

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: P158388

Luminaire Tested: **VTS-E10-LED-E1-SL3-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158388
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33713)
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-SL3-8030
Description: VENTUS LED SITE LUMINAIRE
(10) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (210) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

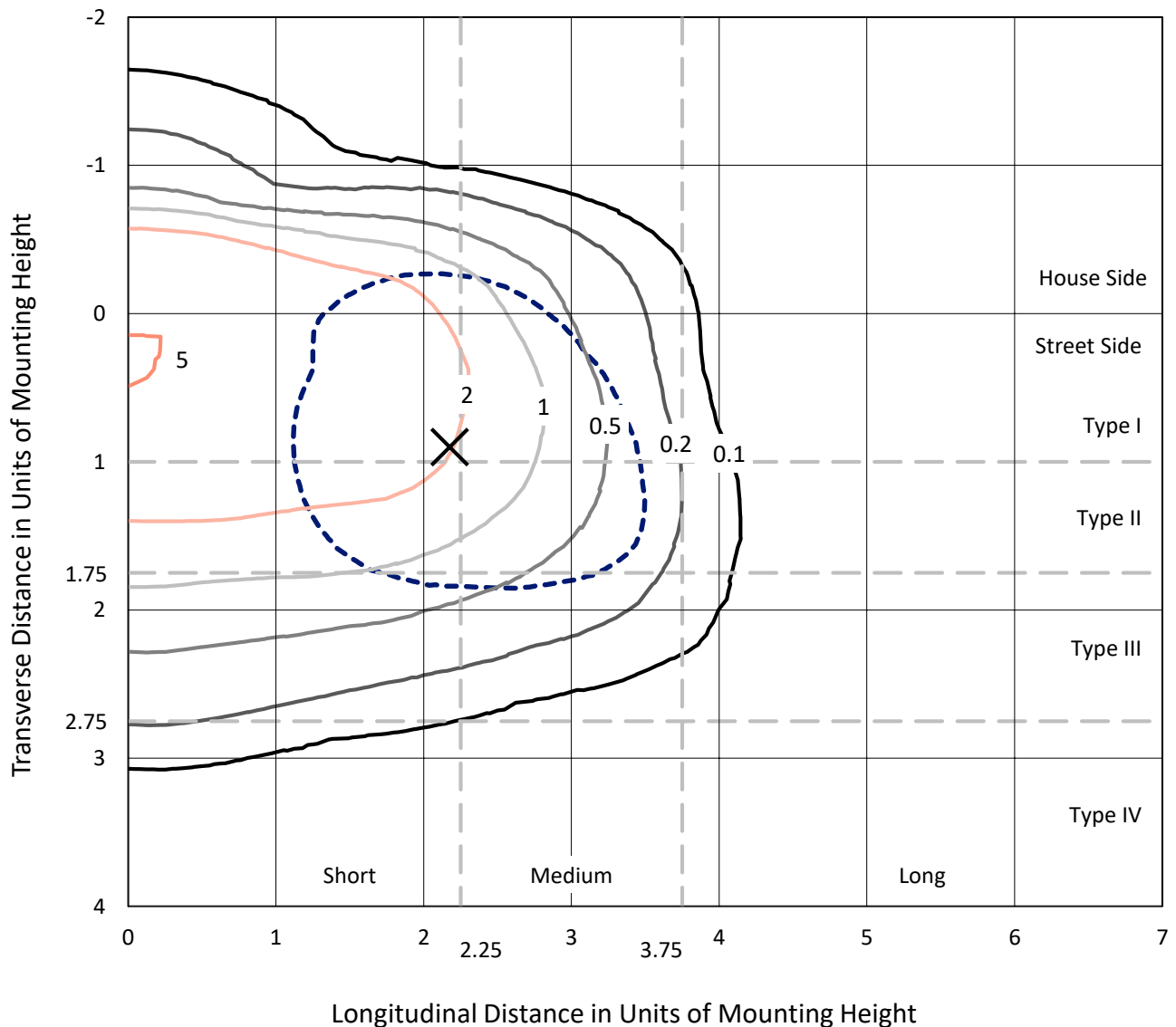
Lumens per Lamp: N/A
Luminaire Lumens: 25462.1 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 1.67' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

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

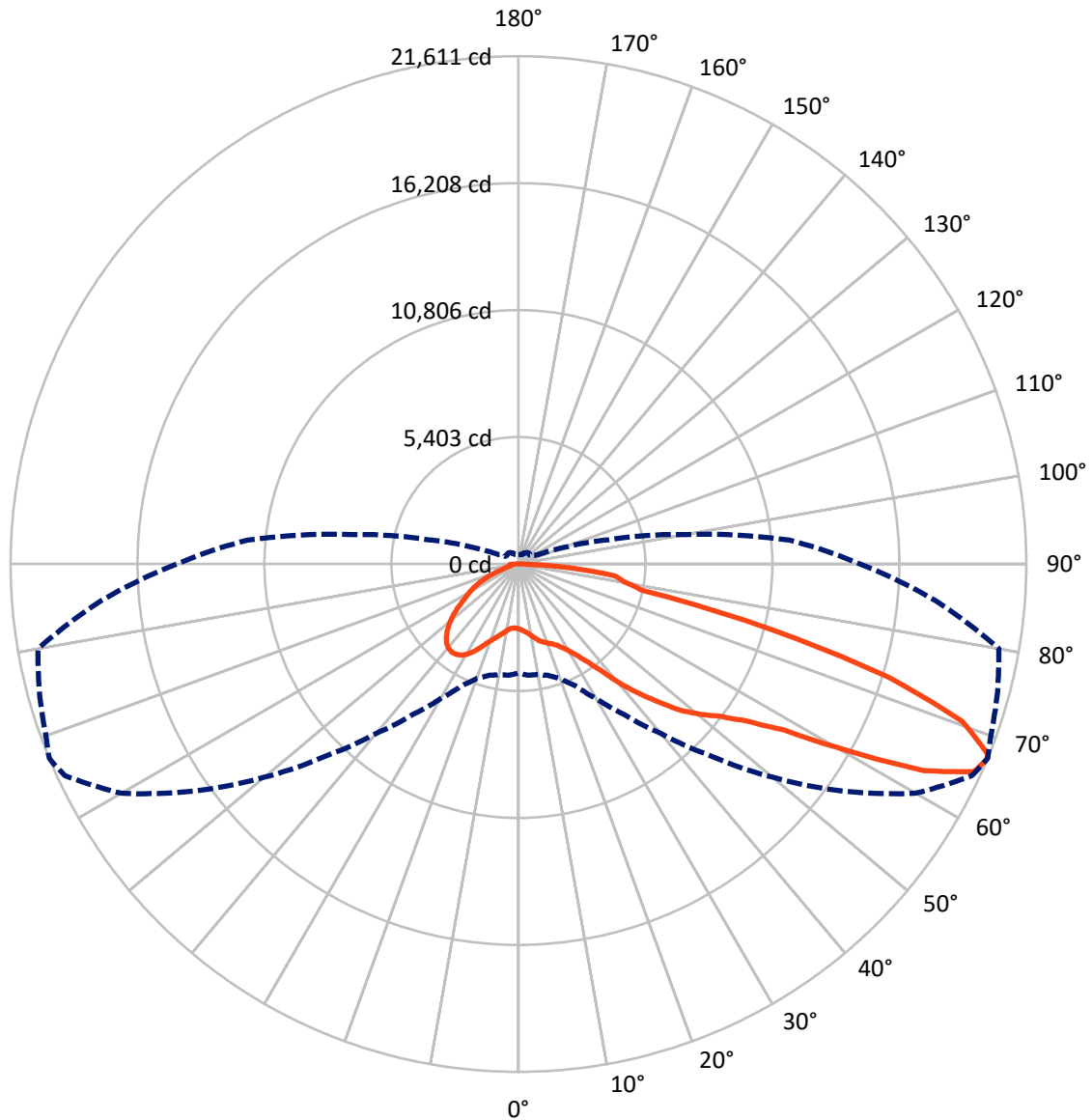


Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6108.4	0.0	6108.4
	% Fixture	24.0	0.0	24.0
Street Side	Lumens	19353.7	0.0	19353.7
	% Fixture	76.0	0.0	76.0
Total	Lumens	25462.1	0.0	25462.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.3	1.1
10°-20°	934.5	3.7
20°-30°	1668.4	6.6
30°-40°	2445.2	9.6
40°-50°	3778.1	14.8
50°-60°	5501.6	21.6
60°-70°	7166.8	28.1
70°-80°	3208.1	12.6
80°-90°	485.1	1.9
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°	25462.1	100.0
0°-180°	25462.1	100.0



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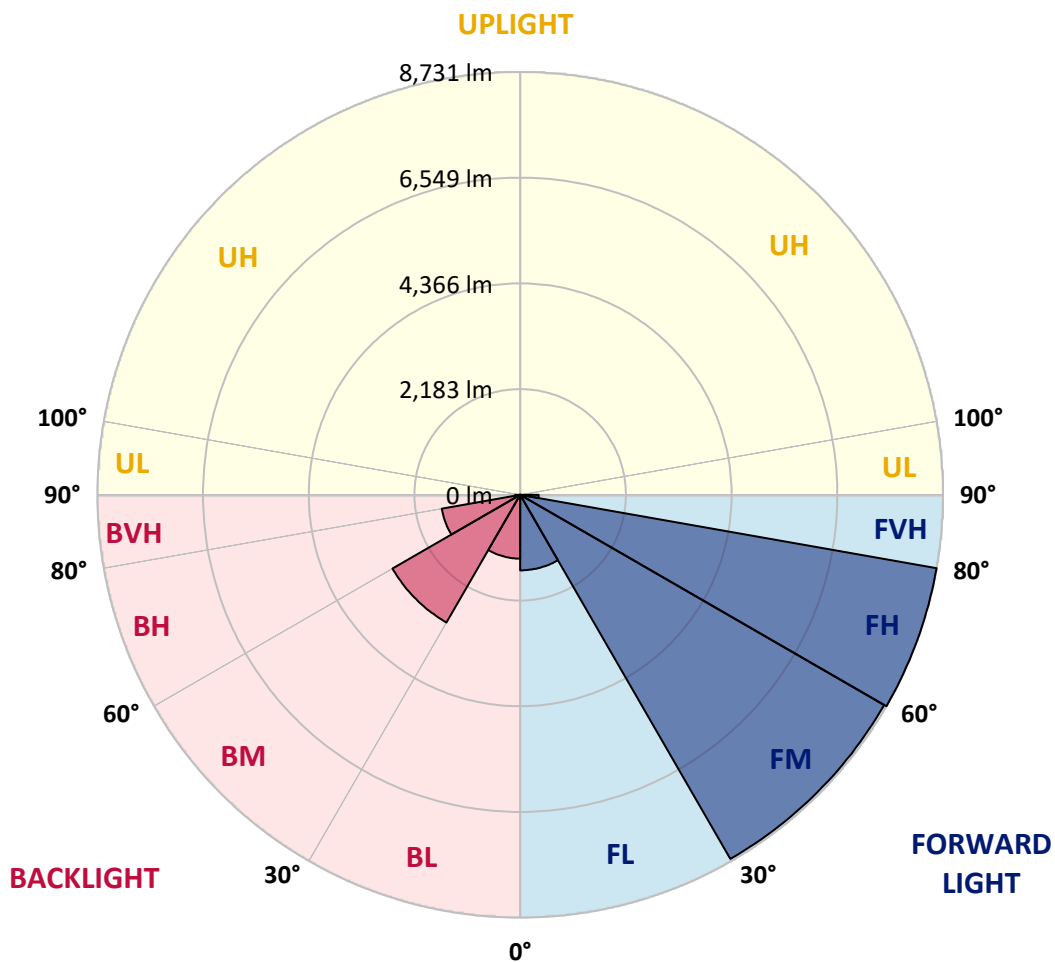
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1560.1	6.1			
FM	(30°-60°)	8681.2	34.1			
FH	(60°-80°)	8731.5	34.3			G4/12000
FVH	(80°-90°)	380.9	1.5			G3/500
BL	(0°-30°)	1317.2	5.2	B3/2500		
BM	(30°-60°)	3043.7	12.0	B3/5000		
BH	(60°-80°)	1643.4	6.5	B3/2500		G3/2500
BVH	(80°-90°)	104.2	0.4			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2759.9	2759.9	2759.9	2759.9	2759.9	2759.9	2759.9	2759.9	2759.9	2759.9	2759.9
2.5°	2867.9	2874.6	2876.3	2874.6	2876.3	2869.6	2867.9	2857.8	2862.8	2849.3	2845.9
5°	3023.2	3028.2	3031.6	3018.1	3021.5	3014.7	3006.3	2996.2	2982.7	2964.1	2952.3
7.5°	3175.1	3183.5	3181.8	3176.8	3165.0	3158.2	3141.3	3126.1	3102.5	3080.6	3065.4
10°	3379.3	3377.7	3377.7	3349.0	3332.1	3316.9	3286.5	3262.9	3239.2	3207.2	3190.3
12.5°	3615.7	3603.8	3598.8	3578.5	3543.1	3516.1	3472.2	3426.6	3384.4	3350.6	3323.6
15°	3843.5	3843.5	3830.0	3798.0	3764.2	3728.8	3666.3	3600.5	3531.3	3477.2	3450.2
17.5°	4051.2	4032.6	4020.8	3978.6	3943.1	3885.7	3816.5	3745.6	3659.5	3583.6	3531.3
20°	4203.1	4187.9	4162.6	4110.2	4049.5	3981.9	3900.9	3818.2	3725.4	3642.7	3583.6
22.5°	4290.8	4272.3	4233.5	4164.3	4081.5	3987.0	3892.5	3814.8	3730.4	3668.0	3619.0
25°	4336.4	4317.9	4265.5	4174.4	4063.0	3938.1	3830.0	3754.1	3705.1	3689.9	3683.2
27.5°	4334.7	4319.5	4263.8	4159.2	4015.7	3872.2	3755.8	3691.6	3686.6	3745.6	3789.5
30°	4290.8	4280.7	4230.1	4125.4	3975.2	3825.0	3716.9	3683.2	3735.5	3860.4	3968.4
32.5°	4247.0	4241.9	4206.5	4111.9	3983.6	3857.0	3782.8	3786.1	3894.2	4086.6	4260.5
35°	4252.0	4258.8	4253.7	4203.1	4122.1	4056.2	4020.8	4095.0	4263.8	4496.8	4729.7
37.5°	4295.9	4321.2	4353.3	4358.4	4360.1	4349.9	4424.2	4581.2	4827.6	5131.5	5496.1
40°	4392.1	4420.8	4513.7	4594.7	4699.3	4824.3	4974.5	5192.2	5497.8	5872.5	6319.8
42.5°	4690.9	4731.4	4846.2	4996.4	5188.9	5384.7	5609.2	5906.2	6281.0	6676.0	7145.2
45°	5080.8	5165.2	5291.8	5458.9	5747.6	6022.7	6313.1	6645.6	7043.9	7538.5	8011.2
47.5°	5567.0	5651.4	5835.4	6014.3	6355.3	6697.9	7015.3	7363.0	7795.1	8301.5	8824.8
50°	5992.3	6088.6	6252.3	6493.7	6888.7	7309.0	7660.1	8036.5	8399.4	8932.8	9461.1
52.5°	6326.6	6395.8	6552.7	6773.9	7214.4	7675.3	8119.2	8537.8	8968.2	9501.6	9991.2
55°	6368.8	6432.9	6586.5	6839.7	7287.0	7798.5	8309.9	8806.2	9415.6	9997.9	10646.1
57.5°	6186.5	6238.8	6394.1	6620.3	7055.8	7638.1	8284.6	8921.0	9700.8	10487.4	11279.1
60°	5928.2	5980.5	6102.1	6282.7	6676.0	7303.9	8058.4	8929.4	9965.8	11101.9	12266.6
62.5°	5644.6	5690.2	5788.1	5916.4	6262.4	6841.4	7705.6	8873.7	10181.9	11712.9	13508.9
65°	5166.9	5276.6	5318.8	5450.5	5796.5	6343.4	7222.9	8497.3	10094.1	11984.7	14288.8
67°	4638.6	4750.0	4771.9	4905.3	5182.1	5707.1	6601.7	7800.2	9398.7	11515.4	14116.6
67.5°	4469.8	4564.3	4598.1	4731.4	4993.1	5487.6	6336.7	7548.7	9186.0	11258.8	13909.0
70°	3286.5	3391.2	3428.3	3484.0	3671.4	4083.2	4645.3	5696.9	7324.2	9187.7	11733.2
72.5°	1758.9	1843.3	1878.7	1961.4	2057.6	2282.2	2712.6	3467.1	4495.1	6147.6	8347.1
75°	1190.0	1223.8	1249.1	1306.5	1406.1	1585.0	1774.1	2039.1	2660.3	3468.8	4750.0
77.5°	678.6	693.8	697.1	707.3	786.6	957.1	1267.7	1716.7	2201.1	2513.4	3038.4
80°	293.7	324.1	347.7	332.5	327.5	362.9	454.1	676.9	1326.8	2106.6	2499.9
82.5°	158.7	172.2	192.4	194.1	204.2	216.1	234.6	278.5	391.6	790.0	1723.4
85°	82.7	86.1	114.8	131.7	140.1	146.9	150.2	167.1	192.4	244.8	428.7
87.5°	11.8	16.9	20.3	27.0	30.4	32.1	37.1	47.3	55.7	67.5	114.8
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):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	2759.9	2759.9	2759.9	2759.9	2759.9	2759.9	2759.9	2759.9	2759.9	2759.9	2759.9
2.5°	2830.7	2827.4	2817.2	2810.5	2803.7	2797.0	2788.5	2781.8	2770.0	2761.5	2751.4
5°	2935.4	2915.1	2901.6	2883.1	2879.7	2857.8	2835.8	2825.7	2805.4	2788.5	2768.3
7.5°	3041.7	3018.1	2996.2	2981.0	2972.5	2942.2	2920.2	2894.9	2871.3	2849.3	2825.7
10°	3166.7	3143.0	3119.4	3109.3	3094.1	3065.4	3046.8	3014.7	2991.1	2964.1	2932.0
12.5°	3296.6	3279.7	3262.9	3249.4	3242.6	3229.1	3202.1	3175.1	3143.0	3116.0	3078.9
15°	3411.4	3399.6	3392.8	3389.5	3389.5	3381.0	3355.7	3330.4	3296.6	3266.2	3225.7
17.5°	3492.4	3487.4	3492.4	3497.5	3504.3	3497.5	3492.4	3463.7	3441.8	3404.7	3364.1
20°	3539.7	3549.8	3575.1	3592.0	3607.2	3619.0	3624.1	3600.5	3571.8	3544.8	3517.8
22.5°	3590.3	3619.0	3662.9	3688.2	3713.6	3755.8	3765.9	3749.0	3727.1	3710.2	3681.5
25°	3674.7	3716.9	3792.9	3833.4	3868.9	3931.3	3939.7	3943.1	3938.1	3924.6	3889.1
27.5°	3806.4	3889.1	3990.4	4042.7	4081.5	4162.6	4194.6	4194.6	4181.1	4196.3	4196.3
30°	4036.0	4145.7	4277.3	4307.7	4368.5	4439.4	4491.7	4498.5	4500.2	4532.2	4579.5
32.5°	4388.8	4493.4	4640.3	4674.0	4726.3	4793.9	4852.9	4846.2	4861.4	4930.6	4993.1
35°	4901.9	5008.2	5104.5	5150.0	5173.7	5234.4	5256.4	5293.5	5339.1	5425.2	5416.7
37.5°	5661.5	5756.0	5769.5	5798.2	5769.5	5781.3	5798.2	5842.1	5963.6	6041.3	5916.4
40°	6576.4	6733.4	6718.2	6684.4	6620.3	6534.2	6564.6	6632.1	6763.7	6696.2	6360.3
42.5°	7438.9	7601.0	7570.6	7531.8	7390.0	7357.9	7354.5	7410.2	7481.1	7288.7	6708.0
45°	8288.0	8453.4	8401.1	8379.1	8284.6	8215.4	8272.8	8276.2	8257.6	7845.7	7011.9
47.5°	9164.1	9316.0	9282.2	9300.8	9202.9	9157.3	9162.4	9138.7	8964.9	8318.4	7248.2
50°	9871.3	10075.6	10095.8	10053.6	10001.3	9932.1	10109.3	10045.2	9658.6	8777.5	7476.1
52.5°	10421.6	10696.7	10801.4	10774.4	10732.2	10740.6	11073.2	11145.7	10506.0	9356.5	7727.6
55°	11073.2	11507.0	11677.5	11778.7	11734.8	11903.6	12664.9	12702.1	11684.2	10112.7	8055.0
57.5°	12013.4	12634.5	13173.0	13316.5	13454.9	14003.5	15239.1	14862.7	13213.5	11257.2	8470.3
60°	13443.1	14803.6	15678.0	16137.1	16461.2	17227.5	18402.4	17448.7	15119.3	12619.4	8991.9
62.5°	15445.0	17433.5	18895.3	19356.1	19489.4	19930.0	20780.7	18956.0	16157.4	13230.4	9037.5
65°	16935.5	19320.6	21071.1	21307.4	21148.7	21157.2	21380.0	18876.7	15770.8	12697.0	8254.2
67°	16837.6	19508.0	21300.6	21611.2	21391.8	21103.1	20755.4	17801.5	14528.5	11579.6	7227.9
67.5°	16687.4	19327.4	21201.1	21528.5	21327.7	20998.5	20490.4	17384.5	14141.9	11231.8	7018.6
70°	14425.5	17046.9	19570.5	20031.3	20115.7	19815.2	18388.9	14658.4	11481.7	9137.0	5450.5
72.5°	11228.5	13562.9	16059.5	16459.5	16783.6	15917.7	13384.0	10124.5	8369.0	6584.8	3946.5
75°	7413.6	9788.6	11047.8	11106.9	10693.4	9089.8	6539.2	5070.7	4667.3	3870.5	2442.5
77.5°	3966.8	5756.0	5791.5	5362.7	5166.9	3852.0	1563.1	862.6	960.5	1090.4	972.3
80°	2959.0	3666.3	4248.7	4567.7	4662.2	3303.4	808.5	457.4	400.1	364.6	359.5
82.5°	2668.7	3541.4	3970.1	4144.0	4100.1	2717.7	454.1	307.2	254.9	276.8	315.7
85°	1046.5	1890.5	2486.4	2407.1	2022.2	1012.8	248.1	165.4	165.4	239.7	310.6
87.5°	214.4	388.2	526.7	503.0	452.4	195.8	121.5	99.6	101.3	194.1	293.7
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	2759.9	2759.9	2759.9	2759.9	2759.9	2759.9	2759.9	2759.9	2759.9	2759.9	2759.9
2.5°	2741.3	2731.2	2724.4	2717.7	2710.9	2707.5	2702.5	2702.5	2692.3	2689.0	2685.6
5°	2753.1	2736.2	2724.4	2709.2	2697.4	2687.3	2673.8	2670.4	2658.6	2650.1	2646.8
7.5°	2803.7	2778.4	2753.1	2734.5	2717.7	2695.7	2680.5	2667.0	2655.2	2646.8	2636.6
10°	2900.0	2872.9	2837.5	2803.7	2781.8	2748.0	2724.4	2700.8	2687.3	2677.1	2663.6
12.5°	3041.7	3002.9	2960.7	2920.2	2883.1	2839.2	2815.6	2786.9	2770.0	2761.5	2751.4
15°	3186.9	3144.7	3092.4	3053.6	3011.4	2977.6	2955.7	2930.3	2916.8	2906.7	2900.0
17.5°	3335.5	3286.5	3249.4	3210.5	3190.3	3165.0	3136.3	3104.2	3065.4	3041.7	3009.7
20°	3487.4	3450.2	3428.3	3406.3	3382.7	3347.3	3289.9	3224.0	3151.5	3082.3	3016.4
22.5°	3664.6	3642.7	3639.3	3619.0	3570.1	3485.7	3379.3	3256.1	3132.9	3018.1	2928.6
25°	3914.4	3914.4	3897.6	3814.8	3700.1	3548.1	3369.2	3192.0	3028.2	2871.3	2753.1
27.5°	4228.4	4216.6	4133.9	3963.4	3757.4	3521.1	3281.4	3056.9	2847.6	2675.5	2523.5
30°	4574.4	4491.7	4314.5	4046.1	3737.2	3433.4	3139.6	2879.7	2633.3	2422.3	2243.3
32.5°	4934.0	4733.1	4414.1	4046.1	3666.3	3301.7	2962.4	2643.4	2361.5	2125.2	1912.5
35°	5259.8	4893.5	4437.7	3980.3	3527.9	3107.6	2714.3	2353.0	2015.5	1760.6	1527.6
37.5°	5555.1	4999.8	4412.4	3852.0	3327.0	2834.1	2373.3	1974.9	1593.5	1347.0	1147.8
40°	5747.6	5021.7	4307.7	3651.1	3040.1	2464.5	1954.7	1509.1	1206.9	982.4	849.1
42.5°	5867.4	4979.5	4138.9	3376.0	2653.5	2000.3	1466.9	1082.0	857.5	732.6	681.9
45°	5934.9	4869.8	3889.1	2999.5	2185.9	1520.9	1041.5	781.5	660.0	616.1	599.2
47.5°	5931.6	4692.6	3576.8	2564.0	1669.4	1060.1	737.6	609.4	575.6	562.1	558.7
50°	5896.1	4474.8	3210.5	2091.4	1205.2	739.3	584.0	546.9	538.5	530.0	526.7
52.5°	5847.2	4204.8	2805.4	1630.6	855.8	590.8	530.0	519.9	513.1	504.7	501.3
55°	5756.0	3872.2	2366.6	1227.2	670.1	533.4	511.5	508.1	499.6	487.8	481.1
57.5°	5644.6	3534.6	1946.2	958.8	592.5	519.9	508.1	503.0	491.2	477.7	464.2
60°	5604.1	3256.1	1617.1	808.5	573.9	525.0	516.5	509.8	492.9	472.6	457.4
62.5°	5350.9	2942.2	1380.8	749.5	584.0	546.9	543.5	533.4	508.1	484.5	460.8
65°	4696.0	2488.1	1169.8	709.0	604.3	584.0	587.4	572.2	546.9	514.8	472.6
67°	3971.8	2029.0	974.0	670.1	619.5	622.9	634.7	622.9	590.8	545.2	487.8
67.5°	3779.4	1912.5	925.0	658.3	622.9	633.0	646.5	638.1	606.0	553.7	494.6
70°	2808.8	1347.0	690.4	595.9	622.9	663.4	693.8	702.2	666.8	594.2	508.1
72.5°	1978.3	869.3	530.0	516.5	565.5	619.5	676.9	705.6	665.1	585.7	489.5
75°	1188.3	543.5	430.4	438.9	476.0	531.7	577.3	589.1	538.5	487.8	423.7
77.5°	550.3	361.2	337.6	349.4	384.9	410.2	410.2	386.5	347.7	317.3	303.8
80°	324.1	295.4	293.7	315.7	339.3	320.7	292.0	259.9	239.7	229.6	224.5
82.5°	303.8	315.7	335.9	341.0	322.4	276.8	241.4	209.3	199.2	194.1	189.1
85°	357.9	383.2	349.4	322.4	285.3	232.9	189.1	162.0	157.0	151.9	145.2
87.5°	330.8	315.7	275.1	236.3	195.8	141.8	103.0	92.8	99.6	97.9	94.5
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°	2759.9	2759.9	2759.9	2759.9	2759.9
2.5°	2687.3	2687.3	2680.5	2677.1	2685.6
5°	2640.0	2641.7	2636.6	2634.9	2636.6
7.5°	2629.9	2628.2	2624.8	2621.4	2624.8
10°	2660.3	2658.6	2653.5	2656.9	2651.8
12.5°	2751.4	2761.5	2759.9	2763.2	2770.0
15°	2900.0	2898.3	2893.2	2896.6	2901.6
17.5°	2984.4	2970.8	2959.0	2954.0	2954.0
20°	2964.1	2925.3	2905.0	2893.2	2889.8
22.5°	2844.2	2788.5	2746.3	2736.2	2727.8
25°	2648.4	2579.2	2525.2	2513.4	2491.5
27.5°	2420.6	2327.7	2263.6	2250.1	2238.3
30°	2121.8	2015.5	1941.2	1893.9	1909.1
32.5°	1757.2	1655.9	1569.8	1493.9	1482.0
35°	1357.1	1245.7	1169.8	1136.0	1114.1
37.5°	1012.8	920.0	869.3	837.2	838.9
40°	774.8	725.8	698.8	676.9	678.6
42.5°	646.5	624.6	617.8	607.7	602.6
45°	585.7	579.0	580.7	570.5	567.2
47.5°	552.0	546.9	548.6	541.8	540.2
50°	525.0	521.6	523.3	518.2	516.5
52.5°	498.0	499.6	498.0	494.6	494.6
55°	474.3	472.6	476.0	470.9	470.9
57.5°	455.8	454.1	454.1	452.4	452.4
60°	445.6	438.9	437.2	437.2	438.9
62.5°	440.6	428.7	427.1	427.1	428.7
65°	442.3	423.7	416.9	415.2	413.6
67°	443.9	416.9	403.4	396.7	395.0
67.5°	445.6	413.6	398.4	391.6	388.2
70°	435.5	389.9	368.0	356.2	352.8
72.5°	410.2	361.2	334.2	319.0	315.7
75°	364.6	327.5	303.8	287.0	280.2
77.5°	281.9	265.0	256.6	246.4	243.1
80°	219.4	211.0	207.6	200.9	199.2
82.5°	182.3	173.9	168.8	160.4	155.3
85°	141.8	131.7	128.3	121.5	118.2
87.5°	92.8	87.8	86.1	77.6	74.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)