

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: McGRAW-EDISON

Report Number: P159690

Luminaire Tested: **VTS-E08-LED-E1-T4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P159690  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33707)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: VTS-E08-LED-E1-T4  
Description: VENTUS LED SITE LUMINAIRE  
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 4  
Light Source: (168) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

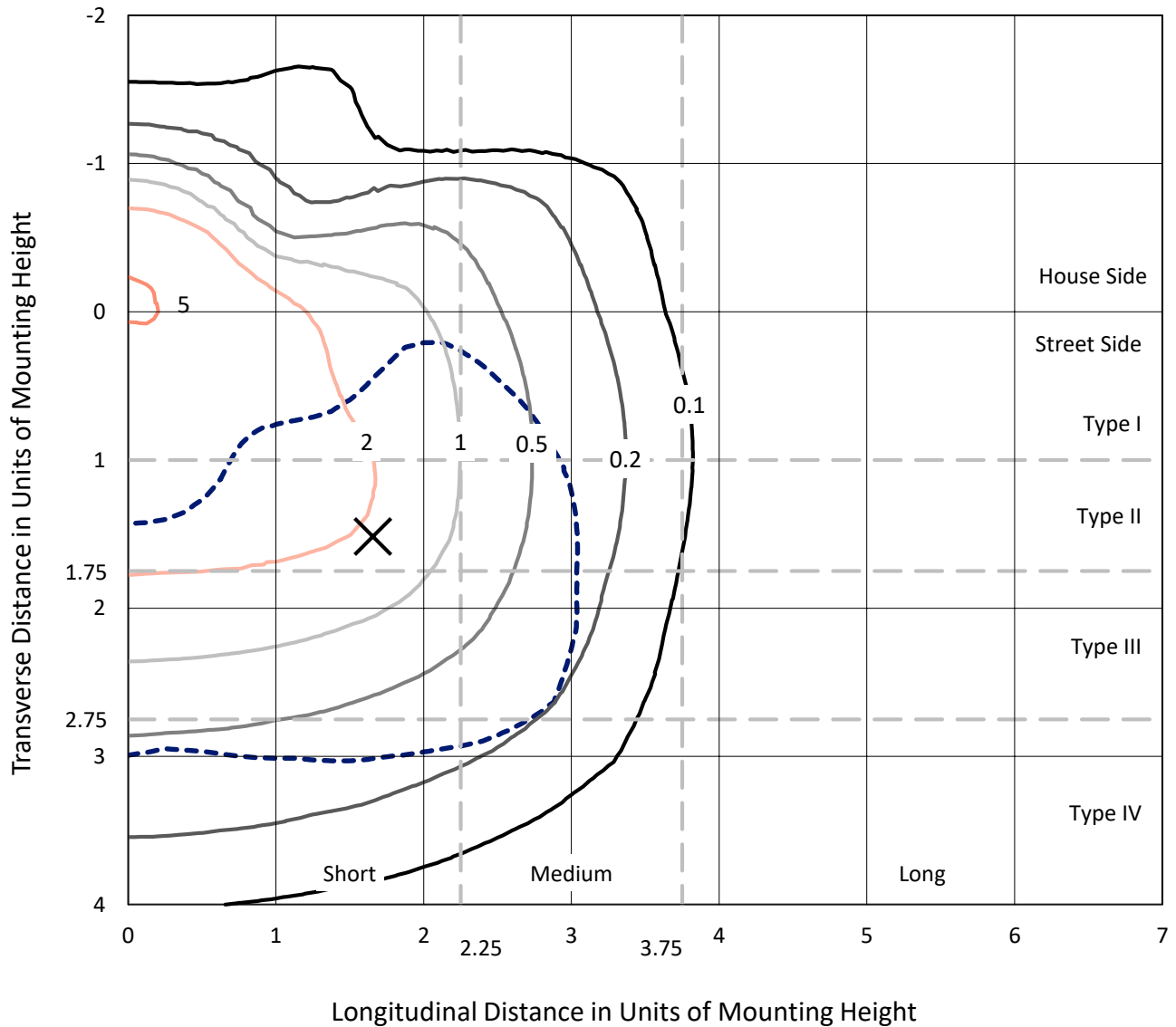
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23810.9 lumens  
Efficiency: N/A  
Efficacy: 122.4 lumens/watt  
Luminous Opening: Rectangular (W 1.33' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 194.5  
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

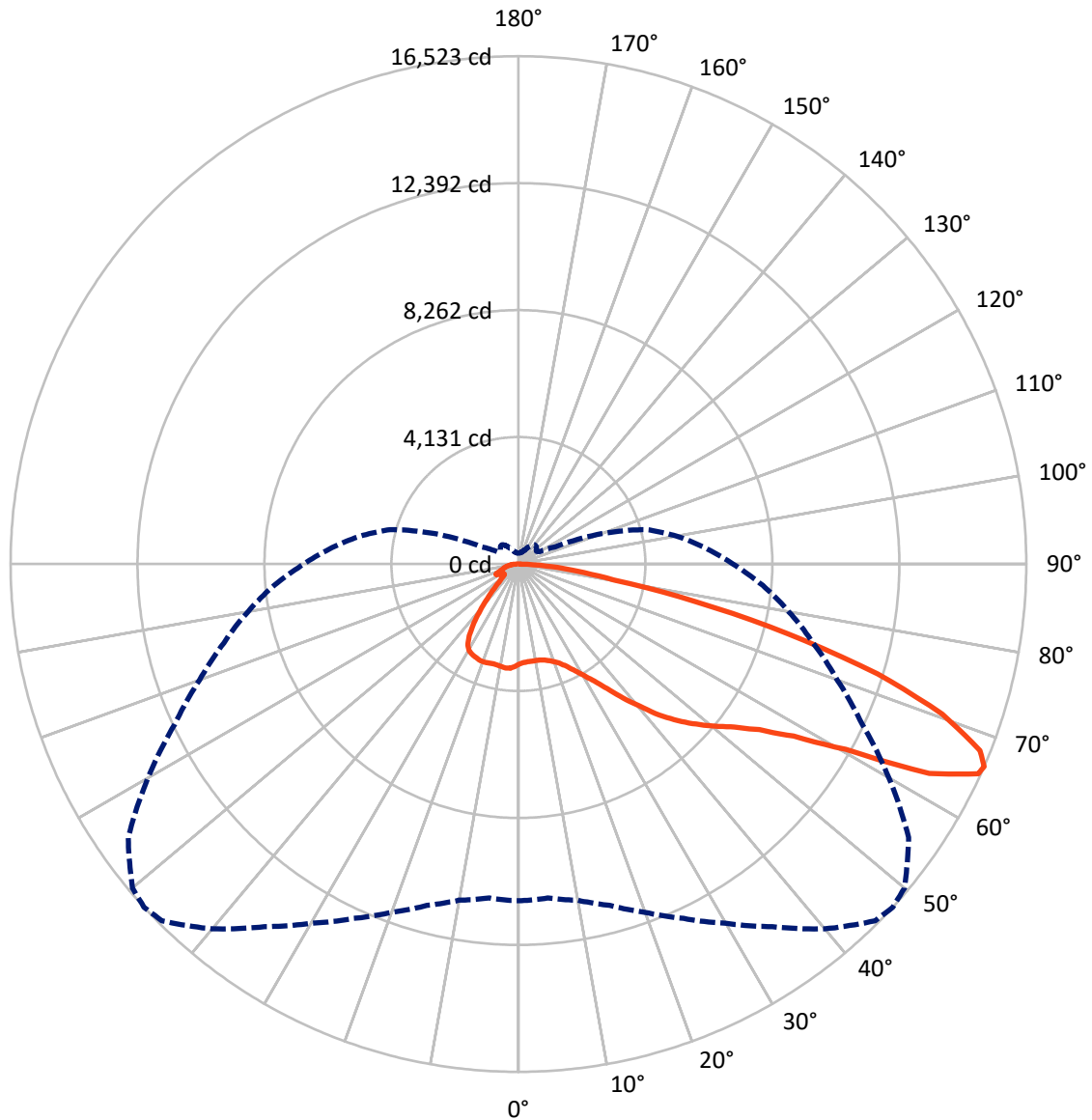
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4929.9	0.0	4929.9
	% Fixture	20.7	0.0	20.7
<b>Street Side</b>	Lumens	18881.0	0.0	18881.0
	% Fixture	79.3	0.0	79.3
<b>Total</b>	Lumens	23810.9	0.0	23810.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	314.0	1.3
10°-20°	941.5	4.0
20°-30°	1606.5	6.7
30°-40°	2424.8	10.2
40°-50°	3151.7	13.2
50°-60°	4323.8	18.2
60°-70°	6651.4	27.9
70°-80°	3844.9	16.1
80°-90°	552.3	2.3
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°	23810.9	100.0
0°-180°	23810.9	100.0



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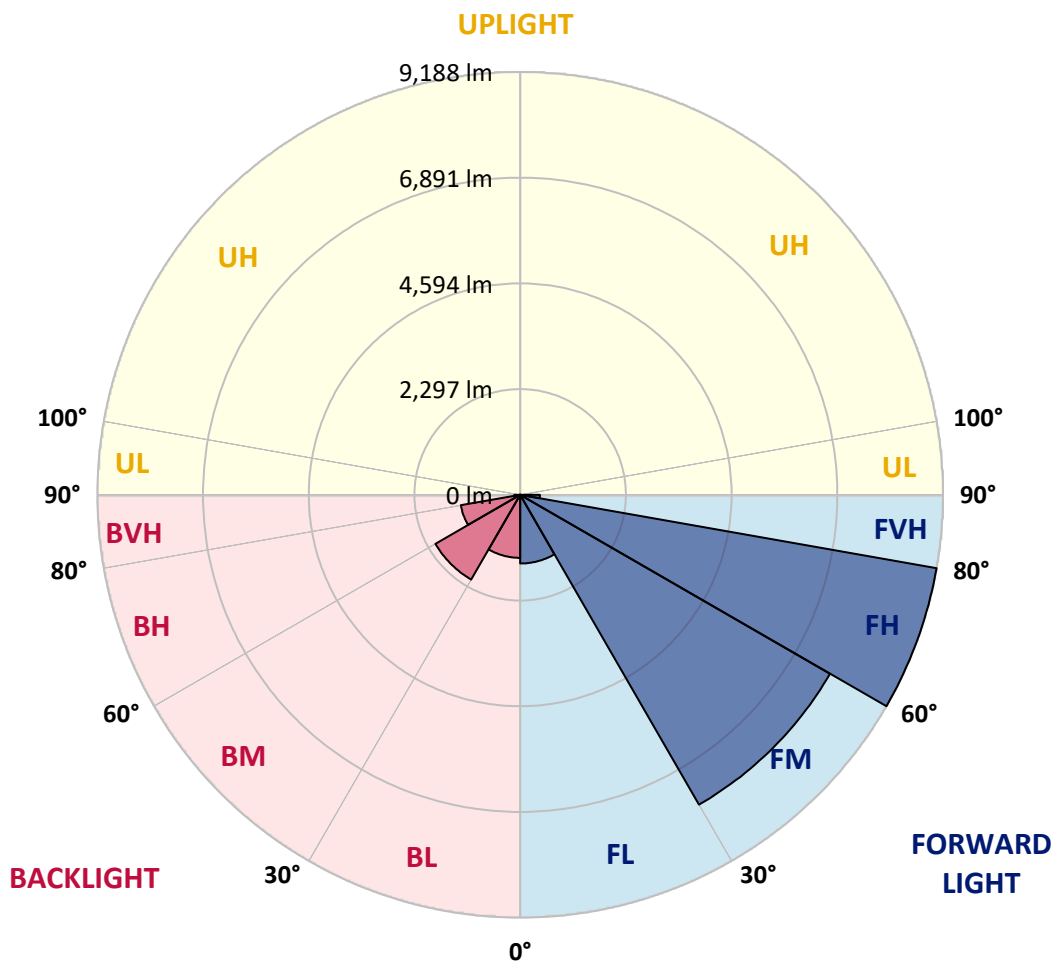
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1492.5	6.3			
FM	(30°-60°)	7773.2	32.6			
FH	(60°-80°)	9187.8	38.6			G4/12000
FVH	(80°-90°)	427.4	1.8			G3/500
BL	(0°-30°)	1369.6	5.8	B3/2500		
BM	(30°-60°)	2127.0	8.9	B2/2500		
BH	(60°-80°)	1308.4	5.5	B3/2500		G3/2500
BVH	(80°-90°)	124.9	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	3257.6	3257.6	3257.6	3257.6	3257.6	3257.6	3257.6	3257.6	3257.6	3257.6	3257.6
2.5°	3174.4	3176.0	3177.6	3177.6	3182.4	3182.4	3190.4	3195.2	3196.8	3206.4	3212.8
5°	3115.2	3113.6	3115.2	3118.4	3126.4	3132.8	3148.8	3160.0	3169.6	3185.6	3193.6
7.5°	3089.6	3092.8	3096.0	3097.6	3104.0	3120.0	3134.4	3145.6	3164.8	3184.0	3192.0
10°	3123.2	3128.0	3123.2	3126.4	3126.4	3140.8	3147.2	3155.2	3169.6	3187.2	3192.0
12.5°	3201.6	3211.2	3201.6	3193.6	3187.2	3200.0	3196.8	3190.4	3198.4	3203.2	3203.2
15°	3331.2	3331.2	3324.8	3313.6	3297.6	3299.2	3284.8	3270.4	3264.0	3252.8	3244.8
17.5°	3457.6	3454.4	3440.0	3425.6	3414.4	3409.6	3388.8	3369.6	3347.2	3329.6	3310.4
20°	3580.8	3593.6	3576.0	3555.2	3537.6	3526.4	3510.4	3472.0	3444.8	3416.0	3396.8
22.5°	3793.6	3782.4	3763.2	3732.8	3715.2	3696.0	3662.4	3620.8	3579.2	3544.0	3520.0
25°	4012.8	4001.6	3974.4	3952.0	3926.4	3910.4	3873.6	3822.4	3782.4	3728.0	3696.0
27.5°	4248.0	4238.4	4206.4	4188.8	4171.2	4152.0	4120.0	4067.2	4030.4	3968.0	3934.4
30°	4513.6	4512.0	4468.8	4465.6	4440.0	4419.2	4396.8	4352.0	4315.2	4252.8	4212.8
32.5°	4796.8	4790.4	4760.0	4750.4	4768.0	4753.6	4721.6	4675.2	4627.2	4590.4	4545.6
35°	5200.0	5188.8	5171.2	5179.2	5190.4	5230.4	5180.8	5140.8	5083.2	5035.2	4972.8
37.5°	5494.4	5478.4	5499.2	5544.0	5608.0	5638.4	5681.6	5683.2	5656.0	5592.0	5537.6
40°	5764.8	5758.4	5806.4	5868.8	5987.2	6073.6	6155.2	6195.2	6204.8	6163.2	6081.6
42.5°	5993.6	6012.8	6076.8	6172.8	6339.2	6470.4	6622.4	6716.8	6776.0	6753.6	6716.8
45°	6265.6	6275.2	6353.6	6475.2	6633.6	6851.2	7051.2	7211.2	7315.2	7313.6	7272.0
47.5°	6606.4	6608.0	6675.2	6817.6	6987.2	7208.0	7460.8	7673.6	7811.2	7817.6	7785.6
50°	7011.2	7008.0	7081.6	7216.0	7396.8	7609.6	7878.4	8144.0	8336.0	8336.0	8289.6
52.5°	7532.8	7526.4	7566.4	7684.8	7859.2	8083.2	8350.4	8657.6	8865.6	8910.4	8809.6
55°	8228.8	8238.4	8248.0	8352.0	8500.8	8678.4	8985.6	9268.8	9547.2	9572.8	9513.6
57.5°	9033.6	9001.6	9070.4	9240.0	9409.6	9632.0	9849.6	10184.0	10513.6	10569.6	10561.6
60°	10291.2	10249.6	10320.0	10536.0	10723.2	11073.6	11446.4	11878.4	12268.8	12384.0	12244.8
62.5°	11448.0	11499.2	11595.2	11846.4	12118.4	12585.6	13145.6	13886.4	14627.2	15030.4	15001.6
65°	11344.0	11296.0	11480.0	11822.4	12315.2	12910.4	13606.4	14499.2	15566.4	16376.0	16448.0
66°	10958.4	10908.8	11107.2	11499.2	12062.4	12724.8	13497.6	14406.4	15497.6	16412.8	16523.2
67.5°	10321.6	10272.0	10496.0	10852.8	11433.6	12267.2	13102.4	14096.0	15230.4	16107.2	16196.8
70°	9092.8	9025.6	9200.0	9603.2	10073.6	10880.0	11675.2	12728.0	13892.8	14593.6	14627.2
72.5°	7702.4	7545.6	7731.2	8041.6	8377.6	9044.8	9737.6	10457.6	11385.6	12033.6	12219.2
75°	5588.8	5670.4	5724.8	5929.6	6152.0	6704.0	7110.4	7713.6	8432.0	8900.8	9049.6
77.5°	2964.8	3088.0	3164.8	3369.6	3737.6	4158.4	4598.4	4971.2	5443.2	5705.6	5888.0
80°	1664.0	1750.4	1875.2	2036.8	2216.0	2539.2	2800.0	2992.0	3059.2	3105.6	3147.2
82.5°	915.2	1134.4	1320.0	1432.0	1537.6	1667.2	1822.4	1982.4	2033.6	1956.8	1916.8
85°	142.4	209.6	638.4	779.2	848.0	947.2	1059.2	1177.6	1179.2	1014.4	1107.2
87.5°	40.0	44.8	91.2	137.6	134.4	108.8	134.4	244.8	144.0	72.0	83.2
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):**

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	3257.6	3257.6	3257.6	3257.6	3257.6	3257.6	3257.6	3257.6	3257.6	3257.6	3257.6
2.5°	3216.0	3219.2	3227.2	3235.2	3243.2	3251.2	3256.0	3264.0	3270.4	3280.0	3291.2
5°	3203.2	3211.2	3225.6	3243.2	3259.2	3273.6	3284.8	3300.8	3315.2	3328.0	3347.2
7.5°	3203.2	3219.2	3243.2	3262.4	3276.8	3294.4	3312.0	3328.0	3344.0	3356.8	3369.6
10°	3204.8	3220.8	3244.8	3267.2	3283.2	3302.4	3316.8	3331.2	3348.8	3356.8	3372.8
12.5°	3211.2	3217.6	3235.2	3257.6	3276.8	3296.0	3310.4	3324.8	3344.0	3347.2	3358.4
15°	3243.2	3233.6	3238.4	3254.4	3275.2	3291.2	3307.2	3318.4	3331.2	3328.0	3337.6
17.5°	3302.4	3278.4	3268.8	3270.4	3280.0	3291.2	3297.6	3299.2	3300.8	3286.4	3288.0
20°	3382.4	3348.8	3326.4	3315.2	3302.4	3291.2	3273.6	3252.8	3233.6	3204.8	3201.6
22.5°	3502.4	3452.8	3428.8	3398.4	3360.0	3312.0	3268.8	3217.6	3176.0	3132.8	3116.8
25°	3676.8	3625.6	3600.0	3552.0	3483.2	3414.4	3352.0	3283.2	3222.4	3171.2	3147.2
27.5°	3910.4	3859.2	3832.0	3782.4	3697.6	3628.8	3542.4	3468.8	3395.2	3320.0	3289.6
30°	4193.6	4148.8	4118.4	4078.4	4004.8	3929.6	3828.8	3715.2	3598.4	3478.4	3419.2
32.5°	4528.0	4478.4	4456.0	4409.6	4332.8	4254.4	4142.4	3996.8	3801.6	3612.8	3494.4
35°	4945.6	4889.6	4864.0	4803.2	4713.6	4598.4	4478.4	4283.2	4019.2	3756.8	3563.2
37.5°	5504.0	5379.2	5294.4	5155.2	5011.2	4849.6	4678.4	4478.4	4166.4	3841.6	3572.8
40°	5998.4	5872.0	5708.8	5508.8	5284.8	5062.4	4867.2	4640.0	4300.8	3902.4	3542.4
42.5°	6612.8	6388.8	6128.0	5857.6	5560.0	5286.4	5054.4	4787.2	4392.0	3918.4	3457.6
45°	7174.4	6907.2	6558.4	6198.4	5828.8	5484.8	5224.0	4926.4	4470.4	3918.4	3355.2
47.5°	7686.4	7366.4	6948.8	6500.8	6070.4	5694.4	5398.4	5068.8	4580.8	3968.0	3324.8
50°	8160.0	7792.0	7316.8	6796.8	6313.6	5912.0	5593.6	5251.2	4748.8	4096.0	3398.4
52.5°	8659.2	8268.8	7689.6	7137.6	6604.8	6174.4	5835.2	5476.8	4966.4	4297.6	3528.0
55°	9313.6	8856.0	8198.4	7590.4	7004.8	6529.6	6144.0	5747.2	5204.8	4524.8	3686.4
57.5°	10345.6	9681.6	9024.0	8233.6	7681.6	7056.0	6633.6	6177.6	5592.0	4820.8	3924.8
60°	12152.0	11336.0	10545.6	9636.8	8955.2	8300.8	7662.4	7067.2	6361.6	5489.6	4448.0
62.5°	14731.2	13902.4	12660.8	11548.8	10520.0	9652.8	8820.8	8064.0	7158.4	6204.8	5092.8
65°	16272.0	15323.2	13843.2	12348.8	11099.2	10024.0	9072.0	8145.6	7168.0	6238.4	5288.0
66°	16395.2	15497.6	13916.8	12337.6	11040.0	9924.8	8934.4	7976.0	6974.4	6084.8	5224.0
67.5°	16166.4	15393.6	13766.4	12120.0	10793.6	9588.8	8571.2	7566.4	6560.0	5736.0	5011.2
70°	14552.0	13993.6	12598.4	11056.0	9732.8	8670.4	7596.8	6630.4	5676.8	4984.0	4446.4
72.5°	11929.6	11222.4	10246.4	9209.6	8168.0	7225.6	6249.6	5427.2	4627.2	4123.2	3742.4
75°	8763.2	8126.4	7051.2	6404.8	5716.8	5124.8	4467.2	3688.0	3120.0	2867.2	2774.4
77.5°	5555.2	4864.0	3956.8	3243.2	2788.8	2396.8	1889.6	1502.4	1203.2	1252.8	1387.2
80°	2806.4	2417.6	1809.6	1428.8	1235.2	1027.2	812.8	616.0	449.6	513.6	580.8
82.5°	1801.6	1504.0	1198.4	944.0	796.8	702.4	561.6	408.0	304.0	342.4	419.2
85°	1084.8	916.8	731.2	598.4	520.0	433.6	318.4	225.6	224.0	240.0	296.0
87.5°	164.8	235.2	136.0	145.6	153.6	164.8	145.6	123.2	107.2	139.2	176.0
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):**

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	3257.6	3257.6	3257.6	3257.6	3257.6	3257.6	3257.6	3257.6	3257.6	3257.6	3257.6
2.5°	3302.4	3305.6	3312.0	3320.0	3318.4	3329.6	3336.0	3329.6	3344.0	3344.0	3352.0
5°	3363.2	3368.0	3379.2	3387.2	3390.4	3400.0	3403.2	3401.6	3404.8	3406.4	3409.6
7.5°	3380.8	3393.6	3398.4	3403.2	3404.8	3408.0	3408.0	3404.8	3404.8	3403.2	3406.4
10°	3376.0	3380.8	3384.0	3382.4	3382.4	3379.2	3377.6	3376.0	3376.0	3372.8	3377.6
12.5°	3360.0	3360.0	3360.0	3356.8	3356.8	3355.2	3355.2	3355.2	3358.4	3360.0	3368.0
15°	3328.0	3328.0	3331.2	3329.6	3334.4	3342.4	3352.0	3358.4	3366.4	3368.0	3372.8
17.5°	3278.4	3280.0	3289.6	3310.4	3331.2	3355.2	3372.8	3377.6	3371.2	3355.2	3344.0
20°	3192.0	3212.8	3251.2	3300.8	3347.2	3377.6	3385.6	3366.4	3336.0	3294.4	3272.0
22.5°	3115.2	3156.8	3225.6	3307.2	3364.8	3385.6	3361.6	3316.8	3262.4	3214.4	3180.8
25°	3145.6	3193.6	3265.6	3336.0	3372.8	3361.6	3313.6	3249.6	3192.0	3136.0	3081.6
27.5°	3273.6	3321.6	3372.8	3393.6	3380.8	3339.2	3272.0	3203.2	3126.4	3046.4	2979.2
30°	3395.2	3422.4	3425.6	3404.8	3358.4	3291.2	3212.8	3132.8	3035.2	2939.2	2854.4
32.5°	3433.6	3401.6	3344.0	3284.8	3220.8	3152.0	3060.8	2955.2	2851.2	2742.4	2648.0
35°	3422.4	3292.8	3150.4	3024.0	2947.2	2868.8	2785.6	2644.8	2528.0	2435.2	2374.4
37.5°	3321.6	3084.8	2865.6	2681.6	2561.6	2468.8	2345.6	2228.8	2128.0	2086.4	2036.8
40°	3180.8	2819.2	2515.2	2257.6	2132.8	2014.4	1876.8	1787.2	1758.4	1720.0	1721.6
42.5°	2979.2	2508.8	2116.8	1820.8	1684.8	1555.2	1457.6	1404.8	1406.4	1374.4	1380.8
45°	2766.4	2196.8	1704.0	1409.6	1275.2	1164.8	1110.4	1094.4	1096.0	1097.6	1088.0
47.5°	2636.8	1953.6	1366.4	1068.8	950.4	888.0	859.2	851.2	852.8	854.4	843.2
50°	2617.6	1827.2	1140.8	817.6	740.8	705.6	691.2	683.2	683.2	676.8	667.2
52.5°	2672.0	1795.2	1030.4	708.8	635.2	603.2	592.0	585.6	576.0	563.2	545.6
55°	2758.4	1824.0	996.8	672.0	600.0	568.0	553.6	550.4	534.4	510.4	481.6
57.5°	2918.4	1928.0	1019.2	681.6	606.4	577.6	568.0	564.8	542.4	505.6	468.8
60°	3377.6	2230.4	1131.2	736.0	652.8	628.8	628.8	624.0	593.6	540.8	488.0
62.5°	4011.2	2673.6	1283.2	811.2	716.8	713.6	740.8	742.4	688.0	603.2	520.0
65°	4316.8	2881.6	1336.0	827.2	734.4	771.2	825.6	825.6	748.8	632.0	524.8
66°	4318.4	2876.8	1320.0	808.0	715.2	763.2	819.2	819.2	739.2	624.0	516.8
67.5°	4208.0	2787.2	1267.2	772.8	672.0	716.8	766.4	764.8	692.8	592.0	494.4
70°	3774.4	2465.6	1116.8	715.2	620.8	622.4	640.0	628.8	580.8	512.0	449.6
72.5°	3254.4	2062.4	968.0	678.4	580.8	550.4	536.0	526.4	496.0	454.4	416.0
75°	2496.0	1601.6	843.2	644.8	545.6	492.8	473.6	465.6	444.8	420.8	390.4
77.5°	1529.6	1097.6	715.2	590.4	505.6	457.6	436.8	420.8	400.0	377.6	356.8
80°	659.2	662.4	572.8	500.8	440.0	384.0	356.8	337.6	326.4	318.4	307.2
82.5°	460.8	475.2	436.8	388.8	336.0	296.0	272.0	267.2	268.8	268.8	265.6
85°	345.6	339.2	305.6	278.4	254.4	228.8	209.6	208.0	214.4	214.4	209.6
87.5°	200.0	201.6	172.8	161.6	168.0	144.0	131.2	132.8	148.8	147.2	144.0
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):**

	160°	165°	170°	175°	180°
0°	3257.6	3257.6	3257.6	3257.6	3257.6
2.5°	3352.0	3356.8	3355.2	3360.0	3355.2
5°	3414.4	3412.8	3411.2	3417.6	3409.6
7.5°	3404.8	3406.4	3406.4	3406.4	3404.8
10°	3380.8	3387.2	3390.4	3396.8	3395.2
12.5°	3372.8	3382.4	3392.0	3401.6	3403.2
15°	3374.4	3380.8	3385.6	3390.4	3392.0
17.5°	3332.8	3331.2	3326.4	3323.2	3320.0
20°	3248.0	3240.0	3232.0	3219.2	3225.6
22.5°	3142.4	3120.0	3094.4	3073.6	3072.0
25°	3019.2	2977.6	2936.0	2908.8	2899.2
27.5°	2910.4	2860.8	2817.6	2793.6	2787.2
30°	2780.8	2736.0	2697.6	2676.8	2664.0
32.5°	2588.8	2553.6	2505.6	2489.6	2488.0
35°	2321.6	2294.4	2260.8	2254.4	2246.4
37.5°	2019.2	2009.6	1993.6	1974.4	1971.2
40°	1696.0	1702.4	1697.6	1686.4	1668.8
42.5°	1384.0	1395.2	1396.8	1404.8	1412.8
45°	1102.4	1112.0	1112.0	1120.0	1129.6
47.5°	846.4	840.0	844.8	852.8	857.6
50°	640.0	635.2	627.2	620.8	614.4
52.5°	515.2	505.6	483.2	476.8	470.4
55°	454.4	436.8	420.8	414.4	414.4
57.5°	436.8	414.4	396.8	388.8	385.6
60°	440.0	408.0	385.6	372.8	368.0
62.5°	454.4	409.6	379.2	364.8	360.0
65°	452.8	406.4	377.6	361.6	356.8
66°	444.8	401.6	374.4	360.0	356.8
67.5°	432.0	395.2	371.2	358.4	353.6
70°	406.4	382.4	364.8	353.6	348.8
72.5°	385.6	369.6	353.6	340.8	337.6
75°	366.4	350.4	336.0	329.6	324.8
77.5°	337.6	323.2	315.2	308.8	305.6
80°	299.2	289.6	280.0	273.6	268.8
82.5°	260.8	248.0	238.4	233.6	230.4
85°	212.8	204.8	190.4	180.8	179.2
87.5°	142.4	134.4	129.6	121.6	113.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)