

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: P157883

Luminaire Tested: **VTS-F03-LED-E1-RW-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157883
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33711)
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-RW-8030
Description: VENTUS LED SITE LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

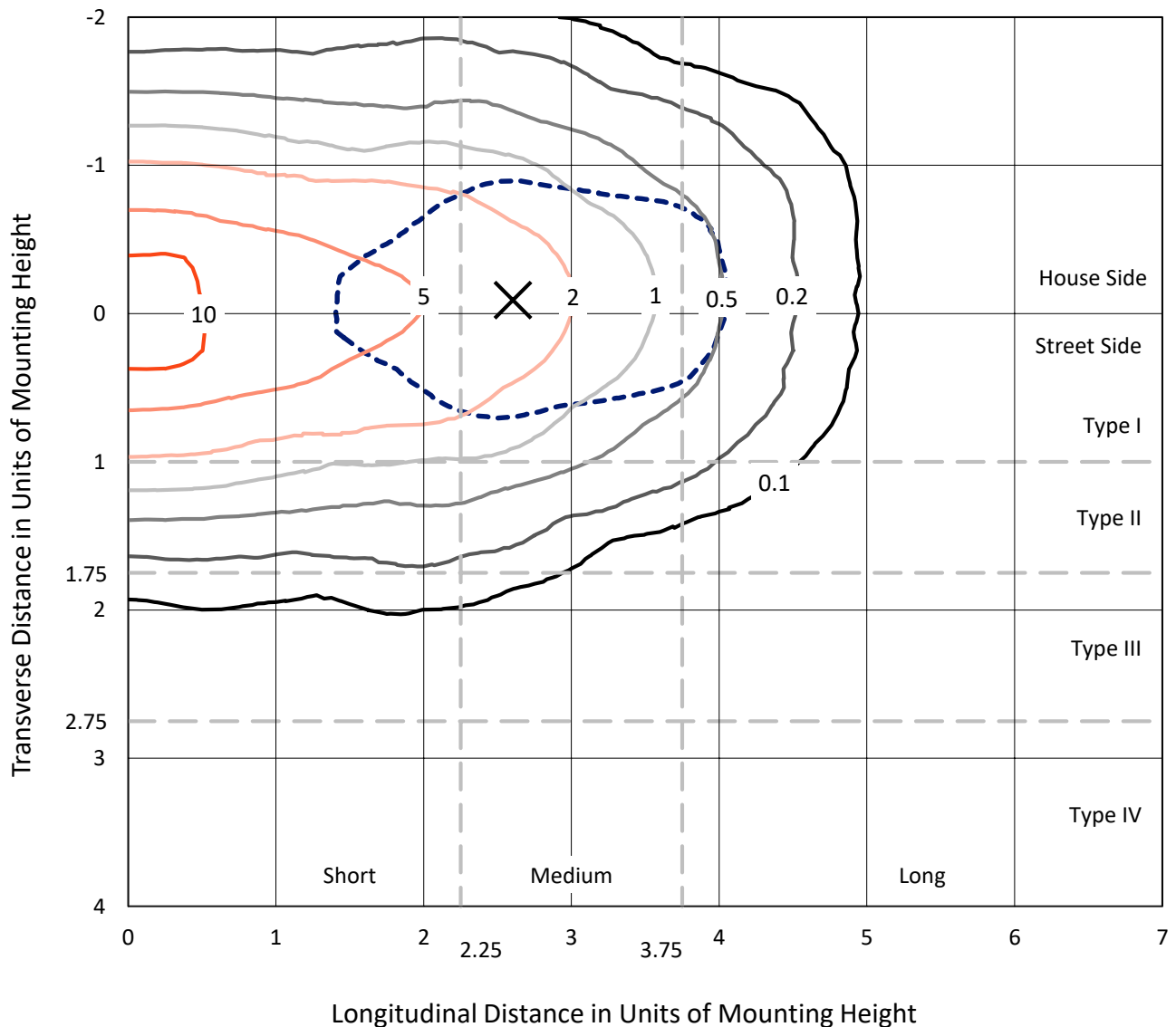
Lumens per Lamp: N/A
Luminaire Lumens: 6511.9 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (A_{in}): 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

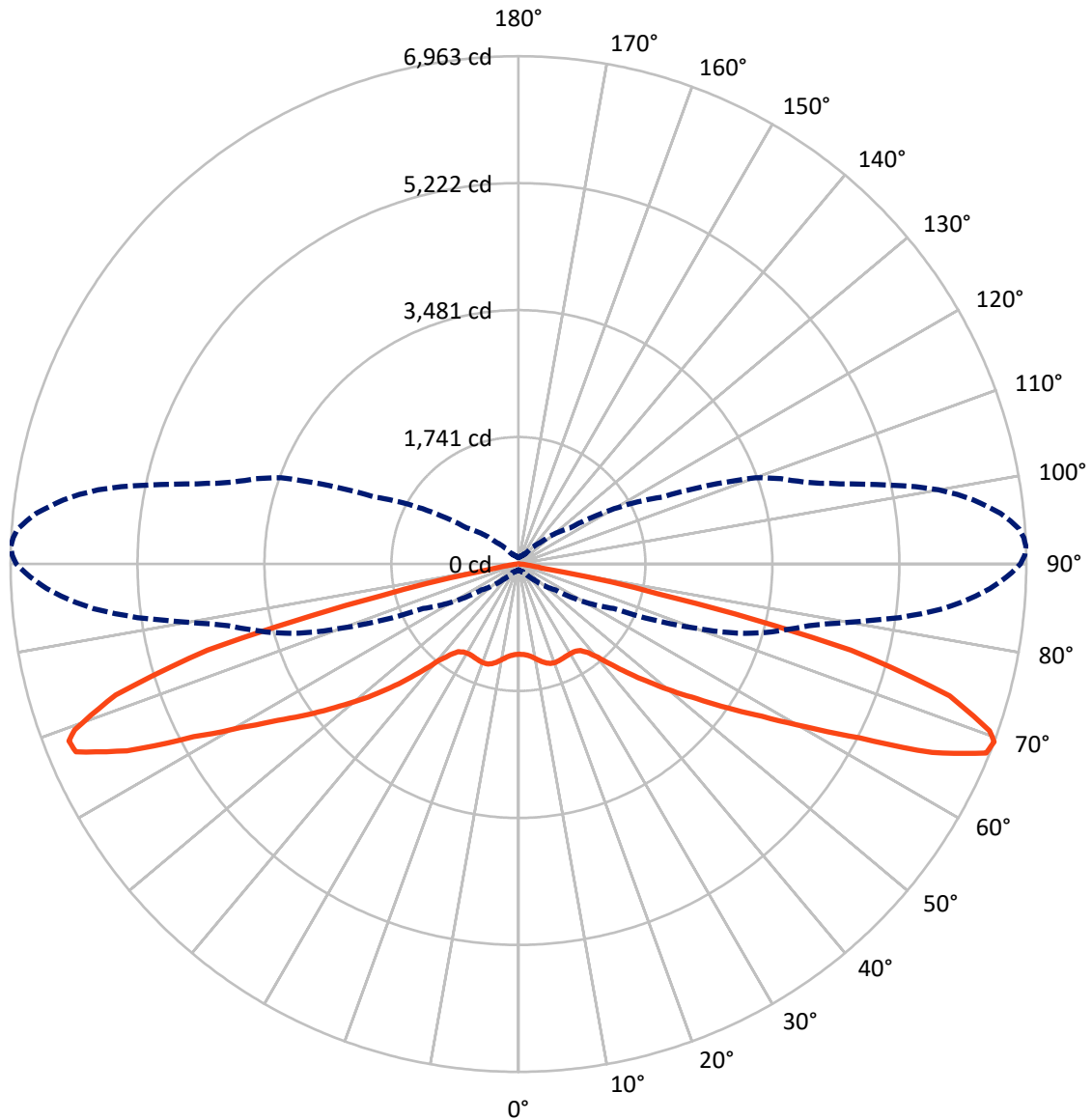
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.7 fc
 Type I - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 92-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3453.6	0.0	3453.6
	% Fixture	53.0	0.0	53.0
Street Side	Lumens	3058.3	0.0	3058.3
	% Fixture	47.0	0.0	47.0
Total	Lumens	6511.9	0.0	6511.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.0	1.9
10°-20°	382.4	5.9
20°-30°	620.4	9.5
30°-40°	773.1	11.9
40°-50°	962.6	14.8
50°-60°	1187.2	18.2
60°-70°	1474.4	22.6
70°-80°	905.9	13.9
80°-90°	84.9	1.3
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°	6511.9	100.0
0°-180°	6511.9	100.0



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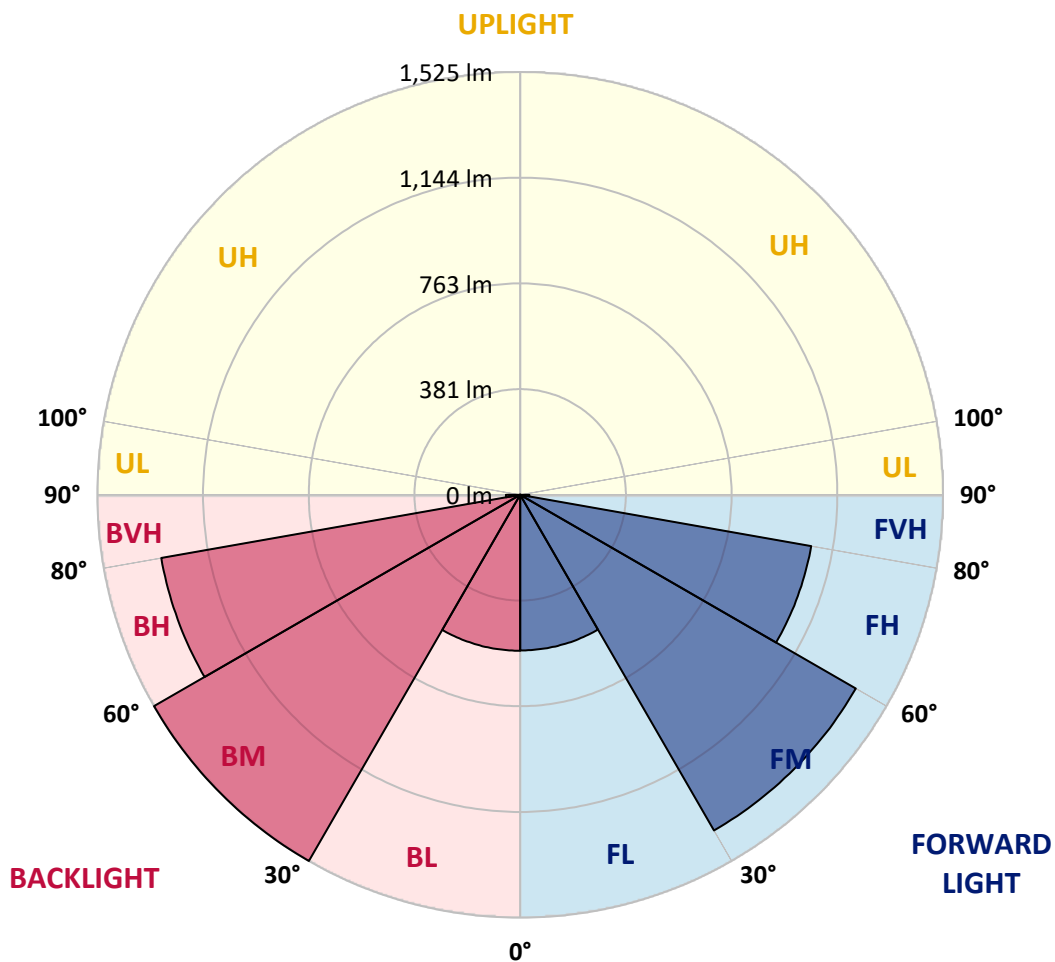
CATALOG NUMBER: VTS-F03-LED-E1-RW-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	561.3	8.6			
FM	(30°-60°)	1397.8	21.5			
FH	(60°-80°)	1065.9	16.4			G1/1800
FVH	(80°-90°)	33.2	0.5			G1/100
BL	(0°-30°)	562.5	8.6	B2/1000		
BM	(30°-60°)	1525.1	23.4	B2/2500		
BH	(60°-80°)	1314.4	20.2	B3/2500		G3/2500
BVH	(80°-90°)	51.7	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	71°	72°
0°	1237.0	1237.0	1237.0	1237.0	1237.0	1237.0	1237.0	1237.0	1237.0	1237.0	1237.0
2.5°	1256.6	1253.3	1256.2	1256.6	1256.2	1256.2	1252.5	1251.6	1246.6	1247.9	1247.4
5°	1273.8	1272.5	1274.6	1275.4	1276.3	1274.6	1271.7	1270.4	1267.1	1265.8	1265.4
7.5°	1289.7	1287.6	1290.9	1293.8	1295.9	1296.3	1296.8	1294.7	1294.7	1293.0	1293.0
10°	1303.0	1301.4	1306.8	1310.6	1317.2	1321.0	1325.2	1328.1	1329.8	1330.2	1329.8
12.5°	1308.9	1307.6	1316.4	1327.7	1340.2	1349.0	1359.5	1367.0	1369.1	1368.7	1370.8
15°	1298.9	1299.7	1313.1	1335.2	1362.0	1384.1	1398.8	1405.0	1406.7	1407.5	1408.0
17.5°	1271.7	1273.4	1292.6	1328.5	1375.4	1415.5	1437.2	1437.2	1433.9	1433.9	1433.5
20°	1228.2	1229.9	1255.0	1306.8	1375.8	1437.2	1468.2	1461.9	1449.3	1446.8	1444.3
22.5°	1168.0	1174.7	1202.3	1262.5	1357.8	1443.5	1487.4	1478.2	1458.5	1453.1	1449.3
25°	1099.9	1099.0	1132.1	1199.8	1314.3	1428.4	1492.8	1491.2	1470.3	1464.4	1457.7
27.5°	1022.1	1024.6	1055.1	1123.7	1247.9	1385.0	1483.6	1505.8	1488.6	1482.8	1476.5
30°	942.3	944.8	973.6	1053.5	1172.2	1322.7	1464.8	1520.0	1513.3	1508.7	1504.5
32.5°	862.0	862.8	897.1	982.8	1108.2	1248.3	1436.4	1533.0	1542.2	1540.1	1538.4
35°	786.8	787.6	824.8	911.7	1045.1	1184.7	1402.1	1551.8	1581.5	1584.0	1585.6
37.5°	713.6	714.9	752.9	844.0	982.8	1136.7	1364.1	1580.6	1636.6	1645.8	1647.5
40°	640.9	642.1	678.5	775.0	919.7	1094.4	1334.8	1621.2	1711.0	1723.6	1736.5
42.5°	571.5	576.1	607.0	699.4	849.5	1042.2	1322.3	1670.5	1799.2	1818.9	1833.5
45°	506.7	507.1	542.2	628.7	766.3	971.5	1313.9	1726.5	1897.9	1927.6	1947.7
47.5°	437.3	442.3	479.1	563.1	688.5	884.2	1287.1	1792.1	2005.3	2040.0	2080.6
50°	370.0	377.1	412.6	495.8	617.4	793.9	1215.2	1869.1	2126.2	2171.3	2218.1
52.5°	305.2	304.8	342.4	428.9	546.0	717.4	1098.6	1949.7	2265.8	2314.3	2364.9
55°	230.8	230.8	268.0	347.0	468.6	649.2	973.6	1999.9	2395.4	2453.9	2509.1
57.5°	158.4	162.6	197.7	265.9	387.9	586.9	877.9	1971.1	2494.5	2567.2	2632.8
60°	117.5	121.7	147.6	191.0	303.5	513.4	806.0	1835.2	2554.2	2650.8	2736.1
62.5°	101.6	104.5	129.2	153.0	218.6	435.2	742.4	1662.6	2640.3	2772.5	2891.2
65°	90.7	93.6	118.3	132.1	171.0	349.9	706.9	1563.9	2743.2	2945.1	3117.3
67.5°	84.0	87.4	108.3	118.3	149.2	316.5	679.3	1540.9	2742.4	2987.3	3207.2
69°	80.7	83.2	100.3	111.2	144.2	306.4	619.5	1441.0	2561.3	2824.3	3045.0
70°	78.6	81.1	95.7	106.6	142.6	288.4	564.4	1308.9	2355.2	2619.9	2843.9
72.5°	71.9	74.4	85.3	95.3	118.7	192.7	393.4	837.8	1683.0	1872.0	2128.2
75°	63.5	66.5	74.8	83.2	89.9	111.6	227.0	434.8	962.3	1105.7	1334.0
77.5°	51.8	54.8	63.5	76.9	76.1	84.9	147.6	267.1	450.6	558.9	643.4
80°	42.6	44.7	52.3	77.8	62.3	71.1	119.6	219.1	317.3	350.7	370.8
82.5°	28.4	31.4	40.6	61.0	47.7	50.6	89.5	204.8	268.4	294.3	318.5
85°	13.4	14.6	24.7	32.6	28.8	27.2	51.0	144.6	199.8	211.9	221.1
87.5°	0.0	0.0	1.3	2.5	3.8	3.8	9.2	30.5	56.0	67.7	66.9
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):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	1237.0	1237.0	1237.0	1237.0	1237.0	1237.0	1237.0	1237.0	1237.0	1237.0	1237.0
2.5°	1245.8	1246.2	1245.8	1245.8	1245.3	1244.5	1244.5	1243.7	1244.1	1243.7	1244.5
5°	1265.0	1265.0	1263.7	1262.9	1264.2	1262.9	1263.3	1261.2	1261.2	1260.0	1258.3
7.5°	1292.6	1292.6	1293.0	1290.5	1292.2	1292.6	1291.3	1290.5	1289.7	1287.6	1288.0
10°	1329.4	1329.4	1330.6	1327.3	1329.0	1329.8	1330.2	1330.2	1329.4	1325.6	1326.0
12.5°	1370.3	1369.5	1369.9	1368.2	1369.9	1370.8	1371.6	1370.8	1370.8	1369.9	1369.5
15°	1407.5	1407.1	1408.0	1406.7	1407.1	1408.0	1410.5	1410.1	1409.6	1407.1	1407.1
17.5°	1433.0	1431.8	1431.0	1430.5	1430.5	1430.1	1430.5	1430.5	1429.3	1428.9	1428.9
20°	1442.7	1439.3	1437.2	1436.0	1434.3	1433.5	1432.6	1433.0	1432.2	1431.0	1431.4
22.5°	1444.3	1439.7	1435.6	1431.8	1428.4	1426.4	1424.3	1423.4	1421.3	1420.1	1420.1
25°	1452.3	1445.2	1438.5	1432.2	1427.2	1422.6	1418.0	1414.7	1412.1	1409.2	1408.4
27.5°	1469.8	1462.3	1454.4	1446.4	1439.7	1430.5	1424.3	1417.6	1411.7	1407.1	1403.8
30°	1497.0	1489.5	1481.5	1472.3	1463.6	1453.9	1443.5	1435.6	1427.2	1418.0	1413.0
32.5°	1533.0	1527.9	1520.0	1511.2	1503.3	1493.2	1480.7	1468.6	1460.6	1449.8	1441.8
35°	1584.4	1578.5	1576.0	1572.3	1564.3	1558.0	1544.2	1533.0	1525.4	1510.4	1504.5
37.5°	1654.6	1654.2	1656.3	1655.0	1656.3	1648.3	1642.1	1641.6	1630.8	1616.1	1601.9
40°	1750.3	1755.4	1766.6	1774.6	1782.1	1782.9	1791.7	1782.5	1783.8	1781.7	1767.1
42.5°	1859.4	1876.6	1890.0	1913.4	1931.4	1948.1	1959.4	1974.8	1986.5	1997.0	1999.5
45°	1981.1	2006.6	2037.5	2058.4	2093.6	2121.6	2160.0	2189.7	2220.6	2251.2	2262.0
47.5°	2113.2	2145.0	2179.2	2218.1	2262.4	2306.3	2365.7	2411.3	2461.0	2502.4	2539.2
50°	2259.1	2292.1	2338.1	2382.8	2443.9	2494.5	2572.2	2632.0	2712.3	2767.4	2815.1
52.5°	2411.3	2452.6	2504.1	2553.4	2615.7	2680.5	2767.0	2855.2	2951.8	3035.4	3104.8
55°	2560.1	2611.1	2660.4	2718.1	2787.1	2862.3	2960.2	3076.4	3196.8	3292.5	3384.5
57.5°	2692.6	2751.5	2809.7	2868.2	2938.8	3026.2	3136.1	3261.6	3399.5	3527.0	3653.3
60°	2815.5	2886.2	2957.2	3030.4	3111.5	3219.3	3351.4	3505.7	3684.2	3858.5	4023.6
62.5°	3009.9	3102.7	3190.9	3285.4	3383.2	3509.9	3665.8	3868.1	4073.0	4290.8	4460.1
65°	3273.3	3403.7	3519.1	3641.6	3768.2	3937.5	4124.0	4366.0	4659.5	4882.7	5154.4
67.5°	3404.1	3575.9	3724.3	3860.6	4017.4	4188.4	4409.9	4696.3	5009.4	5333.0	5636.0
69°	3250.3	3427.5	3591.8	3744.4	3902.8	4068.8	4300.4	4594.3	4925.4	5275.3	5571.2
70°	3050.9	3228.1	3403.3	3577.2	3721.8	3883.6	4116.0	4419.1	4749.8	5113.5	5406.9
72.5°	2337.3	2550.5	2708.9	2871.9	3039.6	3176.7	3445.1	3700.5	4045.0	4414.1	4737.2
75°	1495.3	1691.4	1864.5	2003.3	2167.1	2331.4	2529.6	2813.4	3029.1	3332.2	3594.3
77.5°	768.4	826.5	993.3	1043.0	1156.7	1246.2	1355.3	1426.4	1601.9	1639.1	1793.8
80°	364.1	328.2	308.9	291.4	296.4	294.3	285.5	273.8	288.4	282.2	279.7
82.5°	317.3	283.0	225.7	191.9	166.0	140.9	121.2	111.2	112.5	115.8	117.1
85°	222.4	209.0	163.0	123.7	96.6	74.8	60.2	57.7	59.4	64.0	62.3
87.5°	64.4	67.3	59.4	41.4	28.8	20.9	16.3	18.4	17.6	17.1	18.0
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):

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	1237.0	1237.0	1237.0	1237.0	1237.0	1237.0	1237.0	1237.0	1237.0	1237.0	1237.0
2.5°	1244.5	1244.1	1242.8	1241.6	1241.6	1240.7	1241.6	1242.0	1241.6	1241.6	1240.7
5°	1258.7	1259.1	1260.4	1257.9	1257.5	1257.9	1256.2	1255.8	1255.8	1255.8	1254.1
7.5°	1285.9	1287.1	1287.1	1285.5	1285.1	1286.3	1283.8	1283.0	1281.7	1281.3	1280.9
10°	1326.4	1327.7	1325.6	1324.4	1323.1	1324.8	1322.7	1322.7	1321.4	1320.2	1319.8
12.5°	1371.6	1370.8	1369.9	1370.8	1369.5	1369.5	1368.2	1367.4	1367.0	1366.6	1365.7
15°	1406.7	1409.6	1409.6	1410.5	1409.6	1409.6	1408.0	1408.4	1407.5	1407.1	1407.5
17.5°	1429.3	1430.1	1432.2	1433.5	1433.5	1433.9	1433.0	1433.9	1433.0	1433.0	1434.7
20°	1432.2	1433.0	1435.1	1437.2	1438.5	1439.3	1439.3	1440.6	1441.4	1442.2	1444.3
22.5°	1420.5	1421.8	1424.3	1428.0	1430.1	1431.0	1432.6	1434.7	1436.8	1438.5	1441.4
25°	1408.4	1408.8	1411.3	1415.1	1417.6	1419.7	1422.6	1425.1	1428.0	1431.4	1434.7
27.5°	1401.7	1401.3	1403.4	1407.1	1409.2	1412.1	1414.7	1418.4	1421.8	1425.9	1428.9
30°	1407.5	1404.2	1404.6	1406.3	1408.0	1410.1	1413.0	1416.3	1420.1	1423.8	1427.2
32.5°	1433.5	1425.9	1420.9	1419.7	1420.1	1420.5	1422.2	1424.3	1427.2	1430.1	1431.4
35°	1489.5	1476.5	1469.8	1464.4	1459.8	1456.0	1456.9	1456.5	1456.5	1459.0	1456.0
37.5°	1596.1	1579.8	1572.7	1563.1	1557.6	1543.8	1540.1	1539.2	1533.8	1533.8	1527.5
40°	1763.3	1753.7	1748.2	1739.5	1713.1	1716.5	1697.7	1698.1	1682.6	1684.3	1673.4
42.5°	2001.2	2002.4	1995.7	1989.9	1969.4	1960.2	1942.6	1917.6	1897.9	1897.5	1875.8
45°	2276.2	2291.3	2270.0	2277.5	2259.5	2234.8	2214.4	2182.2	2151.7	2142.0	2119.9
47.5°	2563.8	2588.5	2572.2	2575.1	2566.4	2531.2	2503.6	2463.9	2424.2	2397.5	2384.1
50°	2871.1	2887.4	2887.0	2879.1	2874.9	2840.6	2796.3	2766.2	2736.9	2701.0	2689.3
52.5°	3149.5	3187.6	3213.1	3207.2	3195.1	3174.6	3135.3	3109.4	3066.3	3061.3	3066.3
55°	3447.6	3496.9	3522.8	3554.2	3554.6	3550.8	3534.5	3524.9	3484.8	3489.4	3483.5
57.5°	3729.8	3802.1	3841.8	3908.7	3931.7	3962.2	3950.9	3963.4	3939.2	3955.1	3950.5
60°	4112.3	4212.6	4278.7	4370.2	4412.8	4489.3	4504.4	4513.6	4527.0	4559.6	4541.2
62.5°	4593.4	4740.6	4877.7	5002.3	5043.3	5158.2	5177.0	5248.9	5252.7	5274.8	5234.3
65°	5381.0	5560.4	5711.3	5860.5	5946.6	6081.2	6135.6	6275.2	6232.6	6250.6	6164.0
67.5°	5896.9	6105.5	6307.8	6449.1	6592.1	6729.6	6828.7	6919.0	6918.2	6900.6	6823.7
69°	5851.3	6083.8	6283.2	6472.5	6623.0	6764.3	6883.5	6942.0	6962.5	6937.0	6882.2
70°	5693.7	5932.4	6176.6	6332.5	6496.4	6651.5	6774.4	6838.3	6852.5	6834.6	6787.3
72.5°	4965.5	5194.6	5463.8	5605.5	5803.7	5915.7	6085.0	6167.8	6182.4	6159.4	6128.5
75°	3875.2	3916.6	4190.9	4281.2	4425.0	4554.1	4659.5	4632.7	4707.6	4692.9	4681.2
77.5°	1825.6	1715.2	1892.9	1975.7	1932.2	1816.4	1984.9	1863.2	1943.9	2048.8	2022.1
80°	301.0	300.2	308.1	325.7	304.8	323.6	323.1	313.9	314.8	337.4	325.7
82.5°	115.8	118.3	119.6	122.9	122.9	123.3	125.4	127.9	125.8	130.0	129.2
85°	62.7	66.9	63.1	60.2	62.3	63.5	65.2	67.3	65.2	71.5	68.1
87.5°	16.3	17.1	15.0	15.0	14.6	13.4	13.4	14.2	15.5	18.4	20.1
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-RW-8030

CANDELA DISTRIBUTION (continued):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	1237.0	1237.0	1237.0	1237.0	1237.0	1237.0	1237.0	1237.0	1237.0	1237.0	1237.0
2.5°	1239.1	1239.5	1239.9	1238.7	1237.8	1237.8	1237.4	1236.6	1236.1	1236.1	1236.1
5°	1253.3	1254.1	1252.0	1251.6	1250.8	1249.9	1249.9	1249.1	1249.5	1249.5	1247.4
7.5°	1281.7	1280.5	1278.0	1276.3	1278.0	1275.0	1273.8	1274.6	1273.8	1274.2	1273.4
10°	1319.8	1319.8	1316.8	1318.5	1316.4	1313.1	1314.3	1313.1	1312.2	1309.3	1311.0
12.5°	1367.0	1365.7	1364.1	1360.3	1359.1	1358.6	1354.9	1355.3	1354.0	1353.2	1351.9
15°	1408.4	1408.0	1404.2	1402.1	1401.7	1400.0	1398.3	1397.5	1395.4	1395.0	1394.2
17.5°	1436.0	1434.7	1433.0	1431.0	1431.0	1428.4	1427.6	1425.5	1425.1	1423.8	1422.6
20°	1445.2	1445.6	1443.9	1442.2	1441.4	1439.7	1438.5	1436.8	1436.0	1434.3	1433.0
22.5°	1443.1	1443.1	1441.4	1441.0	1439.3	1436.8	1435.1	1433.0	1431.0	1428.9	1426.4
25°	1436.4	1436.0	1434.7	1432.6	1430.5	1426.8	1423.4	1420.1	1417.2	1414.7	1410.9
27.5°	1430.5	1429.7	1427.2	1424.3	1420.1	1415.9	1409.6	1405.0	1401.3	1397.9	1393.7
30°	1428.4	1425.5	1421.8	1417.2	1412.1	1405.9	1399.2	1393.3	1389.2	1385.8	1384.1
32.5°	1431.0	1427.2	1421.3	1415.5	1409.2	1401.7	1395.0	1390.0	1386.2	1385.4	1385.4
35°	1453.9	1447.7	1439.7	1431.4	1423.4	1417.2	1412.6	1412.1	1409.6	1412.6	1417.2
37.5°	1521.3	1515.8	1503.7	1492.8	1487.4	1484.5	1480.3	1481.1	1475.3	1484.5	1492.0
40°	1664.2	1657.5	1643.3	1634.5	1623.7	1613.2	1621.6	1619.1	1623.3	1621.6	1629.5
42.5°	1872.8	1866.1	1843.6	1840.2	1835.6	1831.4	1831.4	1828.1	1826.4	1832.3	1825.6
45°	2126.6	2113.2	2104.8	2114.9	2101.1	2105.3	2119.9	2100.2	2104.8	2077.7	2052.6
47.5°	2389.9	2388.7	2386.6	2398.7	2400.8	2407.1	2415.0	2395.0	2358.6	2338.1	2287.1
50°	2693.0	2706.0	2711.0	2722.7	2727.7	2732.3	2719.8	2690.1	2628.6	2574.3	2514.1
52.5°	3061.3	3038.7	3069.7	3081.0	3075.9	3057.6	3012.4	2976.0	2891.2	2813.0	2719.8
55°	3490.2	3495.7	3473.9	3465.1	3448.0	3397.0	3334.7	3252.8	3145.3	3043.3	2925.5
57.5°	3927.1	3925.0	3891.1	3843.5	3785.4	3723.9	3631.1	3513.6	3388.2	3251.1	3108.6
60°	4458.4	4456.3	4387.8	4306.2	4223.5	4124.4	3978.9	3837.6	3669.6	3489.4	3319.7
62.5°	5156.5	5066.7	4999.4	4877.7	4749.8	4620.2	4423.3	4235.6	4011.1	3783.7	3585.5
65°	6051.1	5903.2	5826.7	5650.2	5452.1	5249.8	5049.5	4802.9	4500.6	4225.6	3983.5
67.5°	6712.9	6577.5	6437.4	6261.4	6044.0	5818.3	5544.1	5233.5	4890.2	4581.7	4317.9
69°	6771.0	6644.3	6476.3	6299.9	6094.2	5848.8	5549.5	5201.7	4853.9	4541.6	4282.0
70°	6682.8	6548.2	6371.4	6187.8	5957.9	5726.3	5412.8	5050.4	4702.1	4389.0	4135.7
72.5°	6024.8	5893.5	5705.4	5486.0	5250.2	5052.0	4754.4	4376.5	3997.7	3708.4	3511.1
75°	4581.3	4552.5	4419.1	4291.2	4105.6	3884.4	3612.3	3358.1	3047.5	2741.5	2557.6
77.5°	1954.8	2021.2	2090.6	2100.7	2107.3	2039.2	1997.0	1933.0	1725.3	1630.8	1533.4
80°	361.2	322.7	344.5	347.0	361.2	368.7	396.3	469.9	478.2	496.2	518.4
82.5°	128.3	130.4	133.8	135.0	136.3	141.3	160.1	191.9	220.7	258.3	308.5
85°	72.7	74.0	76.9	79.4	81.1	86.1	96.6	115.4	143.8	186.9	253.3
87.5°	22.2	25.1	26.8	30.1	31.4	32.2	36.8	49.3	63.5	94.1	137.1
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-RW-8030

CANDELA DISTRIBUTION (continued):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	1237.0	1237.0	1237.0	1237.0	1237.0	1237.0	1237.0	1237.0	1237.0	1237.0	1237.0
2.5°	1236.1	1235.7	1234.9	1234.1	1234.5	1233.6	1231.1	1230.3	1227.4	1225.3	1223.6
5°	1247.4	1247.0	1245.3	1245.8	1245.3	1241.2	1238.2	1233.2	1230.3	1225.7	1224.0
7.5°	1270.8	1270.4	1267.5	1268.8	1267.9	1261.6	1256.6	1248.7	1244.5	1238.7	1234.1
10°	1306.0	1306.0	1302.6	1303.0	1303.0	1294.7	1285.9	1272.5	1262.9	1253.7	1245.8
12.5°	1348.6	1346.9	1346.5	1344.4	1342.7	1333.6	1320.2	1302.2	1284.2	1269.2	1258.3
15°	1391.7	1389.2	1387.9	1385.4	1383.3	1374.9	1357.0	1334.8	1310.6	1286.3	1268.3
17.5°	1419.7	1418.0	1415.5	1414.7	1411.7	1403.4	1390.8	1368.7	1338.6	1304.7	1277.5
20°	1430.1	1427.2	1425.5	1423.8	1422.2	1416.3	1416.3	1402.1	1368.7	1321.0	1279.6
22.5°	1423.4	1421.8	1419.3	1418.0	1416.3	1417.2	1433.5	1431.4	1392.9	1324.8	1264.6
25°	1408.0	1405.9	1403.8	1403.8	1403.4	1412.1	1451.4	1456.9	1400.0	1306.4	1231.5
27.5°	1392.1	1389.2	1390.0	1390.4	1392.5	1411.3	1471.1	1463.6	1380.8	1262.1	1174.7
30°	1382.5	1382.5	1384.6	1387.9	1392.1	1425.1	1486.6	1448.5	1331.0	1195.2	1099.4
32.5°	1386.6	1390.8	1395.4	1403.8	1410.1	1455.6	1492.0	1409.6	1258.7	1112.4	1020.9
35°	1423.8	1428.9	1437.6	1450.6	1458.1	1499.5	1492.0	1352.8	1174.7	1041.3	939.8
37.5°	1504.9	1510.0	1520.4	1530.4	1538.0	1554.7	1485.7	1280.5	1104.5	967.8	867.0
40°	1635.4	1642.5	1650.0	1648.3	1643.3	1627.0	1473.2	1213.2	1039.7	903.4	795.5
42.5°	1818.9	1812.2	1811.4	1795.1	1778.3	1708.5	1464.0	1169.3	984.1	835.7	724.5
45°	2030.8	2003.7	1975.7	1953.9	1928.4	1798.0	1461.5	1133.7	922.6	760.4	647.1
47.5°	2244.0	2200.6	2146.2	2112.4	2071.0	1893.3	1469.0	1086.1	843.6	678.5	574.8
50°	2453.1	2382.0	2314.7	2274.1	2227.3	2002.8	1481.1	1005.8	749.1	604.1	508.8
52.5°	2646.6	2555.1	2486.1	2438.4	2381.2	2130.3	1470.3	900.5	667.2	532.6	446.1
55°	2830.6	2729.4	2657.9	2607.7	2540.4	2258.3	1391.7	804.7	589.0	462.8	375.4
57.5°	2991.5	2894.5	2820.1	2752.0	2695.1	2369.5	1236.6	725.7	513.8	382.9	298.9
60°	3179.6	3070.5	2982.3	2909.6	2842.7	2426.7	1062.7	655.5	433.5	296.4	216.1
62.5°	3433.4	3308.0	3206.0	3122.8	3035.4	2439.3	943.9	585.3	344.0	214.5	157.2
65°	3809.6	3654.9	3527.4	3412.9	3294.6	2387.4	885.4	508.8	255.8	159.3	131.7
67.5°	4108.5	3948.0	3800.4	3653.3	3501.9	2291.3	872.5	438.1	196.5	135.4	118.3
69°	4072.1	3919.1	3783.7	3624.4	3456.8	2170.5	859.5	410.9	179.3	125.8	112.0
70°	3932.1	3787.0	3649.5	3519.9	3314.6	2035.9	825.2	395.9	172.7	121.2	107.4
72.5°	3322.6	3154.5	3021.2	2859.8	2643.7	1512.9	625.8	320.2	158.4	110.8	97.0
75°	2423.4	2284.2	2151.2	1972.7	1762.5	875.4	389.6	183.1	116.2	100.3	87.8
77.5°	1415.1	1383.7	1255.4	1137.9	929.7	445.6	223.7	109.5	90.3	91.1	77.3
80°	532.6	567.3	580.2	539.7	498.7	307.7	162.6	89.0	78.6	89.9	65.6
82.5°	388.4	450.6	458.2	438.9	408.4	286.8	130.0	71.5	64.0	96.6	56.4
85°	324.0	358.7	364.1	344.0	334.0	242.9	90.7	50.2	46.8	69.4	42.2
87.5°	163.9	172.7	177.2	160.5	161.4	113.3	36.4	21.3	25.5	29.7	23.4
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: P157883

CATALOG NUMBER: VTS-F03-LED-E1-RW-8030

CANDELA DISTRIBUTION (continued):

	175°	180°
0°	1237.0	1237.0
2.5°	1219.8	1222.4
5°	1221.5	1221.5
7.5°	1231.1	1231.1
10°	1241.6	1242.0
12.5°	1251.2	1250.8
15°	1258.7	1257.5
17.5°	1263.3	1262.1
20°	1258.7	1256.6
22.5°	1235.3	1229.5
25°	1192.7	1185.1
27.5°	1136.2	1131.2
30°	1062.7	1055.1
32.5°	976.5	972.8
35°	894.2	889.6
37.5°	818.9	817.7
40°	755.4	748.7
42.5°	681.0	678.1
45°	605.3	603.7
47.5°	534.3	532.6
50°	468.6	465.3
52.5°	404.2	398.8
55°	332.8	329.0
57.5°	255.4	252.1
60°	179.8	176.0
62.5°	127.9	123.7
65°	106.6	103.3
67.5°	96.6	92.8
69°	92.0	88.6
70°	89.0	86.5
72.5°	82.8	81.1
75°	75.7	74.4
77.5°	66.5	64.4
80°	55.6	53.5
82.5°	46.8	44.7
85°	31.4	28.4
87.5°	14.2	12.5
90°	0.0	0.0

(END OF REPORT)