

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: 768833_400MP

Luminaire Tested: **GMX40PXXASF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 768833_400MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GMX40PXXASF
Description: MEDIUM GALLERIA TYPE V SQUARE
Light Source: 400 WATT PULSE-START CLEAR ED-37 VBU BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 44000 (1 lamp)
Luminaire Lumens: 32186.8 lumens
Efficiency: 73.2%
Efficacy: 71.2 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

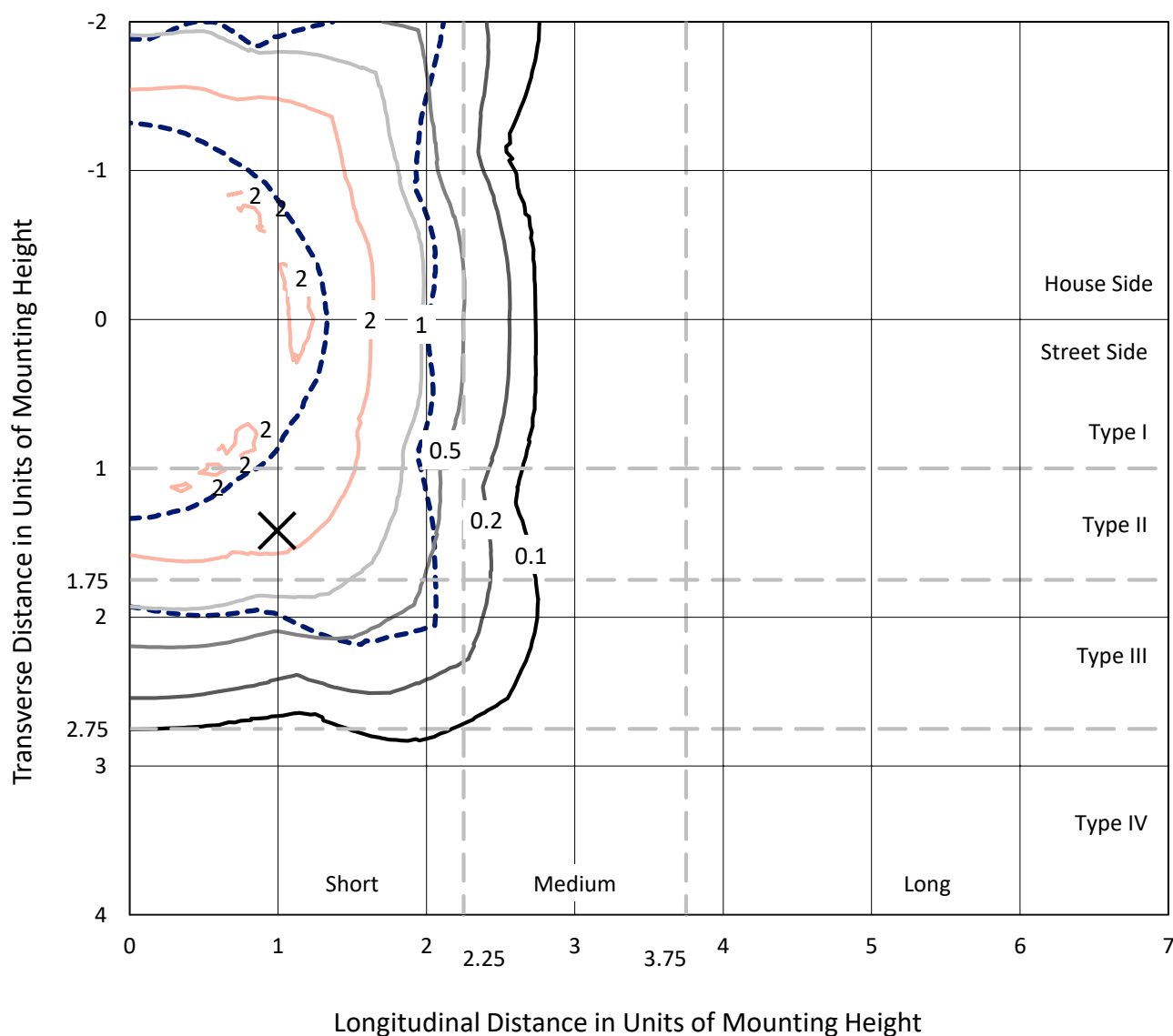
Input Watts (W): 452
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

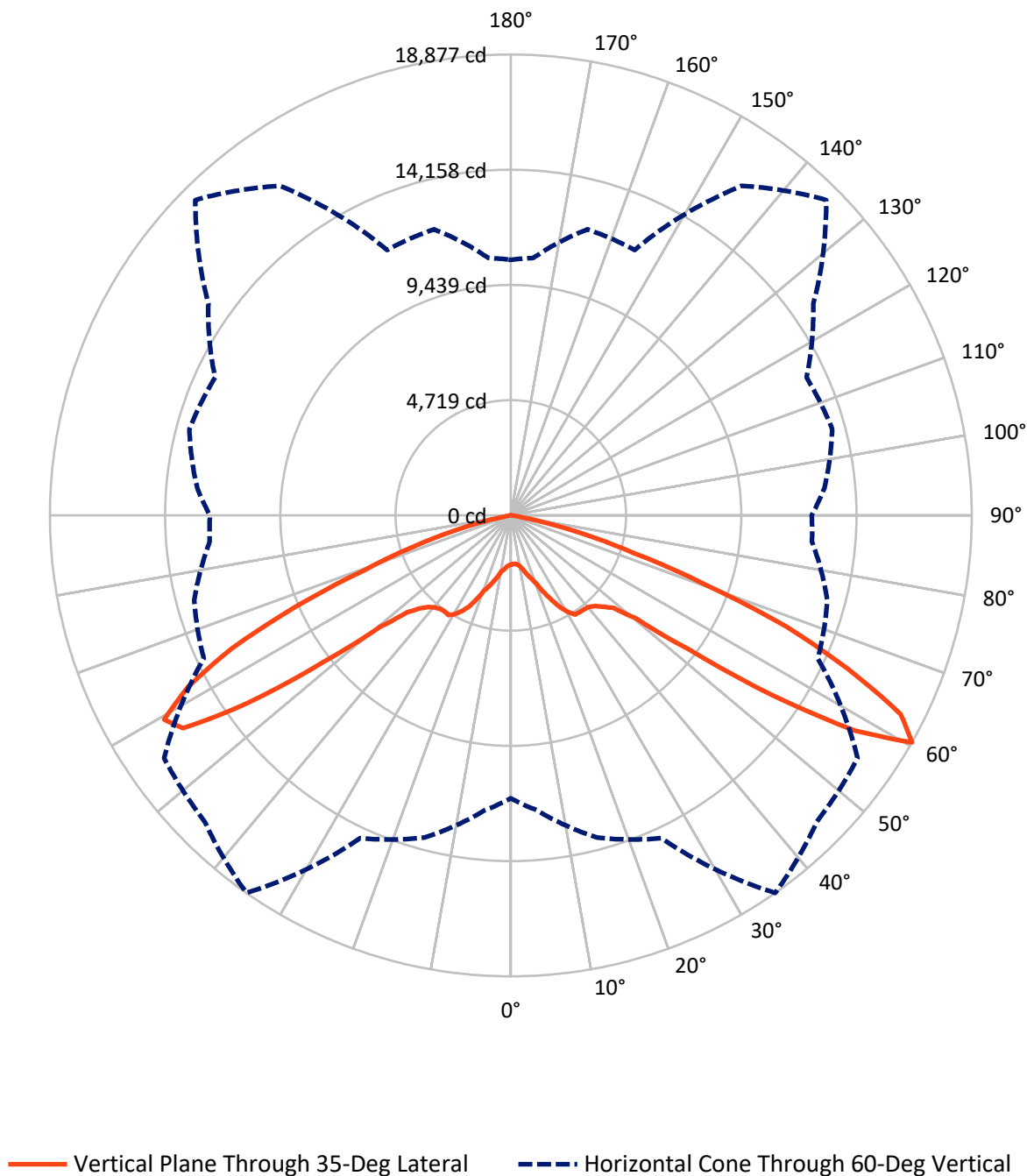
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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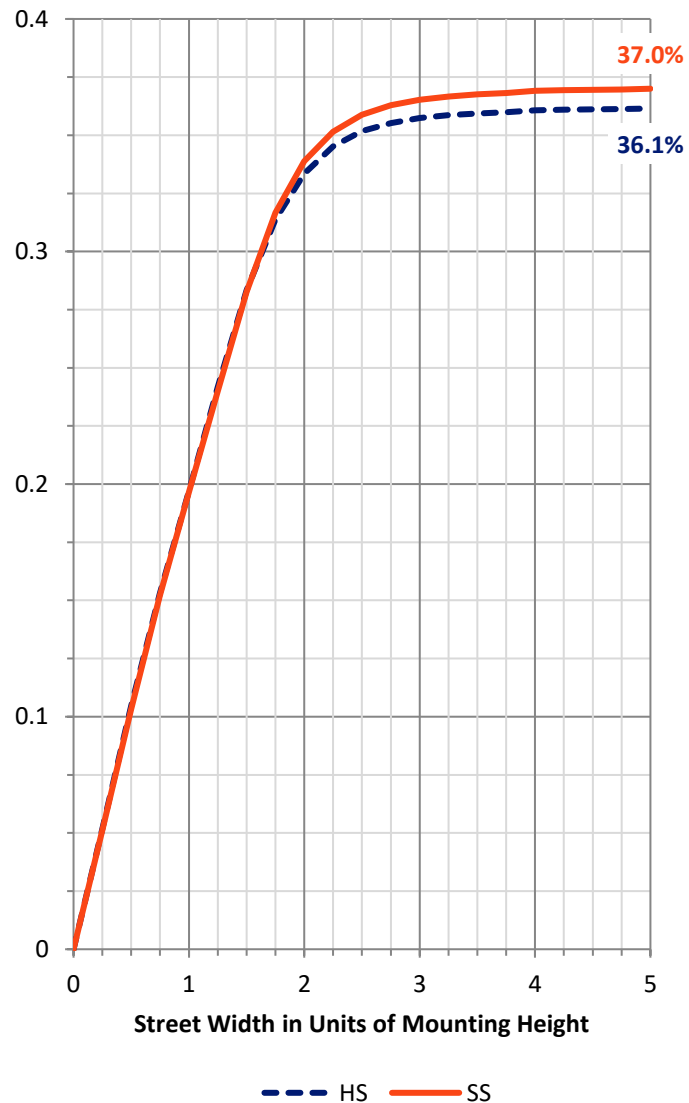
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15902.8	0.0	15902.8
	% Lamp	36.1	0.0	36.1
Street Side	Lumens	16284.0	0.0	16284.0
	% Lamp	37.0	0.0	37.0
Total	Lumens	32186.8	0.0	32186.8
	% Lamp	73.2	0.0	73.2

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	202.2	0.6	0.5
10°-20°	780.4	2.4	1.8
20°-30°	1849.1	5.7	4.2
30°-40°	3024.1	9.4	6.9
40°-50°	4364.2	13.6	9.9
50°-60°	10202.0	31.7	23.2
60°-70°	9806.2	30.5	22.3
70°-80°	1903.4	5.9	4.3
80°-90°	55.3	0.2	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°	32186.8	100.0	73.2
0°-180°	32186.8	100.0	73.2

Coefficient of Utilization



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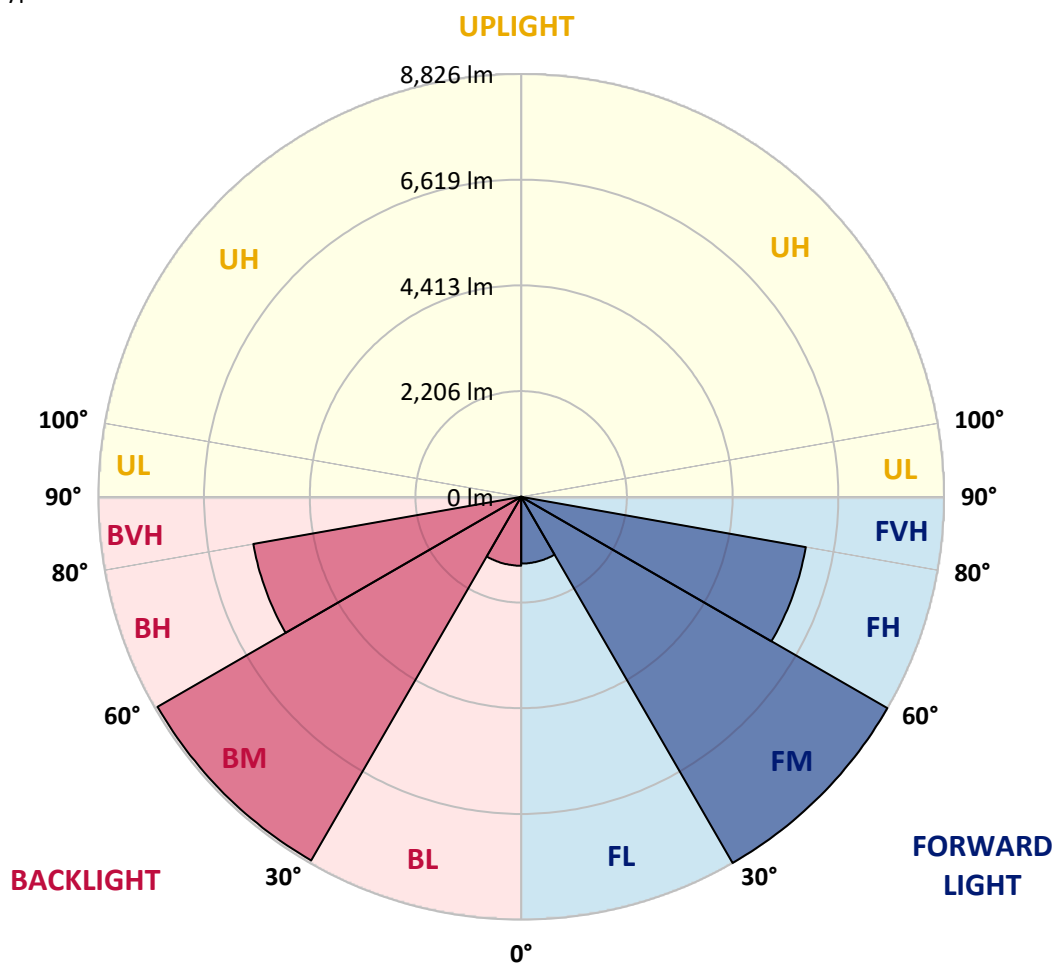
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1393.3	3.2			
FM	(30°-60°)	8825.7	20.1			
FH	(60°-80°)	6032.9	13.7			G3/7500
FVH	(80°-90°)	32.1	0.1			G1/100
BL	(0°-30°)	1438.4	3.3	B3/2500		
BM	(30°-60°)	8764.6	19.9	B5		
BH	(60°-80°)	5676.6	12.9	B5		G3/7500
BVH	(80°-90°)	23.2	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		11813.2	26.8			

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2014.2	2014.2	2014.2	2014.2	2014.2	2014.2	2014.2	2014.2	2014.2	2014.2	2014.2
2.5°	1997.1	1989.8	1972.7	1989.8	1989.8	1989.8	1997.1	2005.7	1997.1	2005.7	2022.8
5°	1981.2	1989.8	1989.8	1997.1	1997.1	1997.1	2022.8	2030.1	2038.7	2047.2	2047.2
7.5°	2014.2	2014.2	2005.7	2005.7	2038.7	2055.8	2088.8	2104.7	2104.7	2121.8	2129.1
10°	2113.2	2104.7	2104.7	2104.7	2121.8	2146.2	2187.8	2220.8	2253.8	2286.8	2294.1
12.5°	2278.2	2269.7	2269.7	2286.8	2294.1	2361.3	2434.7	2500.7	2550.8	2566.7	2566.7
15°	2542.2	2550.8	2517.8	2526.3	2517.8	2550.8	2608.2	2665.7	2698.7	2731.7	2731.7
17.5°	2625.3	2625.3	2616.8	2649.8	2715.8	2790.3	2880.8	2979.8	3054.3	3095.9	3103.2
20°	2988.3	2979.8	2971.2	2988.3	2979.8	3054.3	3186.3	3301.2	3367.2	3375.8	3384.3
22.5°	3417.3	3408.8	3417.3	3417.3	3384.3	3474.8	3623.9	3747.3	3797.4	3813.3	3821.9
25°	3846.3	3813.3	3788.9	3830.4	3797.4	3863.4	4028.4	4136.0	4160.4	4176.3	4169.0
27.5°	4176.3	4160.4	4127.4	4202.0	4217.9	4235.0	4424.4	4473.3	4448.9	4440.3	4382.9
30°	4457.4	4448.9	4440.3	4523.4	4580.9	4631.0	4721.4	4730.0	4655.4	4572.3	4547.9
32.5°	4639.6	4622.4	4664.0	4754.4	4837.6	4952.4	4943.9	4928.0	4771.6	4646.9	4613.9
35°	4837.6	4787.4	4829.0	4910.9	4862.0	4976.9	5018.4	5060.0	4910.9	4778.9	4778.9
37.5°	5068.6	5002.6	4976.9	4969.6	4877.9	4936.6	5051.4	5101.6	5051.4	4943.9	4969.6
40°	5332.6	5258.0	5174.9	5084.4	4928.0	4895.0	5126.0	5209.1	5200.6	5101.6	5108.9
42.5°	5596.6	5522.0	5440.1	5266.6	5075.9	4969.6	5258.0	5381.4	5348.4	5249.4	5209.1
45°	5910.7	5827.6	5819.0	5539.1	5341.1	5209.1	5497.6	5621.0	5579.4	5447.4	5423.0
47.5°	6091.6	6050.0	6157.6	5926.6	5654.0	5588.0	5984.0	6067.1	5877.7	5671.1	5654.0
50°	6454.6	6438.7	6652.6	6678.2	6628.1	6529.1	7230.7	7255.1	6735.7	6339.7	6331.1
52.5°	8287.9	8262.2	8559.2	8692.4	9055.4	8402.8	9046.9	9046.9	8625.2	8427.2	8361.2
55°	11061.1	11127.1	11597.7	11498.7	13016.7	11316.6	12216.1	11745.6	11448.6	11440.0	11358.1
57.5°	12035.2	12422.7	13314.9	13537.3	16632.0	14883.0	15147.0	13297.8	12950.7	12728.2	12538.8
60°	11589.1	12117.1	13660.8	14586.0	18877.2	17730.8	17334.8	13875.9	13421.2	12381.1	12323.7
62.5°	9295.0	9715.4	11333.7	12679.3	17920.2	17887.2	15906.0	12002.2	11531.7	10161.6	10062.6
65°	6652.6	6883.6	7956.7	9071.3	15180.0	15972.0	13108.3	9062.8	8873.3	7907.8	7824.7
67.5°	4572.3	4712.9	5167.6	5844.7	12200.2	13405.3	10120.0	5910.7	5786.0	5167.6	5042.9
70°	2294.1	2302.7	2460.3	3012.8	8345.3	10474.4	6834.7	2922.3	2559.3	2170.7	2096.1
72.5°	924.0	949.7	1081.7	1923.8	5275.1	7255.1	4481.9	1312.7	1007.1	825.0	800.6
75°	512.1	545.1	611.1	1394.6	3161.9	3962.4	2905.2	916.7	611.1	479.1	453.4
77.5°	330.0	396.0	363.0	677.1	1394.6	1552.2	1493.6	561.0	380.1	281.1	281.1
80°	132.0	156.4	189.4	314.1	437.6	552.4	347.1	222.4	173.6	123.4	123.4
82.5°	50.1	57.4	66.0	123.4	116.1	156.4	99.0	57.4	57.4	33.0	33.0
85°	0.0	0.0	8.6	17.1	24.4	33.0	17.1	8.6	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



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2014.2	2014.2	2014.2	2014.2	2014.2	2014.2	2014.2	2014.2	2014.2	2014.2
2.5°	2022.8	2022.8	2030.1	2030.1	2030.1	2038.7	2030.1	2038.7	2038.7	2047.2
5°	2055.8	2071.7	2071.7	2071.7	2088.8	2104.7	2113.2	2129.1	2137.7	2146.2
7.5°	2129.1	2137.7	2154.8	2179.2	2203.7	2220.8	2253.8	2261.1	2269.7	2261.1
10°	2294.1	2311.2	2319.8	2328.3	2335.7	2319.8	2328.3	2352.8	2352.8	2344.2
12.5°	2566.7	2559.3	2542.2	2509.2	2526.3	2550.8	2550.8	2559.3	2559.3	2559.3
15°	2740.2	2740.2	2757.3	2740.2	2764.7	2790.3	2806.2	2806.2	2830.7	2839.2
17.5°	3111.8	3087.3	3070.2	3021.3	3021.3	3021.3	2988.3	2988.3	2946.8	2955.3
20°	3392.9	3392.9	3375.8	3334.2	3318.3	3268.2	3260.9	3276.8	3252.3	3235.2
22.5°	3804.8	3797.4	3764.4	3731.4	3705.8	3665.4	3606.8	3566.4	3524.9	3500.4
25°	4160.4	4143.3	4118.9	4103.0	4103.0	4085.9	3936.8	3846.3	3813.3	3797.4
27.5°	4374.3	4424.4	4407.3	4448.9	4407.3	4391.4	4209.3	4110.3	4044.3	4028.4
30°	4506.3	4639.6	4622.4	4697.0	4771.6	4639.6	4424.4	4301.0	4202.0	4160.4
32.5°	4580.9	4721.4	4787.4	4870.6	5075.9	4811.9	4580.9	4448.9	4217.9	4193.4
35°	4730.0	4754.4	4895.0	4862.0	5051.4	4778.9	4655.4	4490.4	4292.4	4292.4
37.5°	4910.9	4853.4	4903.6	4862.0	4952.4	4796.0	4679.9	4631.0	4473.3	4490.4
40°	5027.0	4985.4	4969.6	4895.0	4919.4	4886.4	4844.9	4877.9	4763.0	4754.4
42.5°	5167.6	5150.4	5117.4	4985.4	5018.4	5042.9	5126.0	5209.1	5084.4	5068.6
45°	5374.1	5365.6	5324.0	5233.6	5233.6	5341.1	5480.4	5605.1	5530.6	5464.6
47.5°	5605.1	5629.6	5852.0	5744.4	5645.4	5819.0	6067.1	6157.6	6256.6	6174.7
50°	6322.6	6487.6	7197.7	7123.1	6678.2	7024.1	7329.7	7230.7	7123.1	6983.8
52.5°	8493.2	8741.3	9533.3	9871.9	9310.9	9764.3	9434.3	9071.3	8840.3	8699.8
55°	11663.7	11646.6	12042.6	12612.1	12332.2	13231.8	11886.1	11481.6	11259.1	11143.0
57.5°	13033.8	13330.8	13429.8	14676.4	15890.1	16005.0	12868.8	12563.2	11498.7	11325.1
60°	12893.2	13627.8	13363.8	15122.6	18267.3	16475.6	11993.7	12125.7	10582.0	10467.1
62.5°	10665.1	11811.6	11672.2	14007.9	18531.3	14982.0	10128.6	10854.6	8864.8	8864.8
65°	8229.2	8939.3	8840.3	11745.6	16871.6	12662.2	7916.3	8749.9	7338.2	7494.7
67.5°	5315.4	5513.4	5563.6	9029.8	14115.4	9559.0	4870.6	5407.1	4631.0	4754.4
70°	2096.1	2236.7	2385.8	6182.0	11209.0	6381.2	2245.2	2533.7	2055.8	2129.1
72.5°	792.0	1222.2	1222.2	4481.9	7956.7	4367.0	1238.1	1229.6	842.1	842.1
75°	503.6	726.0	825.0	3045.8	3953.9	2649.8	734.6	677.1	495.0	462.0
77.5°	330.0	347.1	512.1	1420.2	1568.1	1222.2	429.0	330.0	288.4	264.0
80°	107.6	165.0	215.1	321.4	453.4	272.6	222.4	156.4	116.1	116.1
82.5°	33.0	41.6	57.4	74.6	107.6	74.6	66.0	33.0	17.1	17.1
85°	0.0	0.0	0.0	0.0	17.1	0.0	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
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)