

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: P158910

Luminaire Tested: **VST-E07-LED-E-U-SLL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158910
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-E07-LED-E-U-SLL
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (147) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18811 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 172.5
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



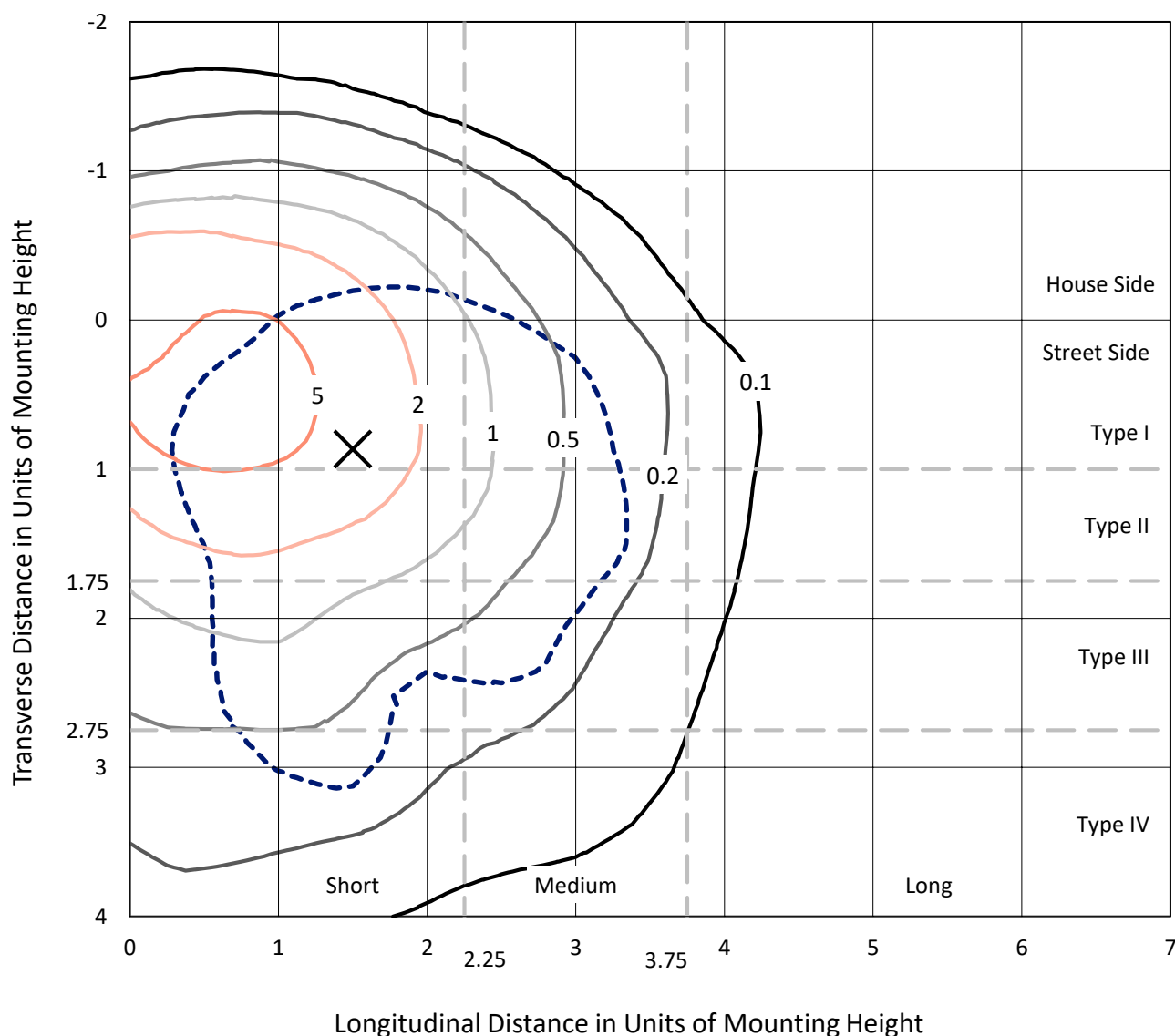
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

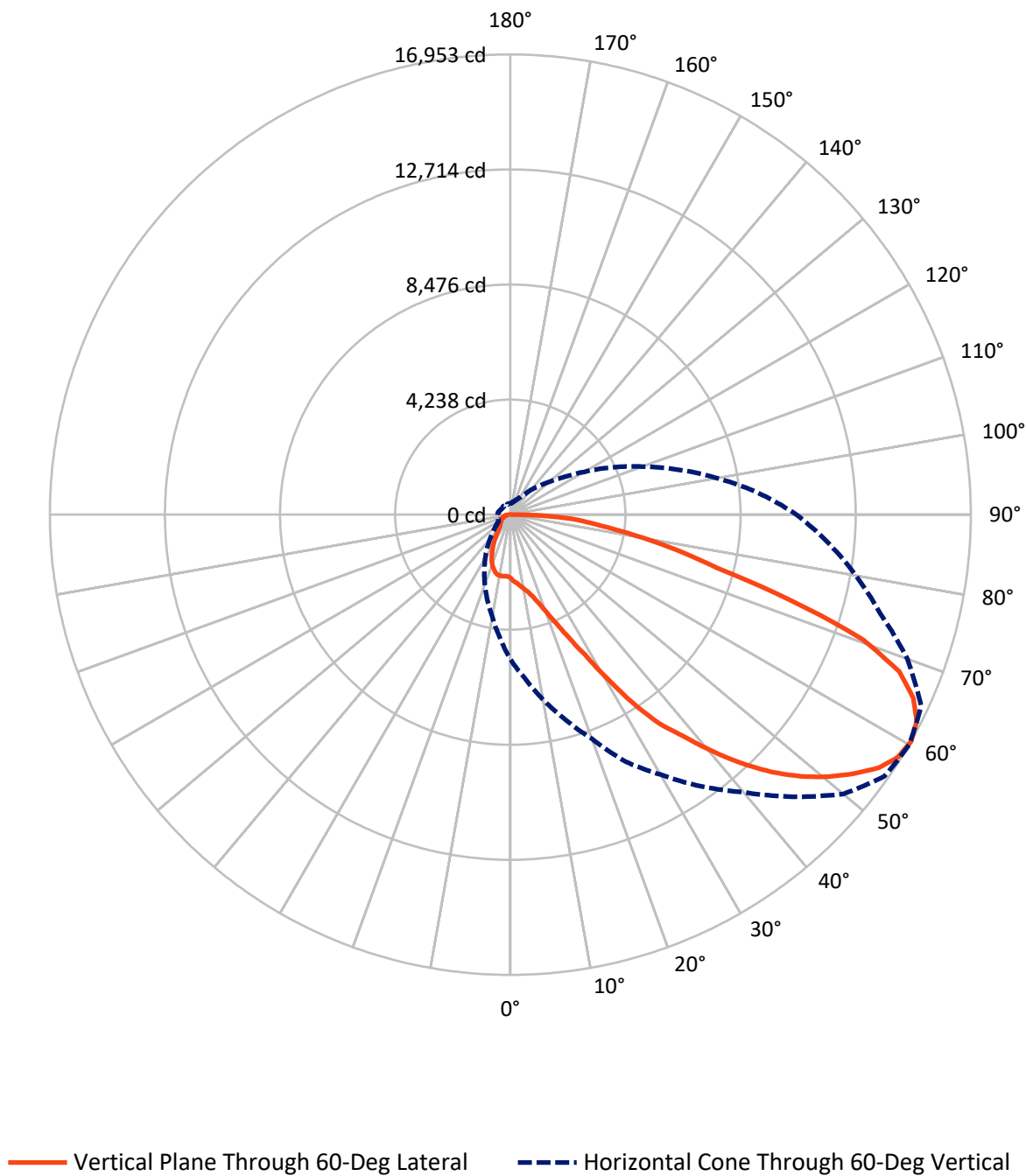


Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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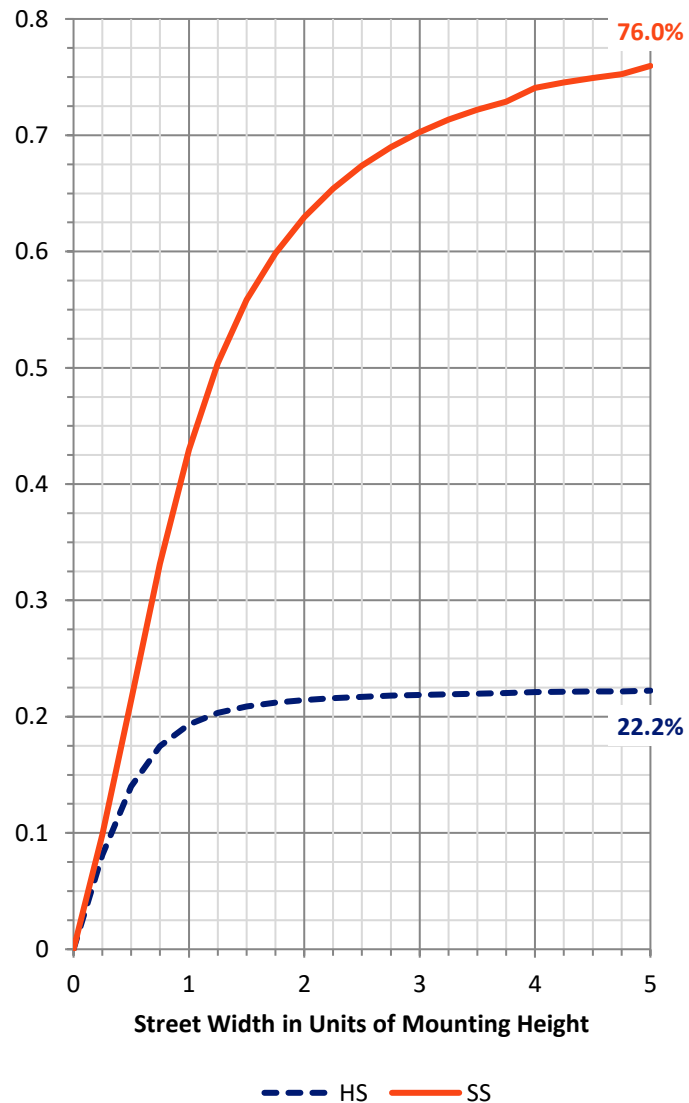
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4235.6	0.0	4235.6
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	14575.3	0.0	14575.3
	% Fixture	77.5	0.0	77.5
Total	Lumens	18811.0	0.0	18811.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.8	1.2
10°-20°	745.2	4.0
20°-30°	1414.1	7.5
30°-40°	2226.9	11.8
40°-50°	3108.3	16.5
50°-60°	3844.2	20.4
60°-70°	3984.7	21.2
70°-80°	2507.3	13.3
80°-90°	749.5	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°	18811.0	100.0
0°-180°	18811.0	100.0

Coefficient of Utilization



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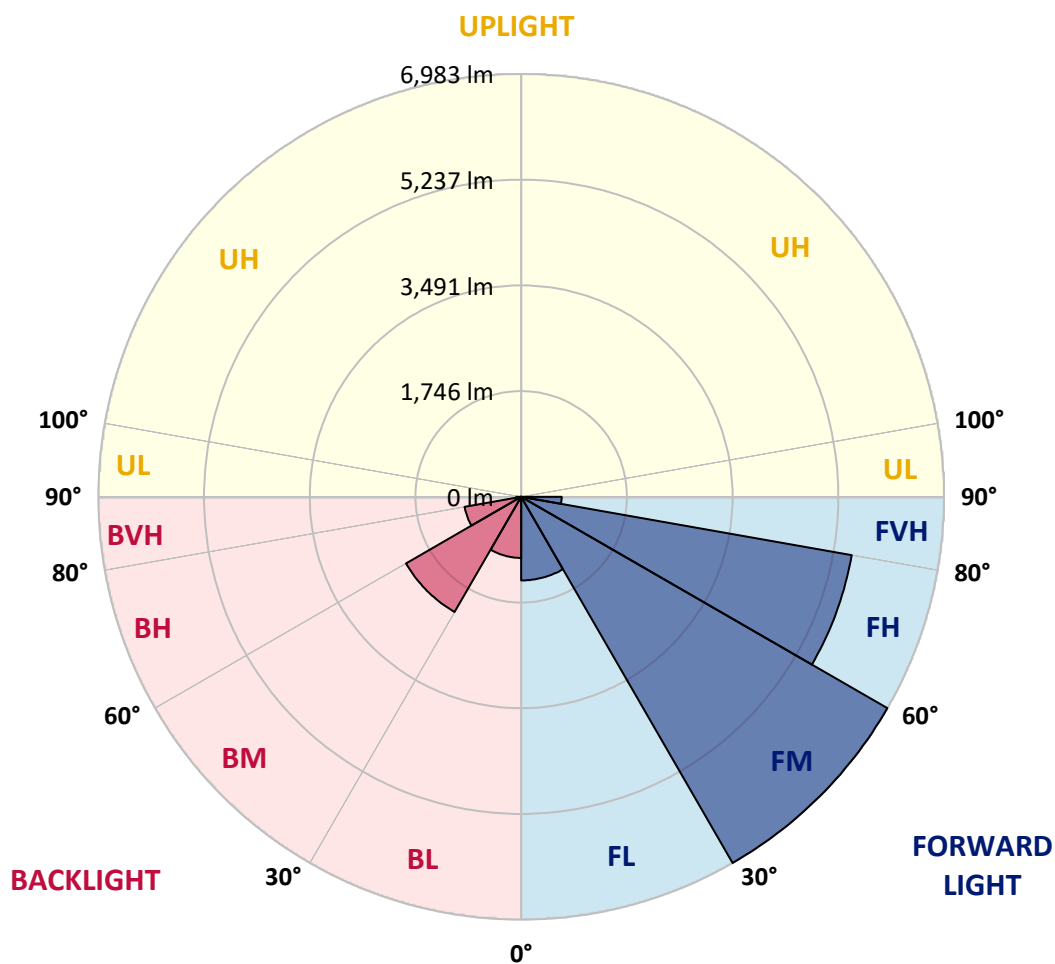
CATALOG NUMBER: VST-E07-LED-E-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1381.0	7.3			
FM	(30°-60°)	6982.9	37.1			
FH	(60°-80°)	5543.4	29.5			G3/7500
FVH	(80°-90°)	668.0	3.6			G4/750
BL	(0°-30°)	1009.1	5.4	B3/2500		
BM	(30°-60°)	2196.4	11.7	B2/2500		
BH	(60°-80°)	948.6	5.0	B2/1000		G2/1000
BVH	(80°-90°)	81.5	0.4			G1/100
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°	50°
0°	2339.4	2339.4	2339.4	2339.4	2339.4	2339.4	2339.4	2339.4	2339.4	2339.4	2339.4
2.5°	2478.0	2475.2	2475.2	2475.2	2473.8	2471.0	2475.2	2473.8	2466.8	2462.6	2466.8
5°	2510.2	2511.6	2515.8	2517.2	2517.2	2521.4	2532.6	2534.0	2532.6	2535.4	2542.4
7.5°	2541.0	2548.0	2552.2	2559.2	2567.6	2574.6	2594.2	2613.8	2626.4	2636.2	2639.0
10°	2591.4	2602.6	2615.2	2633.4	2653.0	2688.0	2704.8	2724.4	2737.0	2756.6	2760.8
12.5°	2720.2	2734.2	2742.6	2770.6	2795.8	2829.4	2853.2	2858.8	2888.2	2905.0	2924.6
15°	2937.2	2958.2	2987.6	3004.4	3032.4	3061.8	3082.8	3110.8	3115.0	3137.4	3152.8
17.5°	3203.2	3232.6	3292.8	3333.4	3369.8	3399.2	3441.2	3473.4	3480.4	3505.6	3473.4
20°	3575.6	3647.0	3656.8	3738.0	3770.2	3829.0	3913.0	3928.4	3969.0	3928.4	3904.6
22.5°	4079.6	4191.6	4222.4	4300.8	4340.0	4429.6	4454.8	4537.4	4565.4	4534.6	4470.2
25°	4659.2	4832.8	4922.4	5042.8	5062.4	5245.8	5265.4	5362.0	5310.2	5236.0	5237.4
27.5°	5086.2	5381.6	5612.6	5818.4	5962.6	6169.8	6330.8	6375.6	6326.6	6230.0	6196.4
30°	5329.8	5664.4	5996.2	6280.4	6616.4	6932.8	7261.8	7425.6	7453.6	7504.0	7301.0
32.5°	5486.6	5916.4	6311.2	6662.6	7007.0	7414.4	7855.4	8276.8	8631.0	8898.4	8772.4
35°	5618.2	6148.8	6654.2	7079.8	7487.2	7931.0	8376.2	8873.2	9459.8	9802.8	9874.2
37.5°	5671.4	6319.6	6938.4	7484.4	8057.0	8556.8	8999.2	9441.6	10057.6	10669.4	10858.4
40°	5661.6	6403.6	7107.8	7793.8	8495.2	9119.6	9637.6	10161.2	10882.2	11597.6	11905.6
42.5°	5595.8	6416.2	7215.6	7999.6	8799.0	9629.2	10291.4	10894.8	11586.4	12503.4	12938.8
45°	5513.2	6372.8	7238.0	8104.6	9024.4	9984.8	10822.0	11568.2	12378.8	13284.6	13811.0
47.5°	5401.2	6304.2	7210.0	8141.0	9125.2	10213.0	11197.2	12094.6	12986.4	14029.4	14697.2
50°	5279.4	6206.2	7152.6	8114.4	9150.4	10337.6	11411.4	12433.4	13475.0	14600.6	15444.8
52.5°	5194.0	6101.2	7100.8	8059.8	9125.2	10375.4	11489.8	12615.4	13774.6	14938.0	15946.0
55°	5089.0	5961.2	6962.2	7932.4	9032.8	10354.4	11481.4	12678.4	13857.2	15068.2	16219.0
57.5°	5096.0	5896.8	6844.6	7779.8	8843.8	10159.8	11323.2	12615.4	13727.0	14984.2	16228.8
60°	5317.2	6035.4	6906.2	7810.6	8787.8	10036.6	11054.4	12209.4	13344.8	14694.4	16002.0
62.5°	5773.6	6431.6	7222.6	8118.6	9102.8	10283.0	10932.6	11534.6	12542.6	14161.0	15615.6
65°	6318.2	6911.8	7597.8	8450.4	9553.6	10683.4	10864.0	10985.8	11495.4	13123.6	14890.4
67.5°	6862.8	7393.4	7932.4	8639.4	9809.8	10798.2	10584.0	10294.2	10568.6	11918.2	13465.2
70°	7058.8	7763.0	8117.2	8603.0	9615.2	10530.8	10131.8	9402.4	9497.6	10724.0	11855.2
72.5°	6764.8	7768.6	7886.2	8066.8	8748.6	9609.6	9188.2	8250.2	8230.6	9167.2	10081.4
75°	5674.2	7086.8	7085.4	7018.2	7172.2	7662.2	7443.8	6878.2	7117.6	7855.4	8156.4
77.5°	4044.6	5530.0	5600.0	5147.8	5136.6	5357.8	5489.4	6147.4	7015.4	7429.8	7334.6
80°	2541.0	3731.0	4032.0	3473.4	3354.4	3668.0	4481.4	5439.0	6507.2	6879.6	6559.0
82.5°	1530.2	2403.8	3045.0	2728.6	2700.6	3271.8	4170.6	4543.0	4863.6	5259.8	4723.6
85°	1038.8	1601.6	2083.2	2146.2	2391.2	2982.0	3372.6	3207.4	3215.8	3112.2	2835.0
87.5°	198.8	436.8	714.0	870.8	966.0	1297.8	1411.2	1278.2	1349.6	987.0	1079.4
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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CATALOG NUMBER: VST-E07-LED-E-U-SLL

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2339.4	2339.4	2339.4	2339.4	2339.4	2339.4	2339.4	2339.4	2339.4	2339.4	2339.4
2.5°	2459.8	2459.8	2459.8	2452.8	2454.2	2444.4	2440.2	2440.2	2436.0	2436.0	2434.6
5°	2536.8	2528.4	2532.6	2531.2	2531.2	2517.2	2510.2	2510.2	2492.0	2493.4	2487.8
7.5°	2651.6	2650.2	2654.4	2646.0	2634.8	2623.6	2612.4	2606.8	2581.6	2566.2	2556.4
10°	2781.8	2780.4	2784.6	2783.2	2763.6	2742.6	2711.8	2689.4	2658.6	2634.8	2611.0
12.5°	2924.6	2923.2	2920.4	2907.8	2886.8	2853.2	2814.0	2776.2	2730.0	2699.2	2664.2
15°	3147.2	3143.0	3126.2	3108.0	3085.6	3033.8	2965.2	2910.6	2849.0	2795.8	2738.4
17.5°	3476.2	3441.2	3438.4	3397.8	3337.6	3269.0	3204.6	3113.6	3025.4	2945.6	2867.2
20°	3929.8	3848.6	3826.2	3780.0	3700.2	3628.8	3488.8	3367.0	3246.6	3137.4	3038.0
22.5°	4424.0	4365.2	4310.6	4235.0	4125.8	4022.2	3844.4	3691.8	3537.8	3397.8	3287.2
25°	5114.2	5012.0	4914.0	4793.6	4642.4	4519.2	4316.2	4162.2	3960.6	3833.2	3673.6
27.5°	6006.0	5831.0	5665.8	5562.2	5296.2	5117.0	4858.0	4659.2	4415.6	4243.4	4054.4
30°	7166.6	6963.6	6718.6	6360.2	6043.8	5688.2	5367.6	5112.8	4853.8	4613.0	4394.6
32.5°	8605.8	8247.4	7859.6	7291.2	6771.8	6265.0	5838.0	5524.4	5259.8	4960.2	4652.2
35°	9822.4	9452.8	8902.6	8180.2	7539.0	6959.4	6448.4	6020.0	5674.2	5294.8	4887.4
37.5°	10782.8	10361.4	9844.8	9077.6	8400.0	7740.6	7204.4	6658.4	6204.8	5682.6	5167.4
40°	11883.2	11460.4	10892.0	10096.8	9294.6	8579.2	7950.6	7386.4	6829.2	6192.2	5530.0
42.5°	12842.2	12537.0	11961.6	11139.8	10250.8	9454.2	8766.8	8121.4	7393.4	6680.8	5896.8
45°	13841.8	13531.0	12985.0	12125.4	11180.4	10292.8	9471.0	8776.6	7917.0	7068.6	6171.2
47.5°	14725.2	14406.0	13854.4	13000.4	11996.6	11061.4	10157.0	9317.0	8318.8	7344.4	6350.4
50°	15568.0	15177.4	14672.0	13820.8	12748.4	11748.8	10767.4	9689.4	8631.0	7537.6	6472.2
52.5°	16342.2	15845.2	15366.4	14490.0	13330.8	12286.4	11191.6	10005.8	8822.8	7690.2	6554.8
55°	16781.8	16461.2	15888.6	15027.6	13745.2	12656.0	11460.4	10228.4	9013.2	7798.0	6589.8
57.5°	16917.6	16839.2	16359.0	15338.4	13988.8	12859.0	11642.4	10404.8	9140.6	7828.8	6540.8
60°	16809.8	16952.6	16689.4	15556.8	14099.4	12919.2	11732.0	10530.8	9163.0	7730.8	6392.4
62.5°	16464.0	16788.8	16755.2	15629.6	14042.0	12843.6	11722.2	10466.4	8953.0	7425.6	6059.2
65°	15895.6	16304.4	16448.6	15359.4	13718.6	12567.8	11473.0	10061.8	8369.2	6829.2	5500.6
67.5°	14826.0	15444.8	15584.8	14474.6	12873.0	11804.8	10754.8	9221.8	7288.4	5906.6	4628.4
70°	12682.6	13764.8	13953.8	12789.0	11382.0	10444.0	9553.6	7890.4	6069.0	4737.6	3551.8
72.5°	10124.8	10805.2	11191.6	10389.4	9342.2	8661.8	7987.0	6053.6	4579.4	3495.8	2444.4
75°	7915.6	7875.0	8220.8	7687.4	7071.4	6753.6	6246.8	4223.8	3067.4	2315.6	1547.0
77.5°	6767.6	6246.8	5853.4	5478.2	5112.8	5012.0	4526.2	2620.8	1895.6	1387.4	925.4
80°	5625.2	4674.6	3956.4	3428.6	3298.4	3497.2	2962.4	1545.6	1122.8	796.6	581.0
82.5°	4019.4	3362.8	2737.0	2402.4	2179.8	2496.2	1747.2	858.2	609.0	477.4	385.0
85°	2605.4	2490.6	2464.0	2354.8	2084.6	1968.4	1327.2	739.2	456.4	296.8	239.4
87.5°	1002.4	1285.2	1482.6	1589.0	1717.8	1530.2	691.6	254.8	250.6	154.0	116.2
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°	2339.4	2339.4	2339.4	2339.4	2339.4	2339.4	2339.4	2339.4	2339.4	2339.4	2339.4
2.5°	2424.8	2419.2	2417.8	2413.6	2410.8	2410.8	2403.8	2276.4	2275.0	2275.0	2273.6
5°	2476.6	2469.6	2462.6	2461.2	2455.6	2455.6	2448.6	2321.2	2321.2	2321.2	2318.4
7.5°	2546.6	2532.6	2524.2	2520.0	2511.6	2515.8	2521.4	2392.6	2394.0	2392.6	2395.4
10°	2597.0	2588.6	2578.8	2576.0	2570.4	2574.6	2583.0	2455.6	2459.8	2461.2	2464.0
12.5°	2646.0	2632.0	2619.4	2615.2	2612.4	2623.6	2633.4	2510.2	2514.4	2518.6	2518.6
15°	2706.2	2682.4	2665.6	2655.8	2650.2	2661.4	2675.4	2553.6	2555.0	2559.2	2557.8
17.5°	2808.4	2773.4	2734.2	2727.2	2709.0	2713.2	2716.0	2580.2	2574.6	2564.8	2548.0
20°	2966.6	2913.4	2860.2	2837.8	2801.4	2786.0	2755.2	2581.6	2546.6	2517.2	2492.0
22.5°	3193.4	3115.0	3057.6	3019.8	2945.6	2893.8	2809.8	2574.6	2508.8	2458.4	2419.2
25°	3560.2	3466.4	3378.2	3283.0	3166.8	3063.2	2940.0	2636.2	2534.0	2447.2	2371.6
27.5°	3917.2	3768.8	3633.0	3490.2	3326.4	3171.0	2997.4	2655.8	2539.6	2427.6	2304.4
30°	4184.6	3969.0	3763.2	3554.6	3340.4	3138.8	2942.8	2588.6	2450.0	2324.0	2193.8
32.5°	4347.0	4067.0	3799.6	3540.6	3288.6	3061.8	2842.0	2472.4	2319.8	2171.4	2032.8
35°	4501.0	4153.8	3822.0	3516.8	3228.4	2976.4	2739.8	2336.6	2154.6	1996.4	1821.4
37.5°	4691.4	4244.8	3836.0	3473.4	3140.2	2851.8	2591.4	2165.8	1983.8	1789.2	1624.0
40°	4919.6	4338.6	3822.0	3386.6	3003.0	2688.0	2412.2	1986.6	1783.6	1594.6	1432.2
42.5°	5136.6	4421.2	3785.6	3270.4	2853.2	2517.2	2248.4	1827.0	1624.0	1430.8	1269.8
45°	5297.6	4491.2	3767.4	3189.2	2738.4	2401.0	2104.2	1698.2	1484.0	1289.4	1125.6
47.5°	5409.6	4533.2	3759.0	3144.4	2658.6	2280.6	1972.6	1569.4	1344.0	1148.0	988.4
50°	5468.4	4531.8	3738.0	3095.4	2541.0	2136.4	1836.8	1439.2	1215.2	1023.4	877.8
52.5°	5483.8	4506.6	3693.2	3005.8	2398.2	1992.2	1691.2	1303.4	1101.8	918.4	771.4
55°	5448.8	4445.0	3599.4	2856.0	2245.6	1839.6	1558.2	1197.0	991.2	817.6	702.8
57.5°	5349.4	4335.8	3423.0	2650.2	2084.6	1698.2	1405.6	1068.2	870.8	725.2	630.0
60°	5164.6	4104.8	3147.2	2406.6	1880.2	1482.6	1195.6	900.2	743.4	634.2	557.2
62.5°	4823.0	3742.2	2759.4	2070.6	1586.2	1202.6	954.8	718.2	600.6	529.2	481.6
65°	4272.8	3196.2	2310.0	1631.0	1205.4	875.0	709.8	540.4	455.0	411.6	397.6
67.5°	3487.4	2468.2	1680.0	1132.6	816.2	613.2	494.2	394.8	354.2	337.4	331.8
70°	2535.4	1681.4	1087.8	715.4	539.0	428.4	373.8	317.8	295.4	291.2	291.2
72.5°	1591.8	1022.0	666.4	490.0	408.8	347.2	319.2	280.0	271.6	268.8	264.6
75°	933.8	620.2	471.8	401.8	350.0	310.8	287.0	254.8	249.2	247.8	243.6
77.5°	595.0	446.6	380.8	343.0	316.4	281.4	260.4	226.8	225.4	224.0	222.6
80°	427.0	371.0	333.2	303.8	277.2	245.0	232.4	205.8	203.0	201.6	204.4
82.5°	323.4	306.6	291.2	268.8	232.4	208.6	198.8	180.6	182.0	175.0	173.6
85°	222.6	219.8	218.4	208.6	182.0	161.0	154.0	144.2	151.2	144.2	135.8
87.5°	109.2	107.8	99.4	117.6	109.2	86.8	78.4	86.8	96.6	93.8	86.8
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: P158910

CATALOG NUMBER: VST-E07-LED-E-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2339.4	2339.4	2339.4	2339.4	2339.4	2339.4	2339.4	2339.4	2339.4	2339.4	2339.4
2.5°	2268.0	2262.4	2266.6	2263.8	2263.8	2262.4	2265.2	2261.0	2258.2	2261.0	2262.4
5°	2312.8	2305.8	2307.2	2297.4	2301.6	2291.8	2294.6	2287.6	2280.6	2277.8	2277.8
7.5°	2388.4	2381.4	2373.0	2371.6	2356.2	2350.6	2340.8	2335.2	2331.0	2321.2	2315.6
10°	2457.0	2445.8	2436.0	2434.6	2419.2	2405.2	2392.6	2381.4	2374.4	2360.4	2353.4
12.5°	2513.0	2501.8	2486.4	2478.0	2462.6	2445.8	2437.4	2420.6	2410.8	2395.4	2382.8
15°	2545.2	2525.6	2503.2	2487.8	2465.4	2447.2	2434.6	2422.0	2412.2	2392.6	2374.4
17.5°	2529.8	2497.6	2466.8	2438.8	2408.0	2391.2	2373.0	2357.6	2354.8	2332.4	2304.4
20°	2465.4	2427.6	2387.0	2349.2	2308.6	2284.8	2262.4	2238.6	2231.6	2205.0	2168.6
22.5°	2387.0	2343.6	2297.4	2251.2	2199.4	2165.8	2132.2	2102.8	2079.0	2039.8	1988.0
25°	2307.2	2242.8	2175.6	2116.8	2056.6	2014.6	1979.6	1947.4	1919.4	1856.4	1803.2
27.5°	2202.2	2101.4	2032.8	1965.6	1892.8	1838.2	1799.0	1754.2	1723.4	1650.6	1594.6
30°	2067.8	1967.0	1869.0	1801.8	1729.0	1670.2	1619.8	1555.4	1510.6	1457.4	1405.6
32.5°	1898.4	1797.6	1698.2	1622.6	1562.4	1489.6	1426.6	1365.0	1313.2	1261.4	1220.8
35°	1692.6	1594.6	1500.8	1425.2	1358.0	1300.6	1240.4	1187.2	1128.4	1072.4	1048.6
37.5°	1475.6	1370.6	1267.0	1201.2	1148.0	1107.4	1051.4	1008.0	954.8	921.2	893.2
40°	1286.6	1174.6	1076.6	1020.6	978.6	932.4	886.2	852.6	814.8	781.2	760.2
42.5°	1127.0	1022.0	938.0	890.4	840.0	789.6	754.6	726.6	702.8	677.6	652.4
45°	980.0	879.2	809.2	750.4	708.4	667.8	644.0	631.4	617.4	602.0	585.2
47.5°	856.8	770.0	701.4	646.8	603.4	575.4	564.2	560.0	554.4	541.8	533.4
50°	763.0	691.6	621.6	572.6	536.2	522.2	509.6	505.4	498.4	494.2	488.6
52.5°	684.6	609.0	550.2	505.4	483.0	477.4	471.8	466.2	464.8	462.0	459.2
55°	620.2	554.4	499.8	466.2	455.0	450.8	449.4	443.8	442.4	442.4	438.2
57.5°	562.8	506.8	457.8	436.8	429.8	425.6	422.8	420.0	420.0	422.8	421.4
60°	504.0	456.4	427.0	415.8	411.6	404.6	397.6	394.8	396.2	403.2	403.2
62.5°	446.6	411.6	393.4	389.2	385.0	379.4	371.0	368.2	371.0	379.4	383.6
65°	383.6	368.2	362.6	359.8	357.0	352.8	347.2	344.4	345.8	350.0	355.6
67.5°	326.2	324.8	324.8	326.2	324.8	323.4	320.6	316.4	315.0	315.0	317.8
70°	291.2	291.2	295.4	295.4	294.0	294.0	289.8	285.6	282.8	280.0	281.4
72.5°	264.6	264.6	266.0	267.4	266.0	266.0	260.4	257.6	250.6	249.2	246.4
75°	242.2	239.4	239.4	238.0	236.6	238.0	232.4	225.4	222.6	221.2	218.4
77.5°	219.8	214.2	211.4	208.6	210.0	208.6	204.4	200.2	196.0	194.6	193.2
80°	194.6	186.2	182.0	175.0	179.2	180.6	177.8	173.6	172.2	170.8	169.4
82.5°	161.0	152.6	147.0	142.8	140.0	142.8	147.0	156.8	154.0	152.6	149.8
85°	126.0	112.0	105.0	106.4	99.4	100.8	113.4	119.0	119.0	121.8	119.0
87.5°	71.4	68.6	51.8	47.6	50.4	60.2	67.2	74.2	74.2	70.0	78.4
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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CATALOG NUMBER: VST-E07-LED-E-U-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2339.4	2339.4	2339.4	2339.4	2339.4	2339.4	2339.4	2339.4	2339.4	2339.4	2339.4
2.5°	2262.4	2265.2	2266.6	2272.2	2275.0	2276.4	2277.8	2280.6	2282.0	2280.6	2287.6
5°	2273.6	2273.6	2270.8	2275.0	2276.4	2276.4	2273.6	2276.4	2276.4	2276.4	2283.4
7.5°	2303.0	2294.6	2290.4	2284.8	2280.6	2275.0	2268.0	2268.0	2266.6	2268.0	2272.2
10°	2333.8	2321.2	2305.8	2291.8	2279.2	2269.4	2256.8	2252.6	2251.2	2249.8	2261.0
12.5°	2357.6	2335.2	2311.4	2287.6	2262.4	2245.6	2224.6	2212.0	2210.6	2210.6	2224.6
15°	2340.8	2304.4	2258.2	2216.2	2193.8	2170.0	2146.2	2130.8	2129.4	2132.2	2140.6
17.5°	2256.8	2198.0	2157.4	2116.8	2087.4	2067.8	2052.4	2049.6	2055.2	2049.6	2060.8
20°	2114.0	2051.0	2023.0	1990.8	1979.6	1965.6	1943.2	1923.6	1923.6	1898.4	1905.4
22.5°	1929.2	1894.2	1857.8	1832.6	1824.2	1800.4	1776.6	1750.0	1747.2	1716.4	1712.2
25°	1736.0	1701.0	1671.6	1666.0	1640.8	1608.6	1586.2	1555.4	1548.4	1517.6	1513.4
27.5°	1538.6	1510.6	1481.2	1464.4	1450.4	1415.4	1395.8	1359.4	1345.4	1311.8	1307.6
30°	1351.0	1331.4	1296.4	1282.4	1255.8	1215.2	1173.2	1150.8	1139.6	1104.6	1093.4
32.5°	1174.6	1143.8	1117.2	1100.4	1066.8	1020.6	982.8	950.6	929.6	887.6	876.4
35°	1006.6	975.8	963.2	919.8	890.4	859.6	807.8	788.2	750.4	718.2	707.0
37.5°	858.2	828.8	812.0	775.6	746.2	715.4	684.6	659.4	641.2	634.2	634.2
40°	730.8	715.4	694.4	667.8	648.2	625.8	609.0	600.6	599.2	602.0	609.0
42.5°	639.8	623.0	609.0	595.0	581.0	578.2	574.0	579.6	586.6	593.6	600.6
45°	571.2	557.2	548.8	543.2	541.8	546.0	554.4	562.8	575.4	583.8	589.4
47.5°	522.2	511.0	508.2	506.8	513.8	526.4	537.6	550.2	560.0	568.4	574.0
50°	480.2	470.4	469.0	467.6	477.4	488.6	498.4	515.2	522.2	527.8	532.0
52.5°	450.8	442.4	438.2	439.6	449.4	459.2	473.2	485.8	495.6	499.8	504.0
55°	427.0	424.2	414.4	418.6	428.4	441.0	455.0	469.0	478.8	485.8	492.8
57.5°	408.8	401.8	394.8	401.8	411.6	424.2	441.0	453.6	466.2	476.0	483.0
60°	389.2	383.6	378.0	385.0	394.8	407.4	420.0	436.8	452.2	462.0	469.0
62.5°	372.4	368.2	362.6	364.0	368.2	376.6	383.6	399.0	413.0	425.6	434.0
65°	348.6	347.2	338.8	340.2	343.0	351.4	357.0	371.0	385.0	396.2	403.2
67.5°	313.6	310.8	310.8	315.0	316.4	320.6	324.8	338.8	350.0	358.4	366.8
70°	278.6	277.2	277.2	280.0	278.6	282.8	288.4	301.0	315.0	323.4	331.8
72.5°	245.0	245.0	243.6	246.4	246.4	247.8	254.8	266.0	278.6	285.6	291.2
75°	215.6	214.2	214.2	214.2	215.6	215.6	222.6	232.4	245.0	249.2	257.6
77.5°	189.0	189.0	189.0	189.0	190.4	189.0	193.2	200.2	204.4	211.4	211.4
80°	166.6	165.2	166.6	168.0	168.0	166.6	166.6	168.0	169.4	169.4	169.4
82.5°	147.0	142.8	145.6	152.6	152.6	152.6	151.2	141.4	134.4	134.4	137.2
85°	117.6	117.6	119.0	128.8	130.2	124.6	130.2	116.2	102.2	98.0	100.8
87.5°	72.8	57.4	70.0	79.8	79.8	75.6	84.0	78.4	65.8	53.2	50.4
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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REPORT N
CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	2339.4	2339.4	2339.4	2339.4	2339.4	2339.4	2339.4	2339.4	2339.4	2339.4	2339.4	0°
2.5°	2293.2	2294.6	2303.0	2307.2	2307.2	2312.8	2315.6	2324.0	2322.6	2322.6	2325.4	2.5°
5°	2290.4	2294.6	2303.0	2308.6	2311.4	2318.4	2324.0	2333.8	2332.4	2335.2	2336.6	5°
7.5°	2280.6	2291.8	2300.2	2311.4	2321.2	2326.8	2333.8	2342.2	2339.4	2340.8	2339.4	7.5°
10°	2272.2	2283.4	2300.2	2315.6	2329.6	2338.0	2342.2	2352.0	2350.6	2353.4	2353.4	10°
12.5°	2238.6	2258.2	2279.2	2303.0	2324.0	2346.4	2360.4	2381.4	2391.2	2403.8	2417.8	12.5°
15°	2153.2	2175.6	2209.2	2235.8	2276.4	2307.2	2347.8	2388.4	2424.8	2459.8	2500.4	15°
17.5°	2069.2	2079.0	2105.6	2142.0	2178.4	2224.6	2273.6	2346.4	2412.2	2483.6	2562.0	17.5°
20°	1913.8	1930.6	1948.8	1992.2	2035.6	2101.4	2161.6	2256.8	2353.4	2465.4	2585.8	20°
22.5°	1722.0	1738.8	1758.4	1807.4	1860.6	1927.8	2000.6	2107.0	2235.8	2381.4	2542.4	22.5°
25°	1514.8	1524.6	1540.0	1589.0	1621.2	1709.4	1797.6	1908.2	2048.2	2235.8	2423.4	25°
27.5°	1286.6	1304.8	1317.4	1339.8	1414.0	1489.6	1582.0	1701.0	1870.4	2062.2	2289.0	27.5°
30°	1068.2	1083.6	1076.6	1124.2	1173.2	1253.0	1352.4	1484.0	1646.4	1874.6	2136.4	30°
32.5°	854.0	865.2	861.0	894.6	943.6	1023.4	1117.2	1260.0	1432.2	1675.8	1960.0	32.5°
35°	704.2	707.0	722.4	737.8	779.8	844.2	924.0	1048.6	1225.0	1449.0	1750.0	35°
37.5°	634.2	639.8	649.6	670.6	701.4	747.6	813.4	910.0	1061.2	1258.6	1527.4	37.5°
40°	613.2	617.4	623.0	637.0	666.4	707.0	765.8	847.0	957.6	1124.2	1342.6	40°
42.5°	603.4	603.4	603.4	611.8	634.2	677.6	744.8	824.6	921.2	1047.2	1223.6	42.5°
45°	589.4	589.4	588.0	592.2	607.6	651.0	723.8	813.4	917.0	1037.4	1190.0	45°
47.5°	574.0	572.6	568.4	568.4	578.2	621.6	697.2	793.8	907.2	1045.8	1209.6	47.5°
50°	532.0	532.0	532.0	536.2	544.6	583.8	665.0	767.2	897.4	1051.4	1240.4	50°
52.5°	508.2	509.6	513.8	513.8	522.2	562.8	648.2	761.6	903.0	1072.4	1279.6	52.5°
55°	497.0	501.2	505.4	505.4	512.4	554.4	642.6	765.8	924.0	1115.8	1346.8	55°
57.5°	487.2	491.4	494.2	494.2	499.8	536.2	627.2	758.8	936.6	1157.8	1429.4	57.5°
60°	469.0	471.8	473.2	473.2	474.6	505.4	592.2	725.2	908.6	1155.0	1474.2	60°
62.5°	435.4	441.0	442.4	443.8	443.8	473.2	547.4	670.6	848.4	1113.0	1461.6	62.5°
65°	410.2	413.0	417.2	420.0	425.6	445.2	504.0	604.8	770.0	1029.0	1391.6	65°
67.5°	371.0	375.2	379.4	385.0	390.6	403.2	449.4	530.6	663.6	886.2	1234.8	67.5°
70°	336.0	337.4	341.6	348.6	350.0	357.0	390.6	446.6	543.2	711.2	994.0	70°
72.5°	292.6	295.4	301.0	309.4	309.4	315.0	334.6	364.0	425.6	543.2	733.6	72.5°
75°	254.8	257.6	261.8	261.8	254.8	256.2	270.2	291.2	337.4	408.8	534.8	75°
77.5°	211.4	217.0	221.2	212.8	210.0	214.2	221.2	236.6	270.2	324.8	401.8	77.5°
80°	175.0	177.8	179.2	180.6	177.8	182.0	187.6	197.4	219.8	261.8	317.8	80°
82.5°	140.0	142.8	147.0	152.6	152.6	168.0	169.4	169.4	182.0	208.6	249.2	82.5°
85°	103.6	109.2	114.8	121.8	123.2	131.6	127.4	126.0	130.2	155.4	172.2	85°
87.5°	53.2	57.4	60.2	65.8	58.8	61.6	61.6	57.4	50.4	63.0	70.0	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°
2339.4	2339.4	2339.4	2339.4	2339.4	2339.4	2339.4
2328.2	2325.4	2328.2	2328.2	2332.4	2329.6	2478.0
2339.4	2336.6	2339.4	2342.2	2346.4	2346.4	2510.2
2340.8	2340.8	2338.0	2345.0	2350.6	2356.2	2541.0
2357.6	2357.6	2360.4	2361.8	2374.4	2388.4	2591.4
2426.2	2433.2	2445.8	2450.0	2472.4	2487.8	2720.2
2531.2	2570.4	2595.6	2604.0	2623.6	2653.0	2937.2
2637.6	2703.4	2772.0	2814.0	2839.2	2874.2	3203.2
2717.4	2840.6	2958.2	3063.2	3123.4	3192.0	3575.6
2724.4	2920.4	3119.2	3313.8	3474.8	3602.2	4079.6
2657.2	2914.8	3189.2	3487.4	3764.6	3994.2	4659.2
2571.8	2888.2	3238.2	3619.0	3983.0	4321.8	5086.2
2464.0	2843.4	3246.6	3675.0	4102.0	4509.4	5329.8
2300.2	2710.4	3145.8	3619.0	4114.6	4610.2	5486.6
2090.2	2508.8	2955.4	3494.4	4055.8	4650.8	5618.2
1876.0	2289.0	2769.2	3327.8	3962.0	4643.8	5671.4
1649.2	2059.4	2550.8	3150.0	3834.6	4579.4	5661.6
1495.2	1869.0	2350.6	2969.4	3693.2	4494.0	5595.8
1405.6	1733.2	2192.4	2804.2	3564.4	4391.8	5513.2
1404.2	1692.6	2108.4	2686.6	3434.2	4278.4	5401.2
1453.2	1717.8	2098.6	2636.2	3362.8	4195.8	5279.4
1510.6	1787.8	2150.4	2654.4	3361.4	4159.4	5194.0
1601.6	1906.8	2263.8	2732.8	3397.8	4153.8	5089.0
1717.8	2067.8	2468.2	2926.0	3539.2	4264.4	5096.0
1836.8	2256.8	2735.6	3256.4	3817.8	4522.0	5317.2
1880.2	2402.4	3007.2	3644.2	4235.0	4908.4	5773.6
1842.4	2436.0	3172.4	3945.2	4641.0	5360.6	6318.2
1702.4	2300.2	3105.2	4030.6	4874.8	5681.2	6862.8
1401.4	1962.8	2800.0	3838.8	4856.6	5747.0	7058.8
1027.6	1521.8	2276.4	3262.0	4317.6	5335.4	6764.8
742.0	1076.6	1643.6	2457.0	3413.2	4296.6	5674.2
532.0	746.2	1066.8	1614.2	2325.4	2991.8	4044.6
382.2	506.8	665.0	968.8	1416.8	1836.8	2541.0
281.4	347.2	436.8	602.0	834.4	1069.6	1530.2
191.8	204.4	263.2	355.6	547.4	786.8	1038.8
72.8	82.6	96.6	145.6	245.0	281.4	198.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)