	1679.5	1692.4
35°	4346.3	4319.5	4051.2	3678.8	3384.8	2730.1	2141.0	1845.9	1679.5	1602.2	1616.2
37.5°	4601.8	4577.1	4269.1	3705.7	3256.0	2705.5	2115.2	1807.2	1616.2	1538.9	1538.9
40°	4461.2	4448.3	4257.3	3794.7	3205.6	2576.7	2050.8	1742.8	1513.2	1460.6	1460.6
42.5°	4307.7	4307.7	4115.6	3667.0	3141.2	2447.9	2000.4	1679.5	1435.9	1358.6	1358.6
45°	4486.9	4601.8	4075.9	3641.3	3102.5	2371.7	1961.8	1640.9	1371.5	1256.7	1281.4
47.5°	5768.3	5768.3	4704.8	3922.4	3205.6	2333.1	1910.2	1602.2	1308.2	1179.4	1179.4
50°	6512.0	6564.6	5448.5	4178.9	3294.6	2384.6	1871.6	1551.8	1243.8	1090.3	1102.1
52.5°	5512.9	5717.9	4781.0	4064.1	2923.3	2346.0	1845.9	1525.0	1192.3	987.3	1000.2
55°	5192.0	5115.8	4794.9	3499.6	2576.7	2384.6	1807.2	1487.4	1116.1	922.9	922.9
57.5°	5768.3	5525.8	4704.8	3692.8	2602.4	2564.9	1756.8	1448.8	1063.5	846.7	846.7
60°	5256.4	5025.7	4154.2	3552.2	2589.6	2358.8	1679.5	1384.4	1000.2	782.3	769.5
62.5°	3986.8	3975.0	4115.6	3076.8	3166.9	2564.9	1616.2	1308.2	948.7	718.0	693.3
65°	3781.9	3410.5	3731.4	2794.5	2512.3	2166.7	1538.9	1230.9	872.5	628.9	614.9
67.5°	5077.2	3461.0	3346.1	2486.5	2628.2	2103.4	1410.1	1127.9	795.2	538.7	513.0
70°	7550.8	3525.4	2808.5	2128.1	2039.0	1692.4	1256.7	987.3	679.3	448.6	435.7
72.5°	5166.2	2256.9	1334.0	1116.1	1371.5	1077.5	846.7	718.0	513.0	346.6	332.7
75°	1897.4	1013.1	640.7	500.1	564.5	448.6	320.9	269.4	231.8	217.9	231.8
77.5°	513.0	422.8	320.9	269.4	256.5	231.8	128.8	103.0	90.1	90.1	103.0
80°	205.0	205.0	167.4	128.8	128.8	140.6	64.4	50.4	50.4	50.4	50.4
82.5°	103.0	90.1	77.3	64.4	50.4	64.4	50.4	25.8	25.8	25.8	25.8
85°	38.6	38.6	25.8	25.8	25.8	25.8	12.9	0.0	0.0	0.0	25.8
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

(END OF REPORT)