

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: P159489

Luminaire Tested: **VTS-E10-LED-E1-T3-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P159489  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33706)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: VTS-E10-LED-E1-T3-7030  
Description: VENTUS LED SITE LUMINAIRE  
(10) LIGHTBARS WITH AccuLED OPTICS - TYPE 3  
Light Source: (210) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

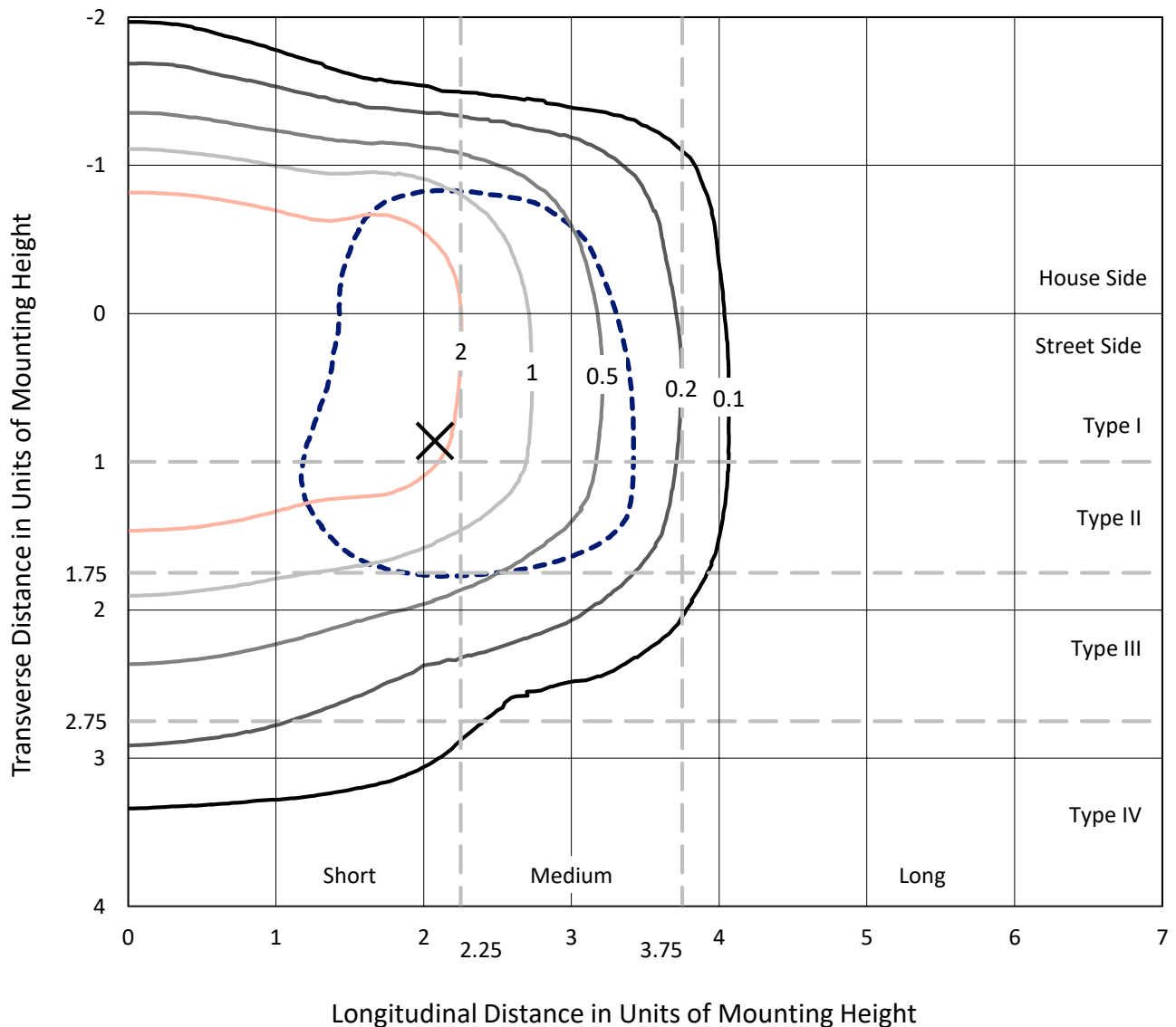
Lumens per Lamp: N/A  
Luminaire Lumens: 27933.6 lumens  
Efficiency: N/A  
Efficacy: 112.8 lumens/watt  
Luminous Opening: Rectangular (W 1.67' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 247.7  
Input Voltage (V): NR  
Input 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

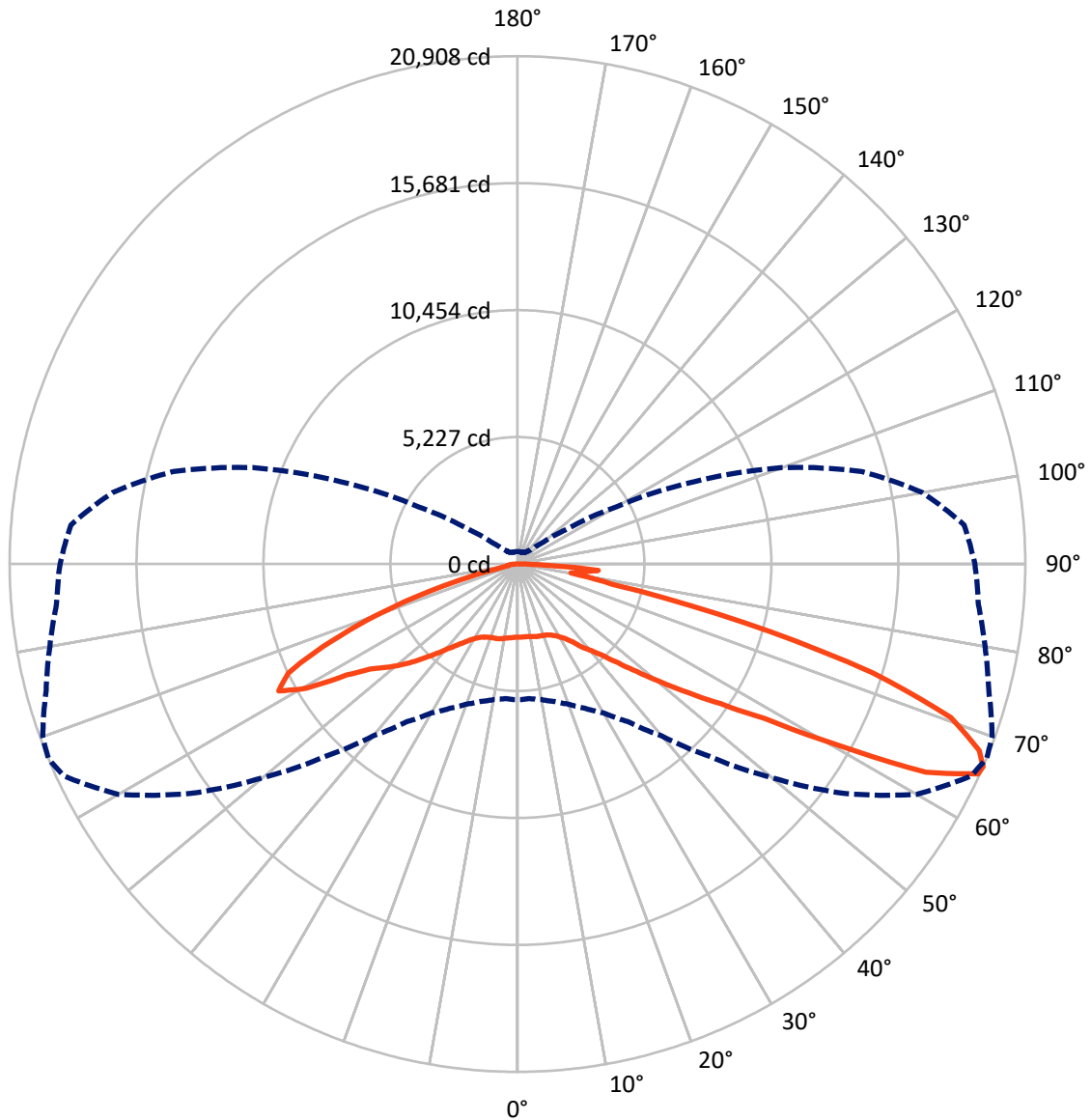


Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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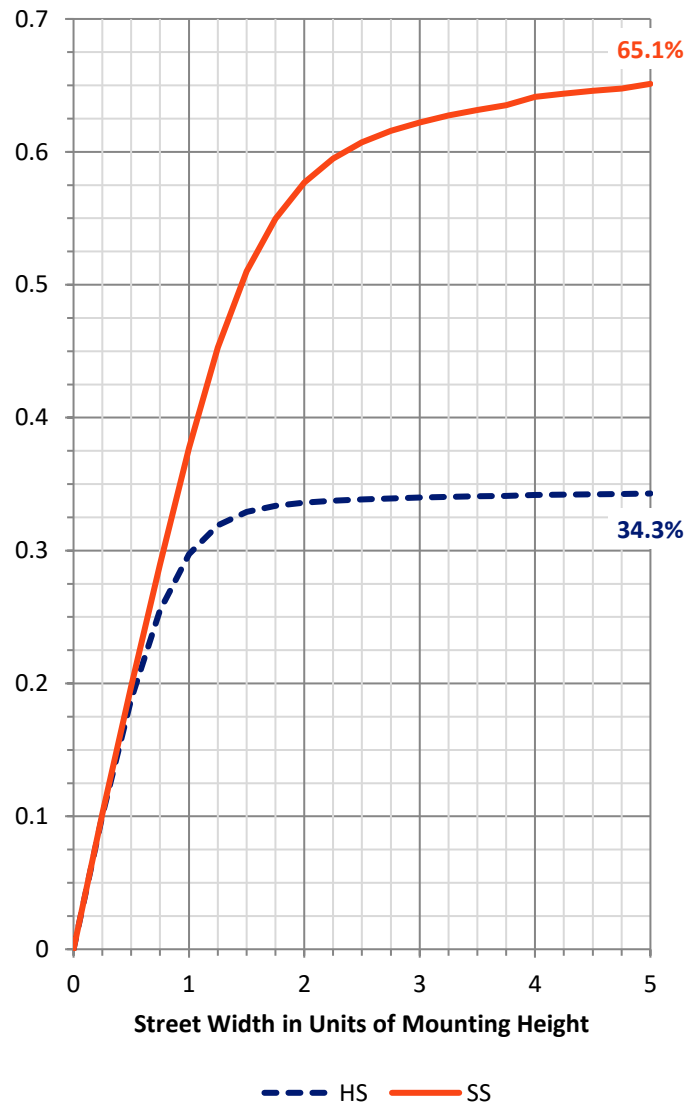
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9666.3	0.0	9666.3
	% Fixture	34.6	0.0	34.6
<b>Street Side</b>	Lumens	18267.3	0.0	18267.3
	% Fixture	65.4	0.0	65.4
<b>Total</b>	Lumens	27933.6	0.0	27933.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	289.2	1.0
10°-20°	856.4	3.1
20°-30°	1472.2	5.3
30°-40°	2379.4	8.5
40°-50°	3943.2	14.1
50°-60°	6188.5	22.2
60°-70°	8460.9	30.3
70°-80°	3720.7	13.3
80°-90°	622.8	2.2
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°	27933.6	100.0
0°-180°	27933.6	100.0



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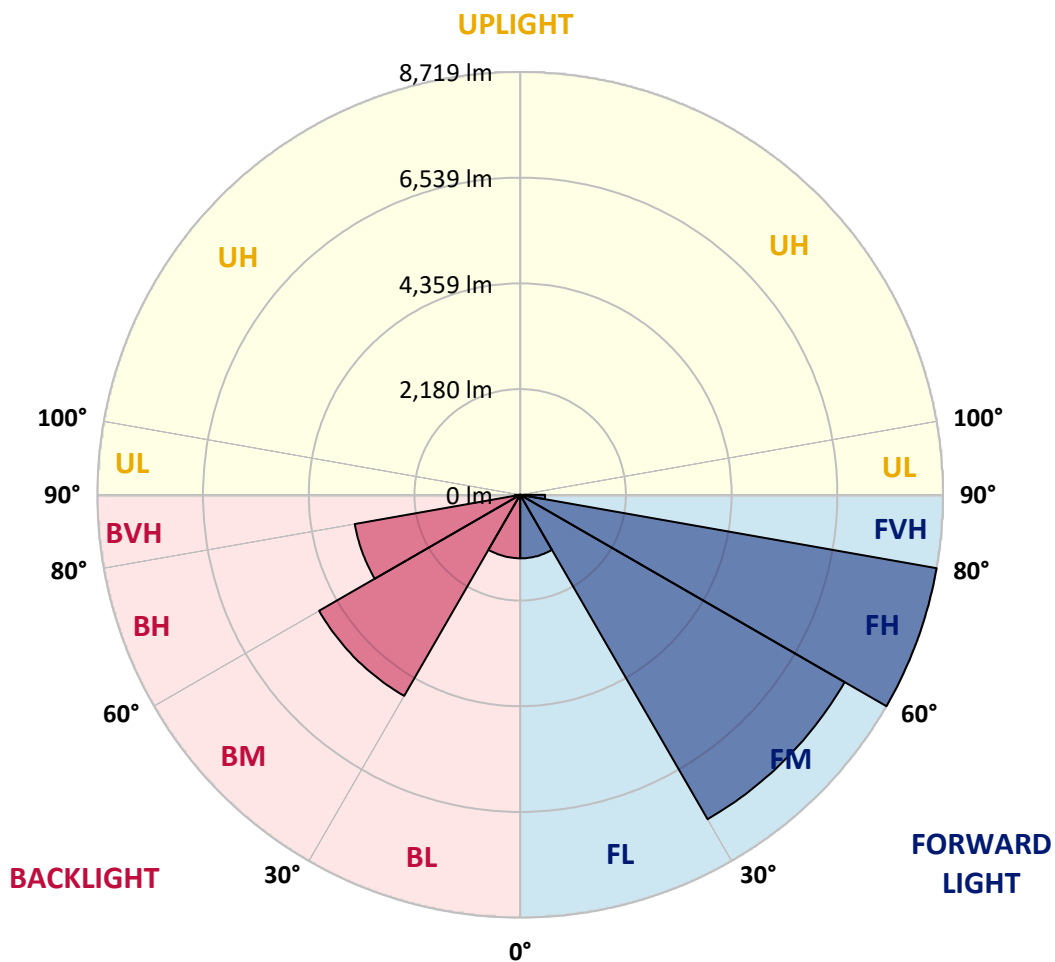
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1310.3	4.7			
FM	(30°-60°)	7724.5	27.7			
FH	(60°-80°)	8718.7	31.2			G4/12000
FVH	(80°-90°)	513.8	1.8			G4/750
BL	(0°-30°)	1307.6	4.7	B3/2500		
BM	(30°-60°)	4786.7	17.1	B3/5000		
BH	(60°-80°)	3463.0	12.4	B4/5000		G4/5000
BVH	(80°-90°)	109.0	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3014.1	3014.1	3014.1	3014.1	3014.1	3014.1	3014.1	3014.1	3014.1	3014.1	3014.1
2.5°	3008.6	3008.6	3010.4	3008.6	3008.6	3006.7	3014.1	3014.1	3014.1	3012.2	3017.7
5°	3001.3	3001.3	3003.1	3003.1	3004.9	3003.1	3008.6	3010.4	3010.4	3010.4	3015.9
7.5°	2983.0	2988.5	2984.8	2986.7	2988.5	2994.0	3001.3	3004.9	3008.6	3014.1	3015.9
10°	2944.6	2953.8	2951.9	2957.4	2959.3	2975.7	2981.2	2988.5	3001.3	3008.6	3014.1
12.5°	2891.7	2897.1	2899.0	2906.3	2913.6	2933.7	2948.3	2961.1	2979.3	2997.6	3015.9
15°	2849.7	2853.3	2853.3	2860.6	2871.6	2889.8	2908.1	2930.0	2957.4	2988.5	3017.7
17.5°	2862.4	2871.6	2864.3	2862.4	2866.1	2877.1	2893.5	2911.8	2944.6	2979.3	3014.1
20°	2946.5	2948.3	2944.6	2935.5	2928.2	2930.0	2930.0	2933.7	2953.8	2981.2	3008.6
22.5°	3015.9	3023.2	3021.4	3023.2	3021.4	3028.7	3025.0	3017.7	3010.4	3012.2	3025.0
25°	3076.2	3083.5	3083.5	3089.0	3098.1	3112.7	3123.7	3121.8	3110.9	3096.3	3090.8
27.5°	3174.8	3174.8	3174.8	3180.3	3193.1	3211.3	3229.6	3240.6	3249.7	3235.1	3204.0
30°	3330.1	3331.9	3326.4	3328.2	3337.4	3361.1	3383.0	3399.5	3417.8	3415.9	3375.7
32.5°	3500.0	3507.3	3505.4	3512.7	3525.5	3547.5	3571.2	3596.8	3620.5	3635.1	3609.6
35°	3719.2	3726.5	3728.3	3739.3	3753.9	3786.8	3819.6	3852.5	3878.1	3889.0	3883.6
37.5°	4079.0	4080.8	4073.5	4057.1	4062.6	4088.2	4126.5	4179.5	4195.9	4206.9	4232.5
40°	4617.9	4612.4	4583.2	4568.6	4559.4	4570.4	4563.1	4605.1	4643.5	4645.3	4643.5
42.5°	5271.9	5255.4	5228.0	5224.4	5220.7	5217.1	5197.0	5198.8	5233.5	5242.6	5231.7
45°	5922.2	5902.1	5882.0	5900.2	5878.3	5935.0	5951.4	5995.2	6000.7	6019.0	5991.6
47.5°	6455.6	6457.4	6457.4	6483.0	6526.8	6634.6	6731.4	6815.4	6846.5	6890.3	6895.8
50°	6859.3	6870.2	6904.9	6987.1	7080.3	7261.1	7423.7	7575.3	7712.3	7763.5	7898.7
52.5°	7094.9	7124.1	7197.2	7334.2	7500.4	7734.3	7990.0	8247.6	8485.0	8686.0	8846.7
55°	7052.9	7074.8	7202.7	7416.4	7675.8	7990.0	8348.0	8720.7	9091.5	9431.3	9694.3
57.5°	6782.5	6797.2	6925.0	7166.1	7489.5	7911.4	8417.4	8970.9	9491.5	10039.5	10488.9
60°	6428.2	6450.1	6568.8	6758.8	7096.7	7546.1	8132.5	8883.2	9714.4	10576.6	11416.9
62.5°	6201.6	6196.2	6300.3	6470.2	6724.1	7131.4	7695.9	8585.5	9736.3	11194.0	12854.5
65°	5825.3	5808.9	5916.7	6110.3	6386.1	6780.7	7315.9	8170.8	9506.2	11427.8	13782.5
66°	5591.5	5558.7	5666.4	5861.9	6137.7	6557.9	7071.2	7915.1	9226.7	11199.5	13683.8
67.5°	5182.3	5165.9	5217.1	5370.5	5575.1	5969.7	6504.9	7354.3	8565.4	10512.7	12960.4
70°	4212.4	4175.8	4216.0	4285.4	4364.0	4460.8	4789.6	5463.7	6488.4	8375.4	10441.4
72.5°	2869.7	2851.5	2926.4	3032.3	3242.4	3341.0	3470.7	3580.3	3942.0	5279.2	7283.1
75°	2182.9	2193.9	2288.9	2464.2	2734.6	3026.8	3311.8	3415.9	3295.4	3191.2	4133.8
77.5°	1223.9	1287.8	1402.9	1625.8	1912.6	2325.4	2822.3	3370.3	3644.3	3576.7	3344.7
80°	504.2	495.0	551.7	674.1	772.7	1110.6	1698.8	2385.7	3156.5	3644.3	3567.5
82.5°	140.7	144.3	186.3	239.3	308.7	392.7	613.8	986.4	1607.5	2500.8	3273.4
85°	43.8	43.8	60.3	89.5	105.9	122.4	155.3	255.7	436.6	871.3	1766.4
87.5°	9.1	9.1	12.8	25.6	27.4	27.4	34.7	47.5	42.0	38.4	171.7
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):**

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	3014.1	3014.1	3014.1	3014.1	3014.1	3014.1	3014.1	3014.1	3014.1	3014.1	3014.1
2.5°	3012.2	3008.6	3010.4	3012.2	3010.4	3010.4	3008.6	3006.7	3008.6	3008.6	3014.1
5°	3010.4	3008.6	3010.4	3010.4	3012.2	3012.2	3012.2	3012.2	3017.7	3017.7	3026.8
7.5°	3014.1	3014.1	3017.7	3017.7	3017.7	3017.7	3019.5	3023.2	3032.3	3030.5	3046.9
10°	3021.4	3025.0	3034.1	3036.0	3041.5	3045.1	3052.4	3061.6	3065.2	3079.8	
12.5°	3030.5	3048.8	3065.2	3068.9	3074.3	3083.5	3089.0	3092.6	3109.0	3114.5	3132.8
15°	3041.5	3067.0	3087.1	3094.4	3101.7	3112.7	3120.0	3125.5	3140.1	3147.4	3169.3
17.5°	3043.3	3072.5	3096.3	3107.2	3116.4	3129.1	3140.1	3151.1	3167.5	3178.5	3200.4
20°	3041.5	3079.8	3116.4	3131.0	3140.1	3163.8	3180.3	3194.9	3215.0	3226.0	3247.9
22.5°	3061.6	3105.4	3154.7	3173.0	3187.6	3220.5	3242.4	3266.1	3291.7	3299.0	3315.5
25°	3109.0	3154.7	3216.8	3242.4	3268.0	3311.8	3342.9	3377.6	3403.1	3406.8	3412.3
27.5°	3189.4	3231.4	3306.3	3344.7	3386.7	3448.8	3494.5	3529.2	3565.7	3565.7	3562.1
30°	3352.0	3361.1	3439.7	3489.0	3551.1	3642.4	3710.0	3748.4	3775.8	3775.8	3744.7
32.5°	3562.1	3551.1	3622.3	3675.3	3761.2	3889.0	3980.4	4009.6	4038.8	4029.7	3976.7
35°	3865.3	3834.2	3874.4	3954.8	4051.6	4227.0	4322.0	4387.7	4406.0	4380.4	4296.4
37.5°	4247.1	4243.4	4263.5	4353.0	4460.8	4687.3	4784.1	4826.1	4811.5	4765.9	4617.9
40°	4650.8	4639.8	4627.0	4687.3	4807.9	5080.1	5251.8	5273.7	5253.6	5186.0	4999.7
42.5°	5189.7	5189.7	5129.4	5145.8	5246.3	5551.3	5754.1	5823.5	5825.3	5726.7	5478.3
45°	5931.3	5924.0	5818.0	5792.5	5869.2	6168.8	6430.0	6468.3	6468.3	6338.7	6066.5
47.5°	6822.7	6813.6	6709.5	6620.0	6634.6	6957.9	7175.3	7233.7	7182.6	7085.8	6762.4
50°	7827.4	7811.0	7705.0	7621.0	7584.5	7911.4	8095.9	8123.3	8048.4	7933.4	7582.6
52.5°	8846.7	8896.0	8833.9	8788.3	8801.0	9012.9	9202.9	9073.2	9034.9	8910.6	8558.1
55°	9908.0	10059.6	10196.6	10156.5	10204.0	10410.4	10446.9	10275.2	10205.8	10116.3	9723.5
57.5°	10976.6	11418.7	11868.1	11994.1	12111.0	12407.0	12364.9	12083.6	12136.6	12269.9	11827.9
60°	12469.1	13745.9	14885.8	15095.9	15459.4	15711.5	15768.1	15713.3	15959.9	15890.5	15499.6
62.5°	14761.6	16889.7	18475.3	18869.8	19235.2	19222.4	19030.6	18833.3	19076.2	19076.2	18055.1
65°	16398.3	18813.2	20510.2	20837.2	20822.6	20382.3	19929.3	19534.7	19500.0	19229.7	17737.3
66°	16475.0	18961.2	20623.5	20908.4	20798.8	20090.1	19547.5	19047.0	18833.3	18457.0	16928.0
67.5°	15784.5	18542.8	20254.5	20502.9	20214.3	19198.6	18451.5	17781.1	17470.6	16836.7	15397.3
70°	12947.7	15936.1	18425.9	18933.8	18606.8	17320.8	16297.8	15391.8	14798.1	13882.9	12845.4
72.5°	9451.3	11765.8	14462.0	15287.7	15236.5	14052.8	13229.0	12399.6	11619.6	10786.7	10028.6
75°	6143.2	7653.9	9157.3	9639.5	9407.5	8722.5	8132.5	7648.4	6908.6	6329.5	6188.9
77.5°	3507.3	4285.4	4053.4	3993.2	3702.7	2988.5	1987.5	1393.8	1258.6	1571.0	1722.6
80°	3337.4	3025.0	2477.0	2234.1	2053.2	1399.3	734.3	517.0	453.0	464.0	498.7
82.5°	3763.0	3921.9	3207.7	2679.8	2332.7	1702.5	929.8	432.9	316.0	374.5	420.1
85°	2820.4	3971.2	3936.5	3335.6	2736.4	1961.9	1099.7	330.6	190.0	263.0	343.4
87.5°	571.8	940.8	906.0	796.4	677.7	473.1	184.5	104.1	95.0	129.7	197.3
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°	3014.1	3014.1	3014.1	3014.1	3014.1	3014.1	3014.1	3014.1	3014.1	3014.1	3014.1
2.5°	3017.7	3017.7	3021.4	3026.8	3028.7	3028.7	3032.3	3028.7	3036.0	3037.8	3039.6
5°	3034.1	3039.6	3043.3	3052.4	3057.9	3061.6	3067.0	3063.4	3070.7	3072.5	3076.2
7.5°	3052.4	3061.6	3068.9	3072.5	3079.8	3079.8	3081.6	3078.0	3076.2	3070.7	3068.9
10°	3085.3	3090.8	3099.9	3096.3	3092.6	3079.8	3068.9	3052.4	3043.3	3026.8	3017.7
12.5°	3138.3	3141.9	3141.9	3125.5	3101.7	3072.5	3045.1	3017.7	2995.8	2977.5	2966.6
15°	3174.8	3182.1	3173.0	3149.2	3114.5	3074.3	3037.8	3001.3	2972.0	2948.3	2933.7
17.5°	3202.2	3200.4	3183.9	3151.1	3118.2	3083.5	3050.6	3012.2	2975.7	2941.0	2919.1
20°	3244.2	3226.0	3196.7	3162.0	3127.3	3098.1	3072.5	3036.0	2997.6	2950.1	2917.2
22.5°	3300.8	3268.0	3226.0	3189.4	3156.5	3129.1	3099.9	3068.9	3028.7	2975.7	2930.0
25°	3381.2	3324.6	3277.1	3240.6	3211.3	3180.3	3147.4	3107.2	3067.0	3012.2	2957.4
27.5°	3503.6	3419.6	3359.3	3326.4	3299.0	3257.0	3215.0	3167.5	3116.4	3059.7	2997.6
30°	3651.6	3551.1	3481.7	3452.5	3419.6	3372.1	3326.4	3260.7	3189.4	3121.8	3045.1
32.5°	3825.1	3722.8	3653.4	3631.5	3578.5	3523.7	3459.8	3372.1	3278.9	3178.5	3087.1
35°	4088.2	3958.5	3894.5	3843.4	3770.3	3704.5	3596.8	3481.7	3348.3	3215.0	3101.7
37.5°	4358.5	4227.0	4161.2	4090.0	3995.0	3874.4	3730.1	3565.7	3388.5	3224.1	3085.3
40°	4720.2	4577.7	4493.7	4384.1	4230.6	4042.5	3828.8	3604.1	3388.5	3183.9	3015.9
42.5°	5142.2	5010.6	4880.9	4700.1	4453.5	4179.5	3879.9	3591.3	3330.1	3094.4	2917.2
45°	5726.7	5502.0	5295.6	5005.2	4645.3	4259.9	3885.4	3531.0	3229.6	2968.4	2771.1
47.5°	6384.3	6093.9	5728.5	5273.7	4782.3	4290.9	3832.4	3417.8	3070.7	2787.5	2572.0
50°	7142.4	6696.7	6135.9	5487.4	4851.7	4248.9	3706.4	3227.8	2851.5	2526.3	2296.2
52.5°	8010.1	7330.5	6504.9	5639.0	4840.8	4121.0	3498.1	2977.5	2557.4	2212.1	1985.6
55°	8972.8	8021.0	6857.4	5735.8	4742.1	3872.6	3171.2	2625.0	2192.0	1852.3	1653.2
57.5°	10669.8	9232.1	7529.7	5865.5	4535.7	3496.3	2756.5	2179.3	1788.3	1499.7	1309.7
60°	13822.6	11349.3	8802.9	6170.6	4225.2	3025.0	2234.1	1709.8	1382.8	1172.7	1032.1
62.5°	15773.6	12839.9	9423.9	6126.8	3721.0	2380.2	1658.6	1267.7	1010.2	871.3	783.7
65°	15311.4	12255.3	8665.9	5262.7	2895.3	1687.9	1097.8	829.3	694.1	622.9	580.9
66°	14683.0	11601.4	8024.7	4712.9	2522.7	1410.2	906.0	696.0	597.3	544.4	522.4
67.5°	13366.0	10406.7	6921.4	3774.0	1890.6	1050.4	668.6	546.2	485.9	458.5	443.9
70°	11186.7	8384.6	4895.6	2228.6	1024.8	569.9	427.4	380.0	365.3	356.2	350.7
72.5°	8649.4	6070.1	2860.6	1096.0	517.0	369.0	325.2	305.1	299.6	299.6	301.4
75°	5449.0	3489.0	1280.5	527.9	350.7	297.8	277.7	268.5	270.4	272.2	270.4
77.5°	1810.3	1203.8	533.4	374.5	305.1	270.4	253.9	250.3	253.9	255.7	255.7
80°	520.6	454.8	385.4	330.6	279.5	252.1	237.5	235.6	244.8	246.6	243.0
82.5°	400.0	374.5	348.9	319.7	268.5	237.5	232.0	233.8	239.3	235.6	219.2
85°	367.2	363.5	261.2	259.4	233.8	226.5	221.0	222.9	217.4	197.3	179.0
87.5°	206.4	191.8	148.0	149.8	173.5	179.0	148.0	157.1	146.1	127.9	116.9
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):**

	160°	165°	170°	175°	180°
0°	3014.1	3014.1	3014.1	3014.1	3014.1
2.5°	3043.3	3041.5	3041.5	3046.9	3039.6
5°	3078.0	3076.2	3076.2	3081.6	3076.2
7.5°	3061.6	3056.1	3052.4	3050.6	3050.6
10°	3006.7	3001.3	2990.3	2986.7	2983.0
12.5°	2950.1	2944.6	2931.9	2931.9	2928.2
15°	2915.4	2908.1	2899.0	2893.5	2889.8
17.5°	2897.1	2886.2	2875.2	2869.7	2866.1
20°	2889.8	2875.2	2862.4	2853.3	2853.3
22.5°	2891.7	2873.4	2858.8	2847.8	2844.2
25°	2909.9	2882.5	2864.3	2853.3	2849.7
27.5°	2935.5	2902.6	2878.9	2864.3	2858.8
30°	2970.2	2924.5	2891.7	2873.4	2866.1
32.5°	2994.0	2930.0	2888.0	2862.4	2853.3
35°	2992.1	2909.9	2858.8	2825.9	2814.9
37.5°	2959.3	2862.4	2794.9	2754.7	2736.4
40°	2886.2	2774.8	2703.5	2665.2	2643.2
42.5°	2780.2	2659.7	2595.7	2553.7	2530.0
45°	2614.0	2495.3	2416.7	2383.8	2352.8
47.5°	2383.8	2263.3	2195.7	2148.2	2128.1
50°	2113.5	1992.9	1921.7	1883.3	1865.1
52.5°	1817.6	1702.5	1651.3	1614.8	1589.2
55°	1510.7	1404.7	1382.8	1342.6	1318.9
57.5°	1222.1	1160.0	1139.9	1099.7	1079.6
60°	955.4	935.3	913.4	887.8	876.8
62.5°	739.8	721.5	716.1	699.6	697.8
65°	564.5	566.3	562.6	559.0	555.3
66°	513.3	511.5	513.3	509.6	507.8
67.5°	436.6	443.9	449.4	447.5	447.5
70°	354.4	359.9	367.2	365.3	365.3
72.5°	303.2	312.4	316.0	314.2	314.2
75°	274.0	283.1	283.1	279.5	277.7
77.5°	255.7	259.4	255.7	252.1	248.4
80°	237.5	233.8	228.3	222.9	219.2
82.5°	206.4	197.3	191.8	182.7	182.7
85°	166.2	158.9	146.1	137.0	127.9
87.5°	107.8	104.1	95.0	71.2	56.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)