

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: STREETWORKS

Report Number: P158939

Luminaire Tested: **VST-E10-LED-E-U-SLL-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158939
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33715)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-E10-LED-E-U-SLL-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(10) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (210) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24544.3 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 1.67' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

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: 28.75 FT

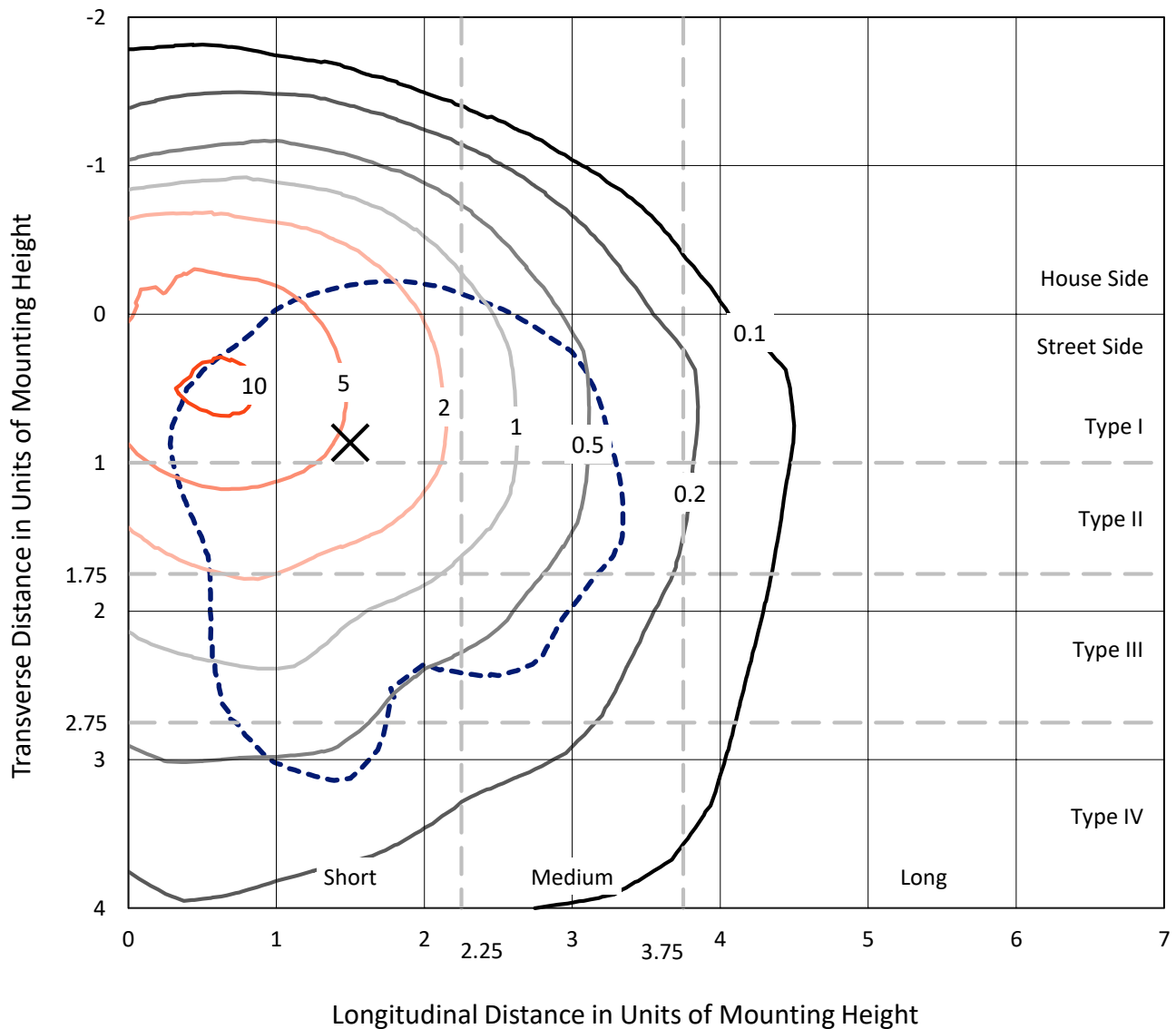


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

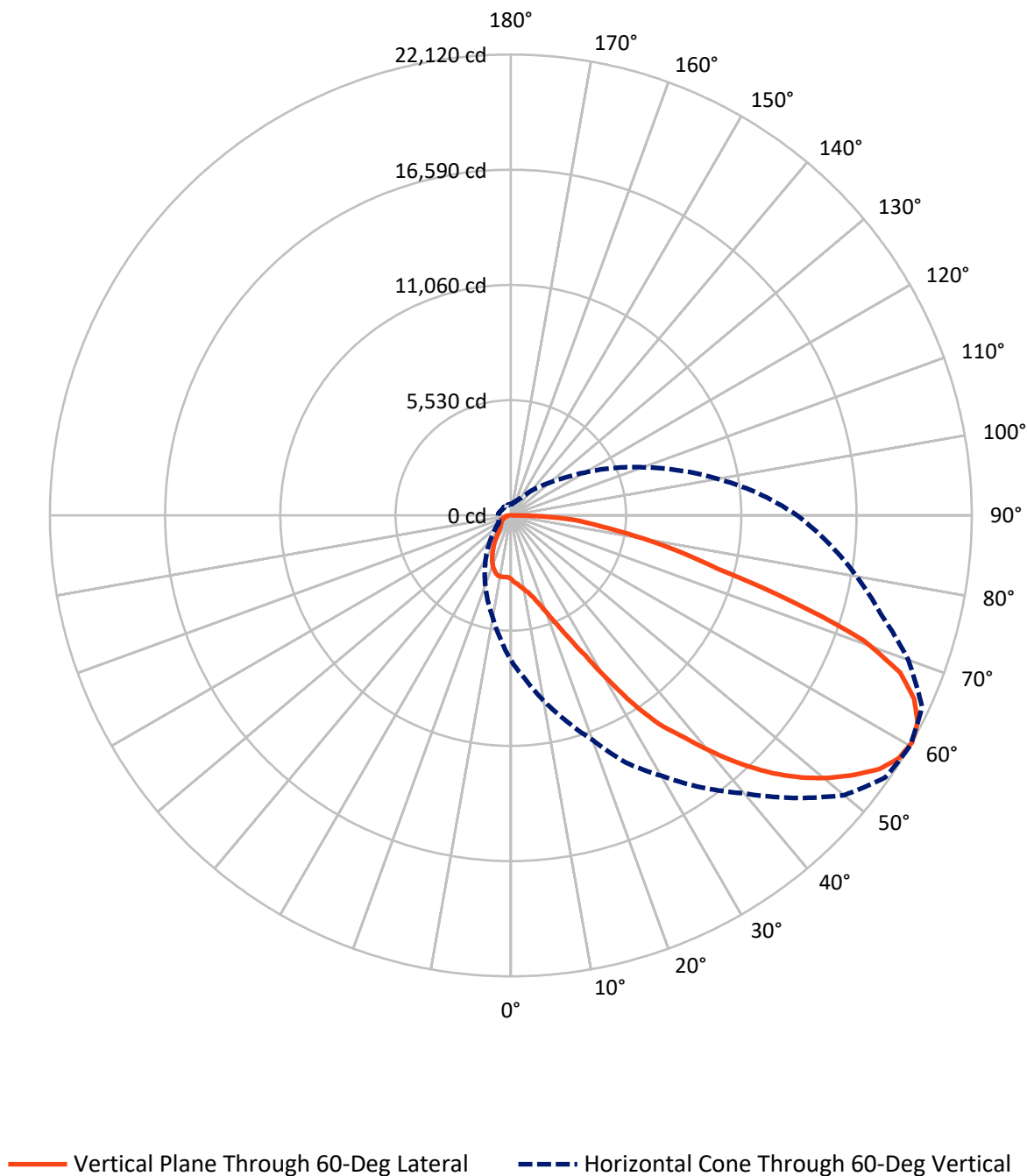


Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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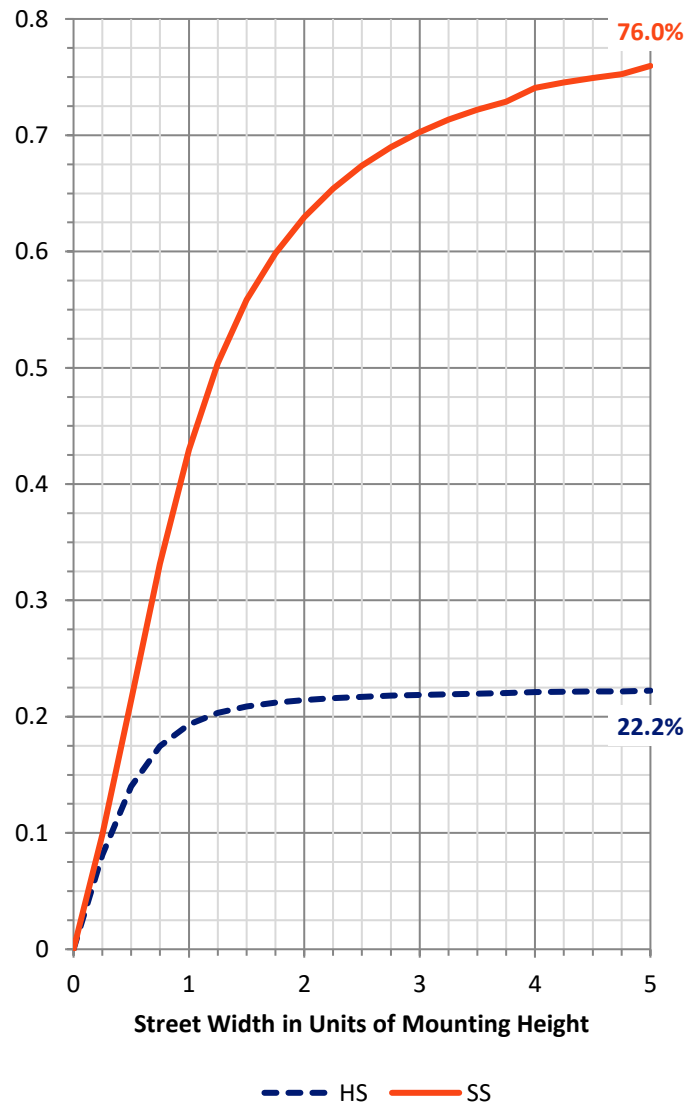
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5526.6	0.0	5526.6
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	19017.7	0.0	19017.7
	% Fixture	77.5	0.0	77.5
Total	Lumens	24544.3	0.0	24544.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.1	1.2
10°-20°	972.3	4.0
20°-30°	1845.1	7.5
30°-40°	2905.7	11.8
40°-50°	4055.6	16.5
50°-60°	5015.8	20.4
60°-70°	5199.2	21.2
70°-80°	3271.5	13.3
80°-90°	977.9	4.0
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°	24544.3	100.0
0°-180°	24544.3	100.0

Coefficient of Utilization



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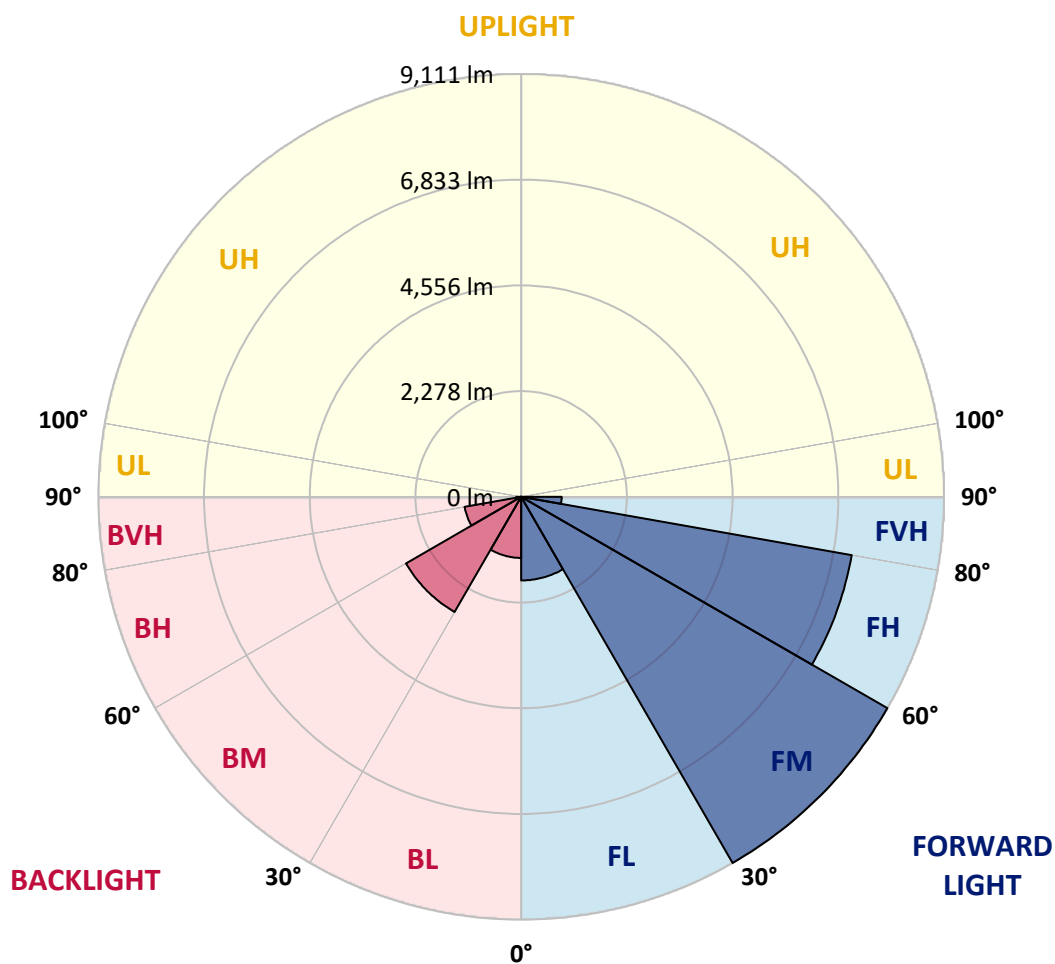
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1801.9	7.3			
FM	(30°-60°)	9111.2	37.1			
FH	(60°-80°)	7233.0	29.5			G3/7500
FVH	(80°-90°)	871.6	3.6			G5
BL	(0°-30°)	1316.6	5.4	B3/2500		
BM	(30°-60°)	2865.9	11.7	B3/5000		
BH	(60°-80°)	1237.7	5.0	B3/2500		G3/2500
BVH	(80°-90°)	106.4	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4
2.5°	3233.3	3229.6	3229.6	3229.6	3227.8	3224.1	3229.6	3227.8	3218.6	3213.2	3218.6
5°	3275.3	3277.1	3282.6	3284.4	3284.4	3289.9	3304.5	3306.3	3304.5	3308.2	3317.3
7.5°	3315.5	3324.6	3330.1	3339.2	3350.2	3359.3	3384.9	3410.5	3426.9	3439.7	3443.3
10°	3381.2	3395.8	3412.3	3436.0	3461.6	3507.3	3529.2	3554.8	3571.2	3596.8	3602.3
12.5°	3549.3	3567.5	3578.5	3615.0	3647.9	3691.8	3722.8	3730.1	3768.5	3790.4	3816.0
15°	3832.4	3859.8	3898.2	3920.1	3956.6	3995.0	4022.4	4058.9	4064.4	4093.6	4113.7
17.5°	4179.5	4217.9	4296.4	4349.4	4396.9	4435.2	4490.0	4532.0	4541.2	4574.1	4532.0
20°	4665.4	4758.6	4771.3	4877.3	4919.3	4996.0	5105.6	5125.7	5178.7	5125.7	5094.7
22.5°	5323.0	5469.1	5509.3	5611.6	5662.8	5779.7	5812.6	5920.3	5956.9	5916.7	5832.7
25°	6079.3	6305.8	6422.7	6579.8	6605.3	6844.6	6870.2	6996.3	6928.7	6831.9	6833.7
27.5°	6636.4	7021.8	7323.2	7591.8	7779.9	8050.3	8260.3	8318.8	8254.9	8128.8	8085.0
30°	6954.2	7390.8	7823.8	8194.6	8633.0	9045.8	9475.1	9688.8	9725.4	9791.1	9526.2
32.5°	7158.8	7719.6	8234.8	8693.3	9142.6	9674.2	10249.6	10799.5	11261.6	11610.5	11446.1
35°	7330.5	8022.9	8682.3	9237.6	9769.2	10348.3	10929.2	11577.6	12343.0	12790.6	12883.7
37.5°	7400.0	8245.7	9053.1	9765.5	10512.7	11164.8	11742.0	12319.3	13123.0	13921.3	14167.9
40°	7387.2	8355.3	9274.2	10169.2	11084.4	11899.1	12575.0	13258.2	14198.9	15132.4	15534.3
42.5°	7301.3	8371.8	9414.8	10437.8	11480.8	12564.0	13428.1	14215.4	15117.8	16314.3	16882.4
45°	7193.5	8315.1	9444.0	10574.8	11774.9	13028.0	14120.4	15094.0	16151.7	17333.6	18020.4
47.5°	7047.4	8225.6	9407.5	10622.3	11906.4	13325.8	14610.0	15780.9	16944.5	18305.4	19176.7
50°	6888.5	8097.8	9332.6	10587.6	11939.3	13488.4	14889.4	16222.9	17582.0	19050.7	20152.2
52.5°	6777.1	7960.8	9265.0	10516.3	11906.4	13537.7	14991.7	16460.4	17972.9	19490.9	20806.1
55°	6640.1	7778.1	9084.2	10350.1	11785.9	13510.3	14980.8	16542.6	18080.7	19660.8	21162.3
57.5°	6649.2	7694.1	8930.7	10151.0	11539.3	13256.4	14774.4	16460.4	17910.8	19551.2	21175.1
60°	6937.8	7874.9	9011.1	10191.2	11466.2	13095.6	14423.6	15930.7	17412.1	19173.1	20879.2
62.5°	7533.3	8391.9	9423.9	10593.0	11877.2	13417.1	14264.7	15050.2	16365.4	18477.1	20375.0
65°	8243.9	9018.4	9913.5	11026.0	12465.4	13939.6	14175.2	14334.1	14999.0	17123.5	19428.8
67.5°	8954.5	9646.8	10350.1	11272.6	12799.7	14089.3	13809.9	13431.7	13789.8	15550.7	17569.2
70°	9210.2	10129.1	10591.2	11225.1	12545.8	13740.4	13219.8	12268.1	12392.3	13992.5	15468.5
72.5°	8826.6	10136.4	10289.8	10525.4	11415.1	12538.5	11988.6	10764.7	10739.2	11961.2	13154.1
75°	7403.6	9246.8	9244.9	9157.3	9358.2	9997.5	9712.6	8974.6	9286.9	10249.6	10642.4
77.5°	5277.3	7215.5	7306.8	6716.8	6702.2	6990.8	7162.5	8021.0	9153.6	9694.3	9570.1
80°	3315.5	4868.2	5260.9	4532.0	4376.8	4786.0	5847.3	7096.7	8490.5	8976.4	8558.1
82.5°	1996.6	3136.4	3973.1	3560.2	3523.7	4269.0	5441.7	5927.6	6346.0	6862.9	6163.3
85°	1355.4	2089.7	2718.1	2800.3	3120.0	3890.9	4400.5	4185.0	4195.9	4060.8	3699.1
87.5°	259.4	569.9	931.6	1136.2	1260.4	1693.4	1841.3	1667.8	1760.9	1287.8	1408.4
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4
2.5°	3209.5	3209.5	3209.5	3200.4	3202.2	3189.4	3183.9	3183.9	3178.5	3178.5	3176.6
5°	3310.0	3299.0	3304.5	3302.7	3302.7	3284.4	3275.3	3275.3	3251.5	3253.4	3246.0
7.5°	3459.8	3457.9	3463.4	3452.5	3437.9	3423.2	3408.6	3401.3	3368.4	3348.3	3335.6
10°	3629.7	3627.8	3633.3	3631.5	3605.9	3578.5	3538.3	3509.1	3468.9	3437.9	3406.8
12.5°	3816.0	3814.2	3810.5	3794.1	3766.7	3722.8	3671.7	3622.3	3562.1	3521.9	3476.2
15°	4106.4	4100.9	4079.0	4055.3	4026.0	3958.5	3869.0	3797.7	3717.3	3647.9	3573.0
17.5°	4535.7	4490.0	4486.4	4433.4	4354.9	4265.3	4181.3	4062.6	3947.5	3843.4	3741.1
20°	5127.5	5021.6	4992.4	4932.1	4828.0	4734.8	4552.1	4393.2	4236.1	4093.6	3963.9
22.5°	5772.4	5695.7	5624.4	5525.8	5383.3	5248.1	5016.1	4817.0	4616.1	4433.4	4289.1
25°	6672.9	6539.6	6411.7	6254.6	6057.3	5896.6	5631.7	5430.8	5167.7	5001.5	4793.3
27.5°	7836.5	7608.2	7392.7	7257.5	6910.4	6676.6	6338.7	6079.3	5761.4	5536.7	5290.1
30°	9350.9	9086.0	8766.3	8298.7	7885.9	7421.9	7003.6	6671.1	6333.2	6019.0	5734.0
32.5°	11228.7	10761.1	10255.1	9513.5	8835.8	8174.5	7617.3	7208.2	6862.9	6472.0	6070.1
35°	12816.1	12333.9	11616.0	10673.4	9836.8	9080.5	8413.8	7854.8	7403.6	6908.6	6377.0
37.5°	14069.2	13519.4	12845.4	11844.3	10960.2	10099.8	9400.2	8687.8	8095.9	7414.6	6742.4
40°	15505.0	14953.4	14211.7	13174.2	12127.5	11194.0	10373.8	9637.7	8910.6	8079.5	7215.5
42.5°	16756.3	16358.1	15607.3	14535.1	13375.1	12335.7	11438.8	10596.7	9646.8	8717.0	7694.1
45°	18060.6	17655.1	16942.6	15821.1	14588.0	13429.9	12357.6	11451.6	10330.0	9223.0	8052.1
47.5°	19213.2	18796.8	18077.0	16962.7	15653.0	14432.8	13252.7	12156.7	10854.3	9582.9	8285.9
50°	20312.9	19803.3	19143.8	18033.2	16633.9	15329.7	14049.2	12642.6	11261.6	9835.0	8444.8
52.5°	21323.1	20674.6	20049.9	18906.4	17393.8	16031.1	14602.6	13055.4	11511.9	10034.1	8552.6
55°	21896.7	21478.3	20731.2	19607.8	17934.5	16513.4	14953.4	13345.9	11760.3	10174.7	8598.3
57.5°	22073.9	21971.6	21345.0	20013.3	18252.4	16778.2	15190.8	13576.0	11926.5	10214.9	8534.3
60°	21933.2	22119.5	21776.1	20298.3	18396.7	16856.8	15307.8	13740.4	11955.8	10087.0	8340.7
62.5°	21482.0	21905.8	21862.0	20393.3	18321.8	16758.2	15295.0	13656.4	11681.8	9688.8	7906.0
65°	20740.4	21273.8	21461.9	20040.7	17899.8	16398.3	14969.8	13128.5	10920.0	8910.6	7177.1
67.5°	19344.8	20152.2	20334.8	18886.3	16796.5	15402.7	14032.7	12032.5	9509.8	7706.9	6039.1
70°	16548.1	17960.1	18206.7	16686.9	14851.1	13627.2	12465.4	10295.3	7918.7	6181.6	4634.3
72.5°	13210.7	14098.5	14602.6	13555.9	12189.6	11301.8	10421.3	7898.7	5975.1	4561.3	3189.4
75°	10328.2	10275.2	10726.4	10030.4	9226.7	8812.0	8150.7	5511.2	4002.3	3021.4	2018.5
77.5°	8830.3	8150.7	7637.4	7147.9	6671.1	6539.6	5905.7	3419.6	2473.4	1810.3	1207.4
80°	7339.7	6099.4	5162.3	4473.6	4303.7	4563.1	3865.3	2016.7	1465.0	1039.4	758.1
82.5°	5244.5	4387.7	3571.2	3134.6	2844.2	3257.0	2279.7	1119.8	794.6	622.9	502.3
85°	3399.5	3249.7	3215.0	3072.5	2720.0	2568.3	1731.7	964.5	595.5	387.3	312.4
87.5°	1307.9	1676.9	1934.5	2073.3	2241.4	1996.6	902.4	332.5	327.0	200.9	151.6
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4
2.5°	3163.8	3156.5	3154.7	3149.2	3145.6	3145.6	3136.4	2970.2	2968.4	2968.4	2966.6
5°	3231.4	3222.3	3213.2	3211.3	3204.0	3204.0	3194.9	3028.7	3028.7	3028.7	3025.0
7.5°	3322.8	3304.5	3293.5	3288.1	3277.1	3282.6	3289.9	3121.8	3123.7	3121.8	3125.5
10°	3388.5	3377.6	3364.8	3361.1	3353.8	3359.3	3370.3	3204.0	3209.5	3211.3	3215.0
12.5°	3452.5	3434.2	3417.8	3412.3	3408.6	3423.2	3436.0	3275.3	3280.8	3286.2	3286.2
15°	3531.0	3500.0	3478.0	3465.3	3457.9	3472.6	3490.8	3331.9	3333.7	3339.2	3337.4
17.5°	3664.4	3618.7	3567.5	3558.4	3534.7	3540.1	3543.8	3366.6	3359.3	3346.5	3324.6
20°	3870.8	3801.4	3731.9	3702.7	3655.2	3635.1	3594.9	3368.4	3322.8	3284.4	3251.5
22.5°	4166.7	4064.4	3989.5	3940.2	3843.4	3775.8	3666.2	3359.3	3273.4	3207.7	3156.5
25°	4645.3	4522.9	4407.8	4283.6	4132.0	3996.8	3836.1	3439.7	3306.3	3193.1	3094.4
27.5°	5111.1	4917.5	4740.3	4554.0	4340.2	4137.5	3911.0	3465.3	3313.6	3167.5	3006.7
30°	5460.0	5178.7	4910.2	4638.0	4358.5	4095.5	3839.7	3377.6	3196.7	3032.3	2862.4
32.5°	5671.9	5306.6	4957.7	4619.7	4290.9	3995.0	3708.2	3226.0	3026.8	2833.2	2652.4
35°	5872.8	5419.8	4986.9	4588.7	4212.4	3883.6	3574.9	3048.8	2811.3	2604.9	2376.5
37.5°	6121.3	5538.6	5005.2	4532.0	4097.3	3721.0	3381.2	2825.9	2588.4	2334.5	2119.0
40°	6419.0	5660.9	4986.9	4418.8	3918.3	3507.3	3147.4	2592.1	2327.2	2080.6	1868.7
42.5°	6702.2	5768.7	4939.4	4267.2	3722.8	3284.4	2933.7	2383.8	2119.0	1866.9	1656.8
45°	6912.2	5860.1	4915.7	4161.2	3573.0	3132.8	2745.5	2215.8	1936.3	1682.4	1468.7
47.5°	7058.4	5914.9	4904.7	4102.8	3468.9	2975.7	2573.8	2047.7	1753.6	1497.9	1289.7
50°	7135.1	5913.0	4877.3	4038.8	3315.5	2787.5	2396.6	1877.8	1585.6	1335.3	1145.3
52.5°	7155.2	5880.1	4818.8	3921.9	3129.1	2599.4	2206.7	1700.7	1437.6	1198.3	1006.5
55°	7109.5	5799.8	4696.4	3726.5	2930.0	2400.3	2033.1	1561.8	1293.3	1066.8	917.0
57.5°	6979.8	5657.3	4466.3	3457.9	2720.0	2215.8	1834.0	1393.8	1136.2	946.2	822.0
60°	6738.7	5355.9	4106.4	3140.1	2453.3	1934.5	1560.0	1174.6	970.0	827.5	727.0
62.5°	6293.0	4882.8	3600.4	2701.7	2069.7	1569.1	1245.8	937.1	783.7	690.5	628.4
65°	5575.1	4170.4	3014.1	2128.1	1572.8	1141.7	926.1	705.1	593.7	537.0	518.8
67.5°	4550.3	3220.5	2192.0	1477.8	1065.0	800.1	644.8	515.1	462.2	440.2	432.9
70°	3308.2	2193.9	1419.3	933.4	703.3	559.0	487.7	414.7	385.4	380.0	380.0
72.5°	2077.0	1333.5	869.5	639.3	533.4	453.0	416.5	365.3	354.4	350.7	345.2
75°	1218.4	809.2	615.6	524.3	456.7	405.5	374.5	332.5	325.2	323.3	317.8
77.5°	776.3	582.7	496.9	447.5	412.8	367.2	339.8	295.9	294.1	292.3	290.4
80°	557.1	484.1	434.8	396.4	361.7	319.7	303.2	268.5	264.9	263.0	266.7
82.5°	422.0	400.0	380.0	350.7	303.2	272.2	259.4	235.6	237.5	228.3	226.5
85°	290.4	286.8	285.0	272.2	237.5	210.1	200.9	188.2	197.3	188.2	177.2
87.5°	142.5	140.7	129.7	153.4	142.5	113.3	102.3	113.3	126.0	122.4	113.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P158939

CATALOG NUMBER: VST-E10-LED-E-U-SLL-7030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4
2.5°	2959.3	2951.9	2957.4	2953.8	2953.8	2951.9	2955.6	2950.1	2946.5	2950.1	2951.9
5°	3017.7	3008.6	3010.4	2997.6	3003.1	2990.3	2994.0	2984.8	2975.7	2972.0	2972.0
7.5°	3116.4	3107.2	3096.3	3094.4	3074.3	3067.0	3054.2	3046.9	3041.5	3028.7	3021.4
10°	3205.9	3191.2	3178.5	3176.6	3156.5	3138.3	3121.8	3107.2	3098.1	3079.8	3070.7
12.5°	3278.9	3264.3	3244.2	3233.3	3213.2	3191.2	3180.3	3158.4	3145.6	3125.5	3109.0
15°	3320.9	3295.4	3266.1	3246.0	3216.8	3193.1	3176.6	3160.2	3147.4	3121.8	3098.1
17.5°	3300.8	3258.8	3218.6	3182.1	3141.9	3120.0	3096.3	3076.2	3072.5	3043.3	3006.7
20°	3216.8	3167.5	3114.5	3065.2	3012.2	2981.2	2951.9	2920.9	2911.8	2877.1	2829.6
22.5°	3114.5	3057.9	2997.6	2937.3	2869.7	2825.9	2782.1	2743.7	2712.7	2661.5	2593.9
25°	3010.4	2926.4	2838.7	2762.0	2683.4	2628.6	2583.0	2540.9	2504.4	2422.2	2352.8
27.5°	2873.4	2741.9	2652.4	2564.7	2469.7	2398.5	2347.3	2288.9	2248.7	2153.7	2080.6
30°	2698.0	2566.5	2438.6	2351.0	2256.0	2179.3	2113.5	2029.5	1971.0	1901.6	1834.0
32.5°	2477.0	2345.5	2215.8	2117.1	2038.6	1943.6	1861.4	1781.0	1713.4	1645.9	1592.9
35°	2208.5	2080.6	1958.2	1859.6	1771.9	1697.0	1618.5	1549.0	1472.3	1399.3	1368.2
37.5°	1925.3	1788.3	1653.2	1567.3	1497.9	1444.9	1371.9	1315.2	1245.8	1202.0	1165.4
40°	1678.7	1532.6	1404.7	1331.7	1276.9	1216.6	1156.3	1112.5	1063.1	1019.3	991.9
42.5°	1470.5	1333.5	1223.9	1161.8	1096.0	1030.3	984.6	948.1	917.0	884.1	851.2
45°	1278.7	1147.2	1055.8	979.1	924.3	871.3	840.3	823.8	805.6	785.5	763.6
47.5°	1117.9	1004.7	915.2	843.9	787.3	750.8	736.2	730.7	723.4	706.9	696.0
50°	995.6	902.4	811.1	747.1	699.6	681.4	664.9	659.4	650.3	644.8	637.5
52.5°	893.3	794.6	717.9	659.4	630.2	622.9	615.6	608.3	606.5	602.8	599.2
55°	809.2	723.4	652.1	608.3	593.7	588.2	586.4	579.1	577.2	577.2	571.8
57.5°	734.3	661.3	597.3	569.9	560.8	555.3	551.7	548.0	548.0	551.7	549.8
60°	657.6	595.5	557.1	542.5	537.0	527.9	518.8	515.1	517.0	526.1	526.1
62.5°	582.7	537.0	513.3	507.8	502.3	495.0	484.1	480.4	484.1	495.0	500.5
65°	500.5	480.4	473.1	469.5	465.8	460.3	453.0	449.4	451.2	456.7	464.0
67.5°	425.6	423.8	423.8	425.6	423.8	422.0	418.3	412.8	411.0	411.0	414.7
70°	380.0	380.0	385.4	385.4	383.6	383.6	378.1	372.6	369.0	365.3	367.2
72.5°	345.2	345.2	347.1	348.9	347.1	347.1	339.8	336.1	327.0	325.2	321.5
75°	316.0	312.4	312.4	310.5	308.7	310.5	303.2	294.1	290.4	288.6	285.0
77.5°	286.8	279.5	275.8	272.2	274.0	272.2	266.7	261.2	255.7	253.9	252.1
80°	253.9	243.0	237.5	228.3	233.8	235.6	232.0	226.5	224.7	222.9	221.0
82.5°	210.1	199.1	191.8	186.3	182.7	186.3	191.8	204.6	200.9	199.1	195.5
85°	164.4	146.1	137.0	138.8	129.7	131.5	148.0	155.3	155.3	158.9	155.3
87.5°	93.2	89.5	67.6	62.1	65.8	78.5	87.7	96.8	96.8	91.3	102.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P158939

CATALOG NUMBER: VST-E10-LED-E-U-SLL-7030

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4
2.5°	2951.9	2955.6	2957.4	2964.7	2968.4	2970.2	2972.0	2975.7	2977.5	2975.7	2984.8
5°	2966.6	2966.6	2962.9	2968.4	2970.2	2970.2	2966.6	2970.2	2970.2	2970.2	2979.3
7.5°	3004.9	2994.0	2988.5	2981.2	2975.7	2968.4	2959.3	2959.3	2957.4	2959.3	2964.7
10°	3045.1	3028.7	3008.6	2990.3	2973.9	2961.1	2944.6	2939.2	2937.3	2935.5	2950.1
12.5°	3076.2	3046.9	3015.9	2984.8	2951.9	2930.0	2902.6	2886.2	2884.4	2884.4	2902.6
15°	3054.2	3006.7	2946.5	2891.7	2862.4	2831.4	2800.3	2780.2	2778.4	2782.1	2793.0
17.5°	2944.6	2867.9	2814.9	2762.0	2723.6	2698.0	2677.9	2674.3	2681.6	2674.3	2688.9
20°	2758.3	2676.1	2639.6	2597.6	2583.0	2564.7	2535.5	2509.9	2509.9	2477.0	2486.1
22.5°	2517.2	2471.5	2424.0	2391.2	2380.2	2349.1	2318.1	2283.4	2279.7	2239.5	2234.1
25°	2265.1	2219.4	2181.1	2173.8	2140.9	2098.9	2069.7	2029.5	2020.3	1980.1	1974.7
27.5°	2007.5	1971.0	1932.6	1910.7	1892.5	1846.8	1821.2	1773.7	1755.5	1711.6	1706.1
30°	1762.8	1737.2	1691.5	1673.3	1638.6	1585.6	1530.8	1501.5	1486.9	1441.3	1426.7
32.5°	1532.6	1492.4	1457.7	1435.8	1391.9	1331.7	1282.3	1240.3	1212.9	1158.1	1143.5
35°	1313.4	1273.2	1256.8	1200.1	1161.8	1121.6	1054.0	1028.4	979.1	937.1	922.5
37.5°	1119.8	1081.4	1059.5	1012.0	973.6	933.4	893.3	860.4	836.6	827.5	827.5
40°	953.5	933.4	906.0	871.3	845.8	816.5	794.6	783.7	781.8	785.5	794.6
42.5°	834.8	812.9	794.6	776.3	758.1	754.4	748.9	756.3	765.4	774.5	783.7
45°	745.3	727.0	716.1	708.8	706.9	712.4	723.4	734.3	750.8	761.7	769.0
47.5°	681.4	666.7	663.1	661.3	670.4	686.8	701.5	717.9	730.7	741.6	748.9
50°	626.6	613.8	611.9	610.1	622.9	637.5	650.3	672.2	681.4	688.7	694.1
52.5°	588.2	577.2	571.8	573.6	586.4	599.2	617.4	633.9	646.7	652.1	657.6
55°	557.1	553.5	540.7	546.2	559.0	575.4	593.7	611.9	624.7	633.9	643.0
57.5°	533.4	524.3	515.1	524.3	537.0	553.5	575.4	591.9	608.3	621.1	630.2
60°	507.8	500.5	493.2	502.3	515.1	531.6	548.0	569.9	590.0	602.8	611.9
62.5°	485.9	480.4	473.1	474.9	480.4	491.4	500.5	520.6	538.9	555.3	566.3
65°	454.8	453.0	442.1	443.9	447.5	458.5	465.8	484.1	502.3	517.0	526.1
67.5°	409.2	405.5	405.5	411.0	412.8	418.3	423.8	442.1	456.7	467.6	478.6
70°	363.5	361.7	361.7	365.3	363.5	369.0	376.3	392.7	411.0	422.0	432.9
72.5°	319.7	319.7	317.8	321.5	321.5	323.3	332.5	347.1	363.5	372.6	380.0
75°	281.3	279.5	279.5	279.5	281.3	281.3	290.4	303.2	319.7	325.2	336.1
77.5°	246.6	246.6	246.6	246.6	248.4	246.6	252.1	261.2	266.7	275.8	275.8
80°	217.4	215.6	217.4	219.2	219.2	217.4	217.4	219.2	221.0	221.0	221.0
82.5°	191.8	186.3	190.0	199.1	199.1	199.1	197.3	184.5	175.4	175.4	179.0
85°	153.4	153.4	155.3	168.1	169.9	162.6	169.9	151.6	133.3	127.9	131.5
87.5°	95.0	74.9	91.3	104.1	104.1	98.6	109.6	102.3	85.9	69.4	65.8
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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CATALOG NUMBER: VST-E10-LED-E-U-SLL-7030

REPORT N
CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	0°
2.5°	2992.1	2994.0	3004.9	3010.4	3010.4	3017.7	3021.4	3032.3	3030.5	3030.5	3034.1	2.5°
5°	2988.5	2994.0	3004.9	3012.2	3015.9	3025.0	3032.3	3045.1	3043.3	3046.9	3048.8	5°
7.5°	2975.7	2990.3	3001.3	3015.9	3028.7	3036.0	3045.1	3056.1	3052.4	3054.2	3052.4	7.5°
10°	2964.7	2979.3	3001.3	3021.4	3039.6	3050.6	3056.1	3068.9	3067.0	3070.7	3070.7	10°
12.5°	2920.9	2946.5	2973.9	3004.9	3032.3	3061.6	3079.8	3107.2	3120.0	3136.4	3154.7	12.5°
15°	2809.5	2838.7	2882.5	2917.2	2970.2	3010.4	3063.4	3116.4	3163.8	3209.5	3262.5	15°
17.5°	2699.9	2712.7	2747.4	2794.9	2842.3	2902.6	2966.6	3061.6	3147.4	3240.6	3342.9	17.5°
20°	2497.1	2519.0	2542.8	2599.4	2656.0	2741.9	2820.4	2944.6	3070.7	3216.8	3373.9	20°
22.5°	2246.8	2268.8	2294.3	2358.3	2427.7	2515.4	2610.4	2749.2	2917.2	3107.2	3317.3	22.5°
25°	1976.5	1989.3	2009.4	2073.3	2115.3	2230.4	2345.5	2489.8	2672.5	2917.2	3162.0	25°
27.5°	1678.7	1702.5	1718.9	1748.2	1845.0	1943.6	2064.2	2219.4	2440.5	2690.7	2986.7	27.5°
30°	1393.8	1413.9	1404.7	1466.8	1530.8	1634.9	1764.6	1936.3	2148.2	2446.0	2787.5	30°
32.5°	1114.3	1128.9	1123.4	1167.3	1231.2	1335.3	1457.7	1644.0	1868.7	2186.6	2557.4	32.5°
35°	918.8	922.5	942.6	962.7	1017.5	1101.5	1205.6	1368.2	1598.4	1890.6	2283.4	35°
37.5°	827.5	834.8	847.6	875.0	915.2	975.5	1061.3	1187.4	1384.6	1642.2	1992.9	37.5°
40°	800.1	805.6	812.9	831.1	869.5	922.5	999.2	1105.2	1249.5	1466.8	1751.8	40°
42.5°	787.3	787.3	787.3	798.3	827.5	884.1	971.8	1075.9	1202.0	1366.4	1596.5	42.5°
45°	769.0	769.0	767.2	772.7	792.8	849.4	944.4	1061.3	1196.5	1353.6	1552.7	45°
47.5°	748.9	747.1	741.6	741.6	754.4	811.1	909.7	1035.7	1183.7	1364.5	1578.3	47.5°
50°	694.1	694.1	694.1	699.6	710.6	761.7	867.7	1001.0	1170.9	1371.9	1618.5	50°
52.5°	663.1	664.9	670.4	670.4	681.4	734.3	845.8	993.7	1178.2	1399.3	1669.6	52.5°
55°	648.5	654.0	659.4	659.4	668.6	723.4	838.5	999.2	1205.6	1455.9	1757.3	55°
57.5°	635.7	641.2	644.8	644.8	652.1	699.6	818.4	990.1	1222.1	1510.7	1865.1	57.5°
60°	611.9	615.6	617.4	617.4	619.3	659.4	772.7	946.2	1185.5	1507.0	1923.5	60°
62.5°	568.1	575.4	577.2	579.1	579.1	617.4	714.2	875.0	1107.0	1452.2	1907.1	62.5°
65°	535.2	538.9	544.4	548.0	555.3	580.9	657.6	789.1	1004.7	1342.6	1815.7	65°
67.5°	484.1	489.6	495.0	502.3	509.6	526.1	586.4	692.3	865.9	1156.3	1611.2	67.5°
70°	438.4	440.2	445.7	454.8	456.7	465.8	509.6	582.7	708.8	928.0	1297.0	70°
72.5°	381.8	385.4	392.7	403.7	403.7	411.0	436.6	474.9	555.3	708.8	957.2	72.5°
75°	332.5	336.1	341.6	341.6	332.5	334.3	352.6	380.0	440.2	533.4	697.8	75°
77.5°	275.8	283.1	288.6	277.7	274.0	279.5	288.6	308.7	352.6	423.8	524.3	77.5°
80°	228.3	232.0	233.8	235.6	232.0	237.5	244.8	257.6	286.8	341.6	414.7	80°
82.5°	182.7	186.3	191.8	199.1	199.1	219.2	221.0	221.0	237.5	272.2	325.2	82.5°
85°	135.2	142.5	149.8	158.9	160.7	171.7	166.2	164.4	169.9	202.8	224.7	85°
87.5°	69.4	74.9	78.5	85.9	76.7	80.4	80.4	74.9	65.8	82.2	91.3	87.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90°



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DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4
3037.8	3034.1	3037.8	3037.8	3043.3	3039.6	3233.3
3052.4	3048.8	3052.4	3056.1	3061.6	3061.6	3275.3
3054.2	3054.2	3050.6	3059.7	3067.0	3074.3	3315.5
3076.2	3076.2	3079.8	3081.6	3098.1	3116.4	3381.2
3165.7	3174.8	3191.2	3196.7	3226.0	3246.0	3549.3
3302.7	3353.8	3386.7	3397.7	3423.2	3461.6	3832.4
3441.5	3527.4	3616.9	3671.7	3704.5	3750.2	4179.5
3545.6	3706.4	3859.8	3996.8	4075.4	4164.9	4665.4
3554.8	3810.5	4069.9	4323.8	4533.9	4700.1	5323.0
3467.1	3803.2	4161.2	4550.3	4912.0	5211.6	6079.3
3355.6	3768.5	4225.2	4722.0	5197.0	5639.0	6636.4
3215.0	3710.0	4236.1	4795.1	5352.2	5883.8	6954.2
3001.3	3536.5	4104.6	4722.0	5368.7	6015.3	7158.8
2727.3	3273.4	3856.2	4559.4	5292.0	6068.3	7330.5
2447.8	2986.7	3613.2	4342.1	5169.6	6059.2	7400.0
2151.9	2687.1	3328.2	4110.1	5003.3	5975.1	7387.2
1950.9	2438.6	3067.0	3874.4	4818.8	5863.7	7301.3
1834.0	2261.5	2860.6	3658.9	4650.8	5730.4	7193.5
1832.2	2208.5	2751.0	3505.4	4480.9	5582.4	7047.4
1896.1	2241.4	2738.2	3439.7	4387.7	5474.6	6888.5
1971.0	2332.7	2805.8	3463.4	4385.9	5427.1	6777.1
2089.7	2488.0	2953.8	3565.7	4433.4	5419.8	6640.1
2241.4	2698.0	3220.5	3817.8	4617.9	5564.1	6649.2
2396.6	2944.6	3569.4	4248.9	4981.4	5900.2	6937.8
2453.3	3134.6	3923.8	4754.9	5525.8	6404.4	7533.3
2403.9	3178.5	4139.3	5147.6	6055.5	6994.4	8243.9
2221.3	3001.3	4051.6	5259.1	6360.6	7412.8	8954.5
1828.5	2561.0	3653.4	5008.8	6336.8	7498.6	9210.2
1340.8	1985.6	2970.2	4256.2	5633.5	6961.6	8826.6
968.2	1404.7	2144.5	3205.9	4453.5	5606.1	7403.6
694.1	973.6	1391.9	2106.2	3034.1	3903.7	5277.3
498.7	661.3	867.7	1264.1	1848.6	2396.6	3315.5
367.2	453.0	569.9	785.5	1088.7	1395.6	1996.6
250.3	266.7	343.4	464.0	714.2	1026.6	1355.4
95.0	107.8	126.0	190.0	319.7	367.2	259.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)