

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: P218820

Luminaire Tested: **XTOR12B-Y**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218820
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-Y
Description: CROSSTOUR WALL MOUNT LED

Light Source: EATON LED 3000K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11861 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Luminous Opening: Rectangular (W 0.38' x L: 0.71' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

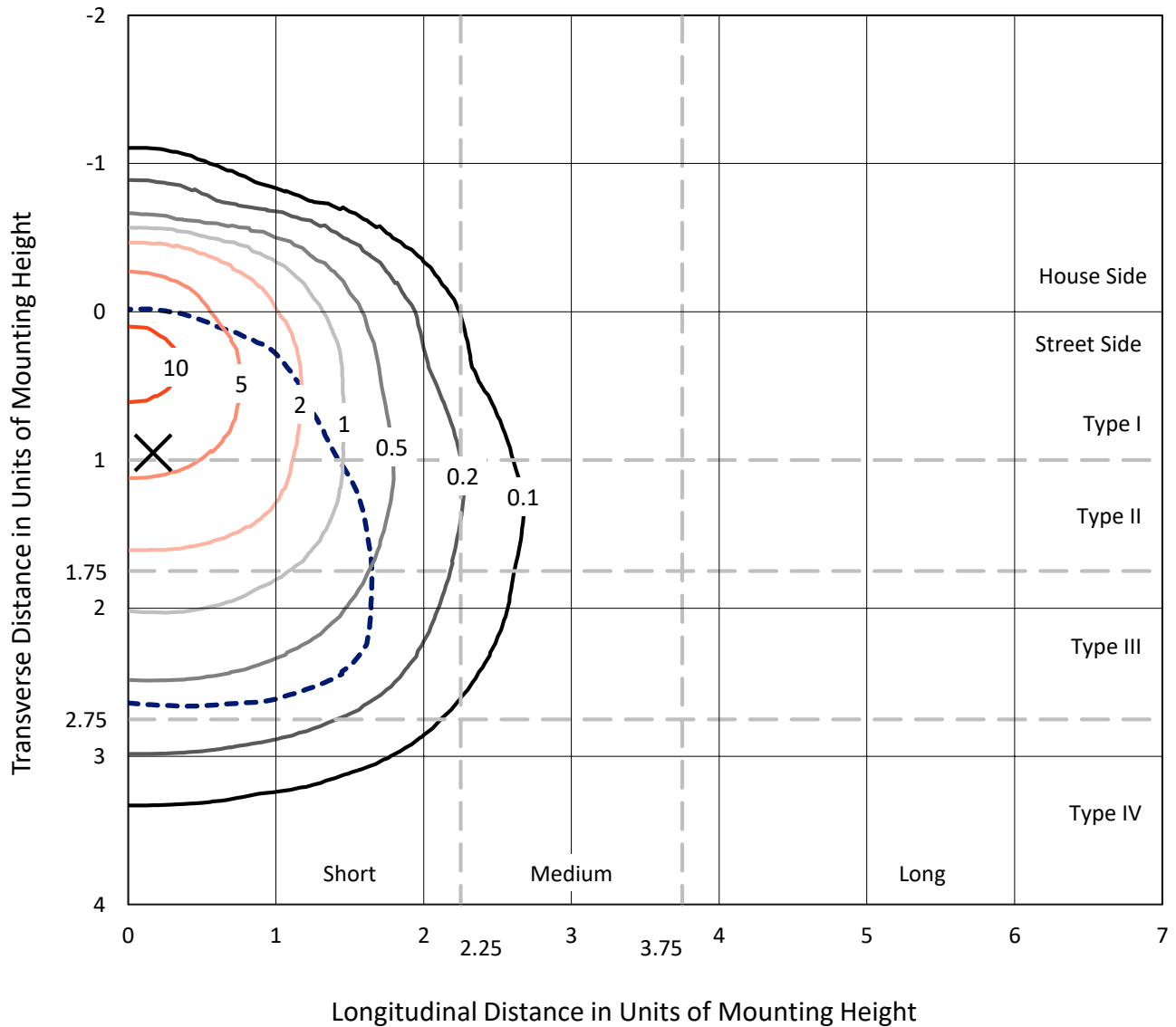
Input Watts (W): 102
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

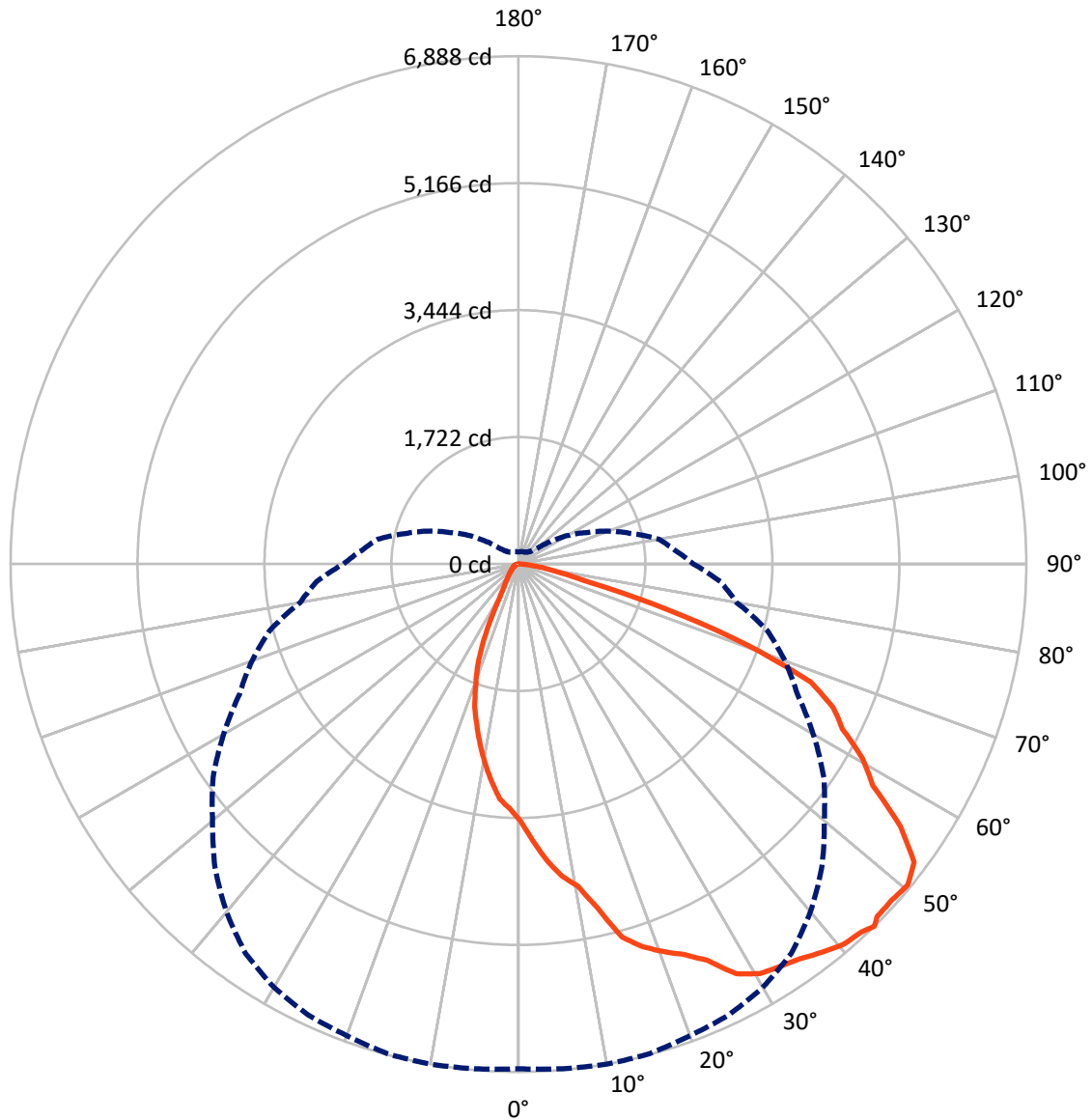
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.6 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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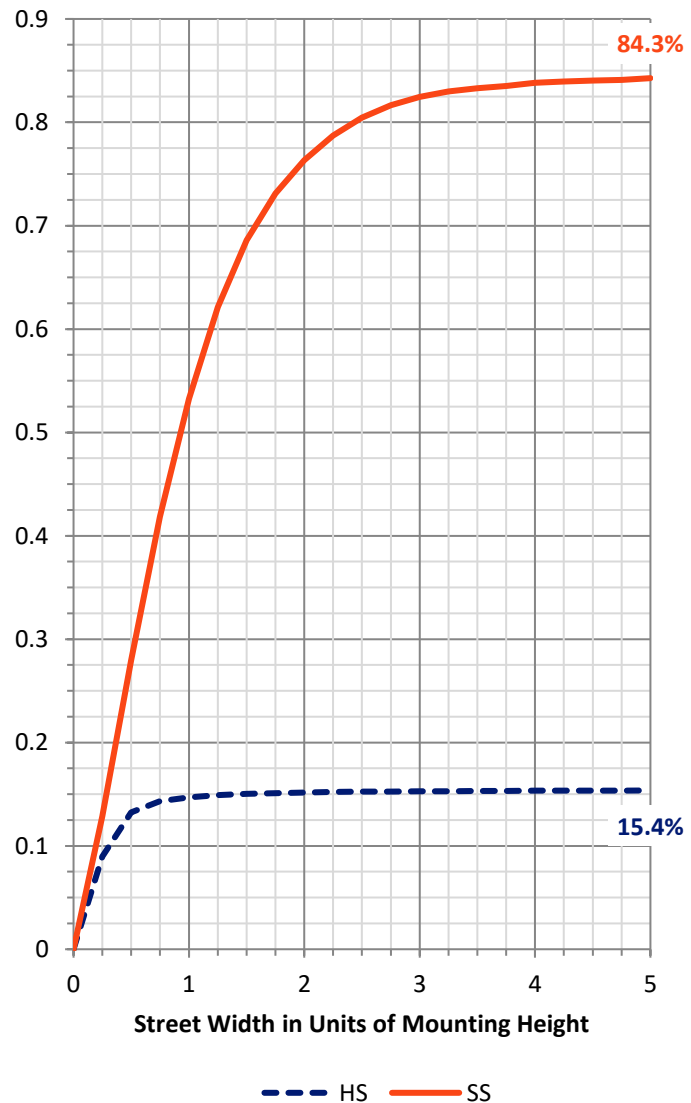
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1845.0	0.0	1845.0
	% Fixture	15.6	0.0	15.6
Street Side	Lumens	10016.0	0.0	10016.0
	% Fixture	84.4	0.0	84.4
Total	Lumens	11861.0	0.0	11861.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.9	2.9
10°-20°	1024.2	8.6
20°-30°	1609.8	13.6
30°-40°	2026.2	17.1
40°-50°	2305.0	19.4
50°-60°	2219.5	18.7
60°-70°	1648.8	13.9
70°-80°	619.5	5.2
80°-90°	66.1	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°	11861.0	100.0
0°-180°	11861.0	100.0



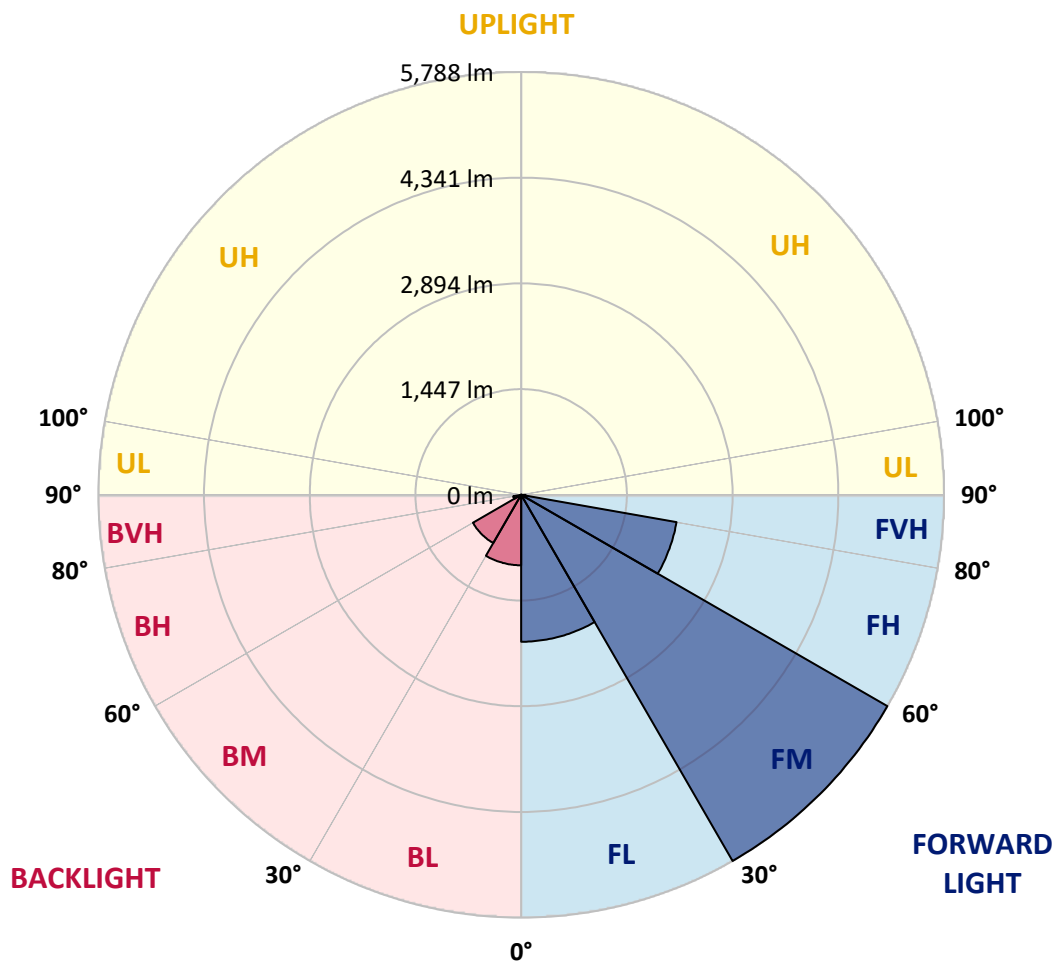
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2010.9	17.0			
FM (30°-60°)	5787.5	48.8			
FH (60°-80°)	2159.2	18.2			G2/5000
FVH (80°-90°)	58.3	0.5			G1/100
BL (0°-30°)	965.0	8.1	B2/1000		
BM (30°-60°)	763.1	6.4	B1/1000		
BH (60°-80°)	109.2	0.9	B0/110		G0/110
BVH (80°-90°)	7.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3484.3	3484.3	3484.3	3484.3	3484.3	3484.3	3484.3	3484.3	3484.3	3484.3	3484.3
2.5°	3752.7	3776.0	3757.4	3755.5	3743.4	3755.5	3735.0	3717.3	3697.7	3685.6	3659.5
5°	4042.5	4058.4	4040.7	4038.8	4024.8	4023.0	4003.4	3981.0	3962.4	3950.3	3917.7
7.5°	4270.8	4270.8	4275.5	4280.2	4279.2	4276.4	4259.7	4218.7	4187.0	4139.4	4079.8
10°	4447.9	4453.5	4445.1	4438.6	4436.7	4415.3	4373.4	4325.8	4299.7	4280.2	4238.2
12.5°	4813.2	4830.0	4790.8	4756.4	4708.8	4647.3	4549.5	4496.4	4451.6	4391.1	4306.3
15°	5277.3	5285.7	5247.5	5215.8	5172.0	5085.3	4962.3	4859.8	4696.7	4543.0	4450.7
17.5°	5498.1	5483.2	5457.1	5448.7	5445.0	5417.1	5335.1	5232.6	5062.0	4872.8	4639.9
20°	5637.9	5627.7	5610.9	5589.5	5564.3	5530.8	5473.0	5412.4	5331.3	5165.5	4908.3
22.5°	5772.1	5753.5	5753.5	5733.9	5719.9	5673.3	5588.5	5506.5	5423.6	5321.1	5152.4
25°	5969.7	5962.2	5953.8	5938.0	5919.4	5840.1	5718.1	5670.5	5528.0	5386.3	5271.7
27.5°	6297.7	6280.0	6293.0	6255.8	6198.0	6040.5	5919.4	5844.8	5639.8	5506.5	5319.2
30°	6439.3	6424.4	6446.8	6424.4	6402.1	6320.1	6213.8	6007.9	5795.4	5589.5	5411.5
32.5°	6479.4	6484.1	6509.2	6505.5	6495.3	6413.3	6339.6	6206.4	6007.0	5675.2	5444.1
35°	6587.5	6585.7	6574.5	6554.0	6525.1	6451.5	6403.0	6268.8	6128.1	5860.6	5483.2
37.5°	6717.0	6696.5	6681.6	6656.5	6627.6	6538.1	6429.1	6274.4	6167.2	5938.0	5615.6
40°	6795.3	6781.3	6784.1	6793.5	6759.0	6630.4	6499.9	6317.3	6125.3	5941.7	5635.1
42.5°	6850.3	6829.8	6822.4	6836.3	6815.8	6709.6	6610.8	6380.6	6134.6	5876.5	5553.1
44°	6844.7	6870.8	6887.6	6873.6	6806.5	6747.8	6628.5	6448.7	6159.8	5820.6	5415.2
45°	6819.6	6808.4	6820.5	6849.4	6843.8	6733.8	6648.1	6453.3	6199.9	5817.8	5401.2
47.5°	6814.9	6813.0	6813.0	6800.9	6769.2	6676.0	6650.0	6447.7	6223.1	5778.6	5240.0
50°	6817.7	6833.5	6841.9	6800.9	6772.0	6652.7	6564.2	6362.9	6140.2	5665.9	5096.5
52.5°	6649.0	6673.3	6718.9	6745.9	6750.6	6689.1	6567.9	6294.9	5909.1	5455.3	4886.8
55°	6134.6	6161.6	6288.4	6402.1	6490.6	6546.5	6483.1	6232.5	5752.5	5126.3	4584.9
57.5°	5492.5	5532.6	5667.7	5806.6	5979.9	6083.4	6164.4	5982.7	5551.3	4921.3	4264.3
60°	5119.8	5203.7	5363.0	5441.3	5485.1	5590.4	5629.5	5506.5	5216.7	4706.0	4045.3
62.5°	4641.7	4754.5	4932.5	5027.5	5180.4	5195.3	5160.8	5014.5	4718.1	4293.2	3718.2
65°	4485.2	4569.0	4692.1	4752.6	4731.2	4625.0	4627.8	4590.5	4277.4	3746.2	3268.1
67.5°	4052.8	4136.7	4273.6	4358.4	4419.0	4380.8	4279.2	4046.3	3685.6	3260.7	2746.3
70°	3140.5	3204.8	3299.8	3385.5	3564.5	3623.2	3680.0	3526.3	3117.2	2606.5	2227.2
72.5°	2019.4	2043.6	2113.5	2195.5	2389.4	2495.6	2622.3	2572.9	2363.3	2066.0	1767.8
75°	931.0	940.3	988.7	1008.3	1153.7	1286.0	1421.1	1471.5	1413.7	1356.8	1294.4
77.5°	578.7	586.2	603.9	612.3	648.6	673.8	704.5	666.3	646.7	614.1	696.1
80°	369.0	371.8	378.3	394.2	418.4	436.1	459.4	428.7	374.6	323.4	304.7
82.5°	218.1	220.9	226.4	228.3	247.9	261.9	275.8	260.0	218.1	185.4	163.1
85°	110.0	109.0	109.0	115.6	123.0	129.5	134.2	129.5	105.3	93.2	75.5
87.5°	28.9	28.0	28.0	27.0	31.7	37.3	36.3	37.3	29.8	27.0	22.4
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°	3484.3	3484.3	3484.3	3484.3	3484.3	3484.3	3484.3	3484.3	3484.3	3484.3	3484.3
2.5°	3643.7	3631.6	3614.8	3597.1	3567.3	3538.4	3511.4	3476.9	3448.0	3434.0	3418.2
5°	3873.9	3817.0	3740.6	3683.8	3634.4	3603.6	3542.1	3490.9	3441.5	3425.6	3410.7
7.5°	4014.6	3967.0	3909.3	3827.3	3699.6	3624.1	3565.4	3490.9	3427.5	3406.1	3356.7
10°	4159.0	4084.5	3985.7	3900.9	3790.9	3643.7	3559.8	3470.4	3389.3	3357.6	3288.6
12.5°	4265.3	4199.1	4084.5	3957.7	3845.9	3695.9	3554.2	3451.7	3355.7	3305.4	3246.7
15°	4363.1	4254.1	4184.2	4045.3	3888.8	3749.9	3549.6	3434.0	3324.0	3254.2	3209.4
17.5°	4434.9	4341.7	4204.7	4103.1	3927.0	3763.0	3541.2	3397.7	3277.5	3187.1	3127.4
20°	4641.7	4376.1	4255.0	4103.1	3949.3	3750.8	3524.4	3334.3	3201.0	3106.9	3000.7
22.5°	4884.0	4557.9	4252.2	4088.2	3942.8	3723.8	3480.6	3254.2	3098.5	3010.0	2867.4
25°	5082.5	4759.2	4349.1	4090.1	3888.8	3681.9	3419.1	3159.1	2987.6	2905.6	2741.6
27.5°	5171.0	4915.7	4478.7	4036.0	3831.0	3627.8	3335.2	3052.9	2865.6	2779.8	2589.7
30°	5155.2	4982.8	4598.9	4102.2	3780.7	3550.5	3241.1	2933.6	2738.8	2639.1	2422.0
32.5°	5197.1	4912.0	4635.2	4137.6	3653.0	3448.0	3161.9	2813.4	2630.7	2504.9	2271.0
35°	5175.7	4889.6	4602.6	4176.7	3624.1	3359.5	3091.1	2719.2	2528.2	2380.0	2127.5
37.5°	5169.2	4810.4	4461.9	4166.5	3624.1	3296.1	3005.3	2634.4	2426.6	2264.5	1988.6
40°	5222.3	4753.6	4399.4	4130.1	3603.6	3168.4	2908.4	2542.2	2318.5	2143.3	1834.9
42.5°	5172.9	4682.7	4245.7	3932.6	3535.6	3047.3	2810.6	2436.9	2201.1	2011.9	1691.4
44°	5056.4	4617.5	4172.1	3846.8	3493.6	3003.5	2748.1	2370.7	2131.2	1935.5	1592.6
45°	5014.5	4557.9	4089.1	3772.3	3474.1	2966.2	2704.3	2326.0	2080.0	1879.6	1538.5
47.5°	4770.3	4364.0	3954.9	3572.9	3290.5	2827.3	2565.5	2189.0	1916.9	1708.2	1360.6
50°	4514.1	4078.9	3744.3	3325.9	3051.0	2686.6	2372.6	2032.4	1735.2	1505.0	1163.0
52.5°	4311.8	3793.7	3432.1	3076.2	2778.9	2493.7	2154.5	1837.7	1524.6	1286.9	963.6
55°	4076.1	3522.5	3086.4	2777.0	2502.1	2237.5	1902.9	1587.9	1307.4	1069.8	777.2
57.5°	3710.8	3235.5	2775.2	2404.3	2137.8	1890.8	1565.6	1318.6	1067.9	854.5	615.0
60°	3384.6	2889.8	2484.4	2057.6	1705.4	1464.9	1209.6	1048.4	838.7	662.6	466.9
62.5°	3162.8	2596.2	2162.0	1768.7	1377.3	1124.8	944.9	840.6	654.2	512.5	348.5
65°	2786.3	2353.0	1891.7	1479.8	1153.7	840.6	735.3	657.9	510.7	393.3	263.7
67.5°	2339.0	1991.4	1635.5	1255.3	939.3	640.2	559.1	489.2	389.5	297.3	197.6
70°	1869.4	1615.9	1337.3	999.0	737.1	505.1	405.4	342.9	299.1	222.7	148.2
72.5°	1459.3	1262.7	1087.5	760.4	548.0	375.6	281.4	238.6	220.9	164.0	112.8
75°	1189.1	1026.0	858.3	633.7	391.4	263.7	175.2	158.4	159.4	117.4	84.8
77.5°	752.0	766.9	648.6	479.9	315.9	164.9	103.4	88.5	103.4	83.9	61.5
80°	303.8	316.8	323.4	253.5	164.9	82.9	46.6	41.9	55.0	55.0	42.9
82.5°	151.9	133.3	111.8	101.6	66.2	36.3	28.0	26.1	28.0	31.7	27.0
85°	69.9	59.6	44.7	34.5	25.2	19.6	16.8	15.8	15.8	16.8	15.8
87.5°	21.4	18.6	15.8	14.9	14.0	13.0	12.1	12.1	12.1	12.1	11.2
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°	3484.3	3484.3	3484.3	3484.3	3484.3	3484.3	3484.3	3484.3	3484.3	3484.3	3484.3
2.5°	3404.2	3403.3	3393.9	3389.3	3372.5	3360.4	3347.3	3335.2	3334.3	3311.0	3319.4
5°	3377.2	3347.3	3320.3	3308.2	3295.2	3298.0	3285.8	3262.5	3255.1	3216.9	3211.3
7.5°	3310.1	3290.5	3282.1	3244.8	3191.7	3154.4	3126.5	3092.0	3069.6	3016.5	2993.2
10°	3263.5	3229.0	3163.8	3106.0	3049.1	2978.3	2921.5	2880.5	2840.4	2796.6	2764.9
12.5°	3210.4	3120.0	3056.6	2953.2	2882.3	2814.3	2741.6	2677.3	2626.1	2571.1	2531.9
15°	3113.4	3026.8	2907.5	2822.7	2720.2	2633.5	2542.2	2470.4	2406.1	2353.9	2318.5
17.5°	3016.5	2876.7	2768.6	2649.4	2537.5	2437.8	2333.4	2261.7	2202.1	2140.5	2105.1
20°	2877.7	2732.3	2592.5	2448.1	2337.2	2222.6	2145.2	2062.3	1983.1	1884.3	1825.6
22.5°	2708.1	2557.1	2405.2	2250.5	2136.8	2042.7	1935.5	1813.5	1710.9	1624.3	1567.4
25°	2559.0	2377.2	2213.2	2066.0	1951.4	1820.0	1675.5	1560.9	1478.9	1375.5	1277.6
27.5°	2388.4	2187.1	2017.5	1881.5	1724.9	1548.8	1444.4	1324.2	1186.3	1038.1	920.7
30°	2207.6	1998.9	1824.6	1669.9	1467.7	1323.3	1168.6	1008.3	850.8	700.8	601.1
32.5°	2033.4	1816.2	1647.6	1438.8	1250.6	1081.0	867.6	684.9	557.3	465.0	414.7
35°	1876.8	1650.4	1444.4	1220.8	1023.2	804.2	591.7	452.0	385.8	354.1	332.7
37.5°	1722.1	1495.7	1225.4	1034.4	784.6	559.1	396.1	327.1	304.7	292.6	279.6
40°	1560.0	1316.8	1052.1	832.2	568.5	380.2	293.5	263.7	251.6	242.3	231.1
42.5°	1400.6	1122.0	884.4	636.5	396.1	282.4	239.5	218.1	205.9	200.4	193.8
44°	1304.6	1008.3	773.5	531.2	326.2	247.9	215.3	195.7	186.4	180.8	177.1
45°	1242.2	937.5	707.3	467.8	291.7	229.2	200.4	183.6	175.2	169.6	165.9
47.5°	1067.9	785.6	552.6	341.1	232.0	193.8	171.5	158.4	151.0	145.4	141.6
50°	875.0	643.9	421.2	260.0	193.8	166.8	150.0	138.9	131.4	126.7	123.0
52.5°	688.7	509.7	315.0	207.8	166.8	146.3	131.4	121.1	115.6	111.8	109.0
55°	541.4	391.4	234.8	171.5	143.5	128.6	115.6	107.2	102.5	100.6	97.8
57.5°	429.6	294.5	182.7	142.6	124.9	111.8	102.5	96.0	92.3	89.5	86.7
60°	330.8	219.0	144.4	121.1	108.1	98.8	91.3	85.7	82.0	80.1	78.3
62.5°	247.9	163.1	121.1	103.4	93.2	87.6	81.1	76.4	73.6	72.7	71.8
65°	186.4	123.9	100.6	88.5	81.1	76.4	71.8	69.0	67.1	65.2	65.2
67.5°	142.6	97.8	83.9	77.3	69.9	66.2	64.3	61.5	60.6	58.7	57.8
70°	109.0	79.2	70.8	65.2	60.6	57.8	56.8	55.0	53.1	52.2	51.3
72.5°	84.8	65.2	58.7	55.0	51.3	50.3	49.4	47.5	46.6	45.7	45.7
75°	65.2	52.2	48.5	44.7	43.8	41.9	41.9	41.0	40.1	40.1	40.1
77.5°	48.5	41.0	38.2	36.3	34.5	34.5	34.5	34.5	33.5	33.5	33.5
80°	35.4	30.8	28.9	27.0	27.0	27.0	27.0	27.0	26.1	27.0	26.1
82.5°	23.3	20.5	19.6	19.6	19.6	19.6	19.6	18.6	17.7	18.6	17.7
85°	14.0	13.0	13.0	12.1	12.1	11.2	11.2	11.2	10.3	10.3	10.3
87.5°	10.3	10.3	9.3	9.3	8.4	8.4	7.5	7.5	6.5	5.6	4.7
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):

	165°	170°	175°	180°
0°	3484.3	3484.3	3484.3	3484.3
2.5°	3318.5	3320.3	3311.9	3311.9
5°	3204.8	3198.2	3184.3	3190.8
7.5°	2975.5	2974.6	2949.4	2960.6
10°	2739.8	2736.0	2713.7	2725.8
12.5°	2504.0	2496.5	2475.1	2487.2
15°	2267.3	2250.5	2241.2	2250.5
17.5°	2053.9	2026.9	2018.5	2013.8
20°	1755.7	1726.8	1717.5	1710.0
22.5°	1506.9	1472.4	1459.3	1443.5
25°	1183.5	1129.4	1104.3	1077.3
27.5°	821.9	763.2	737.1	709.2
30°	528.4	493.9	479.0	464.1
32.5°	384.9	369.0	363.4	357.8
35°	318.7	308.5	304.7	300.1
37.5°	267.5	258.1	253.5	249.7
40°	222.7	216.2	211.5	208.7
42.5°	189.2	185.4	181.7	179.9
44°	173.3	169.6	165.9	163.1
45°	162.1	159.4	155.6	153.8
47.5°	138.9	137.0	135.1	133.3
50°	121.1	121.1	119.3	117.4
52.5°	108.1	108.1	106.2	106.2
55°	96.9	96.0	95.1	94.1
57.5°	85.7	84.8	83.9	83.9
60°	77.3	77.3	76.4	76.4
62.5°	70.8	70.8	69.0	69.0
65°	63.4	63.4	62.4	62.4
67.5°	57.8	56.8	55.9	55.9
70°	51.3	50.3	49.4	49.4
72.5°	45.7	44.7	43.8	43.8
75°	40.1	39.1	38.2	38.2
77.5°	33.5	33.5	32.6	31.7
80°	26.1	26.1	25.2	25.2
82.5°	17.7	17.7	16.8	15.8
85°	10.3	10.3	9.3	9.3
87.5°	4.7	3.7	3.7	3.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)