

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: P208572

Luminaire Tested: **XTOR8B**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P208572
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27506)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: XTOR8B
Description: CROSSTOUR 81W WALL MOUNT LED

Light Source: EATON LED 5000K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8502 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 0.38' x L: 0.67' x H: 0')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

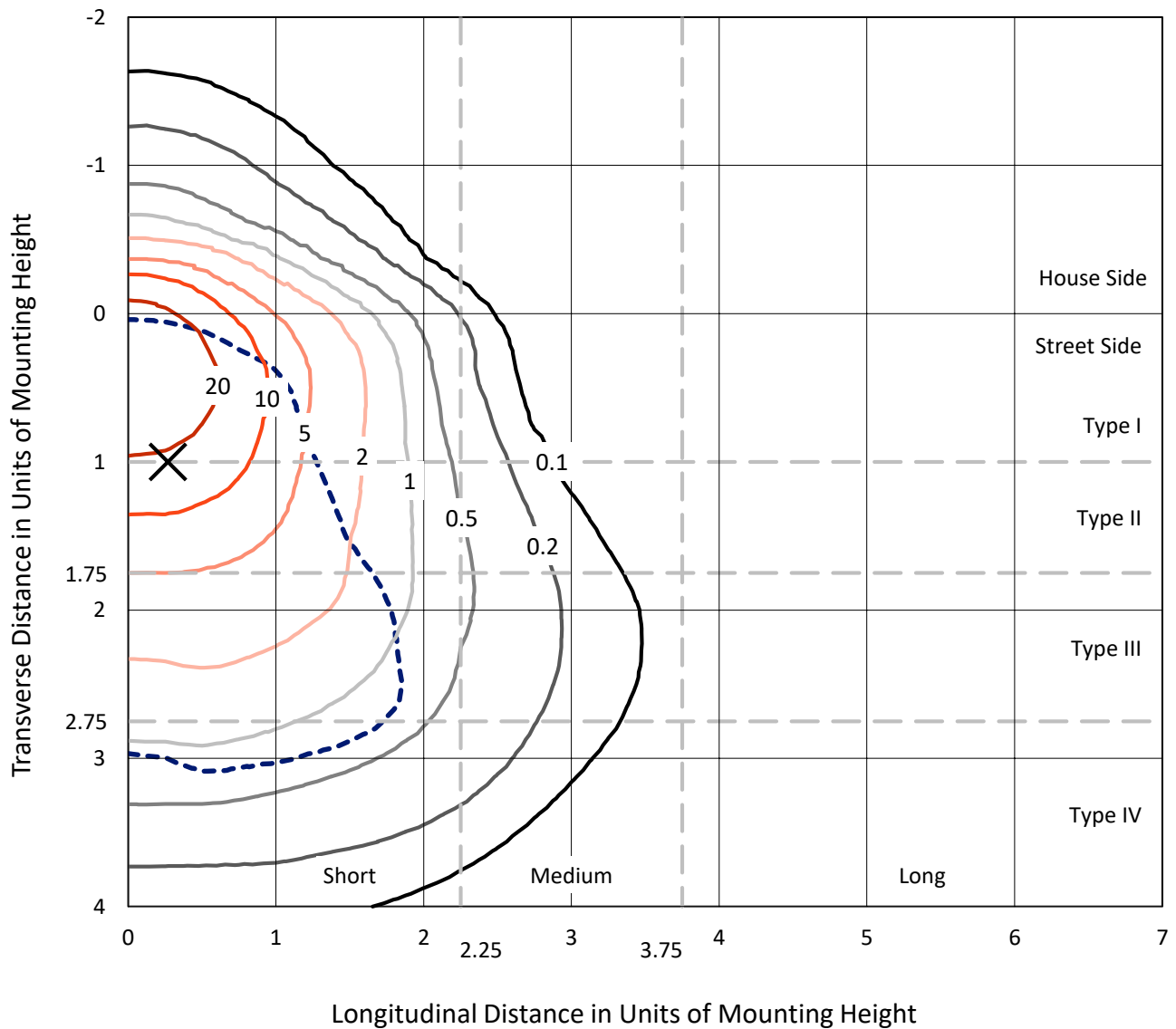
Input Watts (W): 81
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

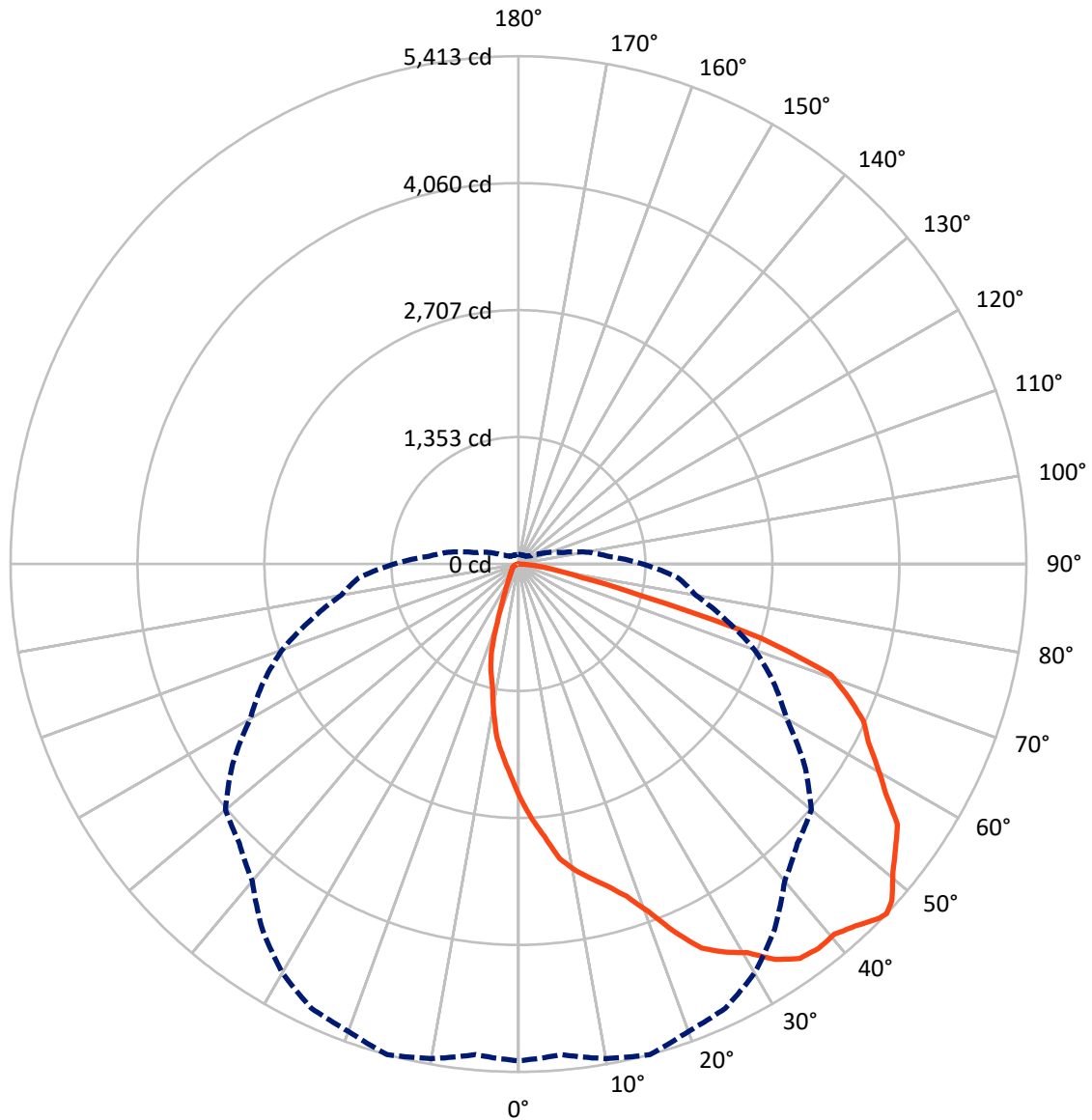
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 33.7 fc
 Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 15-Deg Lateral - - - Horizontal Cone Through 46-Deg Vertical

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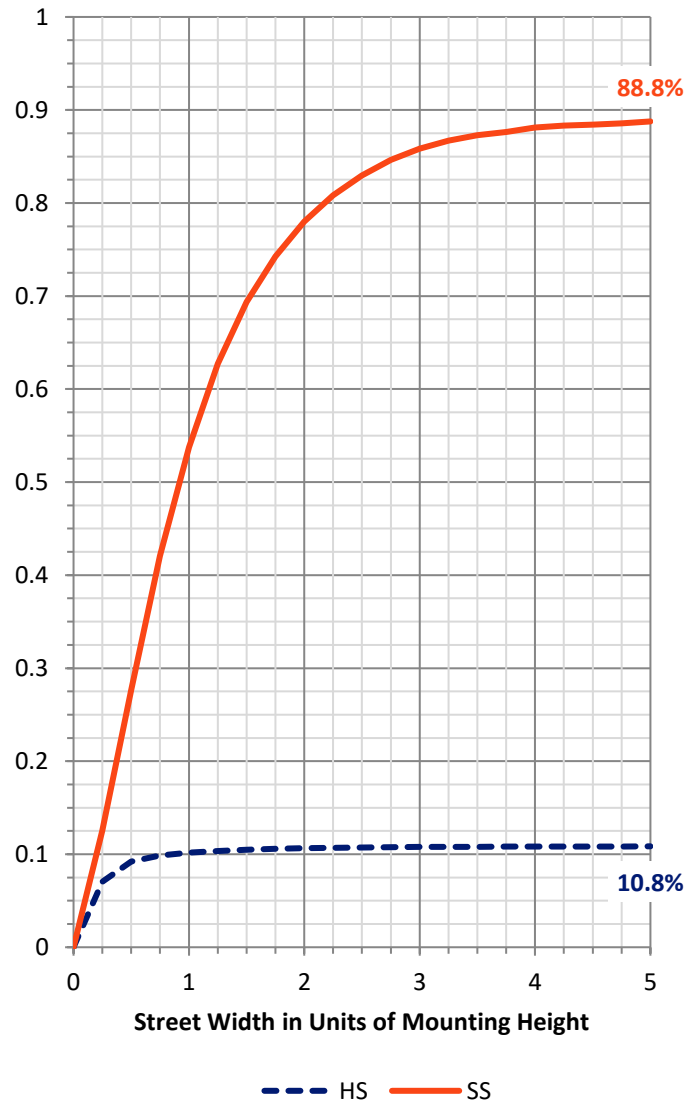
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	933.9	0.0	933.9
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	7568.1	0.0	7568.1
	% Fixture	89.0	0.0	89.0
Total	Lumens	8502.0	0.0	8502.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.3	2.8
10°-20°	674.5	7.9
20°-30°	1057.1	12.4
30°-40°	1408.1	16.6
40°-50°	1632.3	19.2
50°-60°	1586.2	18.7
60°-70°	1261.0	14.8
70°-80°	586.7	6.9
80°-90°	58.7	0.7
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°	8502.0	100.0
0°-180°	8502.0	100.0



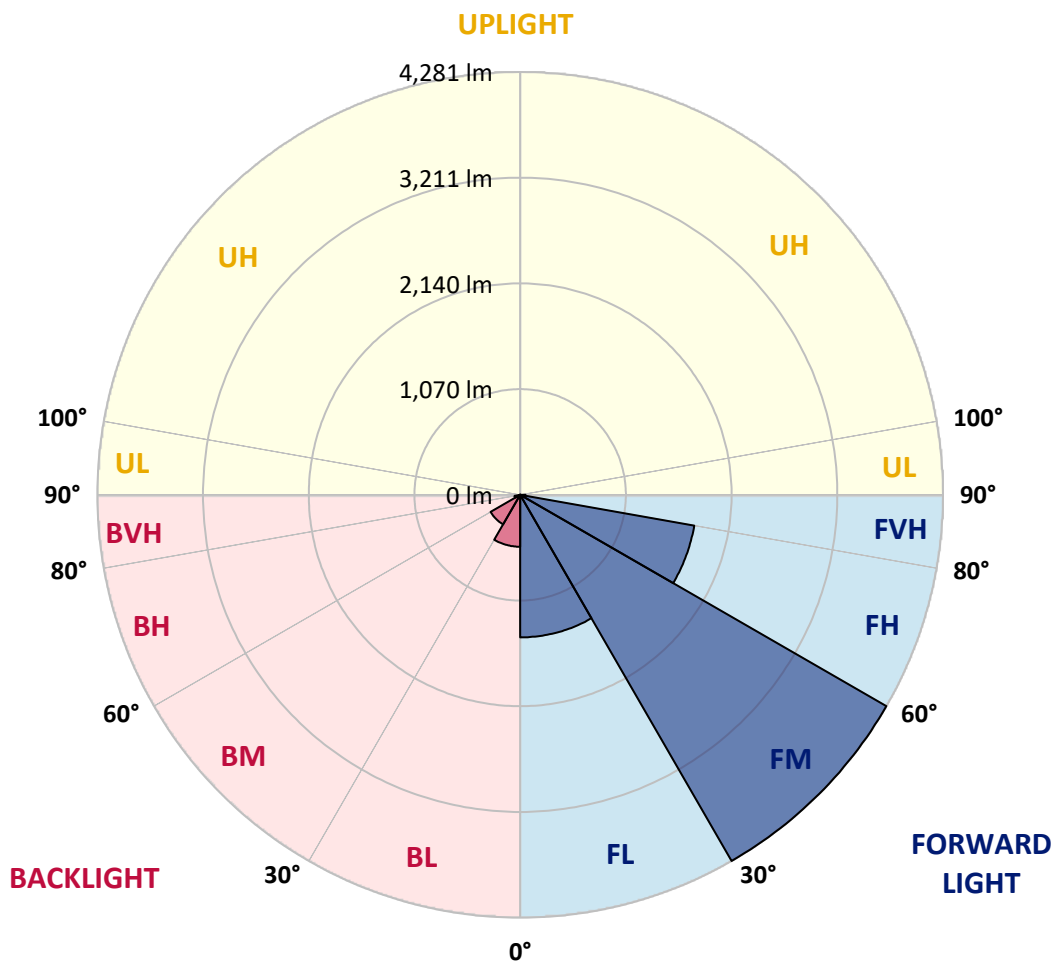
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1443.2	17.0			
FM	(30°-60°)	4281.0	50.4			
FH	(60°-80°)	1789.7	21.1			G1/1800
FVH	(80°-90°)	54.2	0.6			G1/100
BL	(0°-30°)	525.7	6.2	B2/1000		
BM	(30°-60°)	345.7	4.1	B1/1000		
BH	(60°-80°)	57.9	0.7	B0/110		G0/110
BVH	(80°-90°)	4.5	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-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2498.1	2498.1	2498.1	2498.1	2498.1	2498.1	2498.1	2498.1	2498.1	2498.1	2498.1
2.5°	2709.1	2671.1	2685.1	2715.2	2682.1	2689.1	2710.1	2684.1	2668.1	2642.1	2655.1
5°	2928.2	2873.2	2887.2	2918.2	2880.2	2881.2	2897.2	2865.2	2843.2	2809.2	2810.2
7.5°	3172.2	3124.2	3139.2	3173.2	3126.2	3117.2	3124.2	3076.2	3034.2	2955.2	2933.2
10°	3306.2	3260.2	3278.2	3319.2	3265.2	3257.2	3263.2	3215.2	3177.2	3122.2	3094.2
12.5°	3436.2	3380.2	3393.2	3439.2	3380.2	3382.2	3396.2	3335.2	3291.2	3234.2	3211.2
15°	3564.2	3505.2	3515.2	3562.2	3495.2	3503.2	3521.2	3465.2	3406.2	3355.2	3323.2
17.5°	3710.2	3668.2	3675.2	3723.2	3647.2	3642.2	3626.2	3554.2	3505.2	3450.2	3405.2
20°	4035.2	3955.2	3930.2	3951.2	3850.2	3822.2	3770.2	3680.2	3599.2	3511.2	3471.2
22.5°	4362.2	4283.2	4260.2	4258.2	4131.2	4082.2	4002.2	3872.2	3724.2	3603.2	3513.2
25°	4622.3	4539.3	4527.3	4535.3	4418.2	4355.2	4261.2	4117.2	3939.2	3757.2	3606.2
27.5°	4735.3	4646.3	4650.3	4685.3	4586.3	4568.3	4500.2	4341.2	4154.2	3958.2	3763.2
30°	4939.3	4840.3	4810.3	4807.3	4668.3	4652.3	4623.3	4486.2	4316.2	4137.2	3945.2
32.5°	5170.3	5057.3	5048.3	5025.3	4859.3	4801.3	4722.3	4560.3	4370.2	4245.2	4075.2
35°	5232.3	5147.3	5168.3	5164.3	5027.3	4977.3	4881.3	4716.3	4423.2	4266.2	4150.2
37.5°	5205.3	5129.3	5171.3	5197.3	5095.3	5082.3	4994.3	4847.3	4560.3	4294.2	4141.2
40°	5188.3	5115.3	5167.3	5187.3	5072.3	5071.3	5022.3	4880.3	4619.3	4395.2	4150.2
42.5°	5298.3	5215.3	5259.3	5272.3	5118.3	5079.3	4970.3	4788.3	4570.3	4402.2	4192.2
45°	5348.3	5287.3	5358.3	5388.3	5246.3	5191.3	5005.3	4735.3	4439.2	4279.2	4127.2
46°	5295.3	5249.3	5353.3	5413.3	5300.3	5223.3	5033.3	4757.3	4413.2	4207.2	4076.2
47.5°	5154.3	5116.3	5243.3	5356.3	5309.3	5272.3	5053.3	4785.3	4404.2	4119.2	3914.2
50°	4930.3	4908.3	5061.3	5171.3	5137.3	5138.3	5007.3	4782.3	4399.2	4052.2	3652.2
52.5°	4864.3	4858.3	5004.3	5032.3	4945.3	4954.3	4827.3	4643.3	4325.2	3937.2	3494.2
55°	4655.3	4661.3	4853.3	4902.3	4837.3	4845.3	4728.3	4525.3	4086.2	3711.2	3260.2
57.5°	4381.2	4391.2	4577.3	4616.3	4595.3	4666.3	4608.3	4404.2	3981.2	3442.2	2957.2
60°	4119.2	4140.2	4302.2	4397.2	4418.2	4482.2	4364.2	4192.2	3755.2	3198.2	2669.1
62.5°	3871.2	3891.2	4039.2	4187.2	4321.2	4368.2	4221.2	3960.2	3397.2	2872.2	2424.1
65°	3525.2	3528.2	3806.2	4042.2	4091.2	4103.2	3999.2	3861.2	3186.2	2585.1	2184.1
67.5°	3135.2	3210.2	3620.2	3796.2	3756.2	3788.2	3643.2	3564.2	3113.2	2499.1	2006.1
70°	3054.2	3146.2	3478.2	3530.2	3467.2	3406.2	3216.2	3090.2	2772.2	2403.1	1879.1
72.5°	2409.1	2451.1	2657.1	2709.1	2788.2	2875.2	2919.2	2779.2	2390.1	1864.1	1575.1
75°	1124.1	1138.1	1207.1	1343.1	1433.1	1601.1	1745.1	1832.1	1741.1	1492.1	1237.1
77.5°	624.0	631.0	662.0	690.0	702.0	726.0	761.0	762.0	746.0	759.0	778.0
80°	387.0	388.0	403.0	427.0	439.0	454.0	463.0	436.0	372.0	316.0	287.0
82.5°	229.0	228.0	235.0	244.0	251.0	270.0	275.0	264.0	206.0	174.0	145.0
85°	109.0	108.0	110.0	114.0	116.0	127.0	131.0	126.0	97.0	82.0	64.0
87.5°	23.0	24.0	23.0	25.0	24.0	27.0	27.0	30.0	23.0	22.0	15.0
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2498.1	2498.1	2498.1	2498.1	2498.1	2498.1	2498.1	2498.1	2498.1	2498.1	2498.1
2.5°	2645.1	2631.1	2589.1	2549.1	2558.1	2508.1	2541.1	2474.1	2454.1	2443.1	2434.1
5°	2784.2	2751.2	2688.1	2628.1	2613.1	2542.1	2558.1	2474.1	2436.1	2405.1	2373.1
7.5°	2892.2	2850.2	2779.2	2704.1	2666.1	2562.1	2561.1	2461.1	2403.1	2348.1	2307.1
10°	3029.2	2920.2	2843.2	2756.2	2701.1	2576.1	2545.1	2432.1	2353.1	2282.1	2231.1
12.5°	3146.2	3054.2	2935.2	2799.2	2739.2	2592.1	2537.1	2404.1	2303.1	2219.1	2144.1
15°	3239.2	3153.2	3043.2	2884.2	2773.2	2609.1	2532.1	2374.1	2250.1	2156.1	2043.1
17.5°	3323.2	3220.2	3113.2	2956.2	2790.2	2613.1	2512.1	2324.1	2180.1	2073.1	1935.1
20°	3369.2	3259.2	3143.2	2986.2	2829.2	2592.1	2473.1	2262.1	2095.1	1963.1	1829.1
22.5°	3411.2	3274.2	3158.2	2988.2	2833.2	2560.1	2422.1	2188.1	2001.1	1846.1	1719.1
25°	3459.2	3309.2	3164.2	2989.2	2826.2	2530.1	2370.1	2106.1	1905.1	1724.1	1601.1
27.5°	3547.2	3336.2	3189.2	2982.2	2799.2	2525.1	2313.1	2022.1	1802.1	1609.1	1463.1
30°	3693.2	3391.2	3183.2	2945.2	2760.2	2486.1	2236.1	1930.1	1691.1	1484.1	1316.1
32.5°	3828.2	3476.2	3193.2	2926.2	2699.1	2430.1	2152.1	1830.1	1574.1	1361.1	1165.1
35°	3921.2	3554.2	3211.2	2878.2	2619.1	2350.1	2074.1	1729.1	1454.1	1241.1	1017.1
37.5°	3954.2	3597.2	3240.2	2836.2	2545.1	2267.1	2006.1	1636.1	1337.1	1123.1	881.0
40°	3882.2	3585.2	3228.2	2797.2	2467.1	2176.1	1945.1	1542.1	1221.1	1006.1	747.0
42.5°	3832.2	3468.2	3176.2	2765.2	2376.1	2061.1	1863.1	1450.1	1108.1	892.0	606.0
45°	3772.2	3360.2	3080.2	2713.2	2308.1	1955.1	1756.1	1360.1	997.1	778.0	501.0
46°	3720.2	3301.2	3005.2	2681.1	2285.1	1918.1	1712.1	1324.1	954.1	733.0	469.0
47.5°	3625.2	3210.2	2899.2	2613.1	2249.1	1855.1	1640.1	1267.1	892.0	666.0	416.0
50°	3350.2	2996.2	2721.2	2446.1	2161.1	1746.1	1506.1	1167.1	788.0	559.0	335.0
52.5°	3021.2	2737.2	2535.1	2242.1	2018.1	1657.1	1346.1	1059.1	682.0	458.0	275.0
55°	2777.2	2408.1	2293.1	2034.1	1818.1	1547.1	1191.1	937.1	572.0	363.0	223.0
57.5°	2507.1	2172.1	1962.1	1828.1	1593.1	1380.1	1030.1	790.0	465.0	276.0	179.0
60°	2219.1	1929.1	1721.1	1518.1	1314.1	1114.1	855.0	632.0	364.0	202.0	143.0
62.5°	2034.1	1688.1	1402.1	1234.1	996.1	834.0	661.0	478.0	262.0	144.0	111.0
65°	1831.1	1463.1	1123.1	892.0	700.0	538.0	465.0	334.0	178.0	105.0	88.0
67.5°	1584.1	1165.1	908.1	596.0	461.0	321.0	298.0	205.0	118.0	81.0	72.0
70°	1373.1	959.1	650.0	462.0	271.0	215.0	163.0	119.0	79.0	65.0	59.0
72.5°	1199.1	805.0	543.0	301.0	203.0	125.0	94.0	68.0	55.0	51.0	48.0
75°	965.1	750.0	446.0	246.0	139.0	78.0	55.0	45.0	43.0	39.0	38.0
77.5°	746.0	619.0	396.0	204.0	98.0	45.0	39.0	34.0	33.0	31.0	30.0
80°	289.0	295.0	265.0	152.0	64.0	31.0	27.0	24.0	24.0	23.0	22.0
82.5°	126.0	103.0	94.0	66.0	34.0	20.0	18.0	16.0	16.0	16.0	15.0
85°	55.0	41.0	31.0	20.0	15.0	12.0	12.0	11.0	11.0	11.0	10.0
87.5°	14.0	12.0	10.0	9.0	9.0	8.0	9.0	9.0	8.0	8.0	8.0
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2498.1	2498.1	2498.1	2498.1	2498.1	2498.1	2498.1	2498.1	2498.1	2498.1	2498.1
2.5°	2398.1	2392.1	2391.1	2334.1	2343.1	2297.1	2309.1	2305.1	2287.1	2268.1	2270.1
5°	2324.1	2307.1	2297.1	2221.1	2214.1	2146.1	2138.1	2119.1	2096.1	2071.1	2073.1
7.5°	2247.1	2205.1	2162.1	2067.1	2060.1	2007.1	2000.1	1977.1	1944.1	1899.1	1892.1
10°	2137.1	2071.1	2039.1	1956.1	1930.1	1850.1	1814.1	1766.1	1719.1	1659.1	1640.1
12.5°	2026.1	1978.1	1933.1	1817.1	1760.1	1658.1	1601.1	1494.1	1411.1	1370.1	1340.1
15°	1938.1	1878.1	1795.1	1651.1	1568.1	1402.1	1337.1	1270.1	1235.1	1213.1	1192.1
17.5°	1840.1	1742.1	1626.1	1453.1	1314.1	1214.1	1182.1	1140.1	1091.1	1048.1	995.1
20°	1714.1	1581.1	1436.1	1230.1	1149.1	1088.1	1035.1	962.1	887.0	815.0	720.0
22.5°	1571.1	1415.1	1211.1	1082.1	1026.1	935.1	855.0	711.0	627.0	569.0	517.0
25°	1417.1	1201.1	1051.1	965.1	878.0	763.0	622.0	529.0	461.0	417.0	382.0
27.5°	1258.1	1035.1	931.1	831.0	717.0	559.0	469.0	398.0	350.0	321.0	304.0
30°	1079.1	887.0	810.0	691.0	528.0	423.0	358.0	309.0	277.0	257.0	244.0
32.5°	891.0	772.0	682.0	514.0	409.0	328.0	281.0	251.0	226.0	212.0	204.0
35°	756.0	668.0	550.0	400.0	314.0	254.0	226.0	204.0	188.0	176.0	171.0
37.5°	641.0	563.0	415.0	310.0	247.0	208.0	186.0	171.0	159.0	152.0	149.0
40°	553.0	464.0	328.0	244.0	198.0	170.0	157.0	146.0	140.0	134.0	132.0
42.5°	471.0	358.0	261.0	195.0	163.0	144.0	135.0	128.0	123.0	119.0	118.0
45°	395.0	285.0	211.0	161.0	139.0	125.0	119.0	114.0	111.0	107.0	107.0
46°	366.0	262.0	195.0	150.0	132.0	119.0	114.0	109.0	106.0	103.0	103.0
47.5°	323.0	233.0	173.0	137.0	121.0	111.0	107.0	103.0	100.0	98.0	98.0
50°	257.0	188.0	144.0	120.0	108.0	100.0	97.0	94.0	93.0	91.0	92.0
52.5°	201.0	155.0	124.0	106.0	97.0	91.0	89.0	88.0	87.0	84.0	84.0
55°	162.0	128.0	108.0	94.0	88.0	84.0	83.0	82.0	80.0	78.0	78.0
57.5°	133.0	111.0	95.0	84.0	80.0	79.0	78.0	75.0	74.0	73.0	74.0
60°	111.0	96.0	85.0	77.0	74.0	73.0	71.0	70.0	70.0	69.0	70.0
62.5°	93.0	84.0	76.0	70.0	69.0	67.0	67.0	66.0	65.0	64.0	64.0
65°	78.0	74.0	67.0	63.0	62.0	62.0	63.0	61.0	59.0	57.0	56.0
67.5°	67.0	64.0	60.0	56.0	58.0	57.0	57.0	54.0	51.0	49.0	47.0
70°	56.0	54.0	52.0	51.0	52.0	51.0	49.0	46.0	44.0	41.0	40.0
72.5°	46.0	45.0	45.0	44.0	44.0	42.0	40.0	38.0	37.0	34.0	34.0
75°	36.0	37.0	37.0	37.0	35.0	34.0	33.0	31.0	30.0	28.0	27.0
77.5°	28.0	29.0	29.0	28.0	27.0	26.0	25.0	24.0	23.0	21.0	21.0
80°	21.0	21.0	21.0	20.0	20.0	19.0	18.0	17.0	16.0	15.0	15.0
82.5°	14.0	14.0	13.0	13.0	12.0	12.0	12.0	11.0	10.0	9.0	9.0
85°	10.0	9.0	9.0	8.0	8.0	8.0	7.0	7.0	6.0	5.0	5.0
87.5°	7.0	7.0	6.0	6.0	6.0	5.0	5.0	5.0	4.0	3.0	3.0
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):

	165°	170°	175°	180°
0°	2498.1	2498.1	2498.1	2498.1
2.5°	2262.1	2240.1	2287.1	2242.1
5°	2061.1	2039.1	2078.1	2032.1
7.5°	1867.1	1846.1	1874.1	1826.1
10°	1596.1	1572.1	1561.1	1536.1
12.5°	1327.1	1290.1	1296.1	1263.1
15°	1174.1	1151.1	1152.1	1122.1
17.5°	982.1	935.1	928.1	901.0
20°	689.0	644.0	633.0	614.0
22.5°	493.0	458.0	450.0	437.0
25°	363.0	344.0	341.0	330.0
27.5°	289.0	276.0	274.0	265.0
30°	236.0	224.0	224.0	217.0
32.5°	196.0	187.0	187.0	180.0
35°	166.0	161.0	162.0	156.0
37.5°	145.0	141.0	143.0	138.0
40°	130.0	125.0	127.0	123.0
42.5°	116.0	113.0	114.0	110.0
45°	106.0	103.0	105.0	101.0
46°	102.0	100.0	102.0	99.0
47.5°	98.0	96.0	98.0	95.0
50°	91.0	89.0	90.0	87.0
52.5°	83.0	82.0	83.0	81.0
55°	78.0	77.0	79.0	77.0
57.5°	74.0	73.0	74.0	73.0
60°	69.0	68.0	68.0	66.0
62.5°	62.0	60.0	60.0	58.0
65°	54.0	52.0	52.0	50.0
67.5°	46.0	44.0	44.0	43.0
70°	39.0	37.0	38.0	36.0
72.5°	33.0	31.0	31.0	30.0
75°	26.0	25.0	25.0	24.0
77.5°	20.0	19.0	19.0	18.0
80°	14.0	13.0	13.0	12.0
82.5°	8.0	7.0	8.0	7.0
85°	3.0	3.0	3.0	3.0
87.5°	2.0	1.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)