

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: P159179

Luminaire Tested: **VST-E12-LED-E-U-SLR-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159179
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-E12-LED-E-U-SLR-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(12) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (252) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29453.1 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 291.7
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

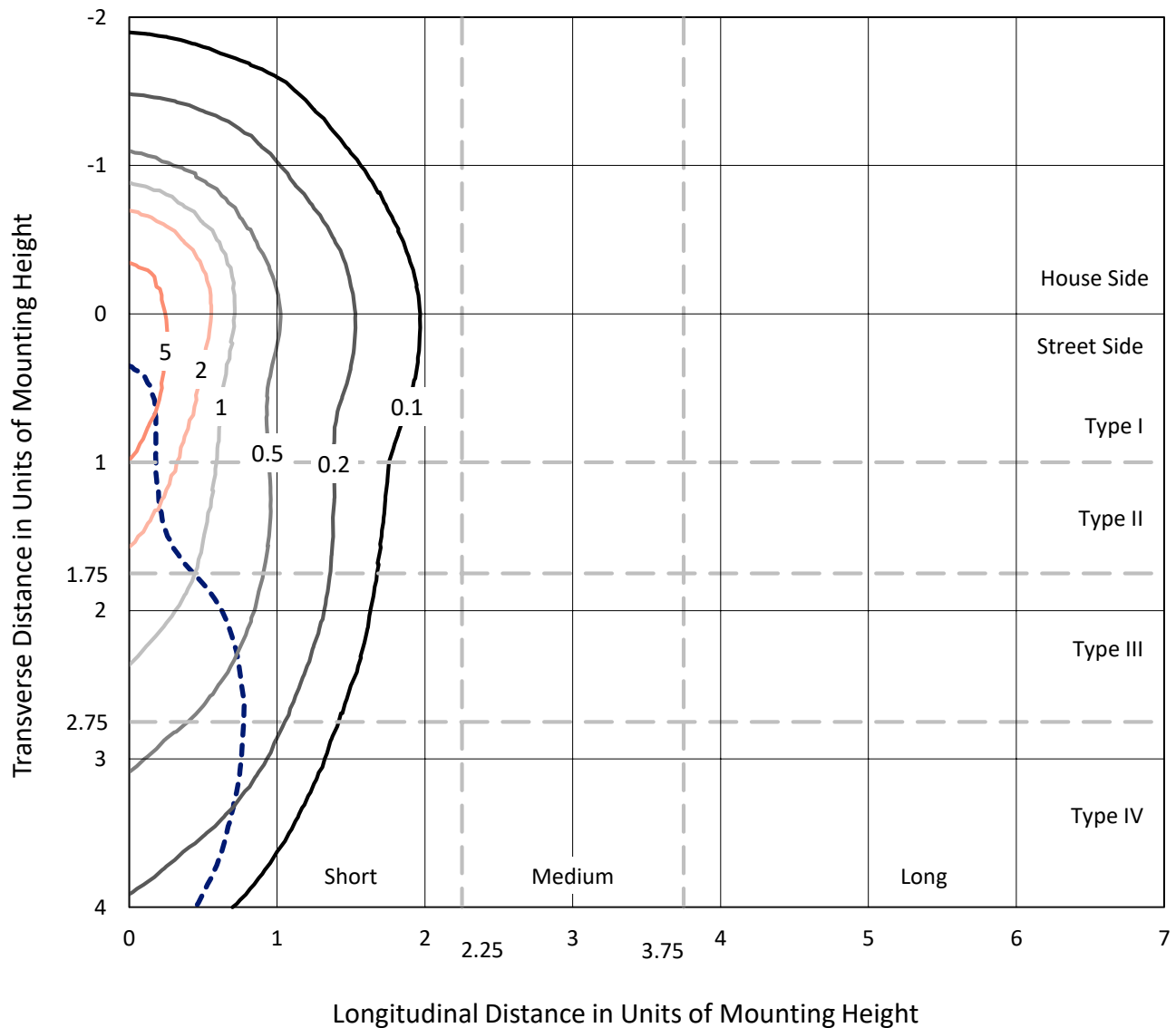


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

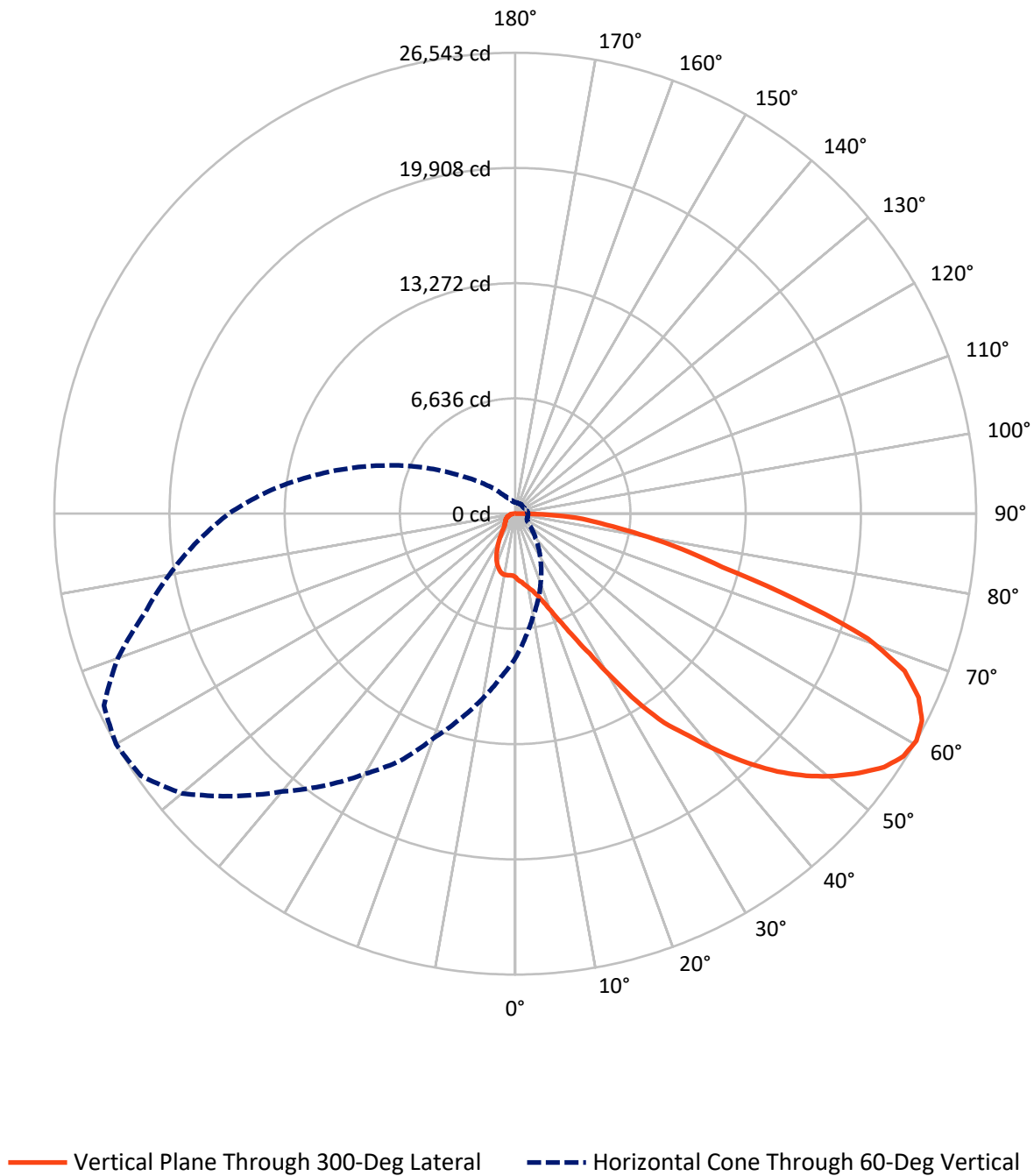


Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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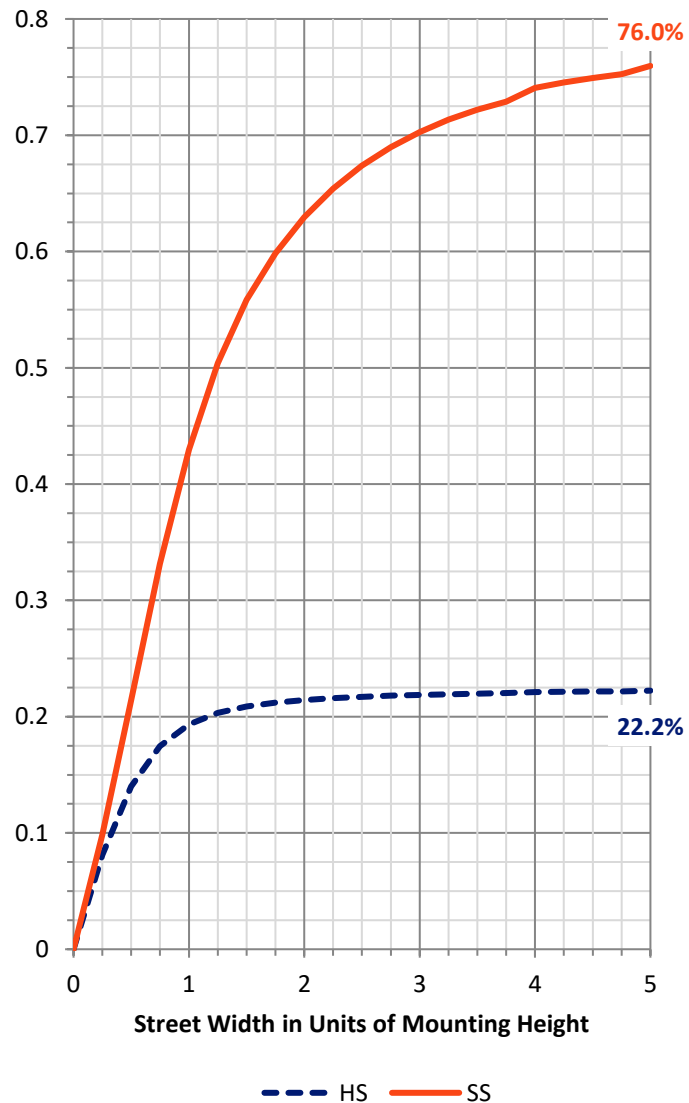
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6631.9	0.0	6631.9
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	22821.2	0.0	22821.2
	% Fixture	77.5	0.0	77.5
Total	Lumens	29453.1	0.0	29453.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.4	1.2
10°-20°	1166.8	4.0
20°-30°	2214.1	7.5
30°-40°	3486.8	11.8
40°-50°	4866.7	16.5
50°-60°	6019.0	20.4
60°-70°	6239.0	21.2
70°-80°	3925.8	13.3
80°-90°	1173.5	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°	29453.1	100.0
0°-180°	29453.1	100.0

Coefficient of Utilization



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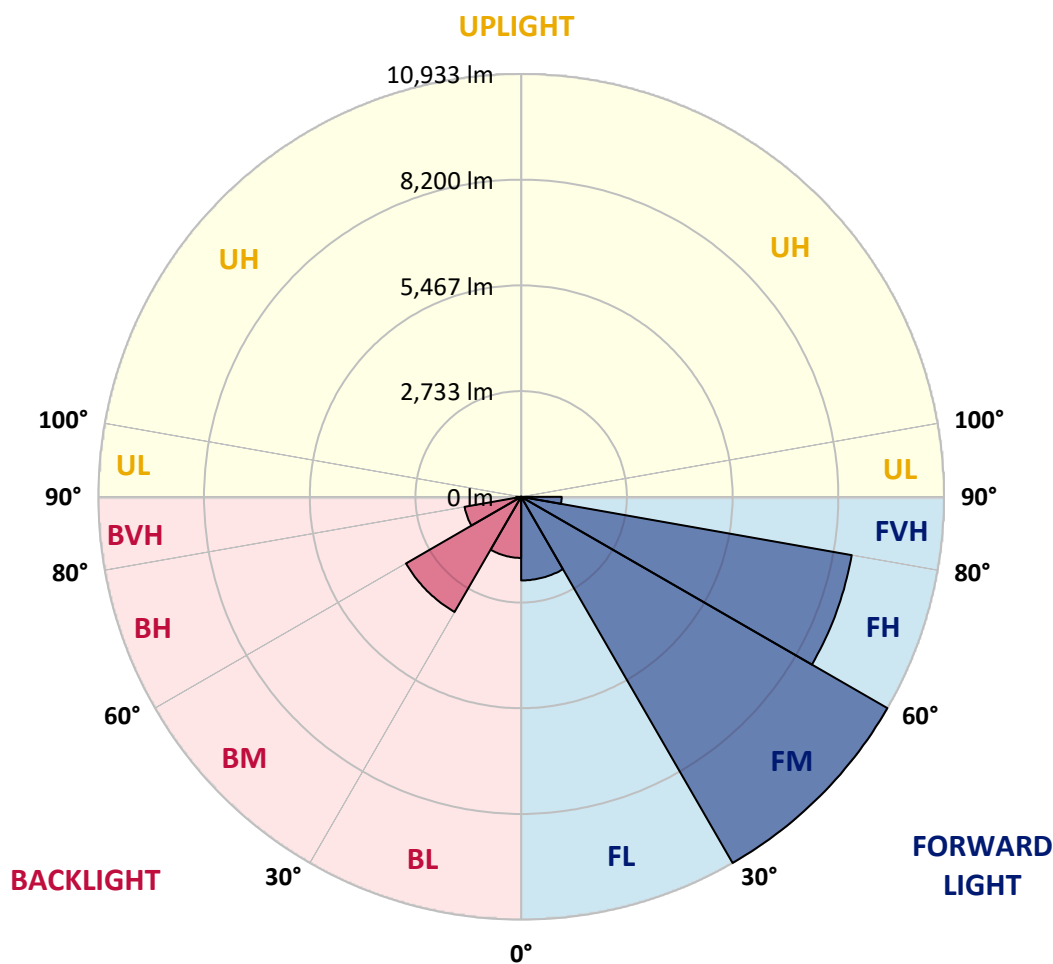
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2162.3	7.3			
FM	(30°-60°)	10933.5	37.1			
FH	(60°-80°)	8679.6	29.5			G4/12000
FVH	(80°-90°)	1045.9	3.6			G5
BL	(0°-30°)	1580.0	5.4	B3/2500		
BM	(30°-60°)	3439.0	11.7	B3/5000		
BH	(60°-80°)	1485.3	5.0	B3/2500		G3/2500
BVH	(80°-90°)	127.7	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°	3662.9	3662.9	3662.9	3662.9	3662.9	3662.9	3662.9	3662.9	3662.9	3662.9	3662.9
2.5°	3879.9	3647.6	3651.9	3645.4	3645.4	3641.0	3645.4	3641.0	3636.6	3636.6	3638.8
5°	3930.3	3673.9	3673.9	3667.3	3662.9	3658.5	3662.9	3658.5	3656.3	3651.9	3654.1
7.5°	3978.6	3689.2	3680.4	3671.7	3660.7	3665.1	3665.1	3662.9	3665.1	3662.9	3667.3
10°	4057.5	3739.6	3717.7	3698.0	3695.8	3691.4	3691.4	3684.8	3684.8	3680.4	3682.6
12.5°	4259.1	3895.3	3871.1	3836.1	3829.5	3809.8	3798.8	3785.7	3763.7	3744.0	3728.7
15°	4598.9	4153.9	4107.9	4077.2	4064.0	4024.6	3963.2	3915.0	3851.4	3796.6	3739.6
17.5°	5015.4	4500.3	4445.5	4406.0	4340.2	4232.8	4129.8	4011.4	3888.7	3776.9	3673.9
20°	5598.5	4997.9	4890.4	4796.2	4631.8	4447.7	4254.8	4048.7	3860.2	3684.8	3533.6
22.5°	6387.6	5640.1	5440.6	5188.6	4883.9	4572.6	4265.7	3980.7	3728.7	3500.7	3299.0
25°	7295.1	6253.9	5894.4	5460.4	4993.5	4563.8	4160.5	3794.4	3500.7	3207.0	2987.8
27.5°	7963.7	6766.8	6236.4	5666.4	5070.2	4522.2	4026.8	3584.0	3228.9	2928.6	2663.3
30°	8345.1	7060.6	6422.7	5754.1	5083.3	4452.0	3858.0	3345.1	2935.1	2577.8	2323.6
32.5°	8590.6	7218.4	6442.4	5666.4	4925.5	4243.8	3601.5	3068.9	2623.9	2242.5	1972.8
35°	8796.7	7282.0	6350.3	5471.3	4627.4	3928.1	3272.7	2740.1	2268.8	1918.0	1641.8
37.5°	8880.0	7271.0	6203.5	5210.5	4335.9	3584.0	2937.3	2391.5	1970.6	1661.6	1424.8
40°	8864.6	7170.2	6004.0	4932.1	3993.9	3224.5	2582.2	2102.2	1760.2	1499.4	1326.2
42.5°	8761.6	7036.5	5782.6	4649.3	3680.4	2926.4	2341.1	1915.8	1639.6	1442.4	1291.1
45°	8632.3	6876.4	5580.9	4390.7	3432.7	2713.7	2200.8	1863.2	1624.3	1435.8	1273.6
47.5°	8456.9	6698.9	5377.1	4206.5	3301.2	2650.2	2198.6	1893.9	1637.5	1420.4	1242.9
50°	8266.2	6569.5	5265.3	4127.6	3285.9	2689.6	2275.3	1942.1	1646.2	1405.1	1201.2
52.5°	8132.5	6512.6	5263.1	4156.1	3367.0	2799.2	2365.2	2003.5	1679.1	1413.9	1192.5
55°	7968.1	6503.8	5320.1	4278.9	3544.5	2985.6	2507.7	2108.7	1747.1	1446.7	1199.0
57.5°	7979.0	6677.0	5541.5	4581.4	3864.6	3237.6	2689.6	2238.1	1812.8	1466.5	1188.1
60°	8325.4	7080.3	5977.7	5098.7	4283.2	3533.6	2876.0	2308.2	1808.4	1422.6	1135.5
62.5°	9040.0	7685.3	6630.9	5705.9	4708.5	3761.5	2943.9	2288.5	1742.7	1328.4	1050.0
65°	9892.7	8393.3	7266.6	6177.2	4967.2	3814.2	2884.7	2178.9	1611.2	1205.6	947.0
67.5°	10745.4	8895.3	7632.7	6310.9	4861.9	3601.5	2665.5	1933.4	1387.6	1039.0	830.8
70°	11052.3	8998.3	7604.2	6010.6	4384.1	3073.2	2194.2	1556.3	1113.6	850.5	699.3
72.5°	10591.9	8353.9	6760.3	5107.5	3564.3	2382.7	1609.0	1148.6	850.5	666.4	569.9
75°	8884.3	6727.4	5344.2	3847.0	2573.5	1685.7	1161.8	837.4	640.1	528.3	455.9
77.5°	6332.8	4684.4	3641.0	2527.4	1670.3	1168.4	833.0	629.1	508.6	423.1	370.5
80°	3978.6	2876.0	2218.3	1516.9	1041.2	793.5	598.4	497.6	409.9	344.2	309.1
82.5°	2395.9	1674.7	1306.5	942.6	683.9	543.6	440.6	390.2	326.6	285.0	265.2
85°	1626.5	1231.9	857.1	556.8	412.1	320.0	300.3	269.6	243.3	203.9	197.3
87.5°	311.3	440.6	383.6	228.0	151.3	129.3	114.0	109.6	98.6	78.9	89.9
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3662.9	3662.9	3662.9	3662.9	3662.9	3662.9	3662.9	3662.9	3662.9	3662.9	3662.9
2.5°	3625.6	3621.3	3612.5	3612.5	3605.9	3592.8	3590.6	3581.8	3570.8	3573.0	3570.8
5°	3638.8	3630.0	3619.1	3614.7	3605.9	3592.8	3586.2	3575.2	3564.3	3564.3	3564.3
7.5°	3654.1	3643.2	3634.4	3619.1	3601.5	3588.4	3570.8	3557.7	3551.1	3548.9	3551.1
10°	3667.3	3660.7	3647.6	3625.6	3601.5	3575.2	3557.7	3540.1	3522.6	3524.8	3527.0
12.5°	3695.8	3673.9	3638.8	3605.9	3568.6	3535.8	3505.1	3483.2	3461.2	3461.2	3463.4
15°	3676.1	3612.5	3564.3	3500.7	3459.0	3406.4	3371.4	3351.6	3338.5	3334.1	3336.3
17.5°	3559.9	3483.2	3410.8	3353.8	3296.8	3255.2	3239.8	3226.7	3209.1	3217.9	3209.1
20°	3384.5	3290.3	3187.2	3119.3	3051.3	3022.8	2996.5	2983.4	2972.4	3011.9	3011.9
22.5°	3132.4	3018.4	2913.2	2829.9	2753.2	2722.5	2696.2	2680.9	2687.4	2735.7	2740.1
25°	2814.6	2676.5	2538.4	2488.0	2411.2	2387.1	2371.8	2369.6	2376.2	2424.4	2435.4
27.5°	2477.0	2332.3	2214.0	2097.8	2062.7	2043.0	2014.5	2047.4	2053.9	2106.6	2128.5
30°	2117.5	1961.9	1836.9	1760.2	1685.7	1696.6	1672.5	1712.0	1729.5	1784.3	1801.9
32.5°	1749.2	1602.4	1477.4	1400.7	1348.1	1354.7	1337.1	1372.2	1389.8	1455.5	1488.4
35°	1446.7	1321.8	1221.0	1155.2	1131.1	1107.0	1102.6	1107.0	1124.5	1174.9	1234.1
37.5°	1273.6	1170.5	1098.2	1050.0	1017.1	1001.8	993.0	993.0	993.0	1004.0	1032.5
40°	1199.0	1107.0	1043.4	997.4	975.5	966.7	960.1	953.5	942.6	938.2	940.4
42.5°	1166.2	1060.9	993.0	957.9	944.8	944.8	944.8	940.4	929.4	918.5	907.5
45°	1133.3	1019.3	951.3	927.2	920.7	922.8	922.8	922.8	914.1	900.9	881.2
47.5°	1091.6	973.3	905.3	890.0	890.0	896.5	898.7	898.7	890.0	876.8	861.5
50°	1041.2	914.1	852.7	839.6	833.0	833.0	833.0	833.0	826.4	817.6	806.7
52.5°	1014.9	881.2	817.6	804.5	804.5	797.9	795.7	789.1	782.6	776.0	760.6
55°	1006.1	868.0	802.3	791.3	791.3	784.8	778.2	771.6	760.6	749.7	734.3
57.5°	982.0	839.6	782.6	773.8	773.8	769.4	762.8	756.3	745.3	729.9	710.2
60°	927.2	791.3	743.1	740.9	740.9	738.7	734.3	734.3	723.4	708.0	683.9
62.5°	857.1	740.9	694.9	694.9	692.7	690.5	681.7	679.5	666.4	646.7	624.7
65°	789.1	697.1	666.4	657.6	653.2	646.7	642.3	631.3	620.3	602.8	580.9
67.5°	703.6	631.3	611.6	602.8	594.0	587.5	580.9	574.3	561.2	548.0	530.5
70°	611.6	559.0	548.0	545.8	534.9	528.3	526.1	519.5	506.4	493.2	471.3
72.5°	523.9	493.2	484.4	484.4	471.3	462.5	458.1	455.9	447.2	436.2	416.5
75°	423.1	401.1	399.0	409.9	409.9	403.3	399.0	403.3	390.2	383.6	363.9
77.5°	346.3	335.4	328.8	333.2	346.3	339.8	331.0	331.0	331.0	320.0	313.5
80°	293.7	285.0	278.4	282.8	280.6	278.4	274.0	265.2	265.2	265.2	263.0
82.5°	265.2	263.0	238.9	238.9	230.2	223.6	219.2	214.8	210.4	210.4	221.4
85°	199.5	206.1	192.9	190.7	179.7	171.0	162.2	157.8	153.4	160.0	181.9
87.5°	96.4	96.4	92.1	103.0	94.3	89.9	83.3	78.9	83.3	103.0	122.8
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3662.9	3662.9	3662.9	3662.9	3662.9	3662.9	3662.9	3662.9	3662.9	3662.9	3662.9
2.5°	3566.5	3564.3	3562.1	3557.7	3548.9	3546.7	3542.3	3542.3	3540.1	3535.8	3540.1
5°	3559.9	3564.3	3564.3	3562.1	3555.5	3559.9	3559.9	3566.5	3566.5	3570.8	3581.8
7.5°	3551.1	3562.1	3570.8	3577.4	3586.2	3592.8	3605.9	3625.6	3634.4	3649.7	3656.3
10°	3533.6	3553.3	3568.6	3588.4	3610.3	3634.4	3654.1	3684.8	3695.8	3717.7	3728.7
12.5°	3483.2	3516.0	3542.3	3581.8	3619.1	3656.3	3691.4	3730.9	3750.6	3774.7	3790.0
15°	3360.4	3397.7	3434.9	3470.0	3535.8	3608.1	3665.1	3717.7	3746.2	3776.9	3792.2
17.5°	3213.5	3237.6	3268.3	3314.4	3377.9	3441.5	3533.6	3608.1	3651.9	3687.0	3691.4
20°	3042.6	3077.6	3099.5	3117.1	3167.5	3211.3	3310.0	3395.5	3452.5	3494.1	3505.1
22.5°	2781.7	2819.0	2856.2	2869.4	2908.8	2965.8	3020.6	3112.7	3193.8	3255.2	3292.4
25°	2483.6	2518.7	2569.1	2608.5	2617.3	2663.3	2718.1	2823.3	2906.6	3005.3	3049.1
27.5°	2185.5	2216.2	2271.0	2292.9	2319.2	2365.2	2409.1	2496.7	2584.4	2698.4	2746.6
30°	1836.9	1902.7	1966.3	2007.9	2029.8	2084.6	2115.3	2200.8	2281.9	2365.2	2435.4
32.5°	1538.8	1598.0	1670.3	1722.9	1749.2	1790.9	1839.1	1911.5	1975.0	2056.1	2137.2
35°	1264.8	1345.9	1394.1	1440.2	1508.1	1527.9	1576.1	1641.8	1679.1	1766.8	1858.9
37.5°	1071.9	1120.1	1168.4	1214.4	1271.4	1297.7	1343.7	1398.5	1442.4	1495.0	1578.3
40°	953.5	979.8	1014.9	1045.6	1087.3	1120.1	1144.2	1190.3	1223.2	1275.8	1335.0
42.5°	898.7	905.3	909.7	931.6	953.5	975.5	1001.8	1021.5	1060.9	1100.4	1137.7
45°	868.0	854.9	848.3	850.5	859.3	872.4	894.4	916.3	942.6	966.7	988.6
47.5°	841.7	824.2	804.5	793.5	795.7	800.1	817.6	835.2	848.3	868.0	876.8
50°	780.4	765.0	747.5	732.1	734.3	736.5	751.9	765.0	773.8	780.4	791.3
52.5°	740.9	719.0	703.6	688.3	686.1	692.7	705.8	719.0	723.4	727.8	729.9
55°	712.4	690.5	670.8	655.4	648.8	664.2	668.6	686.1	692.7	692.7	694.9
57.5°	690.5	664.2	644.5	629.1	618.2	629.1	640.1	659.8	662.0	657.6	657.6
60°	657.6	637.9	618.2	602.8	591.9	600.6	609.4	631.3	631.3	620.3	618.2
62.5°	600.6	589.7	576.5	569.9	567.7	576.5	583.1	600.6	594.0	580.9	576.5
65°	559.0	550.2	537.0	532.7	530.5	543.6	545.8	556.8	548.0	541.4	539.2
67.5°	508.6	502.0	495.4	493.2	486.6	486.6	491.0	497.6	493.2	493.2	495.4
70°	451.6	442.8	436.2	438.4	434.0	434.0	436.2	440.6	438.4	442.8	447.2
72.5°	399.0	388.0	385.8	385.8	381.4	383.6	383.6	385.8	390.2	392.4	403.3
75°	348.5	337.6	337.6	335.4	335.4	335.4	337.6	342.0	346.3	348.5	352.9
77.5°	302.5	295.9	298.1	295.9	295.9	295.9	295.9	302.5	304.7	306.9	313.5
80°	260.9	260.9	263.0	263.0	260.9	258.7	260.9	265.2	267.4	269.6	271.8
82.5°	236.7	238.9	238.9	238.9	228.0	223.6	230.2	234.5	238.9	241.1	245.5
85°	203.9	195.1	203.9	201.7	186.3	184.1	184.1	186.3	190.7	186.3	186.3
87.5°	131.5	118.4	124.9	124.9	109.6	89.9	114.0	122.8	109.6	116.2	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



REPORT NUMBER: P159179

CATALOG NUMBER: VST-E12-LED-E-U-SLR-7030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3662.9	3662.9	3662.9	3662.9	3662.9	3662.9	3662.9	3662.9	3662.9	3662.9	3662.9
2.5°	3546.7	3542.3	3544.5	3544.5	3548.9	3542.3	3551.1	3559.9	3562.1	3562.1	3564.3
5°	3592.8	3588.4	3603.7	3597.1	3612.5	3610.3	3621.3	3630.0	3634.4	3634.4	3634.4
7.5°	3665.1	3680.4	3689.2	3713.3	3715.5	3728.7	3739.6	3750.6	3746.2	3748.4	3746.2
10°	3746.2	3765.9	3787.8	3812.0	3814.2	3829.5	3847.0	3858.0	3853.6	3851.4	3844.8
12.5°	3816.3	3829.5	3855.8	3879.9	3893.1	3917.2	3934.7	3943.5	3943.5	3936.9	3930.3
15°	3812.0	3831.7	3860.2	3895.3	3919.4	3954.4	3985.1	4004.9	4007.1	4000.5	3998.3
17.5°	3715.5	3744.0	3770.3	3818.5	3862.4	3910.6	3961.0	3989.5	4015.8	4031.2	4039.9
20°	3542.3	3577.4	3614.7	3678.2	3737.4	3801.0	3860.2	3901.8	3941.3	3987.3	4042.1
22.5°	3338.5	3391.1	3443.7	3524.8	3597.1	3669.5	3737.4	3787.8	3849.2	3928.1	4031.2
25°	3099.5	3154.3	3220.1	3314.4	3406.4	3511.6	3612.5	3713.3	3831.7	3967.6	4127.6
27.5°	2816.8	2878.1	2963.6	3077.6	3182.8	3290.3	3448.1	3608.1	3801.0	3976.4	4158.3
30°	2536.2	2615.1	2707.2	2821.2	2926.4	3079.8	3237.6	3434.9	3638.8	3836.1	4053.1
32.5°	2233.7	2332.3	2446.3	2540.6	2658.9	2814.6	2972.4	3182.8	3399.9	3632.2	3871.1
35°	1942.1	2036.4	2126.3	2231.5	2349.9	2496.7	2650.2	2851.8	3125.9	3373.6	3658.5
37.5°	1646.2	1733.9	1797.5	1880.8	1983.8	2146.0	2310.4	2542.8	2801.4	3106.1	3391.1
40°	1387.6	1459.9	1532.2	1598.0	1685.7	1839.1	2014.5	2242.5	2496.7	2792.7	3110.5
42.5°	1181.5	1236.3	1315.2	1394.1	1468.7	1600.2	1764.6	1988.2	2240.3	2542.8	2860.6
45°	1008.3	1045.6	1109.2	1174.9	1267.0	1376.6	1534.4	1762.4	2018.9	2323.6	2658.9
47.5°	883.4	900.9	944.8	1012.7	1098.2	1205.6	1341.5	1547.6	1797.5	2104.4	2457.3
50°	797.9	817.6	839.6	896.5	973.3	1082.9	1194.7	1374.4	1602.4	1902.7	2253.4
52.5°	738.7	747.5	756.3	791.3	861.5	953.5	1071.9	1207.8	1438.0	1725.1	2040.8
55°	703.6	705.8	712.4	729.9	782.6	868.0	971.1	1100.4	1280.2	1552.0	1874.2
57.5°	662.0	666.4	673.0	683.9	716.8	793.5	881.2	986.4	1135.5	1363.4	1672.5
60°	622.5	633.5	644.5	651.0	668.6	714.6	789.1	872.4	993.0	1164.0	1409.5
62.5°	580.9	594.0	602.8	609.4	616.0	644.5	699.3	754.1	828.6	940.4	1124.5
65°	543.6	552.4	559.0	563.4	567.7	576.5	600.6	622.5	644.5	712.4	846.1
67.5°	502.0	506.4	508.6	510.7	508.6	508.6	510.7	519.5	528.3	554.6	618.2
70°	453.8	460.3	460.3	462.5	462.5	455.9	455.9	455.9	455.9	462.5	497.6
72.5°	407.7	416.5	416.5	418.7	416.5	414.3	414.3	414.3	420.9	425.3	438.4
75°	363.9	372.6	370.5	372.6	374.8	374.8	379.2	381.4	388.0	390.2	399.0
77.5°	320.0	326.6	328.8	326.6	331.0	335.4	344.2	348.5	350.7	352.9	355.1
80°	278.4	282.8	280.6	274.0	285.0	291.5	304.7	320.0	315.7	317.8	322.2
82.5°	230.2	223.6	219.2	223.6	230.2	238.9	252.1	271.8	274.0	285.0	282.8
85°	177.6	157.8	155.6	166.6	164.4	175.4	197.3	212.6	225.8	236.7	225.8
87.5°	105.2	94.3	78.9	74.5	81.1	107.4	111.8	135.9	146.9	151.3	135.9
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: P159179

CATALOG NUMBER: VST-E12-LED-E-U-SLR-7030

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3662.9	3662.9	3662.9	3662.9	3662.9	3662.9	3662.9	3662.9	3662.9	3662.9	3662.9
2.5°	3763.7	3774.7	3774.7	3779.1	3785.7	3787.8	3796.6	3812.0	3814.2	3814.2	3820.7
5°	3833.9	3844.8	3844.8	3853.6	3855.8	3866.8	3877.7	3895.3	3904.0	3901.8	3930.3
7.5°	3947.9	3939.1	3932.5	3945.7	3952.2	3965.4	3987.3	4002.7	4018.0	4042.1	4081.6
10°	4044.3	4031.2	4024.6	4033.4	4037.7	4053.1	4066.2	4088.2	4125.4	4162.7	4210.9
12.5°	4123.2	4107.9	4090.3	4094.7	4101.3	4121.0	4143.0	4171.5	4226.3	4274.5	4346.8
15°	4189.0	4167.1	4149.5	4158.3	4173.6	4200.0	4237.2	4287.6	4377.5	4460.8	4557.3
17.5°	4252.6	4248.2	4241.6	4270.1	4281.1	4342.4	4397.2	4489.3	4612.1	4737.0	4875.1
20°	4313.9	4362.2	4386.3	4443.3	4478.3	4561.6	4644.9	4756.7	4912.4	5083.3	5271.9
22.5°	4399.4	4530.9	4612.1	4728.2	4787.4	4877.3	5000.0	5146.9	5320.1	5539.3	5780.4
25°	4603.3	4796.2	4958.4	5140.3	5289.4	5427.5	5574.4	5751.9	6001.8	6201.3	6516.9
27.5°	4693.2	4965.0	5208.3	5464.8	5688.3	5901.0	6133.3	6348.2	6644.1	6913.7	7295.1
30°	4607.7	4914.6	5230.2	5565.6	5892.2	6214.4	6552.0	6880.8	7222.8	7599.8	8005.3
32.5°	4449.8	4794.0	5149.1	5543.7	5949.2	6367.9	6806.3	7284.2	7766.4	8235.5	8649.8
35°	4289.8	4660.3	5054.8	5506.4	5984.3	6503.8	7047.4	7652.4	8290.3	8884.3	9425.8
37.5°	4057.5	4465.2	4916.7	5438.5	6006.2	6646.3	7345.5	8090.8	8897.5	9715.1	10425.3
40°	3776.9	4208.7	4701.9	5302.5	5984.3	6793.1	7702.8	8658.6	9695.4	10692.8	11565.2
42.5°	3520.4	3941.3	4467.4	5120.6	5927.3	6922.5	8042.6	9232.9	10460.4	11576.2	12716.0
45°	3294.6	3759.4	4287.6	4993.5	5898.8	7032.1	8294.7	9662.5	11067.6	12396.0	13741.9
47.5°	3088.6	3570.8	4162.7	4923.3	5885.6	7097.8	8470.0	9943.1	11499.4	13025.1	14588.0
50°	2876.0	3345.1	3978.6	4846.6	5852.7	7095.6	8562.1	10133.8	11801.9	13513.9	15171.1
52.5°	2648.0	3119.3	3755.0	4706.3	5782.6	7056.2	8586.2	10263.1	12040.9	13814.2	15666.5
55°	2439.7	2880.3	3516.0	4471.8	5635.7	6959.7	8531.4	10317.9	12209.7	14112.4	16015.1
57.5°	2200.8	2658.9	3263.9	4149.5	5359.5	6788.8	8375.8	10241.2	12257.9	14311.8	16291.2
60°	1872.0	2321.4	2943.9	3768.1	4927.7	6427.1	8086.4	10008.9	12104.4	14346.9	16488.5
62.5°	1495.0	1883.0	2483.6	3242.0	4320.5	5859.3	7551.6	9487.2	11626.6	14018.1	16387.7
65°	1111.4	1370.0	1887.3	2553.7	3616.9	5004.4	6690.1	8612.5	10692.8	13104.0	15754.2
67.5°	773.8	960.1	1278.0	1773.4	2630.4	3864.6	5460.4	7246.9	9248.2	11411.8	14439.0
70°	585.3	670.8	843.9	1120.1	1703.2	2632.6	3969.8	5561.2	7417.9	9502.5	12354.3
72.5°	499.8	543.6	640.1	767.2	1043.4	1600.2	2492.4	3827.3	5473.5	7170.2	9478.4
75°	449.4	486.6	548.0	629.1	738.7	971.1	1462.1	2422.2	3625.6	4802.8	6613.4
77.5°	407.7	440.6	495.4	537.0	596.2	699.3	931.6	1448.9	2172.3	2968.0	4103.5
80°	363.9	383.6	434.0	475.7	521.7	580.9	668.6	909.7	1247.3	1758.0	2420.0
82.5°	311.3	326.6	363.9	420.9	455.9	480.1	506.4	602.8	747.5	953.5	1343.7
85°	241.1	252.1	285.0	326.6	342.0	344.2	348.5	374.8	464.7	714.6	1157.4
87.5°	122.8	135.9	171.0	184.1	155.6	168.8	171.0	181.9	241.1	392.4	399.0
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: P159179
CATALOG NUMBER: VST-E12-LED-E-U-SLR-7030

REPORT N
CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	3662.9	3662.9	3662.9	3662.9	3662.9	3662.9	3662.9	3662.9	3662.9	3662.9	3662.9	0°
2.5°	3820.7	3827.3	3842.6	3840.5	3851.4	3851.4	3851.4	3862.4	3855.8	3862.4	3873.3	2.5°
5°	3930.3	3941.3	3963.2	3963.2	3965.4	3958.8	3972.0	3980.7	3969.8	3965.4	3967.6	5°
7.5°	4090.3	4107.9	4125.4	4143.0	4156.1	4149.5	4151.7	4132.0	4127.6	4112.3	4092.5	7.5°
10°	4246.0	4294.2	4327.1	4357.8	4360.0	4353.4	4355.6	4322.7	4316.1	4285.4	4265.7	10°
12.5°	4406.0	4467.4	4520.0	4552.9	4572.6	4577.0	4579.2	4579.2	4548.5	4522.2	4476.1	12.5°
15°	4642.7	4750.2	4831.3	4866.3	4894.8	4921.1	4927.7	4936.5	4912.4	4877.3	4870.7	15°
17.5°	5017.6	5118.4	5225.8	5320.1	5383.7	5388.0	5442.8	5438.5	5488.9	5449.4	5438.5	17.5°
20°	5462.6	5681.8	5793.6	5918.5	5990.8	6025.9	6153.1	6113.6	6150.9	6214.4	6150.9	20°
22.5°	6019.3	6297.7	6459.9	6630.9	6749.3	6834.8	6926.8	6999.2	7100.0	7148.2	7104.4	22.5°
25°	6758.1	7075.9	7268.8	7505.5	7694.1	7847.5	8007.5	8200.4	8198.2	8314.4	8395.5	25°
27.5°	7606.4	8011.9	8292.5	8709.0	8871.2	9129.8	9403.9	9702.0	9754.6	9905.8	9982.6	27.5°
30°	8404.3	8906.3	9463.0	9958.4	10519.6	10903.2	11221.1	11431.5	11749.3	11670.4	11626.6	30°
32.5°	9140.8	9809.4	10602.9	11416.1	12306.1	12913.3	13474.5	13735.3	13932.6	13513.9	12959.3	32.5°
35°	10096.5	10896.6	11804.1	12808.1	13939.2	14800.7	15379.4	15460.5	15348.7	14811.6	13893.2	35°
37.5°	11280.2	12119.8	13152.2	14213.2	15414.4	16223.3	16883.1	17001.5	16705.5	15747.6	14783.1	37.5°
40°	12448.6	13432.8	14553.0	15809.0	17054.1	17944.0	18606.0	18641.1	18158.9	17038.7	15909.8	40°
42.5°	13726.6	14802.9	16050.1	17442.1	18728.8	19629.7	20107.6	20258.8	19577.1	18141.3	17058.5	42.5°
45°	14829.2	16115.9	17505.6	18985.3	20331.2	21186.1	21672.7	21624.5	20800.3	19382.0	18112.8	45°
47.5°	15903.3	17319.3	18783.6	20355.3	21692.4	22556.1	23055.9	23012.0	21966.4	20333.4	18937.0	47.5°
50°	16859.0	18395.6	19960.7	21639.8	22972.6	23763.9	24375.5	24182.6	22860.8	21098.4	19467.5	50°
52.5°	17523.2	19237.4	20872.6	22687.6	24059.8	24809.5	25587.7	24967.3	23389.1	21567.5	19752.5	52.5°
55°	17944.0	19816.0	21521.5	23529.4	24877.5	25774.0	26276.0	25394.8	23592.9	21696.8	19851.1	55°
57.5°	18229.0	20133.9	21902.9	24016.0	25614.0	26365.9	26488.6	25410.1	23461.4	21493.0	19752.5	57.5°
60°	18369.3	20228.2	22076.0	24358.0	26131.3	26543.4	26319.8	25055.0	23007.7	20894.5	19116.8	60°
62.5°	18354.0	20109.8	21986.2	24471.9	26234.3	26287.0	25778.4	24450.0	22172.5	19638.5	18060.2	62.5°
65°	17963.8	19678.0	21479.8	24048.9	25754.3	25528.5	24888.4	23314.5	20548.2	17998.8	17200.9	65°
67.5°	16839.3	18483.3	20155.8	22663.5	24401.8	24182.6	23213.7	21083.0	18660.8	16547.7	16118.1	67.5°
70°	14958.5	16352.6	17821.3	20024.3	21848.1	21552.1	19857.7	18562.2	16791.0	14870.8	14721.7	70°
72.5°	12505.6	13562.2	14627.5	16267.1	17523.2	16918.2	15852.8	15784.9	14353.5	12887.0	12917.7	72.5°
75°	9780.9	10574.4	11072.0	12036.5	12871.7	12330.2	12393.8	12770.8	12299.5	11144.3	10769.5	75°
77.5°	7086.9	7847.5	8005.3	8577.5	9164.9	9780.9	10596.3	11484.1	11633.2	10984.3	9625.3	77.5°
80°	4638.4	5475.7	5164.4	5368.3	6194.7	7319.2	8807.6	10269.7	10771.7	10188.6	8516.1	80°
82.5°	2735.7	3908.4	3413.0	3761.5	4285.4	5265.3	6293.3	7395.9	8235.5	7615.1	7113.2	82.5°
85°	2078.1	3082.0	3263.9	3687.0	3858.0	3899.6	4079.4	4438.9	4872.9	5035.1	5022.0	85°
87.5°	1082.9	2395.9	2689.6	2488.0	2321.4	2012.3	1569.5	1690.1	1545.4	2113.1	2001.3	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°



NUMBER: P159179

NUMBER: VST-E12-LED-E-U-SLR-7030

DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
3662.9	3662.9	3662.9	3662.9	3662.9	3662.9	3662.9
3875.5	3869.0	3873.3	3875.5	3875.5	3875.5	3879.9
3965.4	3947.9	3941.3	3941.3	3939.1	3932.5	3930.3
4061.9	4031.2	4020.2	4007.1	3996.1	3989.5	3978.6
4235.0	4208.7	4153.9	4123.2	4094.7	4075.0	4057.5
4467.4	4430.1	4377.5	4338.0	4294.2	4281.1	4259.1
4826.9	4794.0	4748.0	4704.1	4677.8	4631.8	4598.9
5388.0	5322.3	5276.2	5219.2	5155.7	5061.4	5015.4
6126.8	5995.2	5903.2	5852.7	5725.6	5710.3	5598.5
6975.1	6935.6	6795.3	6733.9	6611.2	6563.0	6387.6
8244.3	8213.6	7926.4	7895.7	7707.2	7566.9	7295.1
9912.4	9660.3	9335.9	9110.1	8787.9	8426.2	7963.7
11370.1	10855.0	10359.6	9833.5	9388.5	8869.0	8345.1
12299.5	11609.0	10971.2	10431.9	9881.7	9263.6	8590.6
13115.0	12417.9	11723.0	11085.2	10418.8	9627.4	8796.7
14090.4	13397.8	12615.2	11718.7	10863.8	9894.9	8880.0
15090.0	14279.0	13301.3	12203.1	11129.0	10026.4	8864.6
16113.7	15076.9	13777.0	12525.3	11297.8	10046.1	8761.6
16944.5	15633.6	14129.9	12689.7	11332.9	9978.2	8632.3
17531.9	15990.9	14287.7	12746.7	11289.0	9870.8	8456.9
17867.3	16186.0	14327.2	12705.1	11199.1	9717.3	8266.2
17990.1	16245.2	14287.7	12619.6	11118.0	9552.9	8132.5
17976.9	16212.3	14143.0	12420.1	10901.0	9333.7	7968.1
17729.2	15907.6	13847.1	12181.2	10716.9	9232.9	7979.0
17308.4	15714.7	13759.4	12229.4	10813.3	9449.9	8325.4
17117.6	16100.5	14252.6	12711.6	11308.7	10070.2	9040.0
17010.2	16727.5	14958.5	13231.2	11896.2	10822.1	9892.7
16571.8	16907.2	15359.6	13527.1	12420.1	11576.2	10745.4
15863.8	16488.5	15054.9	13470.1	12709.5	12154.9	11052.3
14386.4	15046.2	13698.1	12630.5	12347.8	12163.6	10591.9
11655.1	11997.0	11229.8	10988.7	11093.9	11096.1	8884.3
8595.0	8388.9	8042.6	8060.1	8768.2	8658.6	6332.8
7016.7	5743.1	5252.1	5438.5	6313.1	5841.8	3978.6
6530.1	5122.8	4228.4	4272.3	4767.7	3763.7	2395.9
5280.6	4669.0	3744.0	3360.4	3261.8	2507.7	1626.5
2209.6	2032.0	1512.5	1363.4	1117.9	683.9	311.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0

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