

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: P164932

Luminaire Tested: **VTS-F04-LED-E1-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P164932
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: VTS-F04-LED-E1-SL2-HSS
Description: VENTUS LED SITE LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (28) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5982.3 lumens
Efficiency: N/A
Efficacy: 58.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

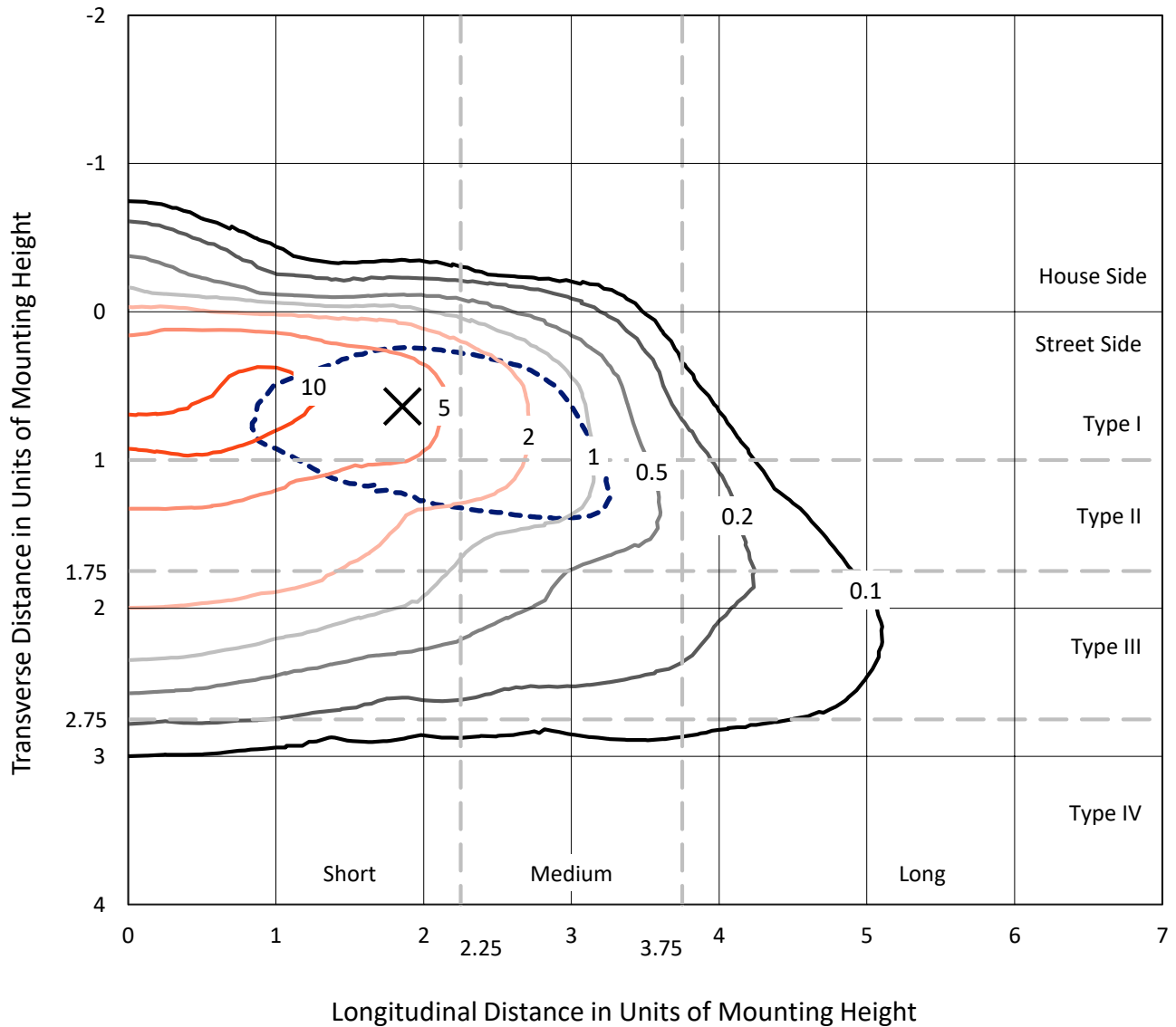
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

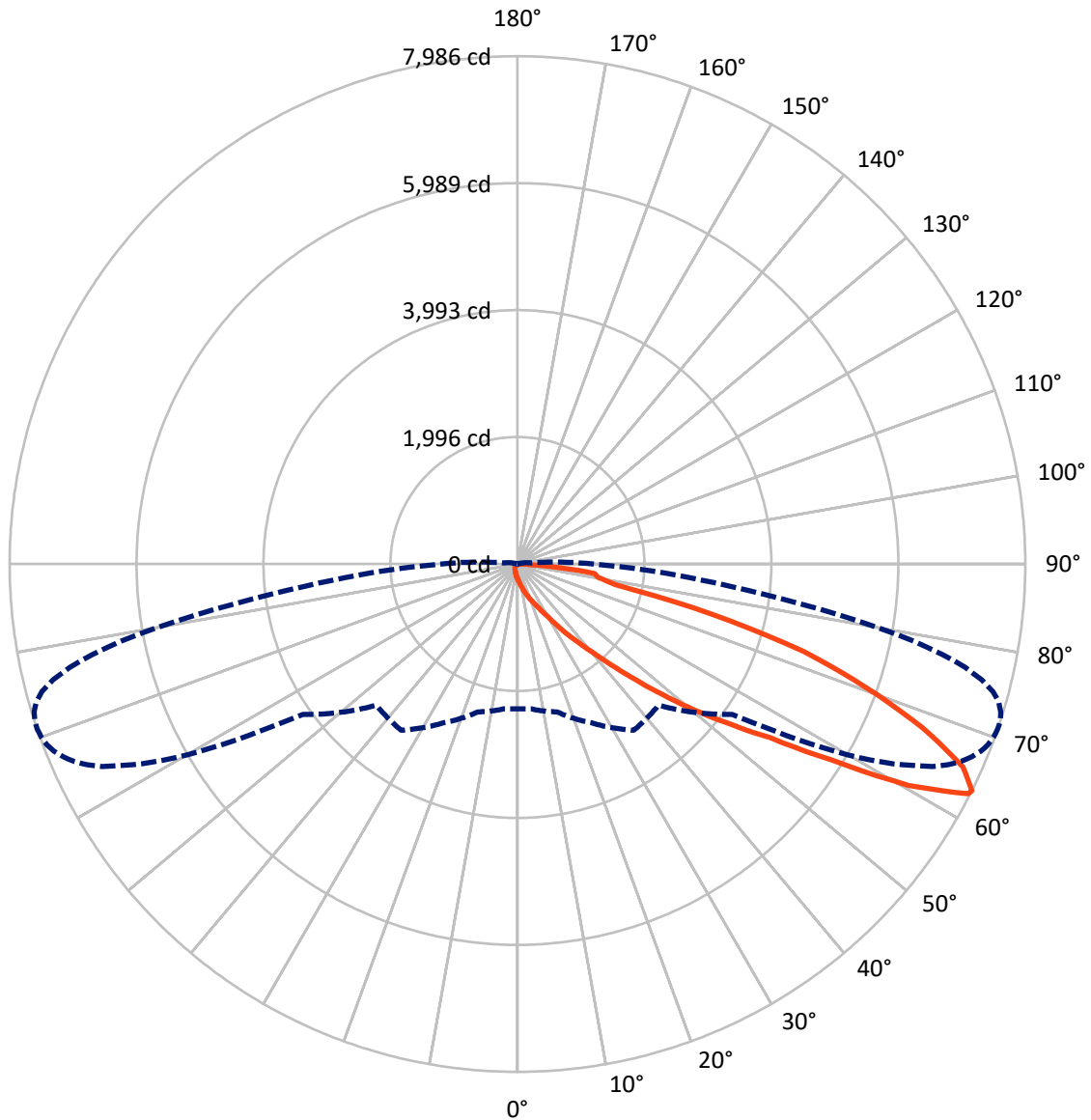


Based on 10 foot mounting height. Maximum calculated value = 12.6 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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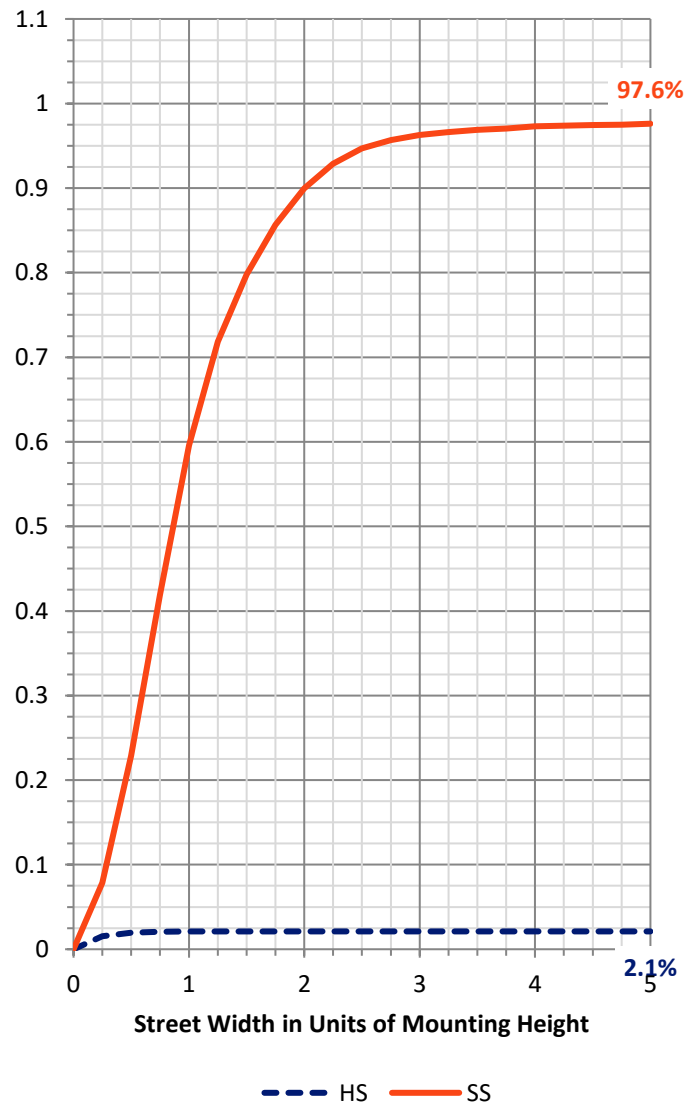
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	127.0	0.0	127.0
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	5855.3	0.0	5855.3
	% Fixture	97.9	0.0	97.9
Total	Lumens	5982.3	0.0	5982.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.4	0.4
10°-20°	98.4	1.6
20°-30°	199.8	3.3
30°-40°	488.1	8.2
40°-50°	1091.7	18.2
50°-60°	1535.0	25.7
60°-70°	1805.0	30.2
70°-80°	651.8	10.9
80°-90°	87.2	1.5
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°	5982.3	100.0
0°-180°	5982.3	100.0



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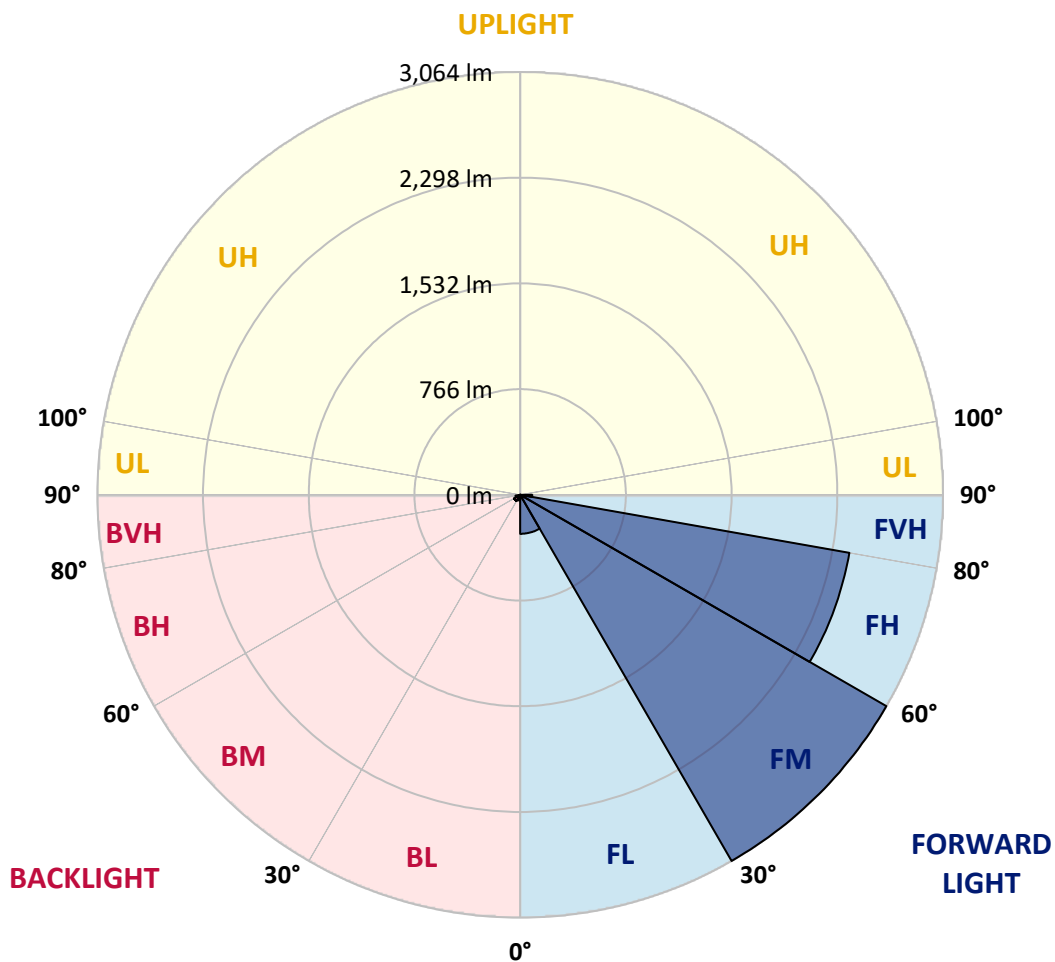
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	282.7	4.7			
FM (30°-60°)	3063.6	51.2			
FH (60°-80°)	2422.0	40.5			G2/5000
FVH (80°-90°)	87.0	1.5			G1/100
BL (0°-30°)	40.8	0.7	B0/110		
BM (30°-60°)	51.2	0.9	B0/220		
BH (60°-80°)	34.8	0.6	B0/110		G0/110
BVH (80°-90°)	0.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	229.5	229.5	229.5	229.5	229.5	229.5	229.5	229.5	229.5	229.5	229.5
2.5°	300.2	303.4	301.2	295.8	289.3	280.6	273.0	273.0	271.9	268.6	269.7
5°	393.7	394.8	390.4	377.4	365.4	346.9	326.2	324.1	321.9	318.7	317.6
7.5°	485.1	489.4	485.1	470.9	447.0	418.7	386.1	382.8	376.3	376.3	371.9
10°	578.6	578.6	574.2	557.9	536.1	495.9	454.6	449.2	441.6	439.4	432.8
12.5°	644.9	644.9	642.7	634.1	616.6	580.8	530.7	525.3	515.5	512.2	504.6
15°	671.0	671.0	672.1	679.7	680.8	664.5	612.3	607.9	598.1	589.4	586.2
17.5°	687.3	686.2	686.2	697.1	716.7	727.6	693.8	689.5	678.6	674.3	663.4
20°	723.2	721.0	714.5	714.5	733.0	771.0	771.0	770.0	758.0	754.7	749.3
22.5°	776.5	774.3	754.7	738.4	747.1	795.0	839.6	837.4	833.1	828.7	825.5
25°	863.5	855.9	822.2	774.3	766.7	817.9	891.8	897.2	900.5	900.5	902.7
27.5°	995.1	985.3	925.5	836.4	802.6	854.8	949.4	960.3	970.1	972.3	982.0
30°	1177.8	1160.4	1074.5	944.0	866.8	909.2	1034.3	1046.2	1060.4	1064.7	1079.9
32.5°	1478.0	1468.2	1385.6	1189.7	1024.4	1015.8	1152.8	1168.0	1186.5	1194.1	1212.6
35°	1934.8	1936.9	1869.5	1693.3	1464.9	1345.3	1364.9	1377.9	1384.4	1407.3	1417.1
37.5°	2244.7	2250.1	2265.4	2195.8	2032.6	1910.8	1757.4	1771.6	1737.9	1741.1	1742.3
40°	2414.4	2431.7	2521.0	2588.4	2575.3	2504.6	2381.7	2389.3	2326.3	2312.1	2243.6
42.5°	2527.4	2550.3	2692.8	2901.6	3008.1	3072.3	3044.1	3040.8	2991.8	2973.3	2915.7
45°	2598.2	2618.8	2798.3	3106.0	3351.8	3538.9	3616.1	3624.8	3583.4	3564.9	3517.1
47.5°	2594.9	2618.8	2811.3	3182.2	3544.3	3843.4	4060.9	4071.8	4096.8	4080.5	4083.7
50°	2451.3	2474.2	2667.8	3052.7	3487.7	3982.6	4380.6	4415.4	4455.7	4482.9	4495.9
52.5°	2277.3	2293.6	2465.5	2830.9	3246.3	3924.9	4569.8	4629.7	4689.5	4740.6	4776.5
55°	2213.1	2231.6	2366.5	2669.9	3052.7	3683.5	4657.9	4746.0	4830.9	4914.6	4983.1
57.5°	2246.9	2264.2	2361.1	2593.8	2937.5	3429.0	4683.0	4820.0	4959.2	5095.1	5230.0
60°	2370.8	2389.3	2472.0	2664.5	2907.0	3282.2	4585.1	4812.4	5044.0	5281.1	5504.1
62.5°	2321.9	2329.5	2451.3	2788.5	3124.5	3157.1	4229.5	4547.1	4900.5	5265.9	5625.9
63°	2275.1	2283.9	2407.8	2754.7	3190.9	3138.6	4119.6	4454.6	4827.6	5221.3	5612.8
65°	2063.1	2064.1	2158.8	2432.9	3116.9	3171.3	3630.3	3950.0	4378.5	4850.5	5345.3
67.5°	1540.0	1532.4	1623.7	1832.5	2447.0	3172.4	3115.8	3295.3	3593.3	4012.0	4455.7
70°	546.0	534.0	681.9	971.1	1524.7	2594.9	2677.5	2689.5	2772.2	2998.4	3276.8
72.5°	177.3	180.6	217.5	355.6	702.6	1746.6	2424.1	2387.2	2365.4	2364.3	2401.3
75°	70.7	71.8	87.0	157.7	315.4	841.8	2122.9	2143.5	2151.2	2162.0	2174.0
77.5°	33.7	37.0	48.9	88.1	156.6	416.5	1519.3	1694.4	1794.4	1871.7	1918.5
80°	12.0	14.1	27.2	54.4	72.8	191.4	800.4	965.7	1112.5	1301.8	1464.9
82.5°	0.0	0.0	5.4	38.0	40.2	77.2	328.4	385.0	440.4	570.9	733.0
85°	0.0	0.0	0.0	10.9	12.0	13.1	111.0	133.8	150.1	175.1	202.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.2	6.5	16.3	25.0
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	229.5	229.5	229.5	229.5	229.5	229.5	229.5	229.5	229.5	229.5	229.5
2.5°	267.5	266.5	266.5	264.3	263.2	261.0	259.9	256.6	255.6	255.6	255.6
5°	316.5	312.1	309.9	304.5	301.2	300.2	294.7	292.6	289.3	290.4	284.9
7.5°	370.8	363.2	360.0	352.3	350.2	342.6	340.4	335.0	331.7	325.2	323.0
10°	430.7	420.9	415.5	403.5	400.2	394.8	388.3	381.7	376.3	369.8	366.5
12.5°	499.2	490.5	486.1	469.8	462.2	454.6	445.9	437.2	428.5	423.1	415.5
15°	579.7	565.5	561.2	546.0	532.9	523.1	511.2	500.3	493.7	482.9	475.2
17.5°	659.0	644.9	641.7	618.8	604.7	598.1	585.1	570.9	559.0	548.1	536.1
20°	738.4	728.6	719.9	698.2	683.0	672.1	654.7	640.5	630.8	615.6	600.3
22.5°	817.9	808.0	801.6	778.7	764.6	749.3	734.1	718.9	704.7	686.2	668.9
25°	899.4	892.9	889.6	869.0	855.9	841.8	826.5	809.1	791.7	771.0	752.6
27.5°	984.2	986.4	979.9	975.5	961.4	951.6	927.7	915.7	902.7	877.6	854.8
30°	1091.9	1098.4	1096.2	1099.5	1090.8	1084.3	1065.8	1050.6	1035.3	1011.4	985.3
32.5°	1227.9	1236.6	1240.9	1252.9	1248.5	1246.3	1240.9	1219.1	1208.2	1167.0	1156.1
35°	1437.7	1433.4	1451.9	1461.6	1457.3	1455.2	1448.6	1436.7	1423.6	1394.2	1367.1
37.5°	1710.7	1715.0	1721.6	1702.0	1689.0	1687.9	1668.3	1656.3	1637.8	1605.2	1572.6
40°	2211.0	2183.8	2153.4	2070.7	2034.8	2014.1	1956.5	1940.2	1908.6	1864.0	1830.4
42.5°	2861.3	2834.1	2742.8	2604.7	2530.7	2428.5	2381.7	2324.1	2279.5	2206.7	2167.5
45°	3507.4	3429.0	3418.1	3257.2	3165.9	3031.0	2947.3	2850.4	2749.3	2653.6	2584.0
47.5°	4052.2	4034.8	3981.5	3883.6	3798.8	3685.7	3578.0	3429.0	3324.6	3188.7	3063.6
50°	4488.3	4487.2	4467.6	4411.1	4340.4	4249.1	4154.4	4028.3	3909.8	3743.3	3609.6
52.5°	4814.6	4832.0	4838.5	4821.1	4793.9	4713.4	4665.6	4560.1	4460.0	4318.6	4174.0
55°	5053.8	5118.0	5150.6	5187.6	5180.0	5151.7	5149.6	5081.0	5035.4	4923.3	4821.1
57.5°	5349.7	5455.1	5556.2	5735.7	5742.2	5805.4	5838.0	5870.6	5879.3	5834.7	5801.0
60°	5725.9	5941.3	6132.7	6507.9	6605.8	6760.2	6860.2	6969.0	7061.4	7069.1	7066.9
62.5°	5991.3	6323.0	6631.9	7188.7	7379.0	7557.4	7691.1	7796.7	7860.8	7926.0	7956.5
63°	5998.9	6362.2	6690.6	7264.8	7464.9	7634.6	7761.8	7859.7	7927.2	7966.2	7985.9
65°	5815.1	6255.6	6647.1	7219.1	7407.3	7578.1	7644.4	7708.6	7741.2	7756.4	7698.7
67.5°	4928.8	5359.4	5816.2	6455.7	6616.6	6821.1	6875.5	6908.1	6923.3	6920.1	6871.1
70°	3685.7	4046.8	4554.7	5285.5	5498.7	5698.8	5822.7	5876.0	5893.4	5888.0	5815.1
72.5°	2573.1	2785.2	3203.9	4017.4	4307.8	4564.4	4717.8	4797.2	4813.5	4780.8	4713.4
75°	2161.0	2171.9	2266.4	2711.2	2983.1	3257.2	3430.1	3480.1	3447.5	3348.5	3176.8
77.5°	1929.3	1953.3	1953.3	2019.6	2072.9	2149.0	2165.3	2043.5	1902.1	1719.4	1571.5
80°	1618.3	1702.0	1760.7	1809.7	1815.1	1799.9	1759.6	1691.1	1582.4	1443.1	1288.7
82.5°	983.2	1148.5	1215.9	1468.2	1592.1	1675.9	1669.4	1578.0	1495.4	1350.8	1219.1
85°	248.0	267.5	290.4	377.4	423.1	516.6	575.3	602.5	612.3	562.3	509.0
87.5°	23.9	16.3	27.2	20.7	29.4	21.7	29.4	27.2	33.7	35.9	39.2
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	229.5	229.5	229.5	229.5	229.5	229.5	229.5	229.5	229.5	229.5	229.5
2.5°	253.4	252.3	251.2	250.2	249.0	248.0	245.8	245.8	243.6	242.5	241.4
5°	281.7	279.5	278.4	276.3	273.0	270.8	267.5	263.2	259.9	258.8	256.6
7.5°	317.6	312.1	309.9	306.7	302.3	295.8	291.4	288.2	282.8	279.5	273.0
10°	357.8	352.3	345.9	339.3	332.8	325.2	319.7	315.4	306.7	302.3	294.7
12.5°	408.9	399.2	391.5	382.8	374.1	365.4	358.9	345.9	338.2	328.4	321.9
15°	461.1	452.4	443.7	432.8	419.8	405.6	399.2	387.1	377.4	362.2	353.5
17.5°	524.2	507.9	494.9	481.8	469.8	456.7	443.7	425.2	411.1	398.0	380.7
20°	586.2	566.6	552.4	535.1	517.7	497.0	481.8	468.7	449.2	431.8	413.3
22.5°	652.5	632.9	610.1	592.7	568.8	552.4	531.8	510.0	490.5	467.6	444.8
25°	733.0	712.3	686.2	663.4	636.2	613.4	588.4	563.3	539.4	513.3	484.0
27.5°	832.0	810.2	781.9	754.7	718.9	690.6	666.7	632.9	602.5	569.9	536.1
30°	957.0	933.1	898.3	859.1	823.3	791.7	758.0	713.5	679.7	640.5	597.1
32.5°	1120.2	1091.9	1045.1	1008.1	963.6	922.2	875.5	830.9	783.1	731.9	681.9
35°	1325.7	1299.6	1245.2	1190.9	1141.9	1093.0	1034.3	983.2	915.7	853.7	789.5
37.5°	1538.9	1492.1	1442.1	1383.4	1322.4	1263.7	1191.9	1121.3	1044.1	976.6	896.1
40°	1782.5	1725.9	1684.6	1621.5	1535.6	1451.9	1385.6	1297.5	1200.6	1110.4	1015.8
42.5°	2116.4	2053.3	1979.3	1883.6	1821.6	1723.8	1637.8	1533.4	1406.2	1305.1	1190.9
45°	2502.5	2416.5	2344.8	2252.3	2177.3	2055.5	1955.4	1816.2	1689.0	1556.3	1417.1
47.5°	2942.9	2836.3	2731.9	2640.6	2521.0	2401.3	2274.1	2126.2	1963.0	1817.3	1652.0
50°	3448.6	3297.4	3152.8	3035.4	2871.1	2733.0	2594.9	2428.5	2247.9	2080.5	1892.3
52.5°	4010.9	3835.8	3644.4	3463.8	3273.5	3096.2	2929.8	2738.4	2537.3	2332.8	2122.9
55°	4689.5	4557.9	4332.8	4103.3	3848.8	3611.8	3397.5	3160.4	2915.7	2647.1	2426.3
57.5°	5752.1	5687.9	5499.7	5270.3	4938.6	4650.3	4287.1	3996.7	3642.2	3272.4	2987.5
60°	7192.0	7112.5	7007.1	6821.1	6557.9	6166.4	5766.2	5314.9	4775.4	4263.2	3777.1
62.5°	7959.8	7931.4	7845.6	7717.2	7471.5	7162.6	6759.1	6263.2	5654.2	5032.1	4412.2
63°	7982.6	7946.7	7872.7	7742.2	7525.8	7226.8	6830.9	6349.1	5753.1	5119.1	4486.1
65°	7673.7	7659.6	7584.5	7442.1	7294.2	7065.8	6759.1	6344.7	5844.5	5245.3	4615.5
67.5°	6805.9	6763.4	6648.2	6604.7	6501.4	6342.5	6108.8	5823.8	5466.0	4995.1	4451.3
70°	5756.4	5693.3	5548.7	5471.4	5345.3	5245.3	5102.8	4899.4	4678.6	4350.2	3944.6
72.5°	4643.8	4513.3	4380.6	4179.5	4003.3	3824.9	3667.2	3523.7	3281.1	3148.4	2840.7
75°	3015.7	2778.7	2551.4	2246.9	1972.8	1730.3	1494.3	1374.7	1125.6	1024.4	879.8
77.5°	1431.2	1298.5	1120.2	982.0	805.8	658.0	537.3	403.5	316.5	248.0	189.2
80°	1154.9	1042.9	935.3	810.2	677.5	540.5	414.3	309.9	219.7	152.2	107.6
82.5°	1029.9	908.1	775.4	689.5	599.3	490.5	402.4	328.4	242.5	177.3	120.7
85°	400.2	337.1	259.9	212.1	165.3	135.9	122.9	84.8	66.4	52.2	40.2
87.5°	34.8	28.3	22.9	15.3	16.3	8.7	9.8	6.5	5.4	5.4	4.4
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	229.5	229.5	229.5	229.5	229.5	229.5	229.5	229.5	229.5	229.5	229.5
2.5°	240.3	239.3	238.1	236.0	236.0	233.9	232.7	231.7	226.2	214.2	204.5
5°	252.3	250.2	248.0	244.7	242.5	239.3	237.1	233.9	221.8	199.1	179.4
7.5°	269.7	265.4	262.1	255.6	252.3	248.0	244.7	239.3	219.7	184.9	157.7
10°	290.4	282.8	277.3	269.7	263.2	257.8	252.3	244.7	217.5	169.7	138.1
12.5°	315.4	306.7	295.8	287.1	278.4	270.8	263.2	253.4	214.2	156.6	122.9
15°	340.4	327.4	319.7	307.8	295.8	284.9	274.1	265.4	215.4	142.5	109.8
17.5°	368.6	355.6	339.3	326.2	313.2	299.1	286.0	268.6	209.9	131.6	100.1
20°	395.9	377.4	362.2	345.9	327.4	309.9	293.6	278.4	205.5	120.7	91.3
22.5°	425.2	403.5	383.9	363.2	340.4	320.8	301.2	281.7	197.9	111.0	83.7
25°	461.1	436.1	407.8	382.8	358.9	335.0	309.9	286.0	190.3	102.2	78.3
27.5°	504.6	472.0	443.7	412.2	378.5	348.0	320.8	294.7	182.7	95.7	72.8
30°	560.1	522.0	481.8	441.6	405.6	370.8	332.8	300.2	175.1	89.2	67.4
32.5°	634.1	586.2	537.3	490.5	442.6	398.0	357.8	315.4	170.7	83.7	62.0
35°	731.9	669.9	610.1	551.4	493.7	439.4	387.1	339.3	170.7	77.2	55.5
37.5°	824.3	752.6	676.5	603.6	535.1	472.0	410.0	352.3	162.1	71.8	50.1
40°	924.4	838.5	749.3	663.4	580.8	502.4	431.8	365.4	154.4	65.2	44.6
42.5°	1077.7	969.0	852.7	752.6	653.6	556.8	468.7	390.4	144.6	58.7	39.2
45°	1279.0	1140.8	1003.8	882.0	755.9	637.3	532.9	436.1	142.5	53.3	33.7
47.5°	1494.3	1331.1	1170.2	1014.7	866.8	728.6	603.6	487.2	142.5	47.9	29.4
50°	1708.5	1504.1	1332.3	1151.7	985.3	822.2	673.2	540.5	143.6	43.5	23.9
52.5°	1902.1	1683.5	1491.0	1282.2	1098.4	909.2	747.1	592.7	141.4	38.0	19.5
55°	2170.7	1914.1	1691.1	1460.6	1245.2	1032.1	848.3	671.0	142.5	33.7	16.3
57.5°	2665.6	2364.3	2095.7	1793.4	1545.4	1270.3	1047.3	832.0	155.5	28.3	12.0
60°	3375.7	2984.2	2606.9	2238.2	1922.8	1595.4	1306.1	1052.8	182.7	22.9	8.7
62.5°	3853.2	3340.9	2890.7	2484.0	2117.4	1774.9	1459.5	1171.3	201.2	18.5	5.4
63°	3902.1	3372.5	2920.0	2500.3	2126.2	1783.6	1466.0	1180.0	202.3	17.4	5.4
65°	3994.6	3426.9	2936.4	2503.5	2117.4	1771.6	1461.6	1178.9	204.5	14.1	4.4
67.5°	3889.1	3343.1	2841.8	2410.0	2041.3	1700.9	1407.3	1135.4	203.3	9.8	3.2
70°	3478.0	3025.6	2585.1	2182.7	1847.7	1540.0	1281.1	1035.3	187.0	6.5	2.2
72.5°	2553.6	2245.8	1904.3	1613.9	1392.0	1156.1	986.4	777.6	144.6	4.4	1.1
75°	756.9	689.5	579.7	511.2	451.3	373.0	331.7	258.8	74.0	2.2	0.0
77.5°	151.2	137.0	122.9	112.0	105.5	90.3	85.9	70.7	30.4	1.1	0.0
80°	79.4	65.2	55.5	48.9	42.4	34.8	29.4	23.9	5.4	0.0	0.0
82.5°	76.1	51.1	37.0	30.4	26.1	20.7	16.3	12.0	3.2	0.0	0.0
85°	28.3	21.7	16.3	13.1	10.9	9.8	7.6	6.5	0.0	0.0	0.0
87.5°	4.4	3.2	3.2	2.2	2.2	1.1	1.1	1.1	0.0	0.0	0.0
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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CATALOG NUMBER: VTS-F04-LED-E1-SL2-HSS

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	229.5	229.5	229.5	229.5	229.5	229.5	229.5
2.5°	194.7	186.0	181.6	176.2	176.2	175.1	177.3
5°	162.1	150.1	141.4	134.9	135.9	132.7	133.8
7.5°	137.0	125.1	117.4	113.1	112.0	111.0	111.0
10°	118.5	107.6	101.1	97.9	96.8	96.8	96.8
12.5°	105.5	94.6	89.2	87.0	87.0	85.9	85.9
15°	94.6	85.9	80.5	78.3	78.3	77.2	78.3
17.5°	85.9	77.2	72.8	70.7	70.7	69.6	69.6
20°	78.3	70.7	66.4	63.1	63.1	62.0	63.1
22.5°	71.8	64.2	58.7	56.5	55.5	54.4	55.5
25°	65.2	57.7	52.2	48.9	47.9	47.9	46.8
27.5°	59.8	52.2	45.7	42.4	41.3	41.3	40.2
30°	54.4	45.7	39.2	35.9	34.8	34.8	34.8
32.5°	48.9	39.2	33.7	30.4	29.4	29.4	29.4
35°	43.5	33.7	28.3	25.0	23.9	23.9	23.9
37.5°	37.0	28.3	21.7	19.5	18.5	17.4	17.4
40°	31.6	21.7	16.3	14.1	12.0	12.0	12.0
42.5°	26.1	17.4	12.0	8.7	7.6	6.5	7.6
45°	21.7	13.1	7.6	4.4	3.2	3.2	3.2
47.5°	17.4	8.7	3.2	1.1	1.1	1.1	1.1
50°	13.1	5.4	1.1	0.0	0.0	1.1	1.1
52.5°	9.8	3.2	0.0	0.0	0.0	0.0	0.0
55°	5.4	1.1	0.0	0.0	0.0	0.0	0.0
57.5°	3.2	0.0	0.0	0.0	0.0	0.0	0.0
60°	2.2	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.1	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.1	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.1	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)