

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: ITL53278_320MP

Luminaire Tested: **GMX32PXX5SF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: ITL53278_320MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GMX32PXX5SF
Description: 400W MH TYPE V AREA
Light Source: 320 WATT PULSE-START CLEAR ED-28 HORIZONTAL BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 30000 (1 lamp)
Luminaire Lumens: 22000.2 lumens
Efficiency: 73.3%
Efficacy: 62.9 lumens/watt
Luminous Opening: Rectangular (W 1.01' x L: 1.03' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 350
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

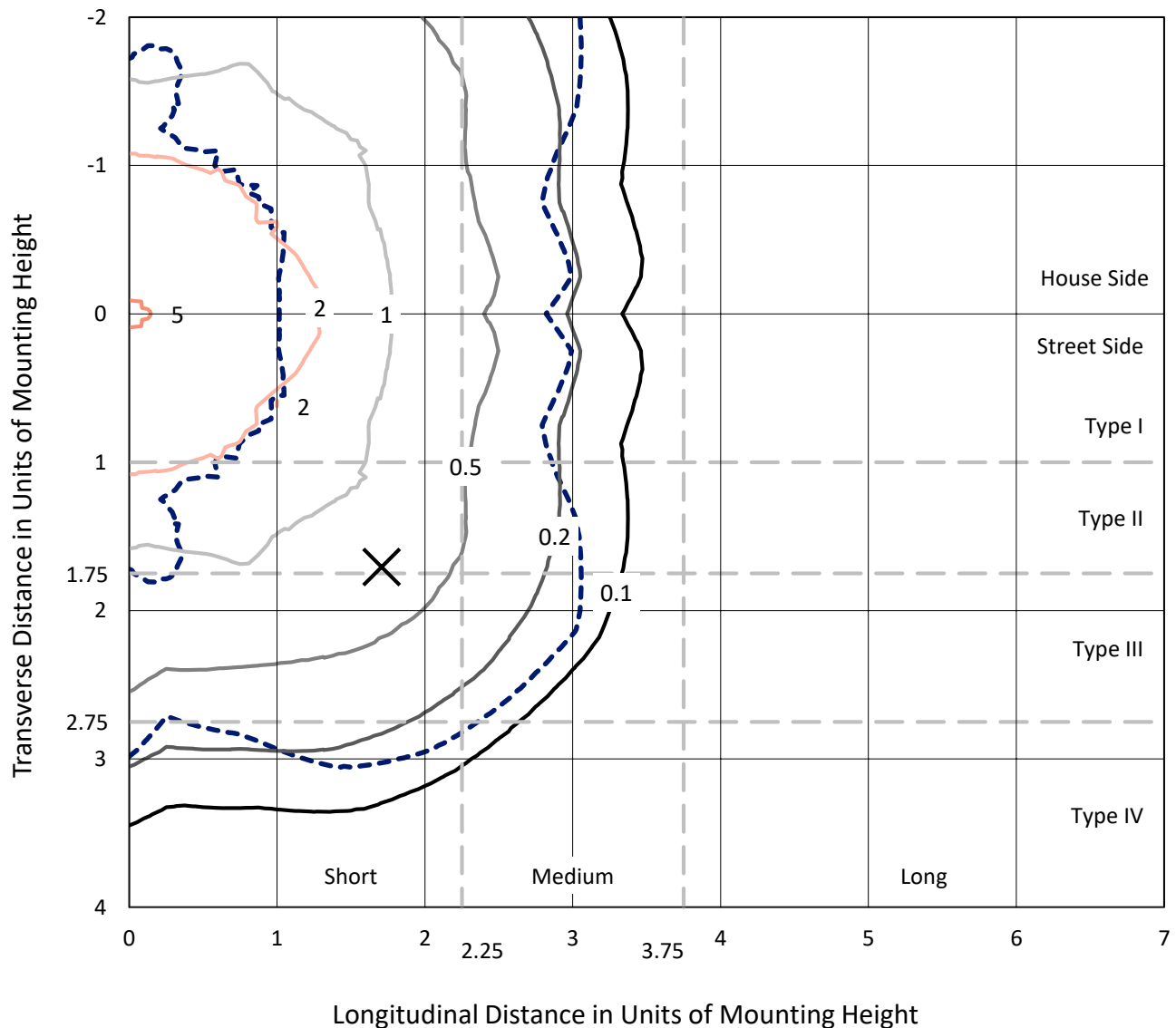


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Iso-Footcandle Lines of Horizontal Illumination

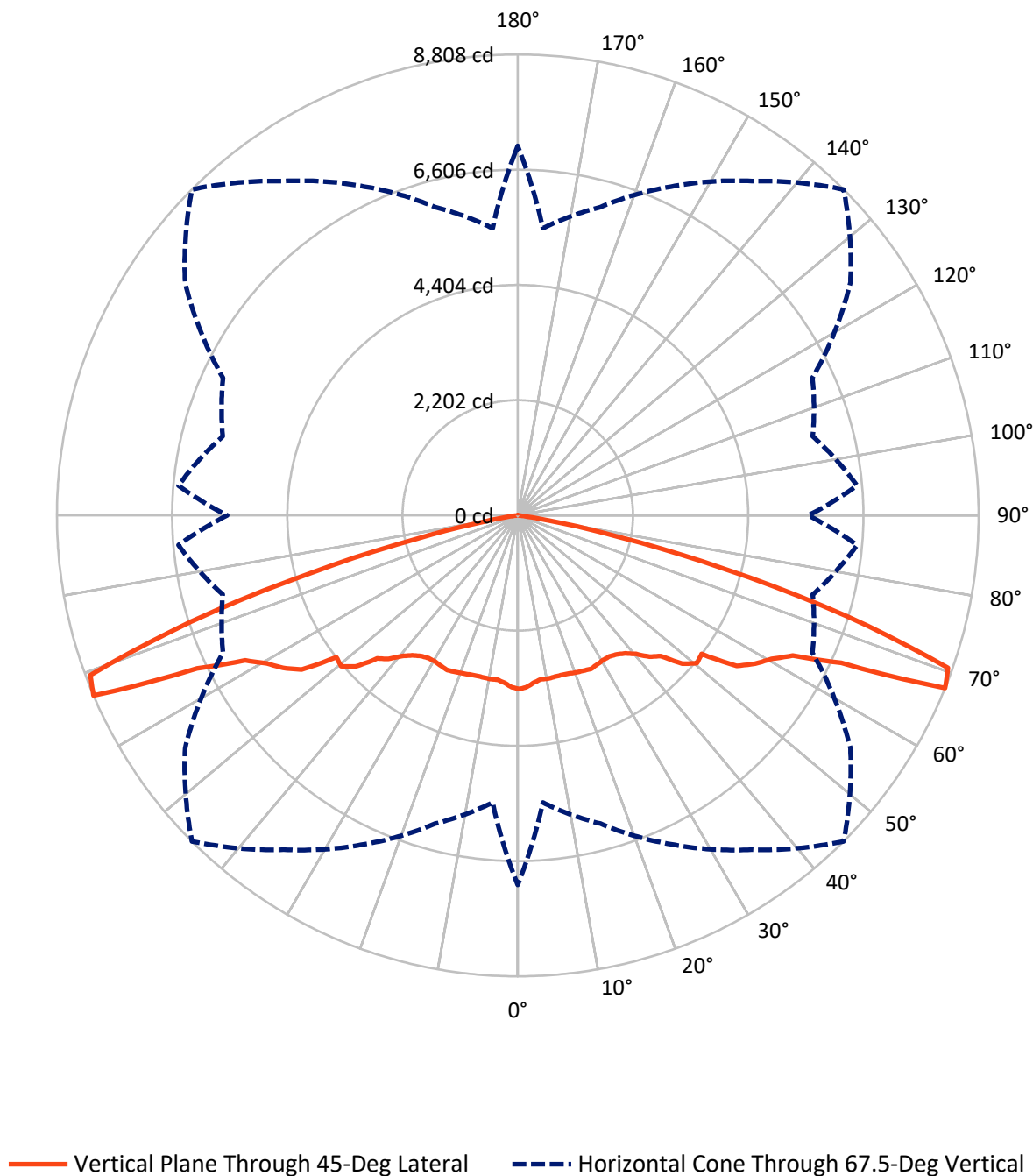
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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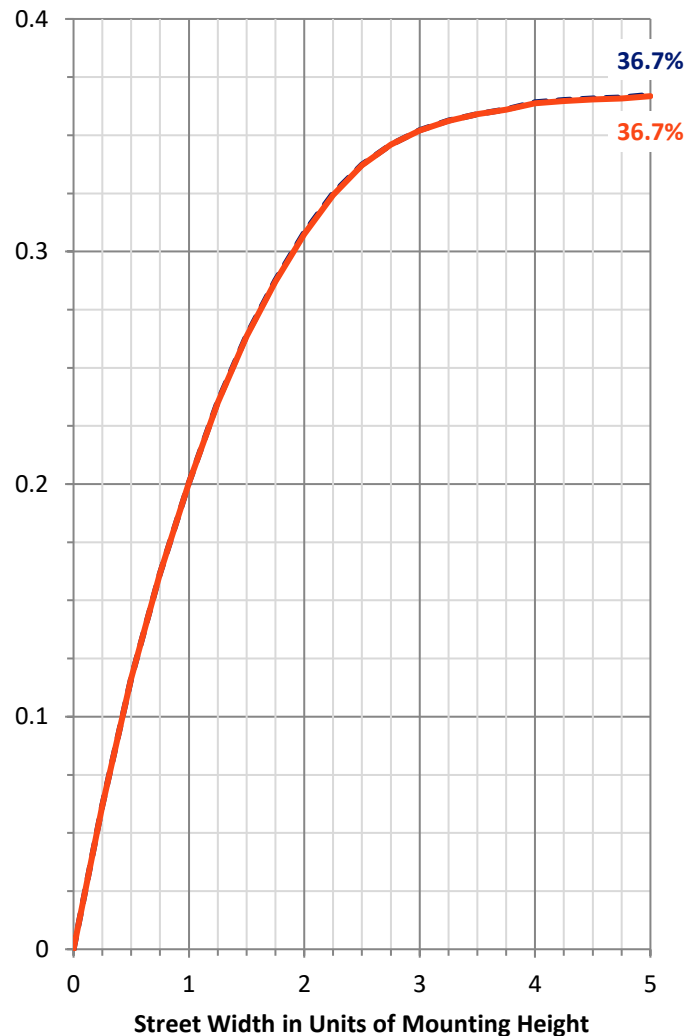
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11000.1	0.0	11000.1
	% Lamp	36.7	0.0	36.7
Street Side	Lumens	11000.1	0.0	11000.1
	% Lamp	36.7	0.0	36.7
Total	Lumens	22000.2	0.0	22000.2
	% Lamp	73.3	0.0	73.3

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	305.4	1.4	1.0
10°-20°	893.3	4.1	3.0
20°-30°	1493.4	6.8	5.0
30°-40°	2061.1	9.4	6.9
40°-50°	3067.9	13.9	10.2
50°-60°	4500.8	20.5	15.0
60°-70°	6133.9	27.9	20.4
70°-80°	3385.7	15.4	11.3
80°-90°	158.6	0.7	0.5
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°	22000.2	100.0	73.3
0°-180°	22000.2	100.0	73.3

Coefficient of Utilization

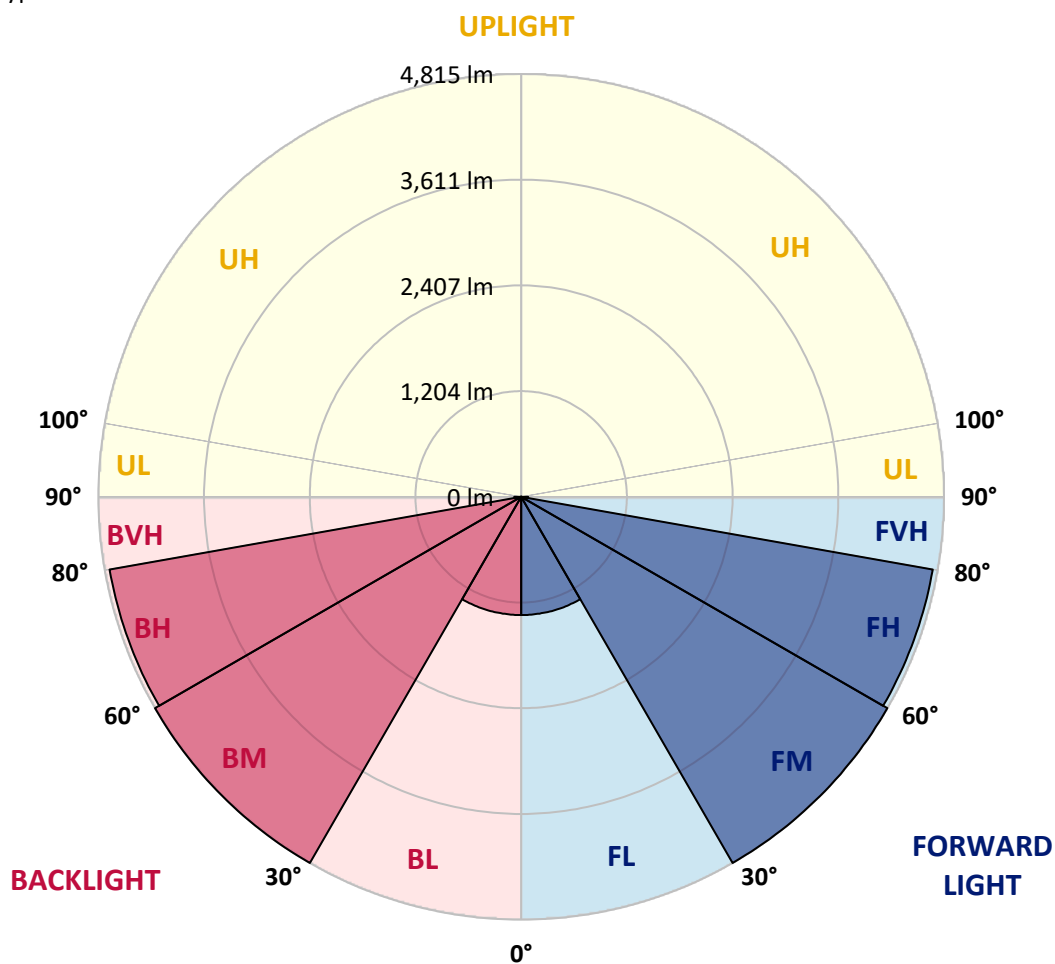


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1346.0	4.5			
FM	(30°-60°)	4814.9	16.0			
FH	(60°-80°)	4759.8	15.9			G2/5000
FVH	(80°-90°)	79.3	0.3			G1/100
BL	(0°-30°)	1346.0	4.5	B3/2500		
BM	(30°-60°)	4814.9	16.0	B3/5000		
BH	(60°-80°)	4759.8	15.9	B4/5000		G2/5000
BVH	(80°-90°)	79.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		7999.8	26.7			

BUG Rating: B4-U0-G2
Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3317.5	3317.5	3317.5	3317.5	3317.5	3317.5	3317.5	3317.5	3317.5	3317.5	3317.5
2.5°	3266.7	3266.7	3276.7	3276.7	3276.7	3283.3	3287.5	3290.8	3294.2	3300.8	3300.8
5°	3184.2	3187.5	3194.2	3197.5	3201.7	3208.3	3229.2	3252.5	3255.8	3270.0	3273.3
7.5°	3115.8	3119.2	3132.5	3139.2	3153.3	3163.3	3177.5	3190.8	3215.0	3225.0	3225.0
10°	3074.2	3080.8	3101.7	3122.5	3146.7	3170.8	3187.5	3197.5	3218.3	3235.8	3232.5
12.5°	3033.3	3033.3	3057.5	3095.0	3132.5	3163.3	3194.2	3215.0	3229.2	3239.2	3239.2
15°	2964.2	2975.0	3002.5	3057.5	3112.5	3163.3	3201.7	3232.5	3245.8	3252.5	3252.5
17.5°	2944.2	2947.5	2985.0	3043.3	3115.8	3177.5	3232.5	3266.7	3283.3	3290.8	3294.2
20°	2930.0	2940.8	2985.0	3046.7	3115.8	3201.7	3263.3	3307.5	3331.7	3341.7	3341.7
22.5°	2957.5	2975.0	3012.5	3064.2	3125.8	3221.7	3304.2	3362.5	3396.7	3414.2	3410.8
25°	2957.5	2988.3	3036.7	3091.7	3156.7	3249.2	3365.8	3435.0	3475.8	3485.8	3493.3
27.5°	2964.2	2971.7	3019.2	3088.3	3135.8	3229.2	3355.8	3445.0	3493.3	3503.3	3506.7
30°	2868.3	2875.0	2940.8	3019.2	3091.7	3208.3	3331.7	3435.0	3475.8	3493.3	3500.0
32.5°	2806.7	2816.7	2882.5	2981.7	3085.0	3215.0	3341.7	3455.0	3510.0	3547.5	3555.0
35°	2800.0	2813.3	2899.2	3009.2	3132.5	3260.0	3400.0	3520.8	3579.2	3620.0	3623.3
37.5°	2834.2	2847.5	2944.2	3074.2	3205.0	3345.8	3472.5	3602.5	3664.2	3712.5	3726.7
40°	2923.3	2957.5	3088.3	3232.5	3355.8	3482.5	3602.5	3733.3	3822.5	3880.8	3890.8
42.5°	3129.2	3163.3	3287.5	3438.3	3547.5	3691.7	3709.2	3863.3	3990.8	4052.5	4049.2
45°	3657.5	3654.2	3715.8	3791.7	3777.5	3832.5	3897.5	3997.5	4220.0	4326.7	4330.0
47.5°	4062.5	4018.3	4021.7	3966.7	4124.2	4234.2	3908.3	4107.5	4563.3	4683.3	4639.2
50°	4405.8	4391.7	4419.2	4485.0	4670.0	4440.0	4718.3	4652.5	4824.2	5215.8	5119.2
52.5°	4247.5	4258.3	4535.8	4501.7	4360.8	4399.2	4642.5	4635.8	5099.2	5507.5	5483.3
55°	4158.3	4130.8	4467.5	4645.8	4989.2	5075.0	4889.2	5067.5	5582.5	5843.3	5600.0
57.5°	3952.5	3894.2	4635.8	5146.7	5767.5	5349.2	6653.3	6399.2	5585.8	5860.8	5538.3
60°	4371.7	3908.3	4519.2	5507.5	4965.0	5569.2	6848.3	5256.7	5184.2	5325.0	5044.2
62.5°	5483.3	4755.8	5091.7	6104.2	5939.2	5898.3	6165.8	5483.3	5538.3	5421.7	4885.8
65°	7157.5	5668.3	6121.7	7023.3	6478.3	6794.2	7603.3	6265.0	5767.5	6110.8	5277.5
67.5°	7061.7	5507.5	6097.5	6934.2	7799.2	8808.3	7761.7	6214.2	5836.7	6509.2	5551.7
70°	5455.8	4302.5	5088.3	6444.2	7936.7	8722.5	8084.2	5754.2	4965.0	5530.8	4721.7
72.5°	3644.2	2923.3	3616.7	5081.7	5980.8	6567.5	5860.8	4858.3	3338.3	3791.7	2978.3
75°	2202.5	1722.5	2175.0	3369.2	3890.8	4076.7	4333.3	3520.8	2385.0	2505.0	1873.3
77.5°	1207.5	919.2	1132.5	1743.3	1839.2	1949.2	2268.3	2450.0	1265.8	1304.2	960.8
80°	562.5	456.7	531.7	690.0	624.2	617.5	737.5	740.8	562.5	511.7	384.2
82.5°	233.3	192.5	209.2	243.3	223.3	188.3	220.0	226.7	215.8	175.0	150.8
85°	82.5	68.3	68.3	75.8	65.0	58.3	61.7	65.0	71.7	55.0	48.3
87.5°	6.7	3.3	3.3	6.7	3.3	3.3	3.3	3.3	3.3	3.3	6.7
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°	3317.5	3317.5	3317.5	3317.5	3317.5	3317.5	3317.5	3317.5	3317.5	3317.5
2.5°	3300.8	3294.2	3290.8	3287.5	3283.3	3276.7	3276.7	3276.7	3266.7	3266.7
5°	3270.0	3255.8	3252.5	3229.2	3208.3	3201.7	3197.5	3194.2	3187.5	3184.2
7.5°	3225.0	3215.0	3190.8	3177.5	3163.3	3153.3	3139.2	3132.5	3119.2	3115.8
10°	3235.8	3218.3	3197.5	3187.5	3170.8	3146.7	3122.5	3101.7	3080.8	3074.2
12.5°	3239.2	3229.2	3215.0	3194.2	3163.3	3132.5	3095.0	3057.5	3033.3	3033.3
15°	3252.5	3245.8	3232.5	3201.7	3163.3	3112.5	3057.5	3002.5	2975.0	2964.2
17.5°	3290.8	3283.3	3266.7	3232.5	3177.5	3115.8	3043.3	2985.0	2947.5	2944.2
20°	3341.7	3331.7	3307.5	3263.3	3201.7	3115.8	3046.7	2985.0	2940.8	2930.0
22.5°	3414.2	3396.7	3362.5	3304.2	3221.7	3125.8	3064.2	3012.5	2975.0	2957.5
25°	3485.8	3475.8	3435.0	3365.8	3249.2	3156.7	3091.7	3036.7	2988.3	2957.5
27.5°	3503.3	3493.3	3445.0	3355.8	3229.2	3135.8	3088.3	3019.2	2971.7	2964.2
30°	3493.3	3475.8	3435.0	3331.7	3208.3	3091.7	3019.2	2940.8	2875.0	2868.3
32.5°	3547.5	3510.0	3455.0	3341.7	3215.0	3085.0	2981.7	2882.5	2816.7	2806.7
35°	3620.0	3579.2	3520.8	3400.0	3260.0	3132.5	3009.2	2899.2	2813.3	2800.0
37.5°	3712.5	3664.2	3602.5	3472.5	3345.8	3205.0	3074.2	2944.2	2847.5	2834.2
40°	3880.8	3822.5	3733.3	3602.5	3482.5	3355.8	3232.5	3088.3	2957.5	2923.3
42.5°	4052.5	3990.8	3863.3	3709.2	3691.7	3547.5	3438.3	3287.5	3163.3	3129.2
45°	4326.7	4220.0	3997.5	3897.5	3832.5	3777.5	3791.7	3715.8	3654.2	3657.5
47.5°	4683.3	4563.3	4107.5	3908.3	4234.2	4124.2	3966.7	4021.7	4018.3	4062.5
50°	5215.8	4824.2	4652.5	4718.3	4440.0	4670.0	4485.0	4419.2	4391.7	4405.8
52.5°	5507.5	5099.2	4635.8	4642.5	4399.2	4360.8	4501.7	4535.8	4258.3	4247.5
55°	5843.3	5582.5	5067.5	4889.2	5075.0	4989.2	4645.8	4467.5	4130.8	4158.3
57.5°	5860.8	5585.8	6399.2	6653.3	5349.2	5767.5	5146.7	4635.8	3894.2	3952.5
60°	5325.0	5184.2	5256.7	6848.3	5569.2	4965.0	5507.5	4519.2	3908.3	4371.7
62.5°	5421.7	5538.3	5483.3	6165.8	5898.3	5939.2	6104.2	5091.7	4755.8	5483.3
65°	6110.8	5767.5	6265.0	7603.3	6794.2	6478.3	7023.3	6121.7	5668.3	7157.5
67.5°	6509.2	5836.7	6214.2	7761.7	8808.3	7799.2	6934.2	6097.5	5507.5	7061.7
70°	5530.8	4965.0	5754.2	8084.2	8722.5	7936.7	6444.2	5088.3	4302.5	5455.8
72.5°	3791.7	3338.3	4858.3	5860.8	6567.5	5980.8	5081.7	3616.7	2923.3	3644.2
75°	2505.0	2385.0	3520.8	4333.3	4076.7	3890.8	3369.2	2175.0	1722.5	2202.5
77.5°	1304.2	1265.8	2450.0	2268.3	1949.2	1839.2	1743.3	1132.5	919.2	1207.5
80°	511.7	562.5	740.8	737.5	617.5	624.2	690.0	531.7	456.7	562.5
82.5°	175.0	215.8	226.7	220.0	188.3	223.3	243.3	209.2	192.5	233.3
85°	55.0	71.7	65.0	61.7	58.3	65.0	75.8	68.3	68.3	82.5
87.5°	3.3	3.3	3.3	3.3	3.3	3.3	6.7	3.3	3.3	6.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)