

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: P158623

Luminaire Tested: **VTS-F11-LED-E1-SL4-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158623
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33714)
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-SL4-8030
Description: VENTUS LED SITE LUMINAIRE
(11) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (77) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

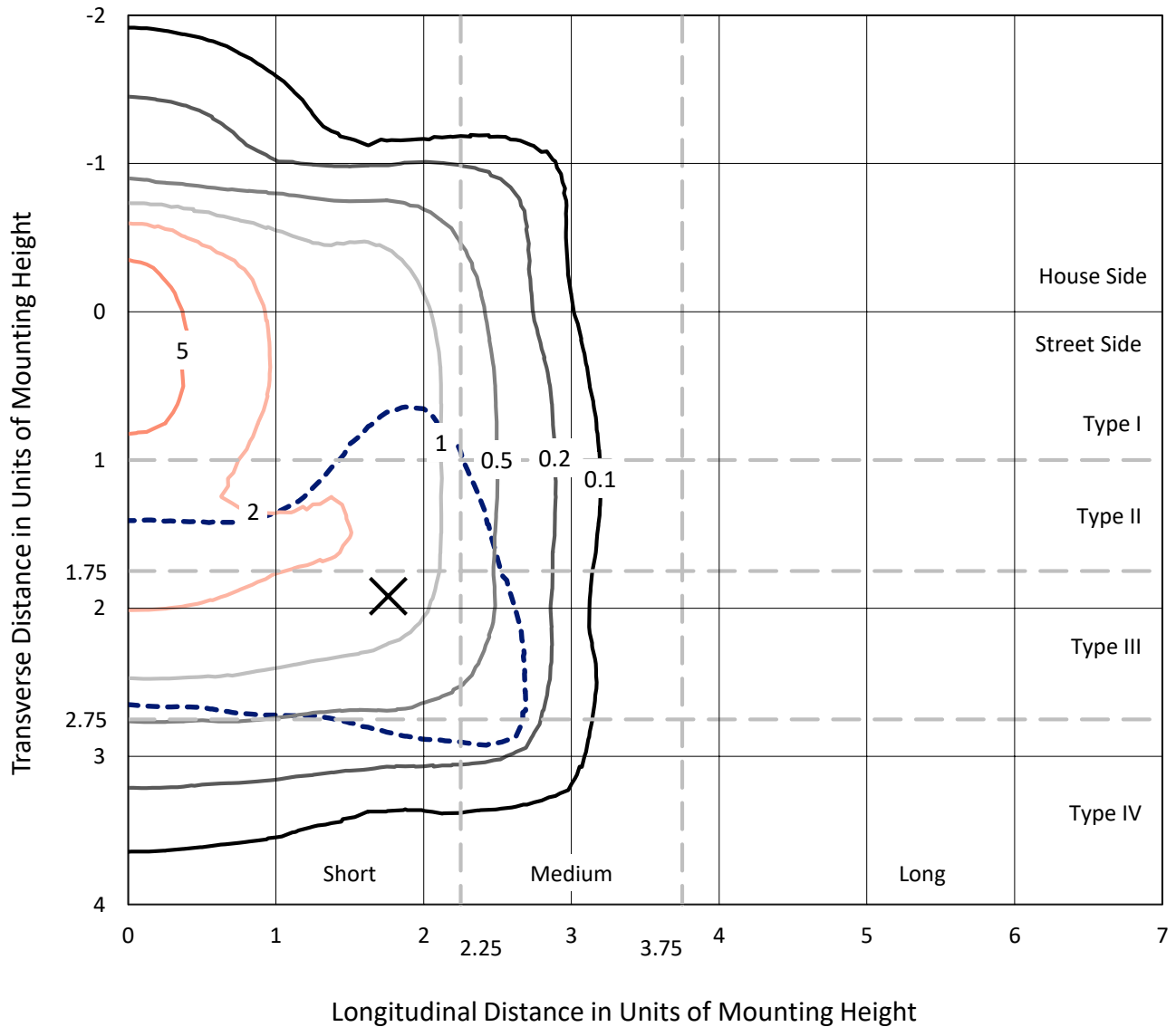
Lumens per Lamp: N/A
Luminaire Lumens: 22233 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Luminous Opening: Rectangular (W 1.83' x L: 1' x H: 0')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

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

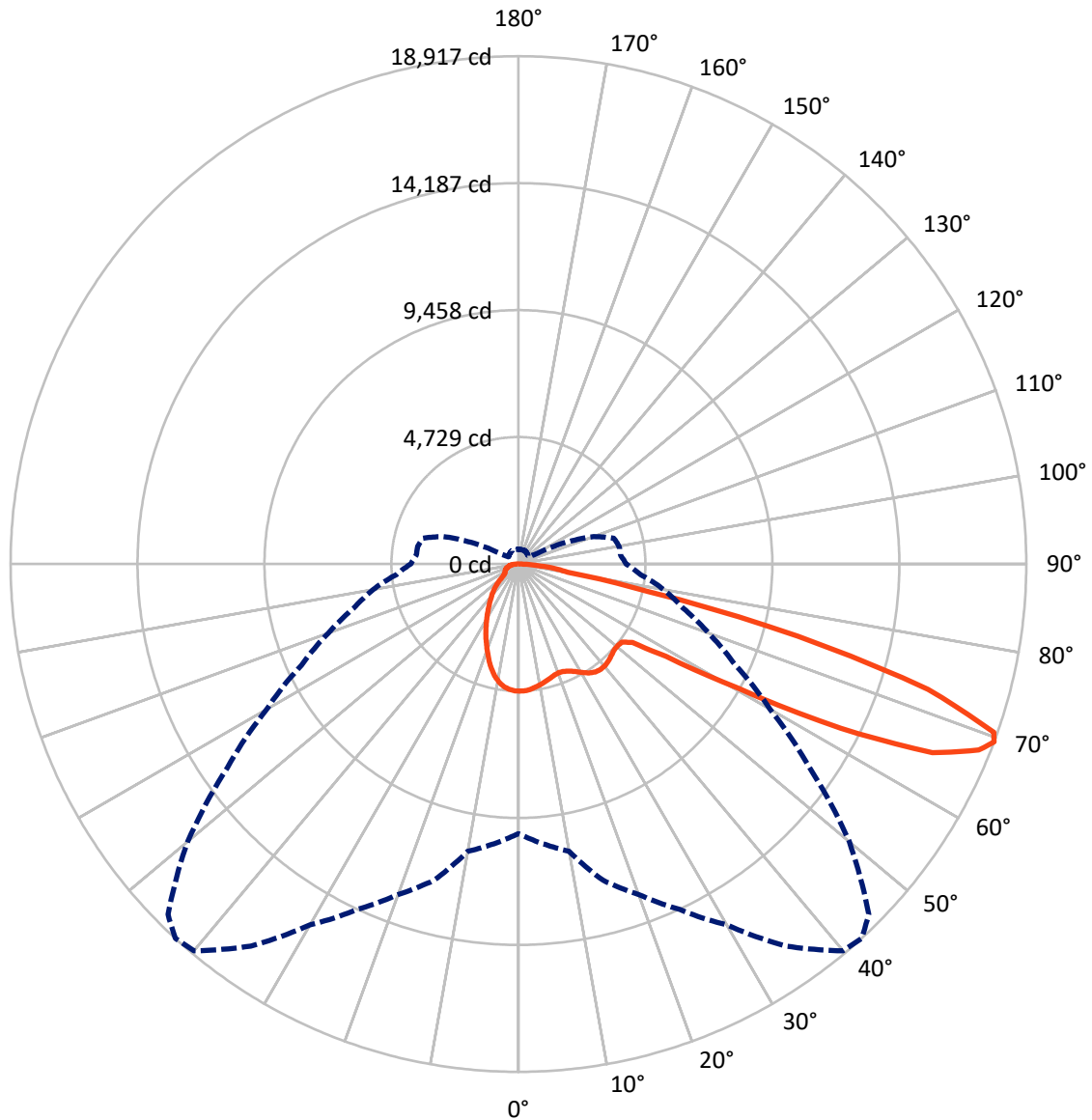


Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 42.5-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4942.7	0.0	4942.7
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	17290.3	0.0	17290.3
	% Fixture	77.8	0.0	77.8
Total	Lumens	22233.0	0.0	22233.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	440.8	2.0
10°-20°	1187.9	5.3
20°-30°	1732.2	7.8
30°-40°	2208.2	9.9
40°-50°	2569.3	11.6
50°-60°	3909.2	17.6
60°-70°	6905.5	31.1
70°-80°	2849.6	12.8
80°-90°	430.3	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°	22233.0	100.0
0°-180°	22233.0	100.0

Coefficient of Utilization



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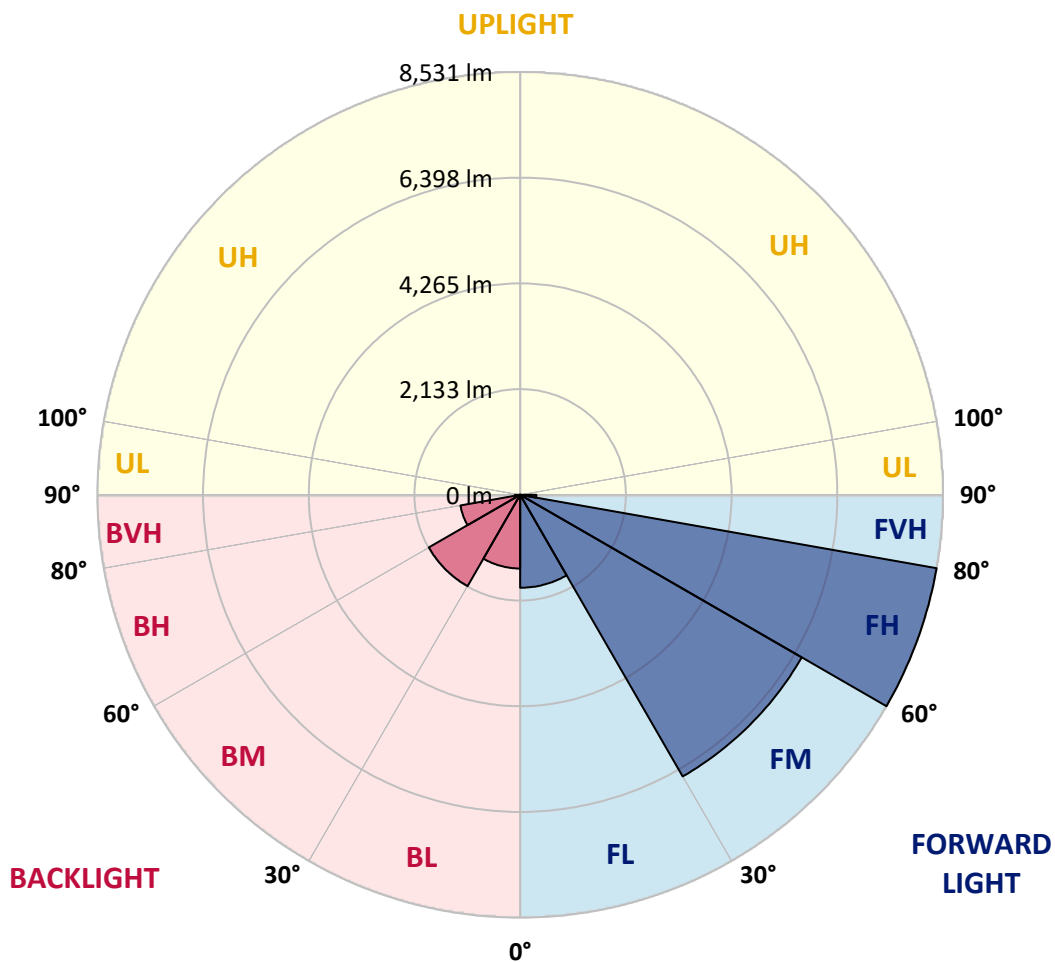
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1874.8	8.4			
FM	(30°-60°)	6559.3	29.5			
FH	(60°-80°)	8530.8	38.4			G4/12000
FVH	(80°-90°)	325.4	1.5			G3/500
BL	(0°-30°)	1486.1	6.7	B3/2500		
BM	(30°-60°)	2127.5	9.6	B2/2500		
BH	(60°-80°)	1224.3	5.5	B3/2500		G3/2500
BVH	(80°-90°)	104.9	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°	42.5°	45°
0°	4734.9	4734.9	4734.9	4734.9	4734.9	4734.9	4734.9	4734.9	4734.9	4734.9	4734.9
2.5°	4719.5	4736.4	4730.3	4730.3	4734.9	4727.2	4727.2	4730.3	4722.6	4727.2	4725.7
5°	4702.7	4711.9	4708.8	4708.8	4708.8	4702.7	4699.6	4698.1	4687.4	4687.4	4682.8
7.5°	4665.9	4669.0	4673.6	4667.4	4665.9	4664.4	4653.6	4647.5	4635.2	4624.5	4627.6
10°	4616.8	4615.3	4623.0	4618.4	4612.2	4607.7	4598.5	4587.7	4573.9	4560.1	4558.6
12.5°	4561.7	4560.1	4566.3	4563.2	4558.6	4549.4	4541.7	4523.3	4501.9	4485.0	4483.5
15°	4526.4	4521.8	4527.9	4521.8	4514.1	4505.0	4491.2	4468.2	4429.8	4413.0	4399.2
17.5°	4560.1	4552.5	4555.5	4547.9	4537.1	4512.6	4480.4	4431.4	4376.2	4347.1	4325.6
20°	4678.2	4664.4	4667.4	4659.8	4635.2	4603.1	4541.7	4455.9	4362.4	4314.9	4281.2
22.5°	4846.8	4836.0	4840.6	4833.0	4808.5	4759.4	4667.4	4544.8	4411.5	4342.5	4288.8
25°	5102.8	5111.9	5115.0	5079.8	5066.0	4975.5	4848.3	4678.2	4500.4	4419.1	4345.5
27.5°	5390.9	5390.9	5404.7	5390.9	5363.3	5257.6	5078.2	4872.8	4644.4	4534.1	4445.2
30°	5671.4	5668.4	5694.4	5691.4	5646.9	5527.3	5323.5	5073.6	4813.0	4688.9	4575.5
32.5°	5968.8	5978.0	5994.9	5988.7	5930.5	5764.9	5519.7	5248.4	4974.0	4837.6	4710.4
35°	6290.7	6295.3	6301.4	6298.4	6180.3	5971.9	5663.8	5360.3	5075.2	4940.3	4808.5
37.5°	6612.6	6608.0	6600.3	6534.4	6399.5	6109.8	5751.1	5424.6	5125.7	4980.1	4843.7
40°	6900.7	6874.7	6850.2	6747.5	6540.5	6188.0	5784.9	5440.0	5121.1	4970.9	4837.6
42.5°	7058.6	7029.5	6978.9	6850.2	6598.8	6195.7	5761.9	5394.0	5073.6	4924.9	4793.1
45°	7087.8	7066.3	7017.2	6873.2	6585.0	6146.6	5691.4	5318.9	5003.1	4854.4	4730.3
47.5°	7018.8	7001.9	6954.4	6811.8	6525.2	6073.0	5610.1	5239.2	4934.1	4794.7	4675.1
50°	6913.0	6897.7	6860.9	6730.6	6457.8	6022.4	5568.7	5197.8	4911.1	4783.9	4673.6
52.5°	7084.7	7096.9	6989.7	6847.1	6529.8	6066.9	5614.7	5240.7	4952.5	4826.8	4711.9
55°	9753.3	9736.5	9091.1	8550.1	7582.9	6706.1	6051.6	5581.0	5272.9	5147.2	5039.9
57.5°	12673.3	12615.1	12349.9	11844.1	10804.8	9417.6	8156.1	7083.2	6660.1	6479.2	6491.5
60°	13626.8	13648.2	13591.5	13412.2	13039.7	12317.7	11358.2	10551.9	9757.9	9370.1	9414.6
62.5°	14155.6	14193.9	14242.9	14203.1	14082.0	13914.9	13793.8	13867.4	13757.0	13478.1	13255.8
65°	14229.2	14307.3	14469.8	14598.6	14661.4	14819.3	15190.2	16079.3	16891.7	16945.3	16554.4
67.5°	12773.0	12989.1	13341.6	13937.9	14448.3	15009.4	15904.5	17256.5	18455.1	18495.0	18130.2
69°	10043.0	10458.4	10870.7	12202.8	13099.5	14198.5	15522.8	17369.9	18806.1	18916.5	18456.7
70°	8047.3	8294.1	8649.7	9987.8	11327.5	12728.5	14647.6	16995.9	18565.5	18787.8	18280.4
72.5°	4831.4	4926.5	5049.1	5528.9	6218.6	7466.4	10010.8	13856.7	15660.8	15958.2	15312.9
75°	3123.9	3117.8	3128.5	3261.8	3301.7	3540.8	4342.5	7129.1	10216.2	10755.8	9983.2
77.5°	2352.9	2374.3	2340.6	2352.9	2342.1	2406.5	2431.0	2552.1	4032.8	4967.9	4442.1
80°	2077.0	2087.7	2089.2	2083.1	2008.0	2001.9	2041.7	1972.7	1833.3	1860.8	1782.7
82.5°	1184.9	1183.3	1197.1	1301.4	1344.3	1485.3	1543.5	1575.7	1454.6	1364.2	1233.9
85°	767.9	774.1	789.4	821.6	789.4	801.7	787.9	815.5	748.0	694.4	620.8
87.5°	314.2	314.2	334.2	363.3	338.8	332.6	285.1	282.0	239.1	216.1	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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	4734.9	4734.9	4734.9	4734.9	4734.9	4734.9	4734.9	4734.9	4734.9	4734.9	4734.9
2.5°	4716.5	4725.7	4721.1	4727.2	4722.6	4722.6	4716.5	4714.9	4719.5	4713.4	4714.9
5°	4675.1	4676.6	4669.0	4672.0	4662.8	4659.8	4655.2	4642.9	4650.6	4642.9	4646.0
7.5°	4615.3	4610.7	4600.0	4584.7	4573.9	4569.3	4560.1	4543.3	4546.3	4532.5	4540.2
10°	4538.7	4523.3	4505.0	4482.0	4466.6	4452.8	4432.9	4413.0	4402.3	4390.0	4388.5
12.5°	4452.8	4434.4	4409.9	4374.7	4340.9	4317.9	4287.3	4252.0	4241.3	4221.4	4210.7
15°	4359.3	4330.2	4301.1	4261.2	4224.4	4189.2	4147.8	4103.4	4074.2	4043.6	4020.6
17.5°	4275.0	4241.3	4203.0	4164.7	4124.8	4081.9	4029.8	3974.6	3931.7	3875.0	3829.0
20°	4209.1	4166.2	4127.9	4088.0	4043.6	3991.5	3928.6	3858.1	3786.1	3723.2	3669.6
22.5°	4183.1	4115.6	4069.6	4029.8	3985.3	3924.0	3847.4	3764.6	3677.2	3589.9	3519.4
25°	4204.5	4104.9	4032.8	3985.3	3947.0	3884.2	3798.3	3697.2	3596.0	3491.8	3396.7
27.5°	4267.4	4140.1	4035.9	3960.8	3916.4	3853.5	3763.1	3655.8	3536.2	3419.7	3303.2
30°	4365.5	4199.9	4068.1	3962.3	3893.4	3821.3	3726.3	3602.1	3481.0	3347.7	3220.5
32.5°	4460.5	4262.8	4104.9	3968.5	3862.7	3769.2	3663.4	3540.8	3410.5	3271.0	3139.2
35°	4527.9	4304.2	4118.7	3954.7	3815.2	3698.7	3585.3	3462.6	3335.4	3192.9	3058.0
37.5°	4560.1	4327.1	4120.2	3917.9	3752.3	3623.6	3502.5	3381.4	3261.8	3126.9	2999.7
40°	4558.6	4325.6	4098.8	3870.4	3677.2	3540.8	3421.3	3303.2	3191.3	3073.3	2958.3
42.5°	4524.9	4301.1	4068.1	3824.4	3623.6	3471.8	3347.7	3234.2	3139.2	3035.0	2938.4
45°	4472.8	4259.7	4035.9	3802.9	3608.3	3456.5	3324.7	3214.3	3130.0	3035.0	2952.2
47.5°	4432.9	4236.7	4040.5	3841.2	3655.8	3497.9	3358.4	3237.3	3165.3	3088.6	3030.4
50°	4439.0	4247.4	4055.8	3864.2	3689.5	3530.1	3395.2	3284.8	3232.7	3212.8	3199.0
52.5°	4471.2	4264.3	4101.8	3986.9	3927.1	3807.5	3727.8	3658.8	3697.2	3622.0	3533.1
55°	4882.0	4814.6	4972.5	5121.1	5309.7	5380.2	5312.7	5300.5	5361.8	5107.4	4523.3
57.5°	6578.9	6753.6	6997.3	7126.1	7282.4	7241.0	7084.7	6954.4	6801.1	6503.7	5775.7
60°	9465.2	9333.3	9223.0	8911.8	8657.4	8360.0	8028.9	7745.3	7474.0	7046.4	6258.5
62.5°	12438.8	11523.7	10758.9	10020.0	9425.3	8931.7	8452.0	8025.8	7615.0	7018.8	6171.1
65°	15010.9	13084.1	11647.9	10564.2	9695.1	8945.5	8329.3	7740.7	7218.0	6519.1	5680.6
67.5°	16166.6	13752.4	11663.2	10110.5	8907.2	7889.4	7092.3	6203.3	5617.8	5170.2	4698.1
69°	16080.8	13242.0	10830.9	8919.5	7536.9	6350.5	5495.2	4567.8	4006.8	3816.7	3806.0
70°	15673.1	12377.5	9859.1	7952.3	6370.4	5191.7	4371.6	3539.3	3016.6	2886.3	3117.8
72.5°	12796.0	8746.3	6178.8	4718.0	3628.2	2867.9	2339.1	1856.2	1482.2	1284.5	1327.4
75°	7227.2	4049.7	2618.1	1978.9	1672.3	1382.6	1186.4	1011.7	915.1	743.4	588.6
77.5°	2627.3	1738.2	1382.6	1195.6	847.6	584.0	489.0	427.7	387.8	387.8	369.4
80°	1661.6	1309.0	913.6	625.4	462.9	403.1	352.5	309.6	285.1	279.0	285.1
82.5°	1037.7	801.7	512.0	392.4	329.6	295.8	257.5	225.3	205.4	200.8	210.0
85°	512.0	397.0	311.2	277.4	260.6	242.2	213.1	182.4	176.3	188.5	220.7
87.5°	153.3	136.4	111.9	116.5	122.6	119.6	95.0	82.8	78.2	102.7	160.9
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	4734.9	4734.9	4734.9	4734.9	4734.9	4734.9	4734.9	4734.9	4734.9	4734.9	4734.9
2.5°	4718.0	4716.5	4719.5	4714.9	4718.0	4719.5	4716.5	4730.3	4721.1	4722.6	4728.7
5°	4649.0	4646.0	4658.2	4655.2	4661.3	4667.4	4664.4	4684.3	4676.6	4682.8	4695.0
7.5°	4534.1	4540.2	4541.7	4541.7	4554.0	4573.9	4578.5	4590.8	4590.8	4607.7	4619.9
10°	4380.8	4382.3	4391.5	4390.0	4405.3	4426.8	4429.8	4451.3	4459.0	4486.6	4503.4
12.5°	4203.0	4195.3	4193.8	4192.3	4212.2	4235.2	4238.2	4275.0	4290.4	4314.9	4342.5
15°	4003.7	3983.8	3977.7	3989.9	3985.3	3999.1	4012.9	4032.8	4054.3	4103.4	4127.9
17.5°	3809.1	3769.2	3758.5	3744.7	3730.9	3730.9	3737.0	3761.5	3806.0	3832.0	3887.2
20°	3609.8	3562.3	3523.9	3487.2	3455.0	3442.7	3444.2	3474.9	3507.1	3550.0	3602.1
22.5°	3442.7	3370.7	3304.8	3255.7	3189.8	3188.3	3179.1	3188.3	3223.5	3234.2	3263.4
25°	3298.6	3202.1	3113.2	3033.4	2969.1	2935.3	2926.1	2923.1	2906.2	2901.6	2880.2
27.5°	3186.7	3070.2	2955.3	2858.7	2779.0	2733.0	2674.8	2633.4	2573.6	2558.3	2520.0
30°	3094.8	2969.1	2843.4	2717.7	2627.3	2544.5	2446.4	2374.3	2282.4	2222.6	2170.5
32.5°	3005.9	2878.6	2751.4	2627.3	2487.8	2359.0	2230.3	2118.4	2015.7	1923.7	1847.0
35°	2932.3	2811.2	2682.4	2532.2	2354.4	2168.9	2014.1	1886.9	1745.9	1649.3	1552.7
37.5°	2884.8	2774.4	2645.6	2438.7	2210.3	2011.1	1834.8	1680.0	1535.9	1390.3	1281.4
40°	2863.3	2766.7	2605.8	2352.9	2084.6	1863.9	1669.2	1497.6	1313.6	1149.6	1033.1
42.5°	2861.8	2763.7	2550.6	2257.8	1980.4	1739.7	1523.6	1318.2	1114.4	945.7	830.8
45°	2889.4	2759.1	2492.4	2178.1	1888.4	1637.0	1379.5	1129.7	901.3	775.6	714.3
47.5°	2962.9	2766.7	2444.8	2104.6	1801.1	1512.9	1214.0	922.8	734.2	676.0	676.0
50°	3094.8	2811.2	2432.6	2052.4	1713.7	1368.8	1011.7	744.9	649.9	649.9	668.3
52.5°	3297.1	2904.7	2454.0	2015.7	1604.9	1178.7	797.1	642.3	623.9	640.7	665.2
55°	3763.1	3070.2	2483.2	1952.8	1439.3	935.0	657.6	607.0	614.7	634.6	657.6
57.5°	4618.4	3424.3	2513.8	1814.9	1172.6	720.4	596.3	593.2	607.0	625.4	645.3
60°	5180.9	3875.0	2592.0	1606.4	887.5	594.7	565.6	584.0	600.9	616.2	631.5
62.5°	5180.9	4002.2	2650.2	1373.4	666.8	541.1	545.7	574.8	594.7	602.4	611.6
65°	4849.8	3769.2	2452.5	1119.0	542.6	510.4	527.3	556.4	574.8	580.9	588.6
67.5°	4238.2	3329.3	2066.2	843.1	484.4	484.4	505.8	527.3	542.6	554.9	567.1
69°	3684.9	2987.5	1819.5	714.3	461.4	464.4	485.9	504.3	522.7	538.0	553.3
70°	3286.4	2731.5	1647.8	648.4	447.6	449.1	470.6	490.5	507.4	524.2	542.6
72.5°	1759.7	1886.9	1252.3	531.9	412.3	416.9	436.9	455.2	470.6	487.4	504.3
75°	599.3	810.9	797.1	435.3	372.5	384.7	397.0	413.9	433.8	444.5	453.7
77.5°	351.0	363.3	424.6	354.1	335.7	341.8	355.6	369.4	386.3	397.0	404.7
80°	294.3	292.8	294.3	288.2	292.8	306.6	315.8	334.2	349.5	352.5	351.0
82.5°	239.1	251.4	252.9	249.8	263.6	274.4	282.0	292.8	291.2	294.3	300.4
85°	213.1	211.5	222.3	223.8	223.8	216.1	217.7	217.7	217.7	222.3	223.8
87.5°	213.1	177.8	138.0	124.2	130.3	122.6	116.5	115.0	127.2	139.5	136.4
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°	4734.9	4734.9	4734.9	4734.9	4734.9
2.5°	4731.8	4736.4	4733.3	4733.3	4736.4
5°	4699.6	4707.3	4704.2	4707.3	4707.3
7.5°	4626.0	4636.8	4644.4	4652.1	4647.5
10°	4520.3	4538.7	4550.9	4560.1	4555.5
12.5°	4362.4	4379.3	4405.3	4420.6	4408.4
15°	4146.3	4193.8	4209.1	4230.6	4218.3
17.5°	3920.9	3950.1	3968.5	3988.4	4000.7
20°	3620.5	3643.5	3668.0	3677.2	3663.4
22.5°	3258.8	3271.0	3266.4	3280.2	3252.6
25°	2861.8	2869.4	2864.8	2877.1	2854.1
27.5°	2486.2	2484.7	2486.2	2470.9	2455.6
30°	2124.5	2110.7	2104.6	2081.6	2077.0
32.5°	1801.1	1753.5	1729.0	1695.3	1687.6
35°	1477.6	1410.2	1365.7	1327.4	1310.6
37.5°	1187.9	1106.7	1054.6	1020.9	1016.3
40°	939.6	864.5	827.7	809.3	806.3
42.5°	766.4	734.2	725.0	725.0	725.0
45°	699.0	697.4	705.1	711.2	712.8
47.5°	685.2	694.4	705.1	714.3	717.4
50°	685.2	694.4	702.0	711.2	714.3
52.5°	682.1	689.8	692.8	699.0	702.0
55°	672.9	677.5	677.5	680.6	683.6
57.5°	657.6	660.6	656.0	659.1	666.8
60°	642.3	645.3	637.7	645.3	649.9
62.5°	625.4	626.9	623.9	630.0	630.0
65°	597.8	594.7	599.3	603.9	605.5
67.5°	570.2	562.5	567.1	568.7	571.7
69°	548.7	544.2	545.7	548.7	551.8
70°	533.4	530.4	533.4	538.0	542.6
72.5°	495.1	496.6	507.4	516.6	525.8
75°	459.8	470.6	484.4	504.3	515.0
77.5°	416.9	424.6	435.3	456.8	476.7
80°	360.2	364.8	366.3	374.0	372.5
82.5°	292.8	288.2	285.1	282.0	280.5
85°	210.0	208.5	196.2	187.0	187.0
87.5°	125.7	119.6	113.4	105.8	101.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)