

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P208575

Luminaire Tested: **XTOR12B-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P208575
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27811)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: XTOR12B-W
Description: CROSSTOUR 102W WALL MOUNT LED

Light Source: EATON LED 4000K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12538.9 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Luminous Opening: Rectangular (W 0.38' x L: 0.71' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

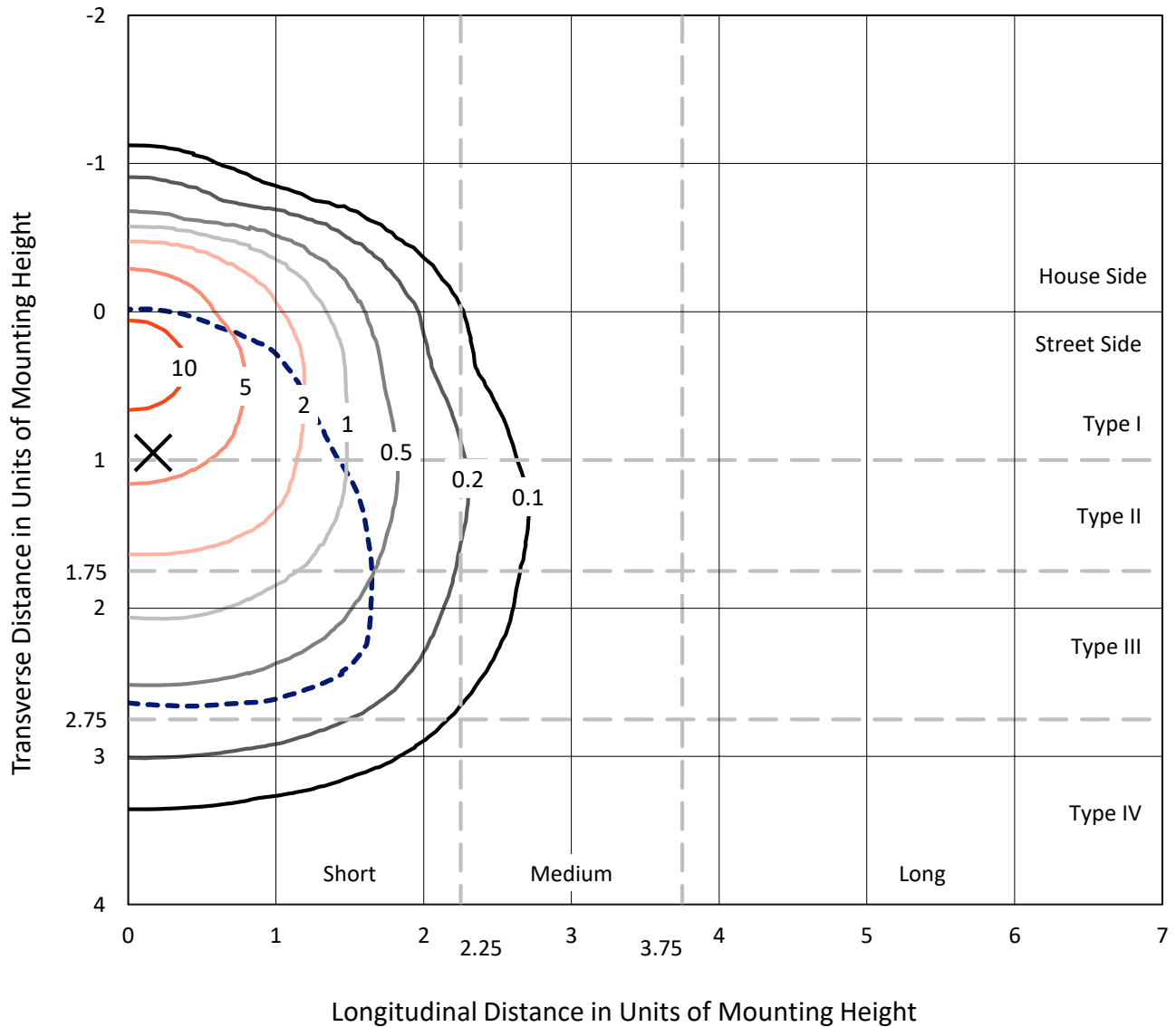
Input Watts (W): 102
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

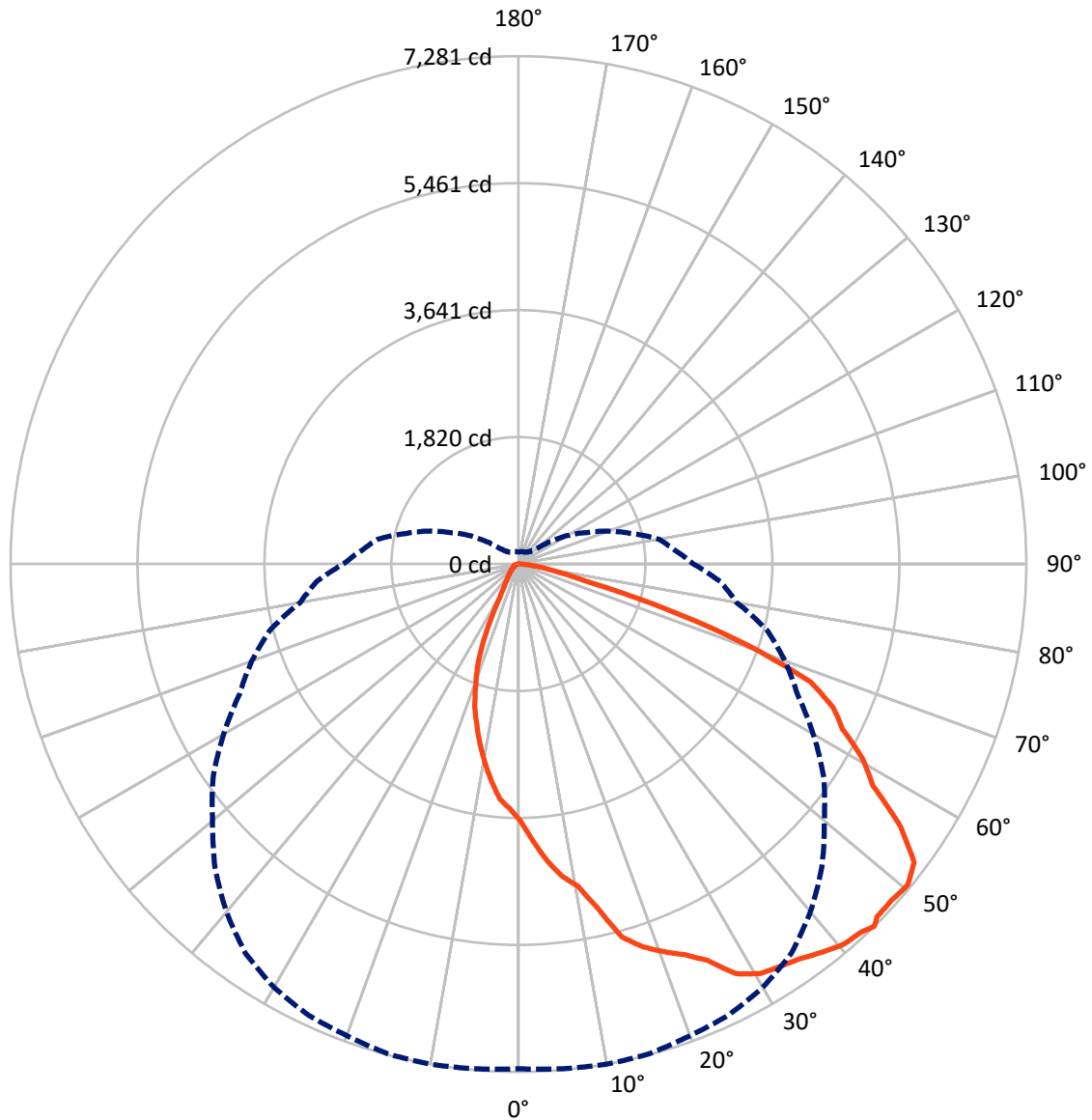
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.3 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 10-Deg Lateral - - - Horizontal Cone Through 44-Deg Vertical

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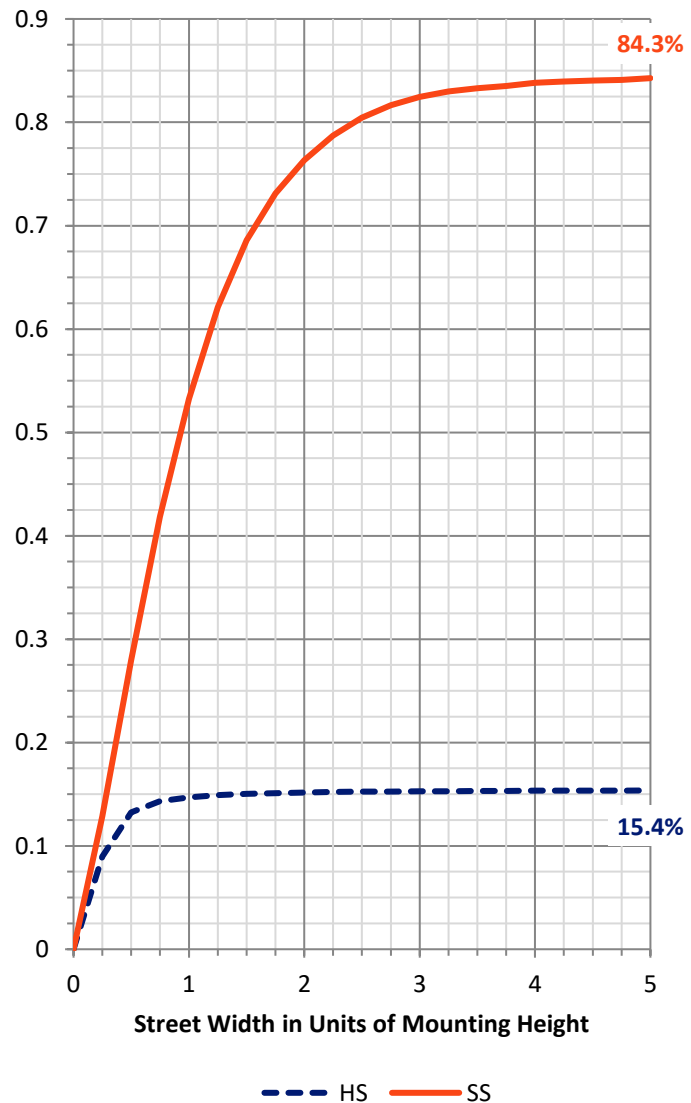
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1950.5	0.0	1950.5
	% Fixture	15.6	0.0	15.6
Street Side	Lumens	10588.4	0.0	10588.4
	% Fixture	84.4	0.0	84.4
Total	Lumens	12538.9	0.0	12538.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.4	2.9
10°-20°	1082.7	8.6
20°-30°	1701.8	13.6
30°-40°	2142.0	17.1
40°-50°	2436.7	19.4
50°-60°	2346.3	18.7
60°-70°	1743.0	13.9
70°-80°	655.0	5.2
80°-90°	69.8	0.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	12538.9	100.0
0°-180°	12538.9	100.0



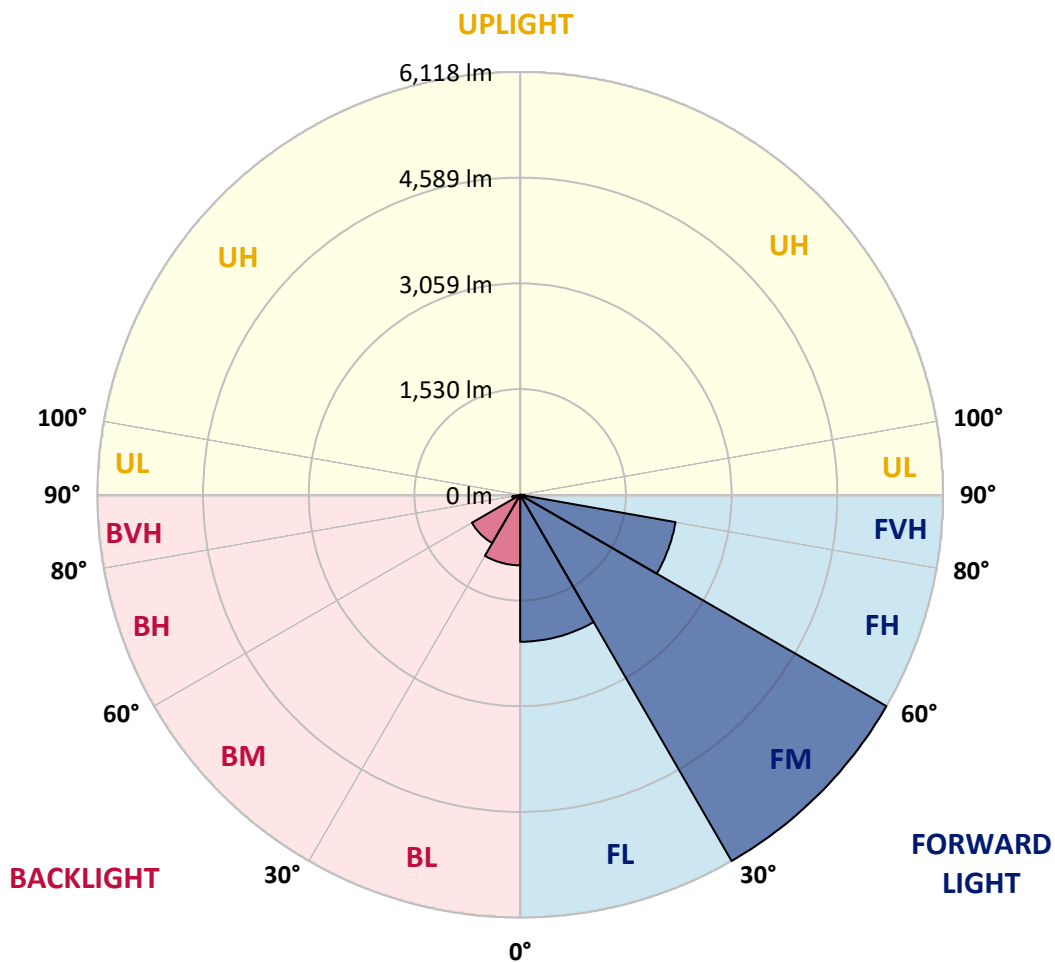
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2125.8	17.0			
FM	(30°-60°)	6118.3	48.8			
FH	(60°-80°)	2282.6	18.2			G2/5000
FVH	(80°-90°)	61.7	0.5			G1/100
BL	(0°-30°)	1020.1	8.1	B3/2500		
BM	(30°-60°)	806.8	6.4	B1/1000		
BH	(60°-80°)	115.4	0.9	B1/500		G1/500
BVH	(80°-90°)	8.2	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5
2.5°	3967.2	3991.8	3972.1	3970.1	3957.3	3970.1	3948.5	3929.7	3909.1	3896.2	3868.7
5°	4273.6	4290.3	4271.6	4269.6	4254.8	4252.9	4232.2	4208.5	4188.8	4176.0	4141.6
7.5°	4514.9	4514.9	4519.8	4524.8	4523.8	4520.8	4503.1	4459.8	4426.3	4376.0	4313.0
10°	4702.1	4708.0	4699.1	4692.2	4690.3	4667.6	4623.3	4573.0	4545.5	4524.8	4480.4
12.5°	5088.3	5106.0	5064.6	5028.2	4977.9	4912.9	4809.5	4753.3	4706.0	4642.0	4552.4
15°	5578.9	5587.7	5547.4	5513.9	5467.6	5375.9	5245.9	5137.5	4965.1	4802.6	4705.1
17.5°	5812.4	5796.6	5769.0	5760.1	5756.2	5726.6	5640.0	5531.6	5351.3	5151.3	4905.0
20°	5960.1	5949.3	5931.6	5908.9	5882.3	5846.8	5785.8	5721.7	5636.0	5460.7	5188.8
22.5°	6102.0	6082.3	6082.3	6061.6	6046.8	5997.6	5907.9	5821.2	5733.5	5625.2	5446.9
25°	6310.8	6303.0	6294.1	6277.3	6257.6	6173.9	6044.9	5994.6	5843.9	5694.1	5573.0
27.5°	6657.6	6638.9	6652.7	6613.3	6552.2	6385.7	6257.6	6178.8	5962.1	5821.2	5623.2
30°	6807.4	6791.6	6815.2	6791.6	6767.9	6681.3	6568.9	6351.2	6126.6	5908.9	5720.7
32.5°	6849.7	6854.6	6881.2	6877.3	6866.5	6779.8	6701.9	6561.1	6350.2	5999.5	5755.2
35°	6964.0	6962.0	6950.2	6928.5	6898.0	6820.2	6768.9	6627.1	6478.3	6195.6	5796.6
37.5°	7100.9	7079.3	7063.5	7036.9	7006.4	6911.8	6796.5	6633.0	6519.7	6277.3	5936.5
40°	7183.7	7168.9	7171.9	7181.7	7145.3	7009.3	6871.4	6678.3	6475.4	6281.3	5957.2
42.5°	7241.8	7220.1	7212.2	7227.0	7205.4	7093.0	6988.6	6745.3	6485.2	6212.3	5870.5
44°	7235.9	7263.5	7281.2	7266.4	7195.5	7133.4	7007.3	6817.2	6511.8	6153.2	5724.7
45°	7209.3	7197.5	7210.3	7240.8	7234.9	7118.7	7028.0	6822.1	6554.2	6150.3	5709.9
47.5°	7204.4	7202.4	7202.4	7189.6	7156.1	7057.6	7030.0	6816.2	6578.8	6108.9	5539.5
50°	7207.3	7224.1	7232.9	7189.6	7159.0	7033.0	6939.4	6726.6	6491.1	5989.7	5387.8
52.5°	7029.0	7054.6	7102.9	7131.5	7136.4	7071.4	6943.3	6654.7	6246.8	5767.0	5166.1
55°	6485.2	6513.8	6647.8	6767.9	6861.5	6920.6	6853.7	6588.7	6081.3	5419.3	4846.9
57.5°	5806.4	5848.8	5991.7	6138.4	6321.7	6431.0	6516.7	6324.6	5868.5	5202.6	4508.0
60°	5412.4	5501.1	5669.5	5752.3	5798.6	5909.9	5951.3	5821.2	5514.8	4975.0	4276.5
62.5°	4907.0	5026.2	5214.4	5314.9	5476.4	5492.2	5455.7	5301.1	4987.8	4538.6	3930.7
65°	4741.5	4830.2	4960.2	5024.2	5001.6	4889.3	4892.2	4852.8	4521.8	3960.3	3454.9
67.5°	4284.4	4373.1	4517.9	4607.5	4671.6	4631.2	4523.8	4277.5	3896.2	3447.0	2903.2
70°	3319.9	3387.9	3488.4	3579.0	3768.2	3830.2	3890.3	3727.8	3295.3	2755.5	2354.5
72.5°	2134.8	2160.4	2234.3	2321.0	2525.9	2638.2	2772.2	2720.0	2498.3	2184.1	1868.8
75°	984.2	994.0	1045.2	1065.9	1219.6	1359.5	1502.3	1555.5	1494.5	1434.4	1368.4
77.5°	611.8	619.7	638.4	647.2	685.7	712.3	744.8	704.4	683.7	649.2	735.9
80°	390.1	393.1	400.0	416.7	442.3	461.0	485.7	453.2	396.0	341.8	322.1
82.5°	230.5	233.5	239.4	241.4	262.0	276.8	291.6	274.9	230.5	196.0	172.4
85°	116.2	115.3	115.3	122.2	130.0	136.9	141.9	136.9	111.3	98.5	79.8
87.5°	30.5	29.6	29.6	28.6	33.5	39.4	38.4	39.4	31.5	28.6	23.6
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5
2.5°	3851.9	3839.1	3821.4	3802.7	3771.1	3740.6	3712.0	3675.6	3645.0	3630.3	3613.5
5°	4095.2	4035.2	3954.4	3894.3	3842.1	3809.6	3744.5	3690.4	3638.1	3621.4	3605.6
7.5°	4244.0	4193.8	4132.7	4046.0	3911.0	3831.2	3769.2	3690.4	3623.4	3600.7	3548.5
10°	4396.7	4317.9	4213.5	4123.8	4007.6	3851.9	3763.3	3668.7	3583.0	3549.5	3476.6
12.5°	4509.0	4439.1	4317.9	4183.9	4065.7	3907.1	3757.3	3649.0	3547.5	3494.3	3432.2
15°	4612.4	4497.2	4423.3	4276.5	4111.0	3964.2	3752.4	3630.3	3514.0	3440.1	3392.8
17.5°	4688.3	4589.8	4445.0	4337.6	4151.4	3978.0	3743.6	3591.8	3464.8	3369.2	3306.1
20°	4907.0	4626.2	4498.2	4337.6	4175.0	3965.2	3725.8	3524.8	3384.0	3284.5	3172.2
22.5°	5163.1	4818.3	4495.2	4321.8	4168.1	3936.6	3679.5	3440.1	3275.6	3182.0	3031.3
25°	5373.0	5031.1	4597.7	4323.8	4111.0	3892.3	3614.5	3339.6	3158.4	3071.7	2898.3
27.5°	5466.6	5196.6	4734.6	4266.7	4049.9	3835.2	3525.8	3227.3	3029.3	2938.7	2737.7
30°	5449.8	5267.6	4861.7	4336.6	3996.7	3753.4	3426.3	3101.2	2895.3	2789.9	2560.4
32.5°	5494.2	5192.7	4900.1	4374.0	3861.8	3645.0	3342.6	2974.2	2781.1	2648.1	2400.8
35°	5471.5	5169.1	4865.6	4415.4	3831.2	3551.4	3267.7	2874.7	2672.7	2516.1	2249.1
37.5°	5464.6	5085.3	4716.9	4404.6	3831.2	3484.5	3177.1	2785.0	2565.3	2393.9	2102.3
40°	5520.8	5025.2	4650.9	4366.2	3809.6	3349.5	3074.6	2687.5	2451.0	2265.8	1939.8
42.5°	5468.5	4950.4	4488.3	4157.3	3737.6	3221.4	2971.2	2576.2	2326.9	2126.9	1788.0
44°	5345.4	4881.4	4410.5	4066.7	3693.3	3175.1	2905.2	2506.2	2253.0	2046.1	1683.6
45°	5301.1	4818.3	4322.8	3987.9	3672.6	3135.7	2858.9	2458.9	2198.8	1987.0	1626.5
47.5°	5043.0	4613.4	4181.0	3777.0	3478.5	2988.9	2712.1	2314.1	2026.4	1805.8	1438.3
50°	4772.0	4312.0	3958.3	3516.0	3225.4	2840.2	2508.2	2148.6	1834.3	1591.0	1229.5
52.5°	4558.3	4010.5	3628.3	3252.0	2937.7	2636.2	2277.7	1942.7	1611.7	1360.5	1018.6
55°	4309.0	3723.8	3262.8	2935.7	2645.1	2365.3	2011.7	1678.7	1382.2	1130.9	821.6
57.5°	3922.8	3420.4	2933.8	2541.7	2259.9	1998.9	1655.0	1394.0	1129.0	903.4	650.2
60°	3578.0	3054.9	2626.4	2175.2	1802.8	1548.6	1278.7	1108.3	886.6	700.4	493.6
62.5°	3343.6	2744.6	2285.5	1869.8	1456.0	1189.1	998.9	888.6	691.6	541.8	368.4
65°	2945.6	2487.5	1999.8	1564.4	1219.6	888.6	777.3	695.5	539.9	415.7	278.8
67.5°	2472.7	2105.3	1728.9	1327.0	993.0	676.8	591.1	517.2	411.8	314.3	208.9
70°	1976.2	1708.2	1413.7	1056.1	779.2	533.9	428.5	362.5	316.2	235.4	156.6
72.5°	1542.7	1334.9	1149.7	803.9	579.3	397.0	297.5	252.2	233.5	173.4	119.2
75°	1257.0	1084.6	907.3	669.9	413.8	278.8	185.2	167.5	168.5	124.1	89.6
77.5°	795.0	810.8	685.7	507.3	334.0	174.4	109.4	93.6	109.4	88.7	65.0
80°	321.2	334.9	341.8	268.0	174.4	87.7	49.3	44.3	58.1	58.1	45.3
82.5°	160.6	140.9	118.2	107.4	69.9	38.4	29.6	27.6	29.6	33.5	28.6
85°	73.9	63.0	47.3	36.5	26.6	20.7	17.7	16.7	16.7	17.7	16.7
87.5°	22.7	19.7	16.7	15.8	14.8	13.8	12.8	12.8	12.8	12.8	11.8
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5
2.5°	3598.7	3597.7	3587.9	3583.0	3565.2	3552.4	3538.6	3525.8	3524.8	3500.2	3509.1
5°	3570.2	3538.6	3510.1	3497.3	3483.5	3486.4	3473.6	3449.0	3441.1	3400.7	3394.8
7.5°	3499.2	3478.5	3469.7	3430.3	3374.1	3334.7	3305.2	3268.7	3245.1	3188.9	3164.3
10°	3450.0	3413.5	3344.6	3283.5	3223.4	3148.5	3088.4	3045.1	3002.7	2956.4	2922.9
12.5°	3393.8	3298.3	3231.3	3121.9	3047.1	2975.1	2898.3	2830.3	2776.1	2718.0	2676.6
15°	3291.4	3199.8	3073.7	2984.0	2875.6	2784.0	2687.5	2611.6	2543.6	2488.5	2451.0
17.5°	3188.9	3041.1	2926.9	2800.8	2682.6	2577.1	2466.8	2390.9	2327.9	2262.9	2225.4
20°	3042.1	2888.4	2740.7	2588.0	2470.7	2349.6	2267.8	2180.1	2096.4	1992.0	1929.9
22.5°	2862.8	2703.2	2542.7	2379.1	2258.9	2159.4	2046.1	1917.1	1808.7	1717.1	1657.0
25°	2705.2	2513.1	2339.7	2184.1	2062.9	1924.0	1771.3	1650.1	1563.4	1454.1	1350.6
27.5°	2524.9	2312.1	2132.8	1989.0	1823.5	1637.3	1527.0	1399.9	1254.1	1097.5	973.3
30°	2333.8	2113.1	1928.9	1765.4	1551.6	1398.9	1235.4	1065.9	899.4	740.8	635.4
32.5°	2149.6	1920.0	1741.7	1521.1	1322.1	1142.8	917.2	724.1	589.1	491.6	438.4
35°	1984.1	1744.7	1527.0	1290.5	1081.7	850.2	625.6	477.8	407.9	374.4	351.7
37.5°	1820.5	1581.2	1295.5	1093.5	829.5	591.1	418.7	345.8	322.1	309.3	295.5
40°	1649.1	1392.0	1112.2	879.7	600.9	401.9	310.3	278.8	266.0	256.1	244.3
42.5°	1480.7	1186.1	934.9	672.9	418.7	298.5	253.2	230.5	217.7	211.8	204.9
44°	1379.2	1065.9	817.7	561.5	344.8	262.0	227.6	206.9	197.0	191.1	187.2
45°	1313.2	991.1	747.7	494.5	308.4	242.3	211.8	194.1	185.2	179.3	175.4
47.5°	1129.0	830.5	584.2	360.6	245.3	204.9	181.3	167.5	159.6	153.7	149.7
50°	925.1	680.7	445.3	274.9	204.9	176.3	158.6	146.8	138.9	134.0	130.0
52.5°	728.0	538.9	333.0	219.7	176.3	154.7	138.9	128.1	122.2	118.2	115.3
55°	572.4	413.8	248.3	181.3	151.7	136.0	122.2	113.3	108.4	106.4	103.4
57.5°	454.2	311.3	193.1	150.7	132.0	118.2	108.4	101.5	97.5	94.6	91.6
60°	349.7	231.5	152.7	128.1	114.3	104.4	96.5	90.6	86.7	84.7	82.8
62.5°	262.0	172.4	128.1	109.4	98.5	92.6	85.7	80.8	77.8	76.8	75.9
65°	197.0	131.0	106.4	93.6	85.7	80.8	75.9	72.9	70.9	69.0	69.0
67.5°	150.7	103.4	88.7	81.8	73.9	69.9	68.0	65.0	64.0	62.1	61.1
70°	115.3	83.7	74.9	69.0	64.0	61.1	60.1	58.1	56.2	55.2	54.2
72.5°	89.6	69.0	62.1	58.1	54.2	53.2	52.2	50.2	49.3	48.3	48.3
75°	69.0	55.2	51.2	47.3	46.3	44.3	44.3	43.3	42.4	42.4	42.4
77.5°	51.2	43.3	40.4	38.4	36.5	36.5	36.5	36.5	35.5	35.5	35.5
80°	37.4	32.5	30.5	28.6	28.6	28.6	28.6	28.6	27.6	28.6	27.6
82.5°	24.6	21.7	20.7	20.7	20.7	20.7	20.7	19.7	18.7	19.7	18.7
85°	14.8	13.8	13.8	12.8	12.8	11.8	11.8	11.8	10.8	10.8	10.8
87.5°	10.8	10.8	9.9	9.9	8.9	8.9	7.9	7.9	6.9	5.9	4.9
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):

	165°	170°	175°	180°
0°	3683.5	3683.5	3683.5	3683.5
2.5°	3508.1	3510.1	3501.2	3501.2
5°	3387.9	3381.0	3366.2	3373.1
7.5°	3145.6	3144.6	3118.0	3129.8
10°	2896.3	2892.4	2868.7	2881.5
12.5°	2647.1	2639.2	2616.5	2629.4
15°	2396.9	2379.1	2369.3	2379.1
17.5°	2171.3	2142.7	2133.8	2128.9
20°	1856.0	1825.5	1815.6	1807.7
22.5°	1593.0	1556.5	1542.7	1526.0
25°	1251.1	1194.0	1167.4	1138.8
27.5°	868.9	806.8	779.2	749.7
30°	558.6	522.1	506.4	490.6
32.5°	406.9	390.1	384.2	378.3
35°	336.9	326.1	322.1	317.2
37.5°	282.7	272.9	268.0	264.0
40°	235.4	228.6	223.6	220.7
42.5°	200.0	196.0	192.1	190.1
44°	183.2	179.3	175.4	172.4
45°	171.4	168.5	164.5	162.5
47.5°	146.8	144.8	142.8	140.9
50°	128.1	128.1	126.1	124.1
52.5°	114.3	114.3	112.3	112.3
55°	102.5	101.5	100.5	99.5
57.5°	90.6	89.6	88.7	88.7
60°	81.8	81.8	80.8	80.8
62.5°	74.9	74.9	72.9	72.9
65°	67.0	67.0	66.0	66.0
67.5°	61.1	60.1	59.1	59.1
70°	54.2	53.2	52.2	52.2
72.5°	48.3	47.3	46.3	46.3
75°	42.4	41.4	40.4	40.4
77.5°	35.5	35.5	34.5	33.5
80°	27.6	27.6	26.6	26.6
82.5°	18.7	18.7	17.7	16.7
85°	10.8	10.8	9.9	9.9
87.5°	4.9	3.9	3.9	3.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)