

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: ITL53963_350MP

Luminaire Tested: **GMX35PXX2SFHS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: ITL53963_350MP
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GMX35PXX2SFHS
Description: 400W MH TYPE II 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: 19313.5 lumens
Efficiency: 58.5%
Efficacy: 48.6 lumens/watt
Luminous Opening: Circular (Dia: 1.74' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

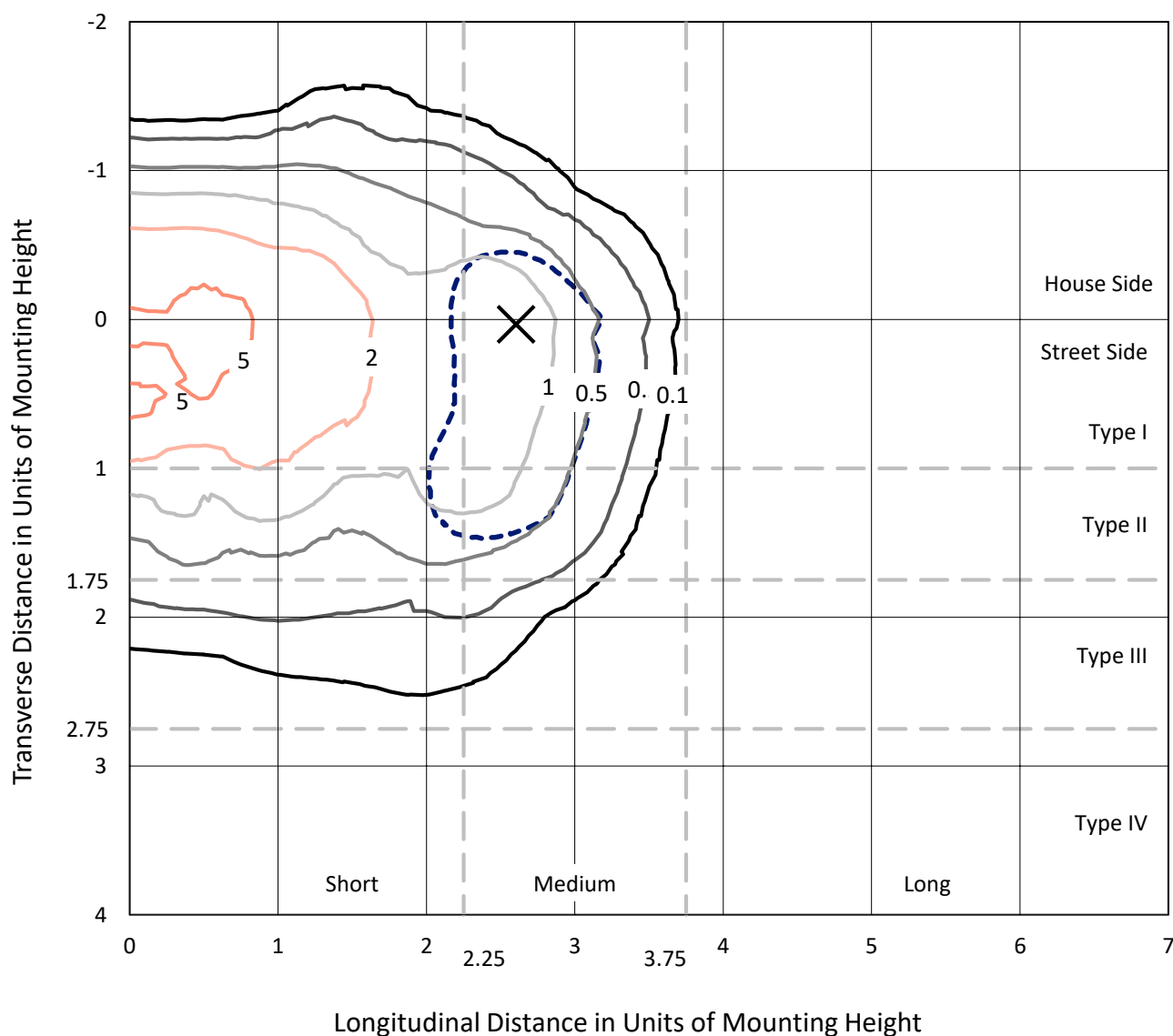
Input Watts (W): 397
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

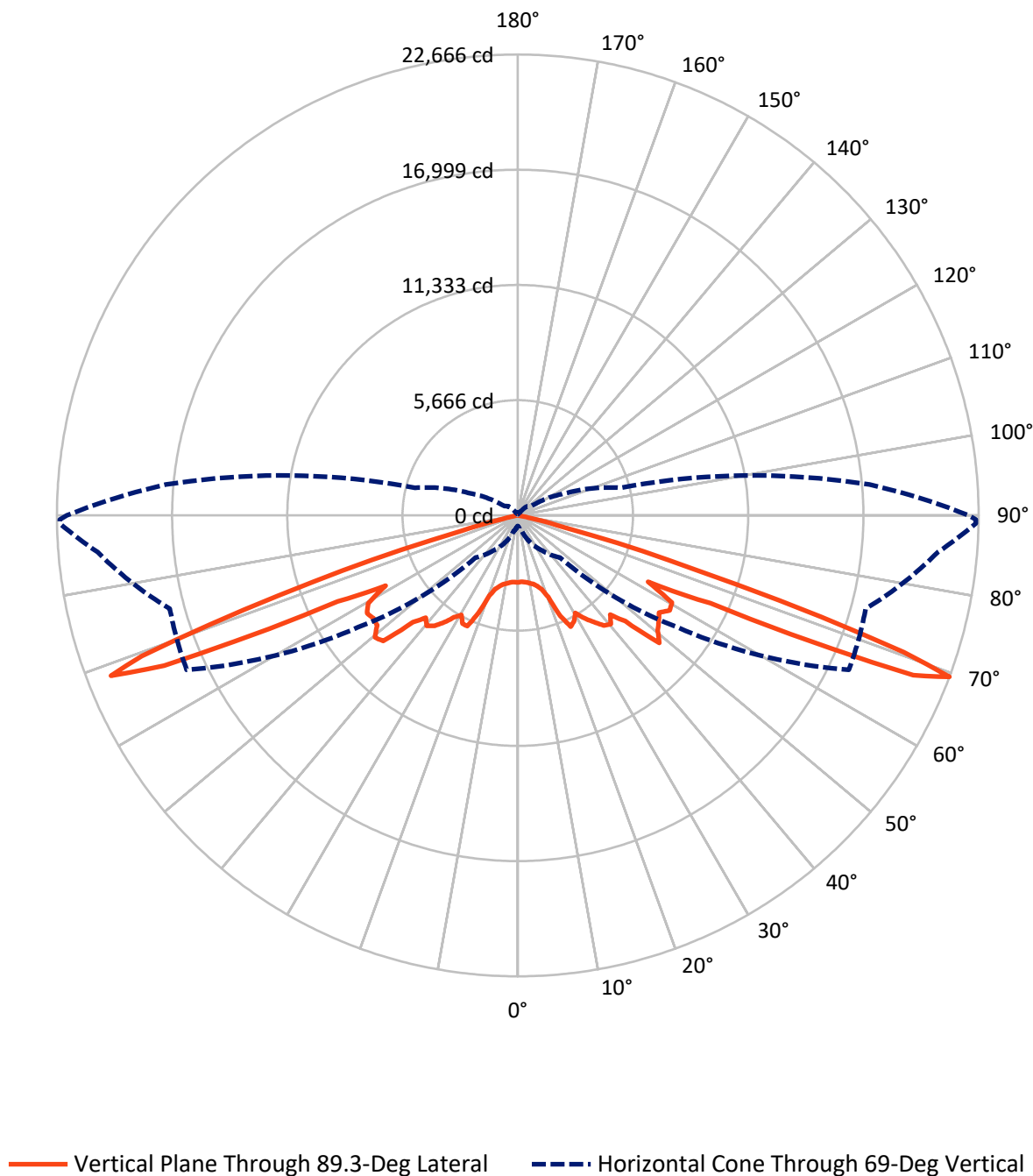
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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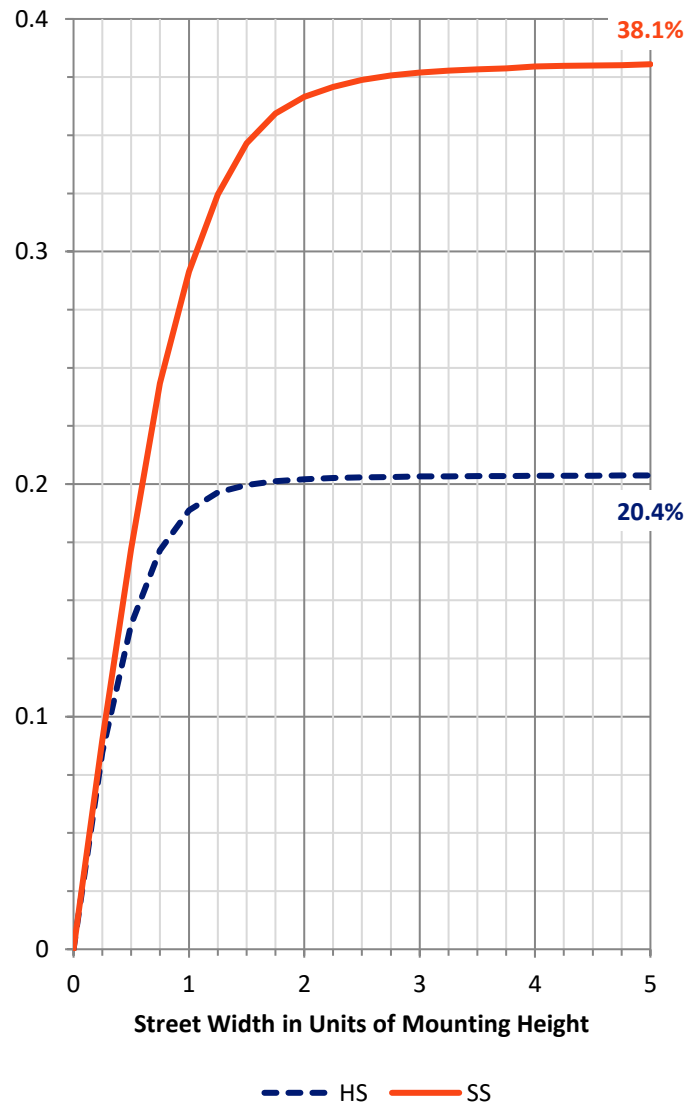
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6773.3	0.0	6773.3
	% Lamp	20.5	0.0	20.5
Street Side	Lumens	12540.2	0.0	12540.2
	% Lamp	38.0	0.0	38.0
Total	Lumens	19313.5	0.0	19313.5
	% Lamp	58.5	0.0	58.5

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	310.4	1.6	0.9
10°-20°	926.7	4.8	2.8
20°-30°	1873.8	9.7	5.7
30°-40°	2802.2	14.5	8.5
40°-50°	3360.7	17.4	10.2
50°-60°	3824.0	19.8	11.6
60°-70°	4258.0	22.0	12.9
70°-80°	1899.7	9.8	5.8
80°-90°	57.9	0.3	0.2
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°	19313.5	100.0	58.5
0°-180°	19313.5	100.0	58.5

Coefficient of Utilization



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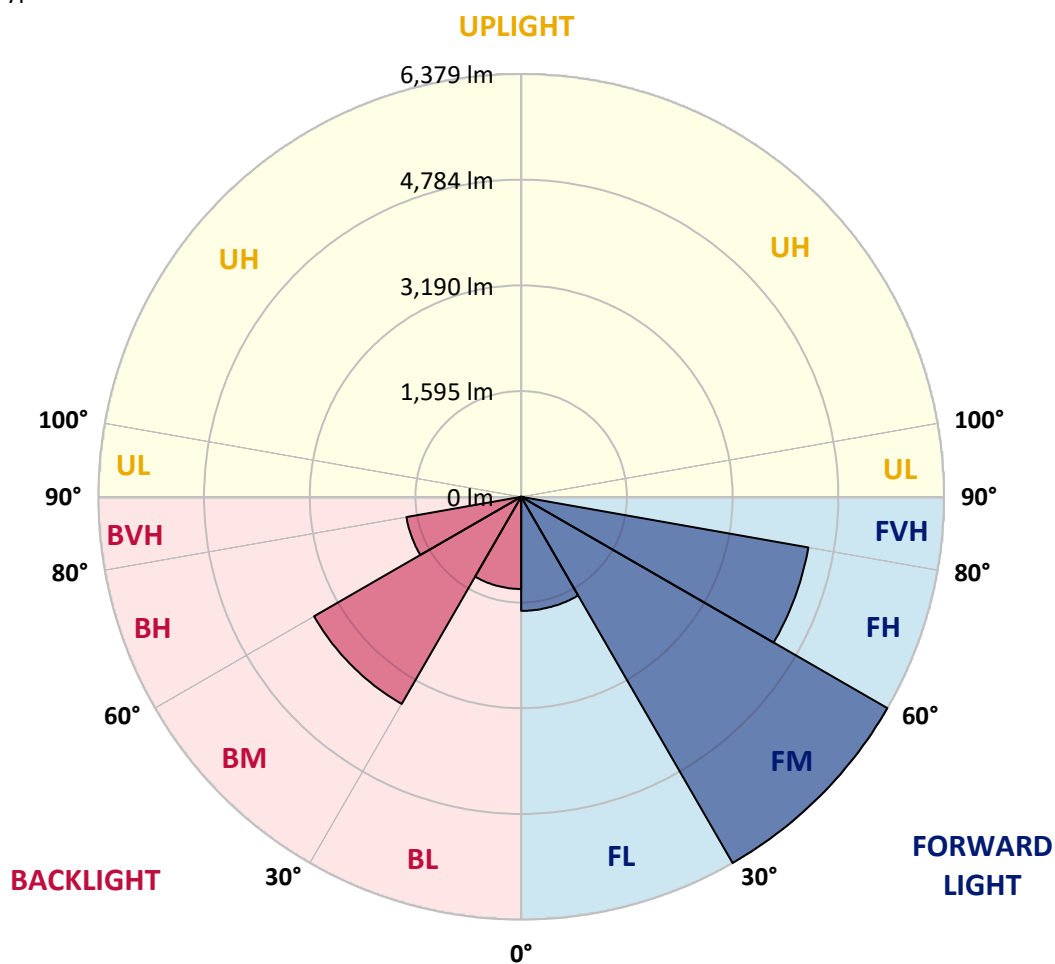
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1720.2	5.2			
FM	(30°-60°)	6379.0	19.3			
FH	(60°-80°)	4399.3	13.3			G2/5000
FVH	(80°-90°)	41.6	0.1			G1/100
BL	(0°-30°)	1390.8	4.2	B3/2500		
BM	(30°-60°)	3607.9	10.9	B3/5000		
BH	(60°-80°)	1758.3	5.3	B3/2500		G3/2500
BVH	(80°-90°)	16.3	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		13686.5	41.5			

BUG Rating: B3-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89.3°
0°	3295.4	3295.4	3295.4	3295.4	3295.4	3295.4	3295.4	3295.4	3295.4	3295.4	3295.4
2.5°	3308.2	3298.2	3308.2	3288.1	3278.0	3298.2	3298.2	3288.1	3278.0	3278.0	3267.9
5°	3328.4	3338.5	3288.1	3288.1	3288.1	3318.3	3318.3	3308.2	3308.2	3298.2	3288.1
7.5°	3348.6	3318.3	3278.0	3308.2	3328.4	3338.5	3328.4	3318.3	3308.2	3328.4	3328.4
10°	3308.2	3308.2	3288.1	3318.3	3338.5	3348.6	3348.6	3358.7	3367.8	3388.0	3398.1
12.5°	3247.8	3257.8	3267.9	3328.4	3328.4	3348.6	3418.2	3438.4	3448.5	3458.6	3468.7
15°	3188.2	3198.2	3247.8	3298.2	3318.3	3388.0	3478.8	3578.7	3598.8	3608.9	3608.9
17.5°	3168.0	3168.0	3217.5	3278.0	3338.5	3458.6	3619.0	3729.0	3789.5	3809.7	3819.8
20°	3168.0	3147.8	3188.2	3288.1	3408.2	3578.7	3759.2	3909.6	4080.1	4200.2	4280.8
22.5°	3488.8	3338.5	3278.0	3338.5	3488.8	3729.0	4029.7	4421.1	4831.8	5162.7	5373.5
25°	4772.2	4451.3	3919.7	3588.8	3619.0	4019.6	4631.0	5323.1	5804.3	5995.0	6054.6
27.5°	5493.6	5343.2	4982.1	4521.0	3970.1	4460.5	5402.8	5995.0	6125.2	6034.4	5894.2
30°	5694.3	5643.9	5302.9	4821.7	4521.0	5022.4	5924.4	6054.6	5864.8	5704.4	5573.3
32.5°	5554.1	5603.6	5292.8	4370.7	4961.9	5694.3	5944.6	5854.8	5894.2	5974.8	6034.4
35°	5252.5	5302.9	4611.8	4380.8	5192.9	6115.1	5764.0	5904.2	6285.6	6466.2	6435.9
37.5°	4772.2	4721.8	3809.7	4310.2	5192.9	6015.2	5834.6	6204.9	6726.5	6866.8	6866.8
40°	4130.5	4070.0	3377.9	3879.3	4711.7	5864.8	6385.5	6626.6	7057.4	7127.1	7037.2
42.5°	3488.8	3468.7	3057.1	3188.2	4140.6	5774.1	6927.2	6736.6	6876.8	6836.5	6676.1
45°	2887.5	2867.3	2756.4	2796.8	3639.2	5723.7	7027.2	6846.6	7258.2	7287.5	7418.6
47.5°	2465.8	2486.0	2465.8	2666.6	3769.3	6074.8	6907.1	7628.5	8511.2	8832.1	9362.8
50°	2225.7	2325.6	3288.1	2606.1	4190.1	6756.8	7187.6	8470.9	8621.2	9242.8	8921.9
52.5°	1984.6	2095.5	3629.1	2516.2	4380.8	6986.8	8060.2	8901.8	9011.8	8591.0	8681.8
55°	1784.8	1914.9	2696.8	2445.7	5122.3	5203.0	7348.0	8371.0	9072.2	7879.7	8430.6
57.5°	1604.2	1744.4	3047.9	2335.7	5082.9	6706.3	5643.9	8560.8	9352.8	8280.2	8811.9
60°	1383.2	1523.5	2425.5	2225.7	4009.5	5363.4	5343.2	9693.8	9352.8	9312.4	8711.1
62.5°	1163.2	1253.1	1573.9	2105.6	3087.3	3538.3	5613.7	8921.9	8069.4	7999.8	7187.6
65°	962.5	1002.8	1212.8	1925.0	2556.6	3178.1	6375.4	8942.1	8380.2	9262.9	10415.2
67.5°	682.0	731.5	942.3	1634.4	2215.6	3007.6	9393.1	15047.1	13814.2	17433.2	20981.6
69°	521.6	591.2	822.2	1463.9	2124.8	2926.9	9593.8	17963.9	17713.7	20740.5	22665.5
70°	440.9	531.7	771.8	1303.5	2105.6	2857.2	8550.7	18154.6	18555.2	20319.8	20139.2
72.5°	220.9	300.7	731.5	591.2	2055.2	3267.9	4301.0	10315.2	10516.0	11177.8	9102.5
75°	79.8	140.2	541.8	231.0	1353.0	2134.9	1463.9	2776.6	2806.8	2887.5	2365.9
77.5°	40.3	70.6	170.5	110.0	842.4	771.8	501.4	611.4	651.8	671.9	591.2
80°	20.2	20.2	270.4	79.8	682.0	1062.4	190.7	200.8	210.8	220.9	200.8
82.5°	0.0	0.0	190.7	50.4	140.2	240.2	310.8	79.8	70.6	99.9	79.8
85°	0.0	0.0	0.0	0.0	0.0	10.1	10.1	20.2	30.2	30.2	10.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.1	10.1	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°	3295.4	3295.4	3295.4	3295.4	3295.4	3295.4	3295.4	3295.4	3295.4	3295.4	3295.4
2.5°	3288.1	3267.9	3267.9	3257.8	3257.8	3257.8	3227.6	3237.7	3188.2	3217.5	3247.8
5°	3288.1	3288.1	3278.0	3257.8	3237.7	3217.5	3188.2	3157.9	3137.8	3137.8	3168.0
7.5°	3328.4	3328.4	3298.2	3267.9	3217.5	3168.0	3127.7	3077.2	3017.7	3037.8	3087.3
10°	3398.1	3398.1	3377.9	3298.2	3208.3	3117.6	3017.7	2967.2	2926.9	2947.1	2967.2
12.5°	3458.6	3458.6	3408.2	3308.2	3188.2	3067.2	2947.1	2857.2	2816.9	2806.8	2827.0
15°	3598.8	3578.7	3478.8	3338.5	3168.0	3017.7	2877.4	2776.6	2706.9	2676.7	2706.9
17.5°	3789.5	3729.0	3598.8	3398.1	3198.2	2987.4	2806.8	2676.7	2585.9	2556.6	2606.1
20°	4190.1	4149.8	3909.6	3578.7	3237.7	2947.1	2737.2	2576.8	2475.9	2445.7	2465.8
22.5°	5182.8	5102.2	4651.2	3990.2	3328.4	2926.9	2666.6	2496.1	2396.2	2355.8	2386.1
25°	5995.0	5904.2	5573.3	4601.7	3488.8	2896.7	2616.2	2445.7	2325.6	2275.2	2305.4
27.5°	5984.9	5914.3	5784.2	4851.9	3558.5	2896.7	2606.1	2386.1	2255.9	2185.3	2205.5
30°	5633.8	5573.3	5423.0	4631.0	3408.2	2906.8	2585.9	2325.6	2145.0	2065.2	2105.6
32.5°	5924.4	5794.2	5393.7	4340.4	3267.9	2906.8	2546.5	2245.8	2024.9	1935.1	1964.4
35°	6395.6	6235.2	5684.2	4301.0	3257.8	2896.7	2506.2	2145.0	1874.6	1774.7	1824.2
37.5°	6807.2	6696.2	5995.0	4301.0	3267.9	2887.5	2425.5	1994.7	1734.3	1614.2	1663.8
40°	7057.4	6947.4	6165.5	4169.9	3247.8	2816.9	2255.9	1824.2	1513.4	1383.2	1443.8
42.5°	6756.8	6776.9	6175.6	4049.8	3278.0	2717.0	2095.5	1624.3	1303.5	1173.3	1202.7
45°	7327.8	7558.8	6425.8	3970.1	3267.9	2536.4	1884.7	1393.3	1092.7	952.4	982.7
47.5°	9021.8	9222.6	7478.2	4080.1	3157.9	2345.8	1643.6	1153.2	842.4	721.4	741.6
50°	9212.5	9403.2	7177.5	4301.0	2987.4	2105.6	1383.2	881.8	621.5	501.4	541.8
52.5°	8761.5	8832.1	7077.6	4250.6	2847.2	1884.7	1072.5	611.4	400.6	310.8	341.0
55°	8671.7	8972.3	6706.3	4009.5	2896.7	1754.5	802.1	371.2	240.2	180.6	180.6
57.5°	8891.7	8521.3	5373.5	3688.7	2756.4	1643.6	591.2	260.3	190.7	150.3	140.2
60°	8671.7	7739.4	4380.8	3468.7	2616.2	1212.8	400.6	231.0	150.3	130.2	140.2
62.5°	7388.3	7127.1	4841.8	3678.6	2145.0	1313.6	361.2	200.8	130.2	99.9	99.9
65°	9793.7	9944.0	5603.6	3377.9	1453.8	871.8	300.7	170.5	110.0	79.8	79.8
67.5°	19227.1	16851.1	5704.4	3007.6	1202.7	902.0	240.2	140.2	89.8	70.6	79.8
69°	22174.2	17372.7	5233.2	2546.5	802.1	611.4	200.8	130.2	79.8	60.5	60.5
70°	20530.6	14956.3	4521.0	1854.4	651.8	451.0	200.8	130.2	99.9	79.8	79.8
72.5°	11097.2	7378.2	2205.5	922.2	381.3	240.2	120.1	89.8	60.5	50.4	40.3
75°	2967.2	2435.6	972.6	591.2	240.2	150.3	79.8	50.4	40.3	30.2	40.3
77.5°	721.4	631.6	351.1	341.0	150.3	99.9	40.3	30.2	20.2	10.1	20.2
80°	250.2	280.5	150.3	200.8	79.8	89.8	40.3	20.2	20.2	20.2	20.2
82.5°	110.0	110.0	70.6	89.8	40.3	60.5	20.2	20.2	20.2	10.1	20.2
85°	40.3	30.2	20.2	40.3	20.2	20.2	10.1	0.0	0.0	0.0	0.0
87.5°	0.0	20.2	10.1	10.1	10.1	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)