

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: P158104

Luminaire Tested: **VTS-F03-LED-E1-SL2-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158104
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33712)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: VTS-F03-LED-E1-SL2-7030
Description: VENTUS LED SITE LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

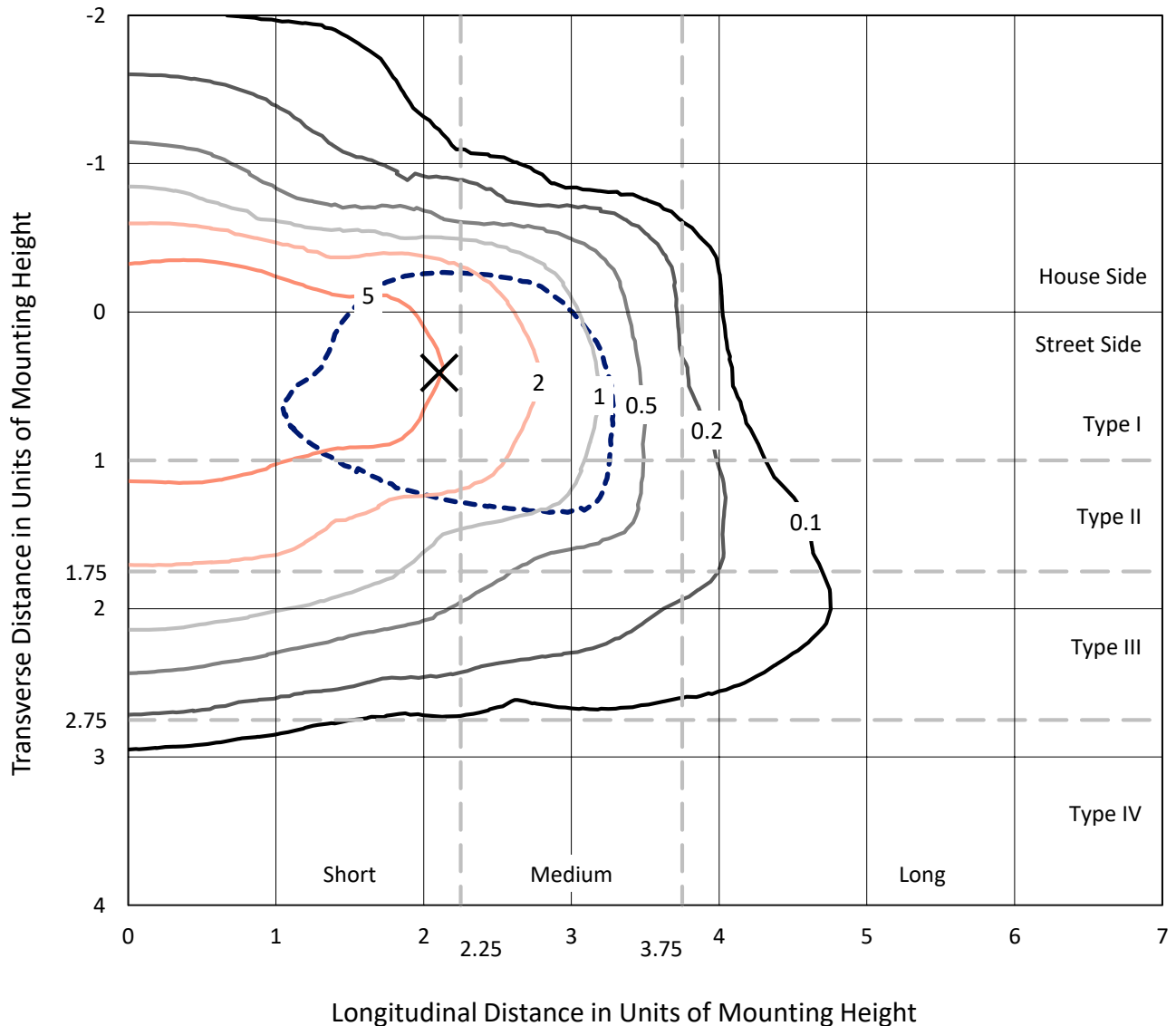
Lumens per Lamp: N/A
Luminaire Lumens: 6805.8 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 78.3
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

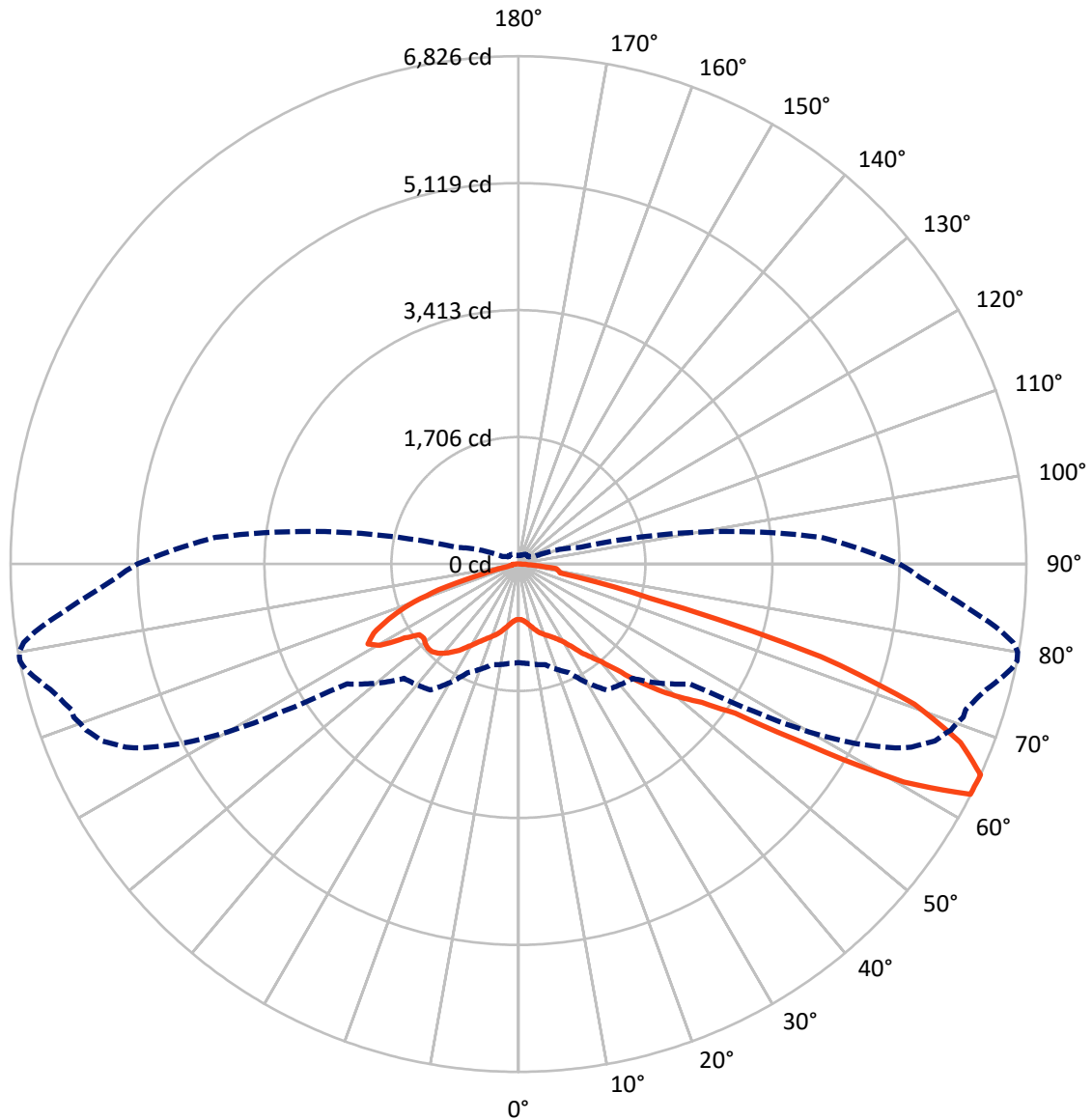
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1563.8	0.0	1563.8
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	5241.9	0.0	5241.9
	% Fixture	77.0	0.0	77.0
Total	Lumens	6805.8	0.0	6805.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.7	1.1
10°-20°	239.3	3.5
20°-30°	412.5	6.1
30°-40°	675.7	9.9
40°-50°	1131.5	16.6
50°-60°	1530.5	22.5
60°-70°	1884.8	27.7
70°-80°	729.6	10.7
80°-90°	128.3	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°	6805.8	100.0
0°-180°	6805.8	100.0



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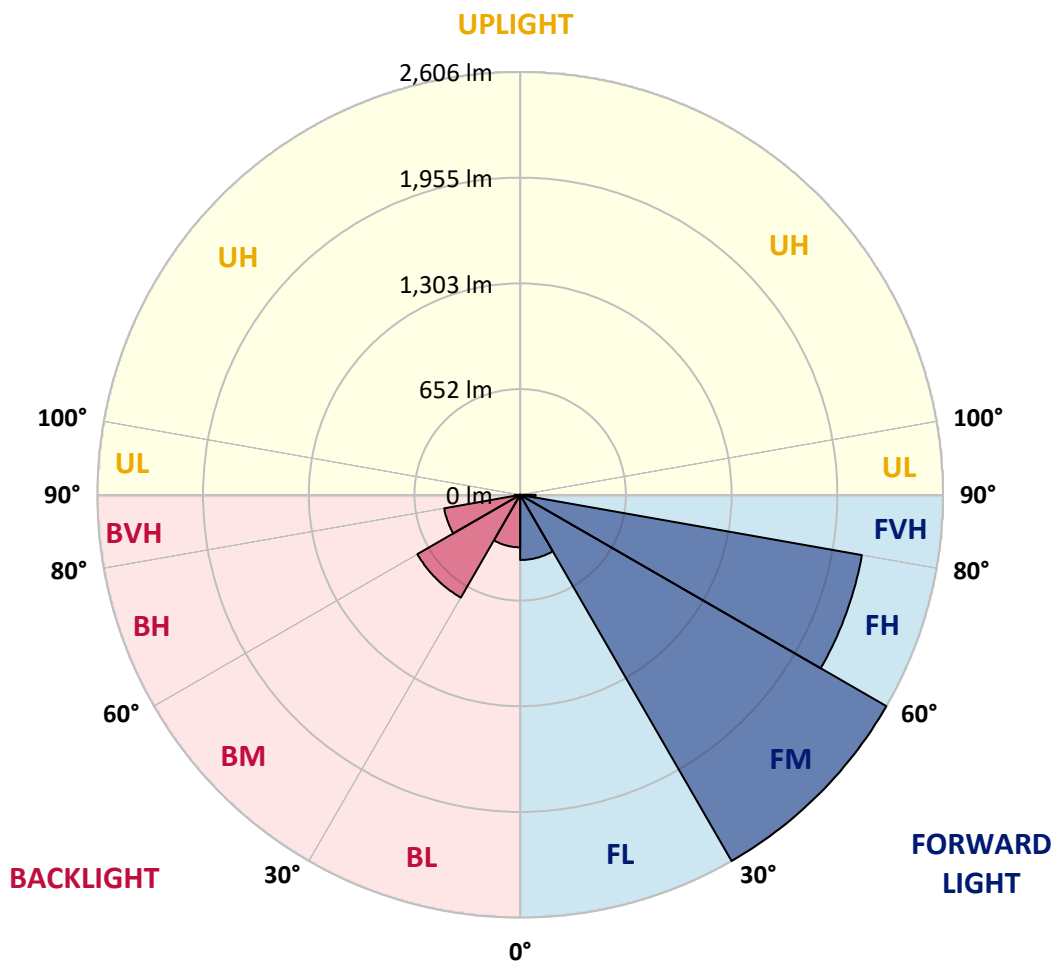
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	401.8	5.9			
FM	(30°-60°)	2606.3	38.3			
FH	(60°-80°)	2138.6	31.4			G2/5000
FVH	(80°-90°)	95.2	1.4			G1/100
BL	(0°-30°)	323.6	4.8	B1/500		
BM	(30°-60°)	731.3	10.7	B1/1000		
BH	(60°-80°)	475.8	7.0	B1/500		G1/500
BVH	(80°-90°)	33.1	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	744.6	744.6	744.6	744.6	744.6	744.6	744.6	744.6	744.6	744.6	744.6
2.5°	746.0	743.7	746.0	747.8	749.2	751.0	750.5	750.1	749.6	750.1	750.1
5°	752.3	751.9	754.1	756.0	759.1	761.4	764.1	764.1	764.1	763.6	764.5
7.5°	772.7	772.2	774.5	776.3	779.0	783.6	787.2	789.0	788.5	788.5	788.5
10°	806.2	804.4	804.4	804.4	808.0	811.1	819.3	820.2	822.0	821.1	821.6
12.5°	838.7	839.2	837.8	836.5	836.9	843.3	855.0	857.3	857.7	859.1	860.0
15°	868.1	867.7	864.5	861.4	865.4	876.3	891.7	895.7	895.7	898.5	900.3
17.5°	895.3	894.4	888.5	883.1	887.1	905.7	929.7	932.4	936.5	937.8	939.6
20°	927.4	925.6	918.8	904.3	904.3	929.7	961.3	964.1	967.7	968.6	971.7
22.5°	972.2	967.7	953.2	927.0	919.7	949.1	988.0	989.4	992.1	995.7	998.4
25°	1022.9	1023.8	1000.2	954.6	938.7	969.5	1013.8	1016.1	1021.1	1023.8	1026.9
27.5°	1075.3	1076.7	1050.5	993.5	966.8	997.5	1048.7	1051.4	1057.2	1060.4	1065.4
30°	1135.1	1136.9	1111.5	1054.1	1013.4	1038.7	1100.2	1107.5	1112.4	1116.5	1124.7
32.5°	1278.5	1267.6	1250.0	1188.9	1124.7	1122.8	1183.5	1191.6	1198.4	1207.0	1214.7
35°	1459.0	1465.8	1474.8	1433.6	1377.1	1335.9	1340.9	1336.4	1342.7	1355.4	1363.1
37.5°	1601.9	1616.9	1656.2	1682.9	1680.7	1672.5	1596.5	1596.5	1600.6	1593.8	1592.9
40°	1714.1	1723.6	1804.2	1907.8	1995.1	2038.0	1977.9	1969.3	1973.8	1939.0	1940.3
42.5°	1772.0	1786.1	1901.9	2083.7	2257.0	2395.0	2376.4	2370.6	2357.0	2348.4	2343.0
45°	1801.4	1818.2	1956.2	2205.9	2458.3	2671.4	2767.3	2766.4	2754.2	2744.2	2739.7
47.5°	1786.5	1801.0	1948.0	2243.0	2564.2	2849.6	3061.8	3074.9	3071.3	3085.8	3091.7
50°	1688.8	1707.3	1854.8	2162.9	2519.8	2919.8	3265.8	3290.3	3323.3	3344.1	3371.7
52.5°	1600.6	1616.0	1749.0	2033.1	2374.2	2862.8	3388.9	3439.1	3484.4	3526.9	3559.9
55°	1508.3	1523.7	1640.4	1898.3	2227.1	2694.5	3445.0	3518.3	3588.9	3660.8	3726.8
57.5°	1473.5	1489.7	1576.6	1793.8	2106.8	2527.5	3472.6	3592.9	3707.8	3830.0	3956.7
60°	1563.9	1578.4	1644.5	1796.5	2015.0	2360.6	3416.9	3606.0	3803.7	4005.1	4199.6
62.5°	1536.3	1544.0	1626.4	1862.1	2132.1	2195.9	3175.8	3425.5	3712.8	4007.8	4305.9
65°	1325.5	1340.4	1402.4	1609.6	2066.5	2173.8	2808.5	3059.6	3398.4	3747.2	4146.7
67.5°	950.9	930.1	978.1	1159.5	1603.3	2170.1	2395.0	2580.9	2846.5	3113.8	3441.4
70°	432.0	422.1	459.6	603.0	967.2	1715.0	2024.9	2087.8	2186.4	2366.5	2587.7
72.5°	170.6	170.1	194.5	249.3	457.4	1103.8	1702.8	1739.0	1773.8	1852.1	1947.6
75°	111.7	111.7	119.0	134.4	225.3	532.9	1440.4	1473.5	1526.8	1549.0	1589.7
77.5°	84.1	84.6	87.8	91.4	124.4	280.5	1016.5	1133.7	1224.2	1291.6	1340.9
80°	59.7	62.4	68.3	70.6	81.0	159.7	574.5	659.1	761.4	870.4	1007.5
82.5°	44.8	48.0	57.9	60.6	64.2	90.9	259.2	294.1	343.4	445.2	640.1
85°	20.8	23.1	39.8	43.4	46.6	52.5	131.6	147.0	166.9	182.8	213.1
87.5°	3.2	2.3	6.8	9.5	14.9	15.4	45.2	53.8	58.4	70.1	72.8
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	744.6	744.6	744.6	744.6	744.6	744.6	744.6	744.6	744.6	744.6	744.6
2.5°	750.1	750.5	751.0	750.1	750.5	750.5	749.6	749.2	749.2	749.2	749.6
5°	764.5	765.5	764.5	765.0	766.8	766.4	765.5	765.0	766.8	767.3	765.9
7.5°	790.3	790.8	789.0	791.2	792.1	792.6	792.6	793.5	793.5	794.9	793.5
10°	823.4	823.4	826.5	826.1	826.5	827.4	827.9	829.7	831.1	831.1	832.0
12.5°	861.4	861.8	865.0	865.4	867.2	867.7	870.4	868.6	873.1	873.1	874.5
15°	900.7	903.9	904.3	908.9	909.8	910.2	913.8	913.8	917.0	917.5	918.4
17.5°	939.6	942.3	944.2	947.8	950.9	952.3	953.7	956.4	958.6	959.5	961.8
20°	973.1	975.8	977.6	981.2	984.0	986.2	987.6	990.7	993.0	993.9	997.1
22.5°	1001.2	1003.0	1006.1	1011.1	1012.0	1014.7	1018.8	1021.1	1022.0	1024.7	1028.3
25°	1031.0	1033.7	1035.5	1040.1	1043.7	1048.2	1051.8	1055.4	1056.3	1060.0	1063.1
27.5°	1070.8	1073.5	1074.0	1083.0	1086.7	1093.0	1097.1	1102.5	1105.2	1108.4	1114.7
30°	1129.6	1136.0	1138.7	1149.1	1150.9	1158.1	1165.4	1167.2	1171.3	1171.7	1182.1
32.5°	1219.7	1228.7	1232.3	1243.2	1245.9	1252.7	1256.8	1266.3	1266.7	1271.2	1273.5
35°	1367.1	1364.9	1378.9	1381.6	1389.8	1395.6	1399.7	1399.7	1408.3	1408.8	1411.5
37.5°	1568.5	1563.9	1567.6	1551.3	1555.3	1548.1	1546.7	1548.6	1544.9	1545.8	1545.4
40°	1890.6	1870.2	1848.9	1798.7	1787.9	1767.1	1750.8	1737.7	1725.0	1711.4	1702.4
42.5°	2294.6	2265.1	2233.5	2153.0	2115.4	2075.1	2035.8	2013.2	1967.9	1940.3	1925.4
45°	2718.0	2683.6	2639.3	2572.3	2518.9	2476.0	2404.0	2370.1	2300.0	2265.1	2218.1
47.5°	3065.0	3065.4	3029.7	2961.8	2904.8	2876.3	2831.5	2765.9	2686.3	2641.5	2557.8
50°	3368.5	3368.1	3365.8	3325.1	3285.3	3254.1	3214.7	3155.5	3090.3	3039.6	2943.7
52.5°	3592.9	3622.8	3635.5	3635.0	3630.0	3615.5	3585.7	3534.6	3468.5	3440.0	3363.6
55°	3778.4	3843.6	3877.5	3951.7	3958.5	3982.4	3956.2	3956.7	3917.8	3920.5	3896.0
57.5°	4059.4	4178.3	4246.6	4410.9	4493.2	4592.7	4575.1	4658.3	4688.6	4727.1	4778.2
60°	4378.3	4600.4	4762.4	5089.0	5222.0	5383.1	5471.7	5566.3	5635.0	5705.6	5757.6
62.5°	4606.3	4898.1	5164.1	5629.6	5802.4	5972.1	6083.8	6198.3	6275.6	6326.3	6363.9
65°	4513.1	4835.7	5150.1	5638.2	5826.4	5949.5	6082.5	6148.5	6225.9	6267.9	6321.8
67.5°	3835.0	4158.4	4495.5	5071.4	5268.2	5438.3	5541.9	5627.4	5689.8	5743.2	5805.1
70°	2851.9	3205.7	3554.0	4185.6	4433.9	4679.6	4801.7	4907.6	4972.7	5026.6	5094.9
72.5°	2052.5	2274.2	2491.8	3198.9	3447.3	3764.8	3891.5	4009.1	4093.7	4091.0	4163.4
75°	1634.1	1724.1	1820.9	2186.0	2364.2	2632.0	2703.1	2769.1	2729.3	2652.9	2648.3
77.5°	1360.4	1397.5	1430.0	1544.5	1570.7	1634.5	1599.2	1562.6	1444.5	1345.0	1292.5
80°	1104.3	1177.6	1225.5	1307.0	1340.4	1359.5	1364.4	1351.8	1308.3	1248.2	1152.3
82.5°	821.1	960.4	1055.4	1215.6	1274.4	1286.6	1310.1	1295.7	1267.2	1218.3	1149.5
85°	240.7	272.3	312.2	423.4	496.3	558.3	621.6	652.8	672.3	645.1	574.1
87.5°	84.6	95.5	106.8	147.0	156.5	189.1	185.5	219.0	220.3	229.8	219.9
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	744.6	744.6	744.6	744.6	744.6	744.6	744.6	744.6	744.6	744.6	744.6
2.5°	749.2	749.2	749.2	749.6	749.6	749.6	748.7	748.3	748.7	749.6	749.6
5°	766.8	767.3	768.2	766.4	766.8	768.2	767.3	766.8	767.3	768.2	767.3
7.5°	795.3	795.8	794.9	796.7	796.7	797.6	798.9	797.6	798.0	798.5	798.9
10°	832.4	832.9	833.8	835.1	835.6	836.5	837.4	838.7	838.7	837.8	840.1
12.5°	876.7	876.3	877.2	879.0	879.9	881.3	884.0	884.0	885.8	885.3	887.6
15°	920.2	922.4	922.9	926.1	927.4	929.7	932.8	934.7	934.7	937.4	938.3
17.5°	963.6	965.4	967.2	969.9	971.7	973.1	976.7	979.0	978.5	983.5	983.5
20°	997.1	1000.7	1003.0	1004.8	1007.9	1010.2	1012.9	1015.6	1017.4	1020.6	1021.5
22.5°	1029.7	1031.9	1035.1	1037.3	1041.0	1043.7	1046.8	1049.1	1052.3	1056.3	1057.7
25°	1065.8	1069.5	1073.1	1076.3	1079.0	1082.1	1087.6	1092.5	1097.1	1100.7	1102.0
27.5°	1116.1	1120.1	1125.6	1127.8	1131.9	1134.6	1142.8	1149.1	1151.3	1157.7	1159.5
30°	1183.9	1188.4	1193.9	1196.6	1203.8	1207.4	1216.0	1222.8	1225.1	1232.8	1234.1
32.5°	1282.1	1284.8	1295.7	1295.2	1305.2	1315.6	1320.5	1326.0	1335.9	1340.0	1341.4
35°	1418.3	1424.6	1432.3	1431.8	1444.5	1450.4	1460.3	1466.2	1473.5	1473.0	1480.7
37.5°	1549.9	1552.2	1554.9	1560.8	1569.8	1578.0	1581.6	1587.5	1592.9	1601.0	1611.0
40°	1693.3	1698.7	1699.2	1702.4	1706.9	1717.3	1724.1	1730.4	1749.0	1760.7	1766.6
42.5°	1908.2	1906.8	1897.8	1903.7	1906.4	1922.2	1927.2	1946.7	1967.5	1992.4	1999.1
45°	2184.6	2166.5	2161.1	2158.8	2173.3	2181.5	2201.8	2238.0	2259.7	2283.2	2294.6
47.5°	2524.8	2468.3	2441.6	2435.7	2450.6	2485.5	2492.3	2528.0	2556.5	2573.7	2585.0
50°	2865.5	2821.1	2765.0	2746.0	2742.0	2774.1	2781.8	2811.6	2840.6	2845.6	2839.7
52.5°	3293.4	3221.1	3128.3	3094.8	3068.2	3070.4	3076.7	3089.4	3108.0	3100.3	3084.4
55°	3840.8	3758.5	3712.8	3649.5	3609.2	3602.0	3574.4	3536.4	3535.0	3540.0	3492.5
57.5°	4752.4	4718.0	4737.5	4730.7	4690.9	4714.9	4590.5	4555.2	4527.1	4478.3	4434.4
60°	5803.8	5839.1	5879.3	5972.1	5968.0	6061.2	5974.8	5953.1	5926.8	5776.2	5702.5
62.5°	6429.5	6443.5	6502.7	6589.1	6674.2	6763.3	6803.6	6817.6	6762.9	6639.8	6486.0
65°	6320.4	6382.4	6439.9	6514.5	6601.8	6690.9	6776.0	6825.8	6813.1	6731.7	6562.5
67.5°	5825.1	5890.2	5974.3	6052.6	6146.7	6224.1	6317.3	6408.6	6411.4	6370.6	6253.0
70°	5102.1	5177.7	5264.5	5308.4	5410.2	5480.3	5557.7	5648.2	5677.6	5682.5	5545.5
72.5°	4148.0	4179.7	4222.2	4199.1	4219.5	4264.3	4243.5	4250.7	4139.0	4159.8	3990.6
75°	2526.2	2497.2	2368.7	2251.6	2108.6	1998.7	2024.9	1815.0	1608.3	1597.9	1448.6
77.5°	1281.2	1235.0	1155.4	1072.6	951.4	812.5	696.7	571.8	466.4	406.3	348.8
80°	1091.2	1058.6	1014.7	954.6	866.3	763.6	642.9	547.9	459.6	367.8	294.5
82.5°	1044.1	944.6	880.8	830.6	735.1	640.1	574.1	508.9	446.5	390.0	309.0
85°	518.0	458.3	387.7	343.8	264.7	207.2	194.1	159.7	148.8	114.9	96.8
87.5°	174.2	142.5	106.3	89.6	71.5	58.4	57.5	51.1	50.7	46.1	42.5
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°	744.6	744.6	744.6	744.6	744.6	744.6	744.6	744.6	744.6	744.6	744.6
2.5°	749.2	750.1	750.1	749.2	749.6	748.7	749.2	749.6	748.3	747.8	746.5
5°	767.7	767.3	767.3	767.7	769.1	769.5	767.3	768.2	768.6	766.4	761.4
7.5°	798.5	798.5	799.8	799.4	802.1	801.2	800.7	800.7	800.7	796.2	788.1
10°	840.1	840.1	841.5	843.3	843.7	842.8	842.8	843.3	845.5	836.5	823.8
12.5°	886.7	889.0	888.5	888.5	893.9	892.6	890.8	892.6	894.8	882.2	864.1
15°	938.7	940.1	941.0	944.2	943.2	946.4	947.3	946.4	948.7	932.4	902.1
17.5°	985.8	988.5	989.4	993.0	993.0	993.5	997.1	995.7	996.2	977.6	934.2
20°	1024.7	1027.4	1028.7	1032.8	1033.7	1035.5	1036.9	1037.8	1040.1	1017.9	960.4
22.5°	1063.6	1065.8	1068.1	1070.8	1074.4	1076.7	1078.5	1079.4	1083.5	1057.7	985.3
25°	1107.0	1112.0	1114.3	1118.8	1122.4	1126.0	1128.7	1129.2	1136.0	1103.8	1005.7
27.5°	1164.9	1171.7	1175.3	1182.6	1186.2	1189.8	1188.9	1194.3	1203.8	1156.8	1021.5
30°	1240.9	1249.5	1251.8	1259.0	1264.9	1268.5	1272.6	1277.1	1283.4	1215.6	1029.2
32.5°	1346.8	1359.9	1363.1	1367.1	1375.7	1382.1	1384.8	1392.0	1393.8	1271.2	1026.9
35°	1492.0	1486.1	1501.5	1505.1	1517.3	1522.3	1525.5	1535.0	1527.7	1331.9	1012.0
37.5°	1623.2	1621.4	1636.3	1644.5	1660.3	1656.7	1664.4	1670.7	1644.9	1374.8	984.4
40°	1783.3	1781.1	1801.9	1804.6	1829.0	1823.6	1826.8	1831.8	1774.3	1404.7	934.2
42.5°	2006.8	2007.7	2029.9	2032.6	2035.8	2045.7	2029.4	2030.4	1911.8	1412.8	851.4
45°	2301.3	2317.2	2303.6	2304.1	2303.1	2284.1	2263.8	2239.8	2054.8	1384.8	744.6
47.5°	2586.8	2575.9	2558.8	2542.9	2529.8	2499.9	2470.1	2429.4	2178.3	1318.3	625.7
50°	2831.1	2806.7	2791.3	2747.4	2716.2	2677.3	2635.7	2589.1	2279.6	1222.4	514.4
52.5°	3058.2	3032.9	2975.4	2929.7	2884.9	2833.4	2785.0	2730.2	2369.2	1112.9	429.3
55°	3435.5	3413.3	3355.9	3272.2	3217.0	3146.0	3082.2	3008.0	2550.6	1024.2	373.2
57.5°	4313.6	4294.6	4173.8	4120.9	4048.0	3869.8	3843.6	3727.7	3036.9	1013.8	340.2
60°	5550.0	5468.6	5368.1	5223.4	5052.8	4994.0	4862.8	4708.5	3819.6	1042.3	313.5
62.5°	6309.1	6123.6	5976.2	5809.2	5652.2	5517.4	5374.0	5221.6	4220.0	1004.8	280.5
65°	6366.1	6148.1	5953.1	5757.2	5580.8	5412.9	5273.6	5121.1	4089.7	863.6	237.5
67.5°	6052.2	5822.3	5609.7	5387.6	5209.3	5057.8	4880.4	4733.9	3722.3	672.3	197.7
70°	5404.8	5203.0	5019.8	4780.5	4632.5	4448.0	4335.3	4152.1	3244.6	458.3	163.3
72.5°	3892.9	3740.9	3681.1	3514.2	3320.6	3212.0	3160.0	2982.2	2397.7	284.6	133.5
75°	1315.1	1352.7	1266.7	1135.1	1199.3	1100.2	1140.5	1055.9	1014.3	163.3	112.2
77.5°	291.8	274.2	253.3	235.2	233.9	219.9	233.0	220.3	235.7	104.1	99.1
80°	230.3	181.9	154.7	141.1	133.9	129.8	126.7	123.1	112.2	88.7	91.4
82.5°	248.8	187.7	137.5	109.9	94.1	88.2	86.9	83.2	82.3	86.0	92.3
85°	79.6	66.5	56.5	53.4	49.3	47.0	46.1	44.8	54.3	93.6	88.7
87.5°	41.6	36.6	32.6	31.2	27.1	25.3	24.9	25.3	38.0	93.6	64.2
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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CATALOG NUMBER: VTS-F03-LED-E1-SL2-7030

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	744.6	744.6	744.6	744.6	744.6	744.6	744.6
2.5°	745.1	744.6	743.7	743.3	742.8	740.6	742.4
5°	759.1	754.6	750.5	745.5	742.8	740.6	740.6
7.5°	780.4	767.7	757.3	746.0	738.3	732.4	731.5
10°	807.1	782.6	758.7	738.3	723.8	713.0	711.6
12.5°	832.4	795.3	757.3	723.8	701.2	685.8	684.9
15°	855.9	802.1	746.9	697.6	663.7	643.3	641.0
17.5°	874.5	798.0	723.4	661.0	614.8	590.8	589.5
20°	878.6	781.7	689.9	615.7	566.9	541.5	535.6
22.5°	874.9	752.3	648.3	565.9	509.9	484.5	481.3
25°	864.1	716.6	596.7	508.0	456.0	430.2	423.9
27.5°	844.6	674.5	541.1	451.9	400.4	375.5	369.2
30°	815.7	623.9	481.8	399.5	346.1	326.2	319.8
32.5°	775.4	562.3	423.4	345.6	301.3	285.5	282.7
35°	719.8	491.8	362.4	301.3	268.7	259.2	257.9
37.5°	648.7	421.2	311.2	269.6	246.1	240.2	239.3
40°	556.0	348.8	275.1	247.0	229.8	224.8	223.9
42.5°	460.5	294.5	248.4	228.9	214.9	210.4	209.0
45°	376.8	257.9	228.5	214.0	200.9	195.9	195.4
47.5°	314.4	236.6	212.2	200.4	187.3	181.4	181.9
50°	268.7	217.2	198.6	188.6	173.7	168.3	168.7
52.5°	237.5	197.7	185.9	174.6	162.0	156.5	156.5
55°	213.1	181.9	173.7	161.5	151.6	146.6	146.1
57.5°	193.2	169.2	162.0	152.0	142.1	136.2	136.2
60°	181.0	160.1	154.3	145.2	133.5	127.1	126.7
62.5°	173.7	157.4	152.5	139.8	126.7	120.3	119.0
65°	168.3	163.8	157.4	136.6	121.2	114.5	113.1
67.5°	168.7	178.7	169.6	138.4	119.4	109.5	107.7
70°	171.5	190.5	178.2	142.5	127.1	107.2	103.1
72.5°	157.9	172.4	160.6	135.7	124.0	103.1	98.2
75°	131.6	125.8	115.4	110.4	111.3	93.6	91.8
77.5°	106.8	93.6	83.7	87.8	93.6	80.1	78.3
80°	92.7	76.0	71.0	77.8	85.1	68.3	63.8
82.5°	86.9	64.2	61.1	81.0	89.1	58.8	51.6
85°	76.5	52.5	48.0	95.5	89.1	44.3	41.2
87.5°	51.1	31.2	29.9	70.1	61.1	30.8	24.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)