

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: ITL53976_350MP

Luminaire Tested: **GMX35PXX4SFH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: ITL53976_350MP
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GMX35PXX4SFH
Description: 400W MH TYPE IV AREA
WITH HOUSE SIDE SHIELD
Light Source: 350 WATT PULSE-START CLEAR ED-28 HORIZONTAL BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 33000 (1 lamp)
Luminaire Lumens: 13534.4 lumens
Efficiency: 41.0%
Efficacy: 34.1 lumens/watt
Luminous Opening: Circular (Dia: 1.74' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

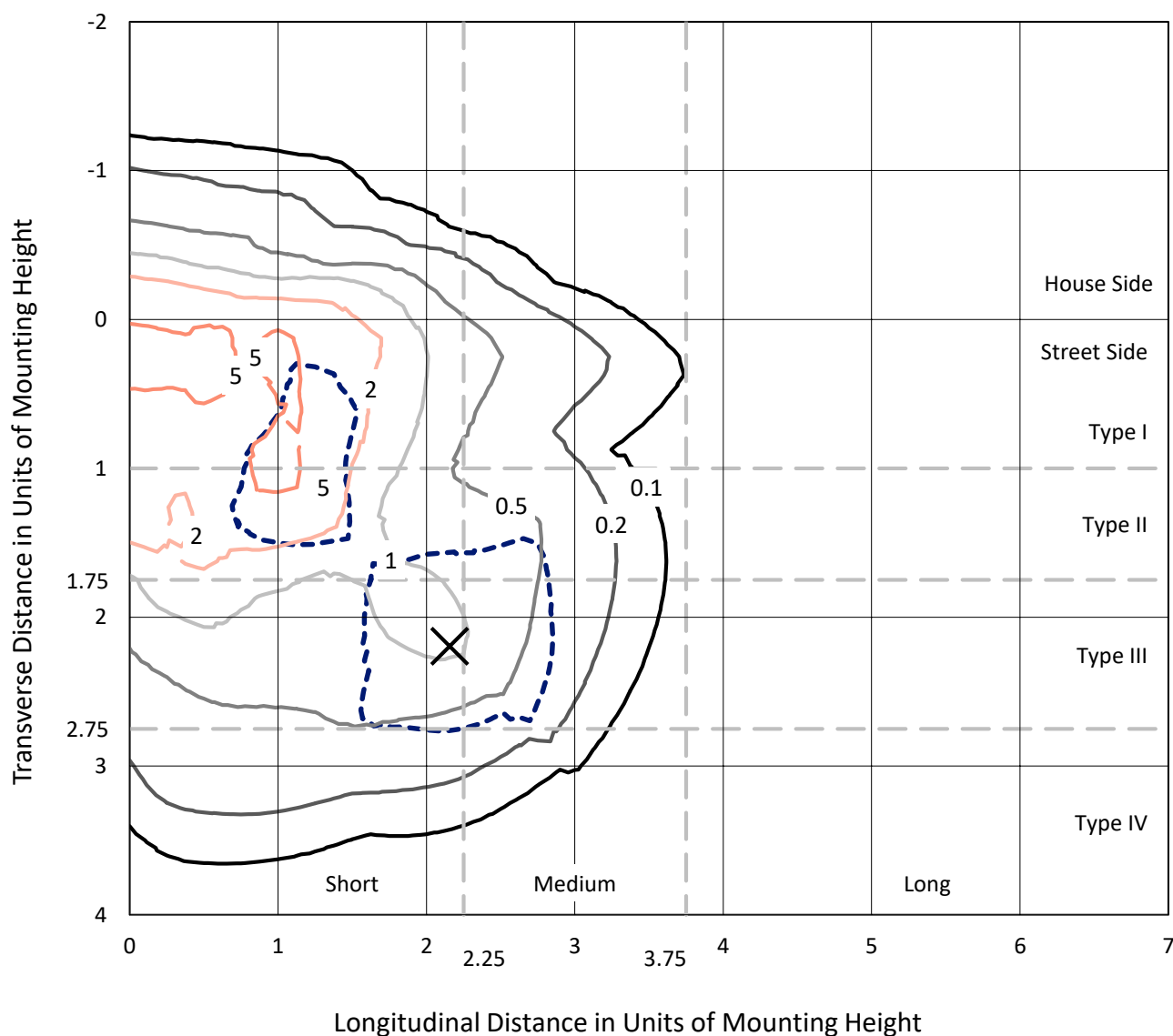
Input Watts (W): 397
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

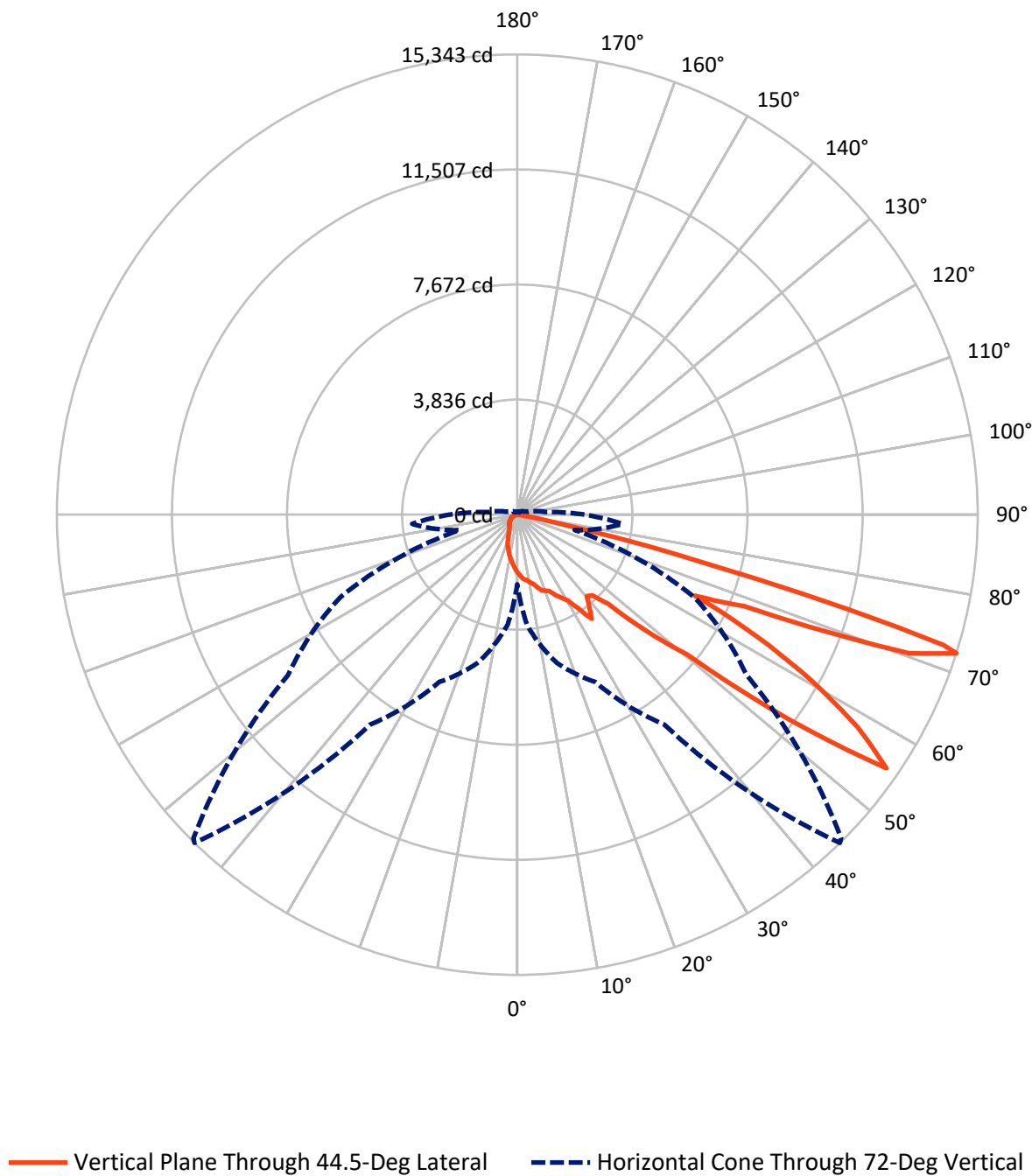
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.8 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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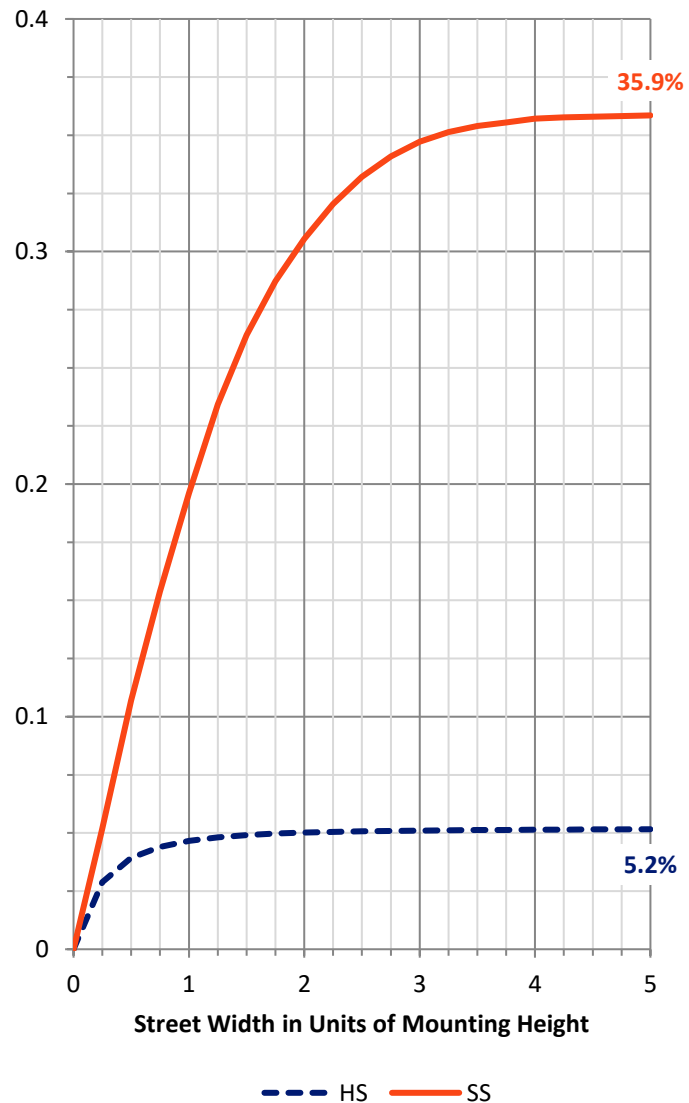
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1717.4	0.0	1717.4
	% Lamp	5.2	0.0	5.2
Street Side	Lumens	11817.0	0.0	11817.0
	% Lamp	35.8	0.0	35.8
Total	Lumens	13534.4	0.0	13534.4
	% Lamp	41.0	0.0	41.0

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	181.5	1.3	0.5
10°-20°	527.6	3.9	1.6
20°-30°	889.8	6.6	2.7
30°-40°	1320.6	9.8	4.0
40°-50°	2068.8	15.3	6.3
50°-60°	3611.5	26.7	10.9
60°-70°	2906.1	21.5	8.8
70°-80°	1982.2	14.6	6.0
80°-90°	46.4	0.3	0.1
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°	13534.4	100.0	41.0
0°-180°	13534.4	100.0	41.0

Coefficient of Utilization

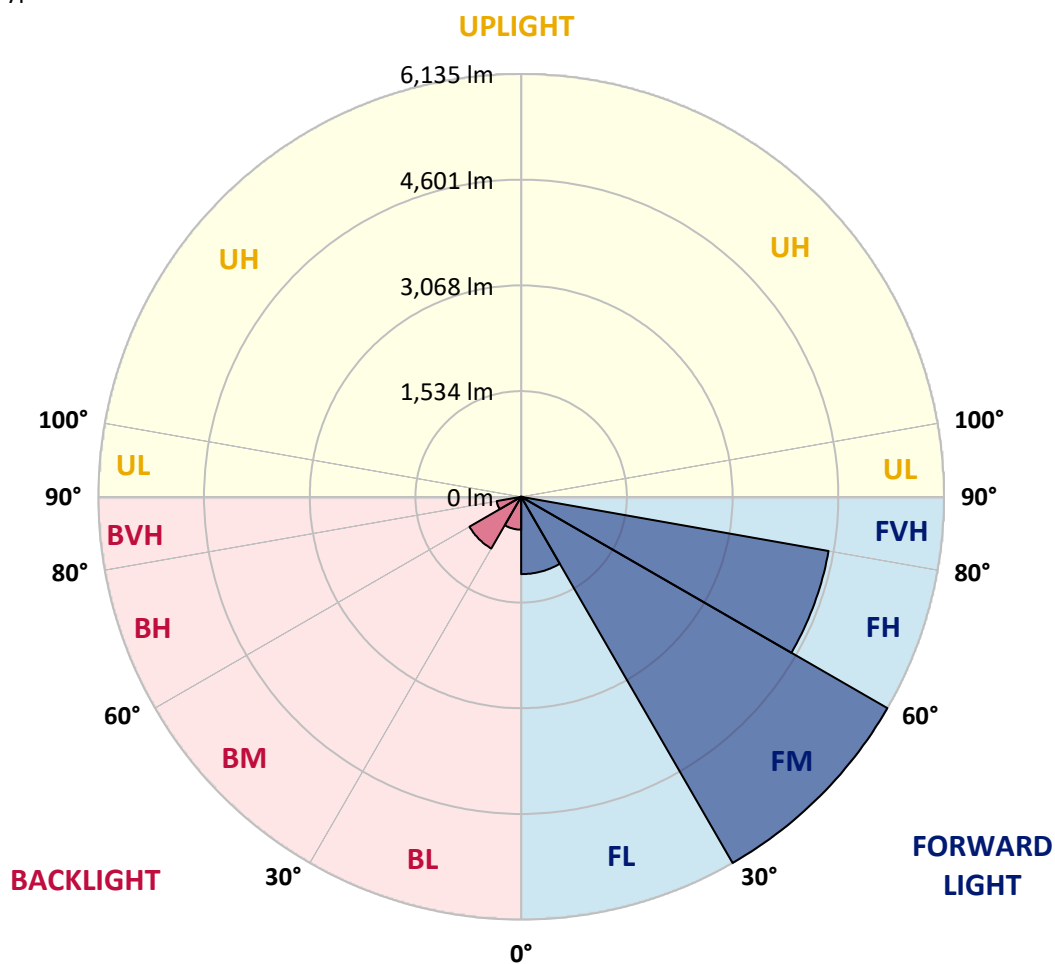


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1122.1	3.4			
FM	(30°-60°)	6135.1	18.6			
FH	(60°-80°)	4528.0	13.7			G2/5000
FVH	(80°-90°)	31.7	0.1			G1/100
BL	(0°-30°)	476.7	1.4	B1/500		
BM	(30°-60°)	865.7	2.6	B1/1000		
BH	(60°-80°)	360.3	1.1	B1/500		G1/500
BVH	(80°-90°)	14.7	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		19465.6	59.0			

BUG Rating: B1-U0-G2
Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44.5°	45°	55°	65°	75°	85°
0°	1935.1	1935.1	1935.1	1935.1	1935.1	1935.1	1935.1	1935.1	1935.1	1935.1	1935.1
2.5°	2108.3	2078.1	2078.1	2068.0	2048.8	2048.8	2048.8	2038.7	2008.4	1998.3	1958.9
5°	2247.7	2227.5	2207.3	2187.2	2178.0	2157.8	2147.8	2118.4	2078.1	2028.6	1979.1
7.5°	2266.9	2247.7	2247.7	2237.6	2227.5	2197.2	2207.3	2167.9	2127.6	2068.0	1989.2
10°	2366.8	2346.7	2356.8	2336.6	2316.4	2287.1	2287.1	2247.7	2197.2	2137.7	2048.8
12.5°	2465.8	2446.6	2506.2	2436.5	2416.3	2366.8	2376.9	2346.7	2307.2	2217.4	2078.1
15°	2605.2	2595.1	2625.3	2535.5	2535.5	2515.3	2496.1	2465.8	2356.8	2227.5	2068.0
17.5°	2684.9	2744.5	2754.6	2684.9	2625.3	2654.7	2654.7	2525.4	2396.2	2277.0	2098.2
20°	2744.5	2814.2	2754.6	2754.6	2754.6	2705.1	2734.4	2605.2	2545.6	2416.3	2207.3
22.5°	2724.3	2814.2	2783.9	2804.1	2853.6	2773.8	2794.0	2834.3	2714.2	2585.0	2336.6
25°	2664.8	2674.8	2764.7	2814.2	2883.8	2972.8	2933.3	2982.8	2943.4	2853.6	2575.8
27.5°	2664.8	2674.8	2773.8	2834.3	2953.5	3132.2	3122.2	3300.9	3311.0	3430.2	3033.2
30°	2605.2	2625.3	2744.5	2863.7	3023.2	3321.1	3331.2	3698.8	3878.4	4096.6	3649.2
32.5°	2565.8	2565.8	2724.3	2883.8	3122.2	3718.9	3708.8	4335.8	4603.5	4434.8	3499.8
35°	2585.0	2615.2	2695.0	2873.8	3271.6	4266.2	4196.5	4872.1	4543.9	3291.8	2664.8
37.5°	2506.2	2545.6	2963.6	2873.8	3470.5	3897.7	4086.5	4882.2	3838.1	3421.0	3062.6
40°	2465.8	2455.8	2773.8	3062.6	3688.7	3569.5	3639.2	4057.2	4077.3	4116.8	3739.1
42.5°	2426.4	2506.2	3191.8	3261.5	3480.6	3679.5	3619.9	3838.1	4613.6	5200.2	5091.2
45°	3817.9	3122.2	3132.2	2933.3	4096.6	4235.9	4256.1	4315.7	5558.7	6592.7	6354.3
47.5°	5329.5	4404.6	2654.7	3003.0	5369.8	5797.0	5379.9	5349.7	6732.0	7238.9	6781.5
50°	5170.9	4494.4	2575.8	4246.0	5856.6	7338.8	7228.8	7269.2	7964.9	7616.6	6383.7
52.5°	4176.3	4812.5	2754.6	5528.4	6373.6	11345.6	10748.8	10092.5	8641.4	7437.8	6622.0
55°	4812.5	5359.8	3360.5	6264.5	9495.8	14925.2	14627.2	9357.3	8909.1	7417.7	6334.2
57.5°	4533.8	5021.5	5458.8	6483.6	9615.8	13374.2	13642.8	9167.6	9396.8	6095.8	5837.3
60°	2863.7	4086.5	6990.5	5916.2	8322.4	11325.4	11624.2	7686.2	6314.0	5817.2	6701.8
62.5°	2843.5	4126.8	6155.4	5200.2	6721.9	8998.9	9108.0	5837.3	5737.4	5926.2	5041.7
65°	2744.5	3300.9	5329.5	4395.4	4673.2	6512.9	6761.3	4404.6	4395.4	3947.2	3967.3
67.5°	3102.0	3421.0	5001.3	4633.8	4594.3	8153.8	7587.2	5339.6	3212.0	3530.1	4215.8
70°	2664.8	3450.3	4723.6	5369.8	6980.4	13841.7	12886.5	7318.7	4643.8	3112.1	3729.0
72°	2326.5	3679.5	5120.5	6155.4	8541.5	15343.2	15263.4	9327.1	6502.8	1979.1	3520.0
72.5°	2207.3	3609.8	4931.7	6035.3	8541.5	14855.5	14974.7	9376.6	6125.2	1899.3	3390.8
75°	1253.1	1938.8	2436.5	2664.8	5181.0	6502.8	8193.2	5856.6	3798.7	1352.1	2455.8
77.5°	457.4	646.2	556.4	685.7	1054.2	1302.6	1620.7	1481.3	1054.2	666.4	1431.8
80°	99.0	129.2	119.2	178.8	258.5	248.4	328.2	358.4	258.5	258.5	636.2
82.5°	59.6	49.5	30.2	49.5	69.7	59.6	79.8	79.8	69.7	89.8	188.8
85°	0.0	0.0	0.0	0.0	20.2	10.1	30.2	30.2	39.4	39.4	49.5
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°	1935.1	1935.1	1935.1	1935.1	1935.1	1935.1	1935.1	1935.1	1935.1	1935.1	1935.1
2.5°	1948.8	1928.7	1899.3	1869.1	1829.7	1809.5	1790.2	1780.2	1760.0	1760.0	1790.2
5°	1948.8	1919.5	1849.8	1790.2	1720.6	1680.2	1650.9	1620.7	1600.5	1581.2	1610.6
7.5°	1938.8	1889.2	1799.4	1700.4	1620.7	1551.0	1511.6	1471.2	1441.9	1421.8	1452.0
10°	1998.3	1948.8	1790.2	1650.9	1540.9	1452.0	1372.2	1322.8	1282.4	1263.2	1272.3
12.5°	2018.5	1928.7	1739.8	1581.2	1431.8	1322.8	1222.8	1153.2	1103.7	1083.5	1113.8
15°	1979.1	1879.2	1680.2	1511.6	1342.0	1193.5	1074.3	994.6	945.1	924.9	954.2
17.5°	2008.4	1889.2	1650.9	1431.8	1243.0	1083.5	935.0	835.1	775.5	746.2	775.5
20°	2078.1	1919.5	1610.6	1342.0	1133.9	954.2	795.7	695.8	646.2	636.2	636.2
22.5°	2147.8	1948.8	1561.1	1272.3	1023.9	805.8	685.7	606.8	547.2	537.2	556.4
25°	2316.4	2018.5	1491.4	1153.2	884.6	685.7	566.5	506.9	467.5	447.3	457.4
27.5°	2625.3	2187.2	1452.0	1083.5	785.6	616.9	517.0	467.5	427.2	427.2	437.2
30°	3013.1	2326.5	1402.5	984.5	666.4	517.0	447.3	418.0	377.7	367.6	377.7
32.5°	2773.8	2147.8	1362.2	904.8	586.7	477.6	418.0	377.7	358.4	348.3	358.4
35°	2307.2	1928.7	1312.7	815.8	547.2	447.3	377.7	348.3	328.2	308.0	318.1
37.5°	2625.3	2088.2	1272.3	736.1	527.1	437.2	358.4	318.1	297.9	288.8	297.9
40°	3082.8	2277.0	1222.8	646.2	547.2	427.2	328.2	288.8	278.7	268.6	278.7
42.5°	3957.2	2545.6	1183.4	586.7	547.2	407.9	297.9	278.7	258.5	248.4	258.5
45°	4673.2	2764.7	1143.1	556.4	527.1	377.7	278.7	258.5	228.2	228.2	238.3
47.5°	4941.8	2953.5	1103.7	556.4	517.0	358.4	258.5	228.2	198.9	188.8	198.9
50°	4763.0	3251.4	1064.2	547.2	487.7	318.1	238.3	198.9	168.7	159.5	178.8
52.5°	5210.3	3679.5	1023.9	517.0	437.2	297.9	219.1	178.8	149.4	139.3	139.3
55°	5111.3	3858.2	994.6	477.6	407.9	278.7	198.9	159.5	139.3	129.2	139.3
57.5°	4822.6	3659.3	994.6	427.2	377.7	258.5	178.8	159.5	139.3	129.2	139.3
60°	5051.8	3300.9	964.3	397.8	358.4	238.3	178.8	139.3	129.2	129.2	119.2
62.5°	3669.4	2804.1	845.2	367.6	328.2	219.1	159.5	139.3	129.2	119.2	119.2
65°	3142.3	2247.7	676.5	338.2	288.8	198.9	149.4	129.2	119.2	109.1	119.2
67.5°	3052.5	1749.9	537.2	318.1	258.5	178.8	139.3	119.2	109.1	109.1	119.2
70°	2496.1	1212.8	437.2	278.7	219.1	159.5	119.2	99.0	89.8	89.8	99.0
72°	2237.6	974.4	367.6	248.4	198.9	139.3	99.0	89.8	89.8	79.8	79.8
72.5°	2118.4	935.0	348.3	238.3	178.8	129.2	99.0	79.8	79.8	69.7	79.8
75°	1491.4	656.3	268.6	188.8	139.3	109.1	79.8	79.8	69.7	69.7	79.8
77.5°	875.4	418.0	168.7	129.2	99.0	79.8	59.6	49.5	49.5	49.5	39.4
80°	437.2	238.3	109.1	89.8	79.8	49.5	39.4	39.4	30.2	30.2	39.4
82.5°	149.4	99.0	59.6	49.5	39.4	39.4	30.2	20.2	10.1	20.2	20.2
85°	49.5	39.4	39.4	39.4	20.2	20.2	20.2	10.1	10.1	10.1	20.2
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)