

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: P159723

Luminaire Tested: **VTS-F11-LED-E1-T4-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159723
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-F11-LED-E1-T4-8030
Description: VENTUS LED SITE LUMINAIRE
(11) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (77) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22811.1 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Luminous Opening: Rectangular (W 1.83' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

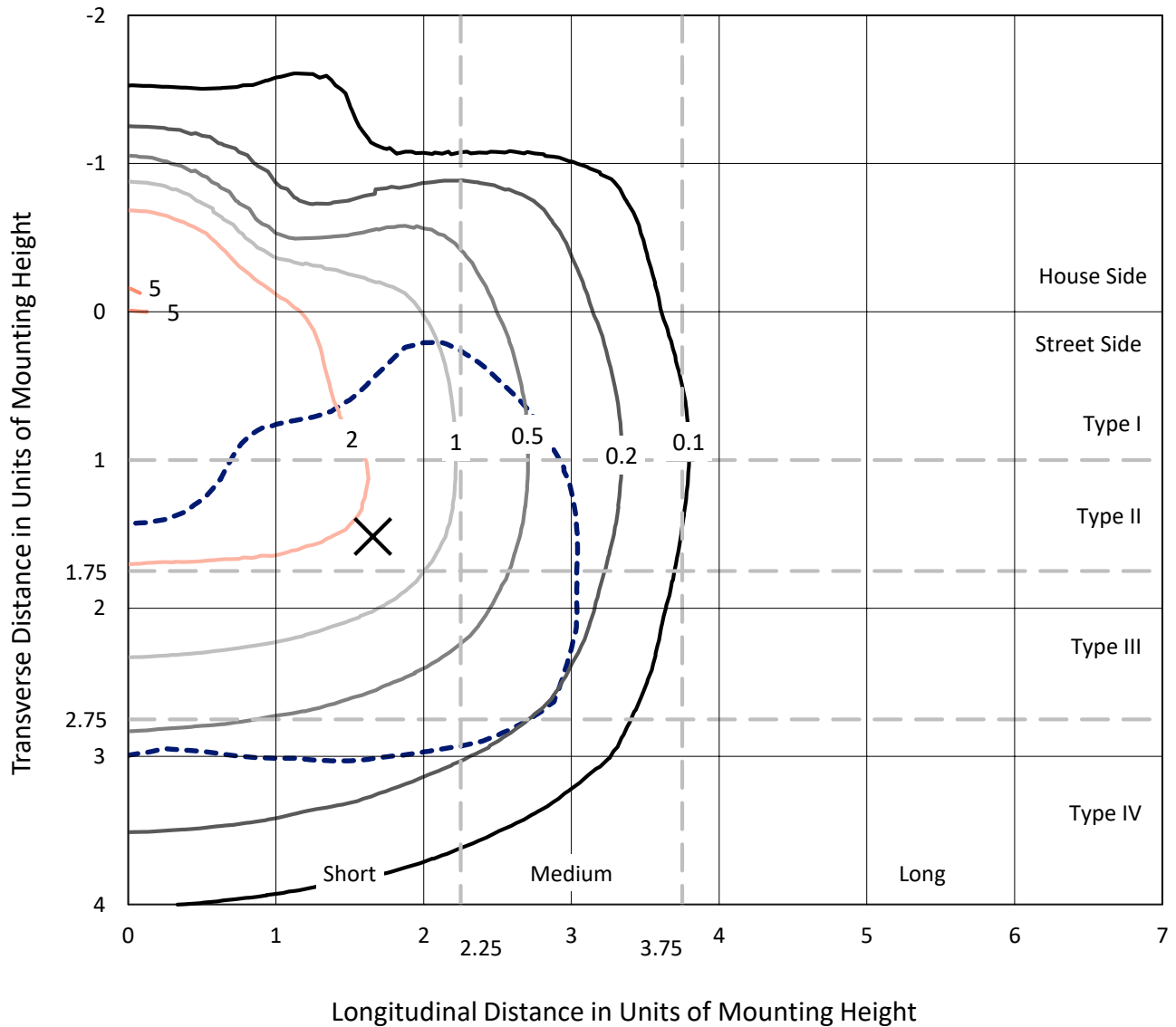
Input Watts (W): 282.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

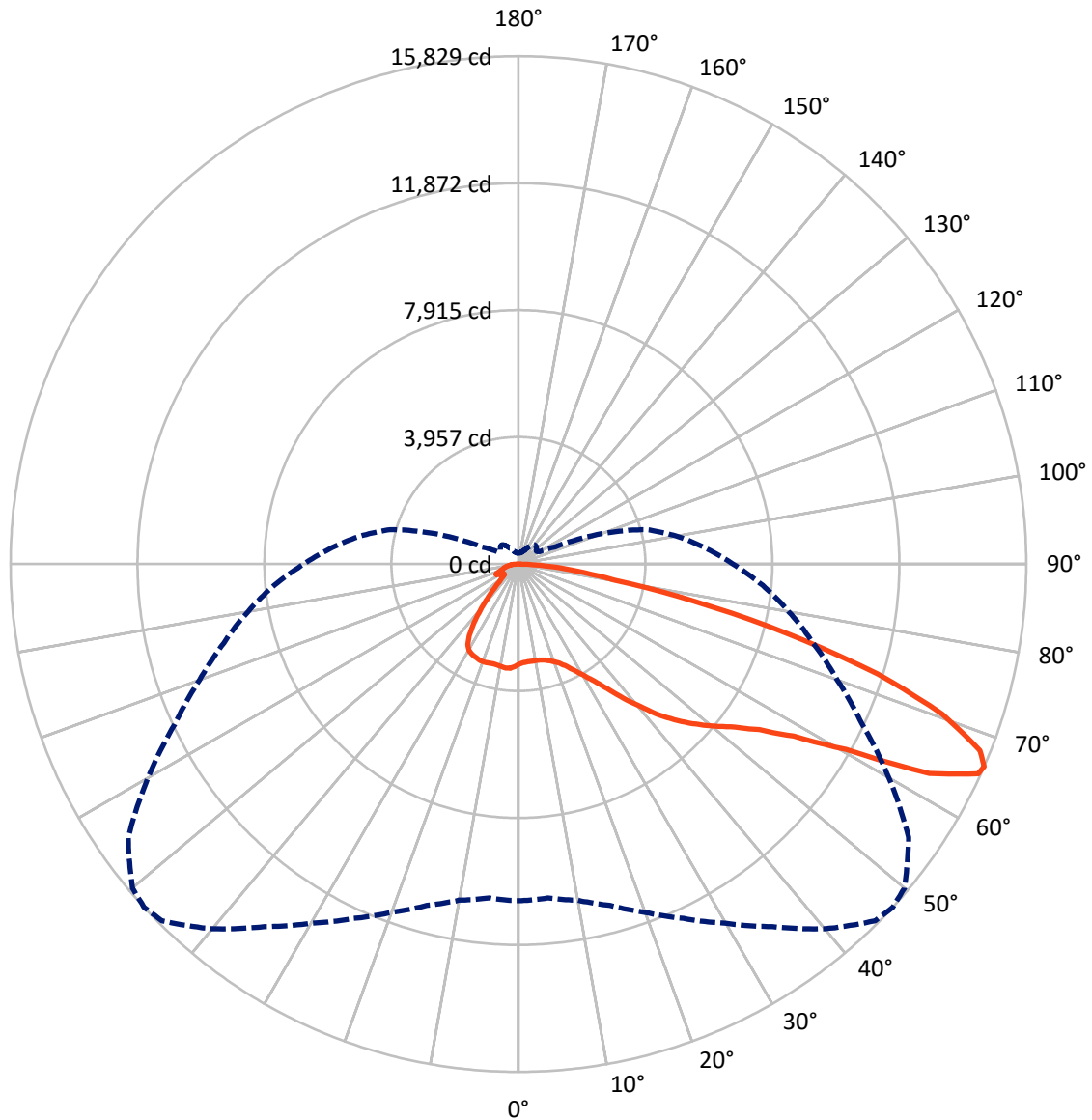


Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - Semi-Cutoff

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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
House Side	Lumens	4722.9	0.0	4722.9
	% Fixture	20.7	0.0	20.7
Street Side	Lumens	18088.2	0.0	18088.2
	% Fixture	79.3	0.0	79.3
Total	Lumens	22811.1	0.0	22811.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.8	1.3
10°-20°	902.0	4.0
20°-30°	1539.1	6.7
30°-40°	2323.0	10.2
40°-50°	3019.3	13.2
50°-60°	4142.2	18.2
60°-70°	6372.1	27.9
70°-80°	3683.5	16.1
80°-90°	529.2	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°	22811.1	100.0
0°-180°	22811.1	100.0



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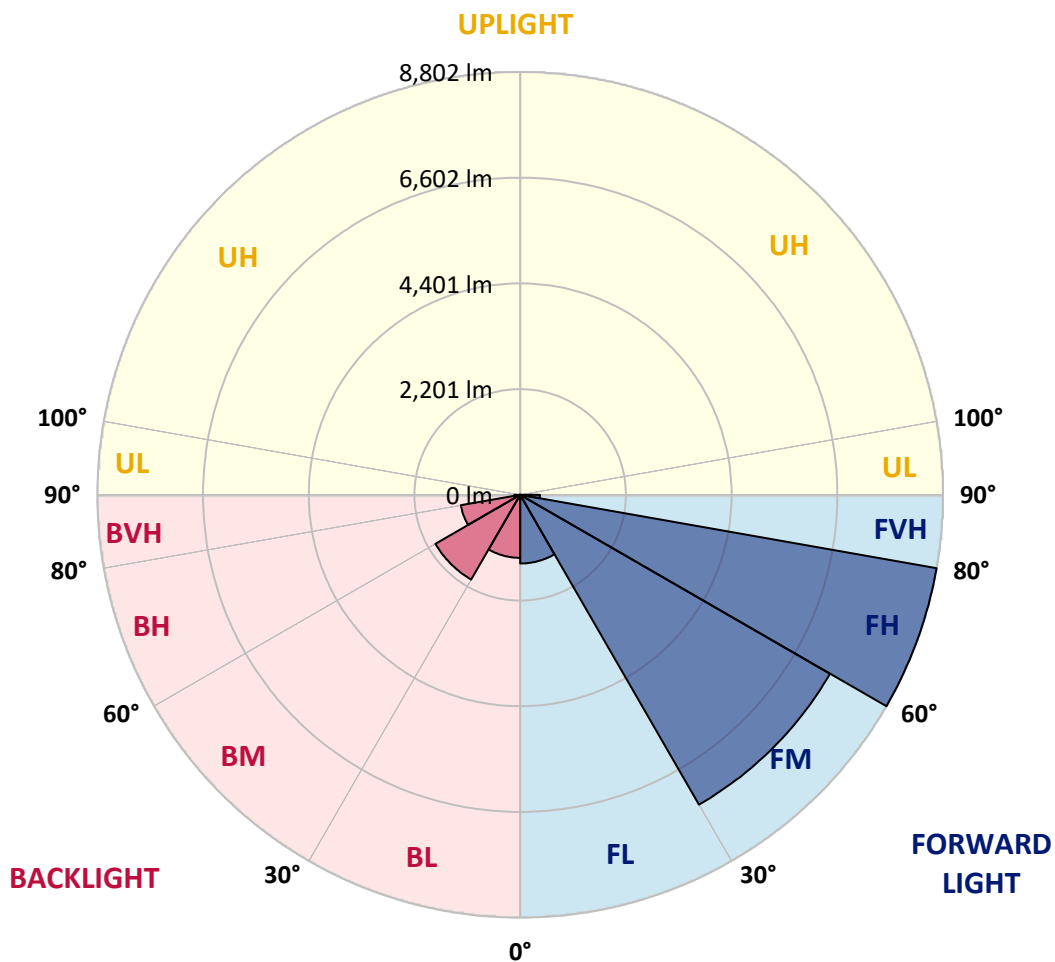
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1429.8	6.3			
FM	(30°-60°)	7446.8	32.6			
FH	(60°-80°)	8802.0	38.6			G4/12000
FVH	(80°-90°)	409.5	1.8			G3/500
BL	(0°-30°)	1312.1	5.8	B3/2500		
BM	(30°-60°)	2037.7	8.9	B2/2500		
BH	(60°-80°)	1253.5	5.5	B3/2500		G3/2500
BVH	(80°-90°)	119.7	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°	3120.8	3120.8	3120.8	3120.8	3120.8	3120.8	3120.8	3120.8	3120.8	3120.8	3120.8
2.5°	3041.1	3042.6	3044.2	3044.2	3048.8	3048.8	3056.4	3061.0	3062.6	3071.8	3077.9
5°	2984.4	2982.9	2984.4	2987.5	2995.1	3001.3	3016.6	3027.3	3036.5	3051.8	3059.5
7.5°	2959.9	2962.9	2966.0	2967.5	2973.7	2989.0	3002.8	3013.5	3031.9	3050.3	3058.0
10°	2992.1	2996.7	2992.1	2995.1	2995.1	3008.9	3015.1	3022.7	3036.5	3053.4	3058.0
12.5°	3067.2	3076.4	3067.2	3059.5	3053.4	3065.6	3062.6	3056.4	3064.1	3068.7	3068.7
15°	3191.3	3191.3	3185.2	3174.5	3159.1	3160.7	3146.9	3133.1	3126.9	3116.2	3108.6
17.5°	3312.4	3309.4	3295.6	3281.8	3271.0	3266.4	3246.5	3228.1	3206.7	3189.8	3171.4
20°	3430.4	3442.7	3425.8	3405.9	3389.1	3378.3	3363.0	3326.2	3300.2	3272.6	3254.2
22.5°	3634.3	3623.6	3605.2	3576.1	3559.2	3540.8	3508.6	3468.8	3428.9	3395.2	3372.2
25°	3844.3	3833.6	3807.5	3786.1	3761.5	3746.2	3711.0	3661.9	3623.6	3571.5	3540.8
27.5°	4069.6	4060.4	4029.8	4012.9	3996.1	3977.7	3947.0	3896.4	3861.2	3801.4	3769.2
30°	4324.1	4322.5	4281.2	4278.1	4253.6	4233.6	4212.2	4169.3	4134.0	4074.2	4035.9
32.5°	4595.4	4589.3	4560.1	4550.9	4567.8	4554.0	4523.3	4478.9	4432.9	4397.7	4354.7
35°	4981.7	4970.9	4954.1	4961.7	4972.5	5010.8	4963.3	4924.9	4869.8	4823.8	4764.0
37.5°	5263.7	5248.4	5268.3	5311.2	5372.5	5401.7	5443.0	5444.6	5418.5	5357.2	5305.1
40°	5522.7	5516.6	5562.6	5622.4	5735.8	5818.6	5896.8	5935.1	5944.3	5904.4	5826.2
42.5°	5741.9	5760.3	5821.6	5913.6	6073.0	6198.7	6344.3	6434.8	6491.5	6470.0	6434.8
45°	6002.5	6011.7	6086.8	6203.3	6355.1	6563.5	6755.1	6908.4	7008.0	7006.5	6966.7
47.5°	6329.0	6330.5	6394.9	6531.3	6693.8	6905.3	7147.5	7351.4	7483.2	7489.3	7458.7
50°	6716.8	6713.7	6784.3	6913.0	7086.2	7290.1	7547.6	7802.0	7986.0	7986.0	7941.5
52.5°	7216.5	7210.4	7248.7	7362.1	7529.2	7743.8	7999.8	8294.1	8493.3	8536.3	8439.7
55°	7883.3	7892.5	7901.7	8001.3	8143.9	8314.0	8608.3	8879.6	9146.3	9170.9	9114.1
57.5°	8654.3	8623.6	8689.5	8852.0	9014.5	9227.6	9436.0	9756.4	10072.1	10125.8	10118.1
60°	9859.1	9819.2	9886.7	10093.6	10272.9	10608.6	10965.8	11379.6	11753.7	11864.0	11730.7
62.5°	10967.3	11016.4	11108.3	11349.0	11609.6	12057.1	12593.6	13303.3	14013.0	14399.3	14371.7
65°	10867.7	10821.7	10998.0	11326.0	11798.1	12368.3	13035.1	13890.4	14912.8	15688.4	15757.4
66°	10498.3	10450.8	10640.8	11016.4	11555.9	12190.5	12930.9	13801.5	14846.9	15723.6	15829.4
67.5°	9888.2	9840.7	10055.3	10397.1	10953.5	11752.1	12552.2	13504.1	14590.9	15430.9	15516.7
70°	8711.0	8646.6	8813.7	9200.0	9650.6	10423.2	11185.0	12193.6	13309.5	13980.8	14013.0
72.5°	7379.0	7228.8	7406.6	7703.9	8025.8	8665.0	9328.7	10018.5	10907.5	11528.3	11706.1
75°	5354.1	5432.3	5484.4	5680.6	5893.7	6422.5	6811.8	7389.7	8078.0	8527.1	8669.6
77.5°	2840.3	2958.3	3031.9	3228.1	3580.7	3983.8	4405.3	4762.5	5214.6	5466.0	5640.8
80°	1594.1	1676.9	1796.5	1951.3	2123.0	2432.6	2682.4	2866.4	2930.7	2975.2	3015.1
82.5°	876.8	1086.8	1264.6	1371.9	1473.0	1597.2	1745.9	1899.2	1948.2	1874.6	1836.3
85°	136.4	200.8	611.6	746.5	812.4	907.4	1014.7	1128.2	1129.7	971.8	1060.7
87.5°	38.3	42.9	87.4	131.8	128.8	104.2	128.8	234.5	138.0	69.0	79.7
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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CATALOG NUMBER: VTS-F11-LED-E1-T4-8030

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	3120.8	3120.8	3120.8	3120.8	3120.8	3120.8	3120.8	3120.8	3120.8	3120.8	3120.8
2.5°	3081.0	3084.0	3091.7	3099.4	3107.0	3114.7	3119.3	3126.9	3133.1	3142.3	3153.0
5°	3068.7	3076.4	3090.2	3107.0	3122.4	3136.1	3146.9	3162.2	3176.0	3188.3	3206.7
7.5°	3068.7	3084.0	3107.0	3125.4	3139.2	3156.1	3172.9	3188.3	3203.6	3215.9	3228.1
10°	3070.2	3085.6	3108.6	3130.0	3145.3	3163.7	3177.5	3191.3	3208.2	3215.9	3231.2
12.5°	3076.4	3082.5	3099.4	3120.8	3139.2	3157.6	3171.4	3185.2	3203.6	3206.7	3217.4
15°	3107.0	3097.8	3102.4	3117.8	3137.7	3153.0	3168.3	3179.1	3191.3	3188.3	3197.5
17.5°	3163.7	3140.7	3131.5	3133.1	3142.3	3153.0	3159.1	3160.7	3162.2	3148.4	3149.9
20°	3240.4	3208.2	3186.7	3176.0	3163.7	3153.0	3136.1	3116.2	3097.8	3070.2	3067.2
22.5°	3355.3	3307.8	3284.8	3255.7	3218.9	3172.9	3131.5	3082.5	3042.6	3001.3	2985.9
25°	3522.4	3473.4	3448.8	3402.9	3336.9	3271.0	3211.3	3145.3	3087.1	3038.0	3015.1
27.5°	3746.2	3697.2	3671.1	3623.6	3542.3	3476.4	3393.7	3323.1	3252.6	3180.6	3151.5
30°	4017.5	3974.6	3945.5	3907.2	3836.6	3764.6	3668.0	3559.2	3447.3	3332.3	3275.6
32.5°	4337.9	4290.4	4268.9	4224.4	4150.9	4075.8	3968.5	3829.0	3642.0	3461.1	3347.7
35°	4737.9	4684.3	4659.8	4601.5	4515.7	4405.3	4290.4	4103.4	3850.4	3599.1	3413.6
37.5°	5272.9	5153.3	5072.1	4938.7	4800.8	4646.0	4482.0	4290.4	3991.5	3680.3	3422.8
40°	5746.5	5625.4	5469.1	5277.5	5062.9	4849.8	4662.8	4445.2	4120.2	3738.5	3393.7
42.5°	6335.1	6120.5	5870.7	5611.6	5326.5	5064.4	4842.2	4586.2	4207.6	3753.9	3312.4
45°	6873.2	6617.2	6283.0	5938.1	5584.1	5254.5	5004.7	4719.5	4282.7	3753.9	3214.3
47.5°	7363.7	7057.1	6657.0	6227.8	5815.5	5455.3	5171.7	4856.0	4388.5	3801.4	3185.2
50°	7817.4	7464.8	7009.6	6511.4	6048.5	5663.8	5358.7	5030.7	4549.4	3924.0	3255.7
52.5°	8295.6	7921.6	7366.7	6837.9	6327.5	5915.1	5590.2	5246.8	4757.9	4117.1	3379.9
55°	8922.5	8484.1	7854.2	7271.7	6710.7	6255.4	5886.0	5505.9	4986.3	4334.8	3531.6
57.5°	9911.2	9275.1	8645.1	7887.9	7359.1	6759.7	6355.1	5918.2	5357.2	4618.4	3760.0
60°	11641.8	10860.0	10102.8	9232.2	8579.2	7952.3	7340.7	6770.5	6094.5	5259.1	4261.2
62.5°	14112.7	13318.7	12129.2	11063.9	10078.3	9247.5	8450.4	7725.4	6857.8	5944.3	4879.0
65°	15588.8	14679.8	13261.9	11830.3	10633.2	9603.1	8691.1	7803.6	6867.0	5976.5	5066.0
66°	15706.8	14846.9	13332.5	11819.6	10576.4	9508.1	8559.3	7641.1	6681.6	5829.3	5004.7
67.5°	15487.6	14747.2	13188.4	11611.1	10340.4	9186.2	8211.3	7248.7	6284.6	5495.2	4800.8
70°	13941.0	13406.0	12069.4	10591.8	9324.1	8306.3	7277.8	6352.0	5438.4	4774.7	4259.7
72.5°	11428.7	10751.2	9816.2	8822.9	7825.0	6922.2	5987.2	5199.3	4432.9	3950.1	3585.3
75°	8395.2	7785.2	6755.1	6135.9	5476.8	4909.6	4279.6	3533.1	2989.0	2746.8	2657.9
77.5°	5321.9	4659.8	3790.7	3107.0	2671.7	2296.2	1810.3	1439.3	1152.7	1200.2	1329.0
80°	2688.6	2316.1	1733.6	1368.8	1183.3	984.1	778.7	590.1	430.7	492.0	556.4
82.5°	1726.0	1440.8	1148.1	904.4	763.3	672.9	538.0	390.9	291.2	328.0	401.6
85°	1039.3	878.3	700.5	573.3	498.2	415.4	305.0	216.1	214.6	229.9	283.6
87.5°	157.9	225.3	130.3	139.5	147.2	157.9	139.5	118.0	102.7	133.4	168.6
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°	3120.8	3120.8	3120.8	3120.8	3120.8	3120.8	3120.8	3120.8	3120.8	3120.8	3120.8
2.5°	3163.7	3166.8	3172.9	3180.6	3179.1	3189.8	3195.9	3189.8	3203.6	3203.6	3211.3
5°	3222.0	3226.6	3237.3	3245.0	3248.0	3257.2	3260.3	3258.8	3261.8	3263.4	3266.4
7.5°	3238.8	3251.1	3255.7	3260.3	3261.8	3264.9	3264.9	3261.8	3261.8	3260.3	3263.4
10°	3234.2	3238.8	3241.9	3240.4	3240.4	3237.3	3235.8	3234.2	3234.2	3231.2	3235.8
12.5°	3218.9	3218.9	3218.9	3215.9	3215.9	3214.3	3214.3	3214.3	3217.4	3218.9	3226.6
15°	3188.3	3188.3	3191.3	3189.8	3194.4	3202.1	3211.3	3217.4	3225.0	3226.6	3231.2
17.5°	3140.7	3142.3	3151.5	3171.4	3191.3	3214.3	3231.2	3235.8	3229.6	3214.3	3203.6
20°	3058.0	3077.9	3114.7	3162.2	3206.7	3235.8	3243.4	3225.0	3195.9	3156.1	3134.6
22.5°	2984.4	3024.3	3090.2	3168.3	3223.5	3243.4	3220.5	3177.5	3125.4	3079.4	3047.2
25°	3013.5	3059.5	3128.5	3195.9	3231.2	3220.5	3174.5	3113.2	3058.0	3004.3	2952.2
27.5°	3136.1	3182.1	3231.2	3251.1	3238.8	3199.0	3134.6	3068.7	2995.1	2918.5	2854.1
30°	3252.6	3278.7	3281.8	3261.8	3217.4	3153.0	3077.9	3001.3	2907.8	2815.8	2734.5
32.5°	3289.4	3258.8	3203.6	3146.9	3085.6	3019.7	2932.3	2831.1	2731.5	2627.3	2536.8
35°	3278.7	3154.5	3018.1	2897.0	2823.5	2748.3	2668.6	2533.7	2421.9	2332.9	2274.7
37.5°	3182.1	2955.3	2745.3	2569.0	2454.0	2365.1	2247.1	2135.2	2038.6	1998.8	1951.3
40°	3047.2	2700.8	2409.6	2162.8	2043.2	1929.8	1798.0	1712.2	1684.6	1647.8	1649.3
42.5°	2854.1	2403.5	2027.9	1744.3	1614.1	1489.9	1396.4	1345.8	1347.3	1316.7	1322.8
45°	2650.2	2104.6	1632.5	1350.4	1221.7	1115.9	1063.8	1048.4	1050.0	1051.5	1042.3
47.5°	2526.1	1871.6	1309.0	1023.9	910.5	850.7	823.1	815.5	817.0	818.5	807.8
50°	2507.7	1750.5	1092.9	783.3	709.7	676.0	662.2	654.5	654.5	648.4	639.2
52.5°	2559.8	1719.8	987.1	679.0	608.5	577.9	567.1	561.0	551.8	539.6	522.7
55°	2642.6	1747.4	954.9	643.8	574.8	544.2	530.4	527.3	512.0	489.0	461.4
57.5°	2795.9	1847.0	976.4	653.0	580.9	553.3	544.2	541.1	519.6	484.4	449.1
60°	3235.8	2136.7	1083.7	705.1	625.4	602.4	602.4	597.8	568.7	518.1	467.5
62.5°	3842.8	2561.3	1229.3	777.1	686.7	683.6	709.7	711.2	659.1	577.9	498.2
65°	4135.5	2760.6	1279.9	792.5	703.6	738.8	790.9	790.9	717.4	605.5	502.8
66°	4137.1	2756.0	1264.6	774.1	685.2	731.2	784.8	784.8	708.2	597.8	495.1
67.5°	4031.3	2670.2	1214.0	740.4	643.8	686.7	734.2	732.7	663.7	567.1	473.6
70°	3615.9	2362.1	1069.9	685.2	594.7	596.3	613.1	602.4	556.4	490.5	430.7
72.5°	3117.8	1975.8	927.4	649.9	556.4	527.3	513.5	504.3	475.2	435.3	398.5
75°	2391.2	1534.4	807.8	617.7	522.7	472.1	453.7	446.1	426.1	403.1	374.0
77.5°	1465.4	1051.5	685.2	565.6	484.4	438.4	418.5	403.1	383.2	361.7	341.8
80°	631.5	634.6	548.7	479.8	421.5	367.9	341.8	323.4	312.7	305.0	294.3
82.5°	441.5	455.2	418.5	372.5	321.9	283.6	260.6	256.0	257.5	257.5	254.4
85°	331.1	325.0	292.8	266.7	243.7	219.2	200.8	199.3	205.4	205.4	200.8
87.5°	191.6	193.1	165.5	154.8	160.9	138.0	125.7	127.2	142.6	141.0	138.0
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°	3120.8	3120.8	3120.8	3120.8	3120.8
2.5°	3211.3	3215.9	3214.3	3218.9	3214.3
5°	3271.0	3269.5	3268.0	3274.1	3266.4
7.5°	3261.8	3263.4	3263.4	3263.4	3261.8
10°	3238.8	3245.0	3248.0	3254.2	3252.6
12.5°	3231.2	3240.4	3249.6	3258.8	3260.3
15°	3232.7	3238.8	3243.4	3248.0	3249.6
17.5°	3192.9	3191.3	3186.7	3183.7	3180.6
20°	3111.6	3104.0	3096.3	3084.0	3090.2
22.5°	3010.5	2989.0	2964.5	2944.5	2943.0
25°	2892.4	2852.6	2812.7	2786.7	2777.5
27.5°	2788.2	2740.7	2699.3	2676.3	2670.2
30°	2664.0	2621.1	2584.3	2564.4	2552.1
32.5°	2480.1	2446.4	2400.4	2385.1	2383.5
35°	2224.1	2198.1	2165.9	2159.7	2152.1
37.5°	1934.4	1925.2	1909.9	1891.5	1888.4
40°	1624.8	1630.9	1626.3	1615.6	1598.7
42.5°	1325.9	1336.6	1338.2	1345.8	1353.5
45°	1056.1	1065.3	1065.3	1073.0	1082.2
47.5°	810.9	804.7	809.3	817.0	821.6
50°	613.1	608.5	600.9	594.7	588.6
52.5°	493.6	484.4	462.9	456.8	450.6
55°	435.3	418.5	403.1	397.0	397.0
57.5°	418.5	397.0	380.1	372.5	369.4
60°	421.5	390.9	369.4	357.1	352.5
62.5°	435.3	392.4	363.3	349.5	344.9
65°	433.8	389.3	361.7	346.4	341.8
66°	426.1	384.7	358.7	344.9	341.8
67.5°	413.9	378.6	355.6	343.4	338.8
70°	389.3	366.3	349.5	338.8	334.2
72.5°	369.4	354.1	338.8	326.5	323.4
75°	351.0	335.7	321.9	315.8	311.2
77.5°	323.4	309.6	302.0	295.8	292.8
80°	286.6	277.4	268.2	262.1	257.5
82.5°	249.8	237.6	228.4	223.8	220.7
85°	203.9	196.2	182.4	173.2	171.7
87.5°	136.4	128.8	124.2	116.5	108.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)