

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: P159638

Luminaire Tested: **VTS-E03-LED-E1-T4-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P159638  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33707)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: VTS-E03-LED-E1-T4-8030  
Description: VENTUS LED SITE LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4  
Light Source: (63) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7536.1 lumens  
Efficiency: N/A  
Efficacy: 100.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

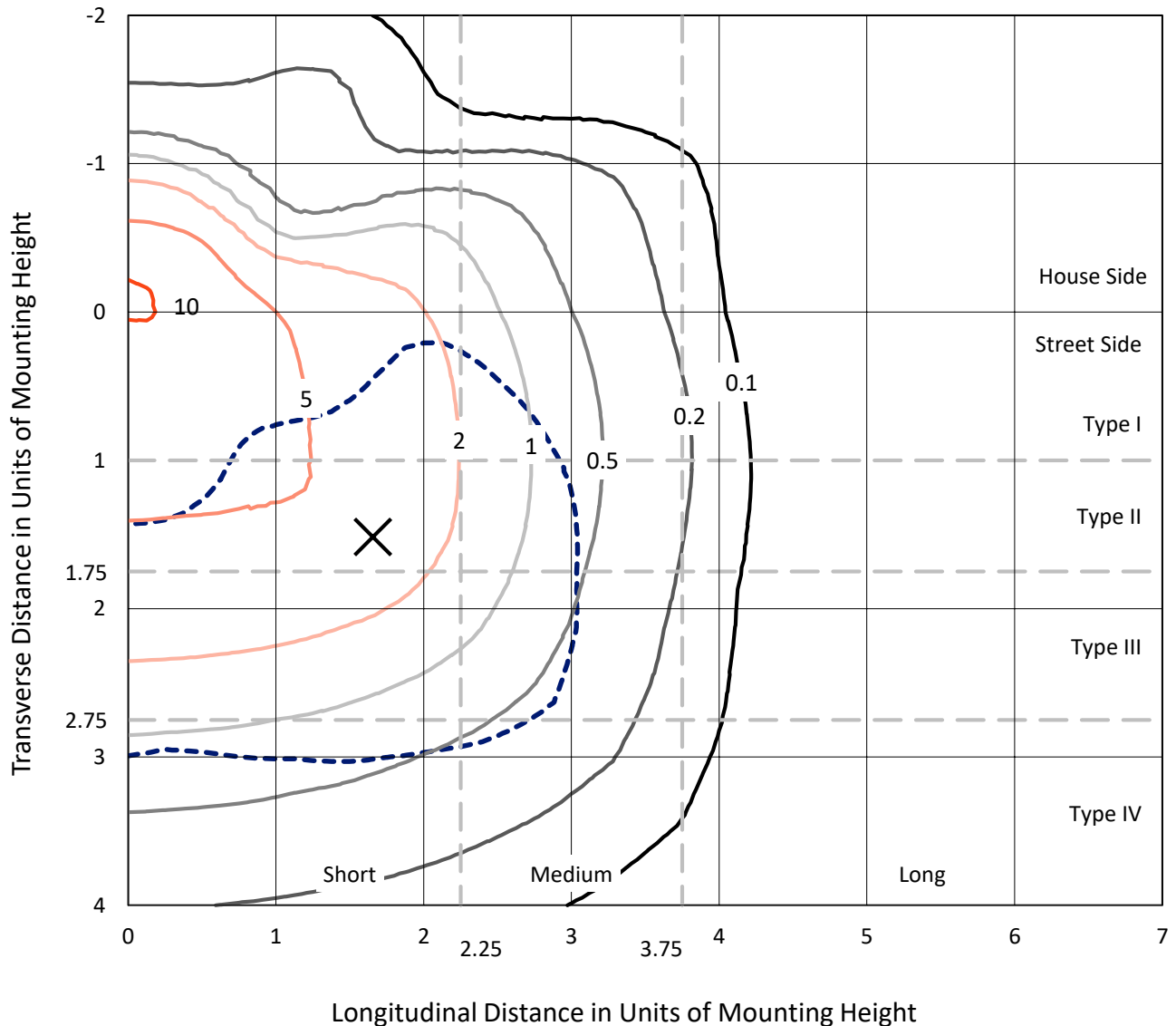
Input Watts (W): 75.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

REPORT NUMBER: P159638

CATALOG NUMBER: VTS-E03-LED-E1-T4-8030

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

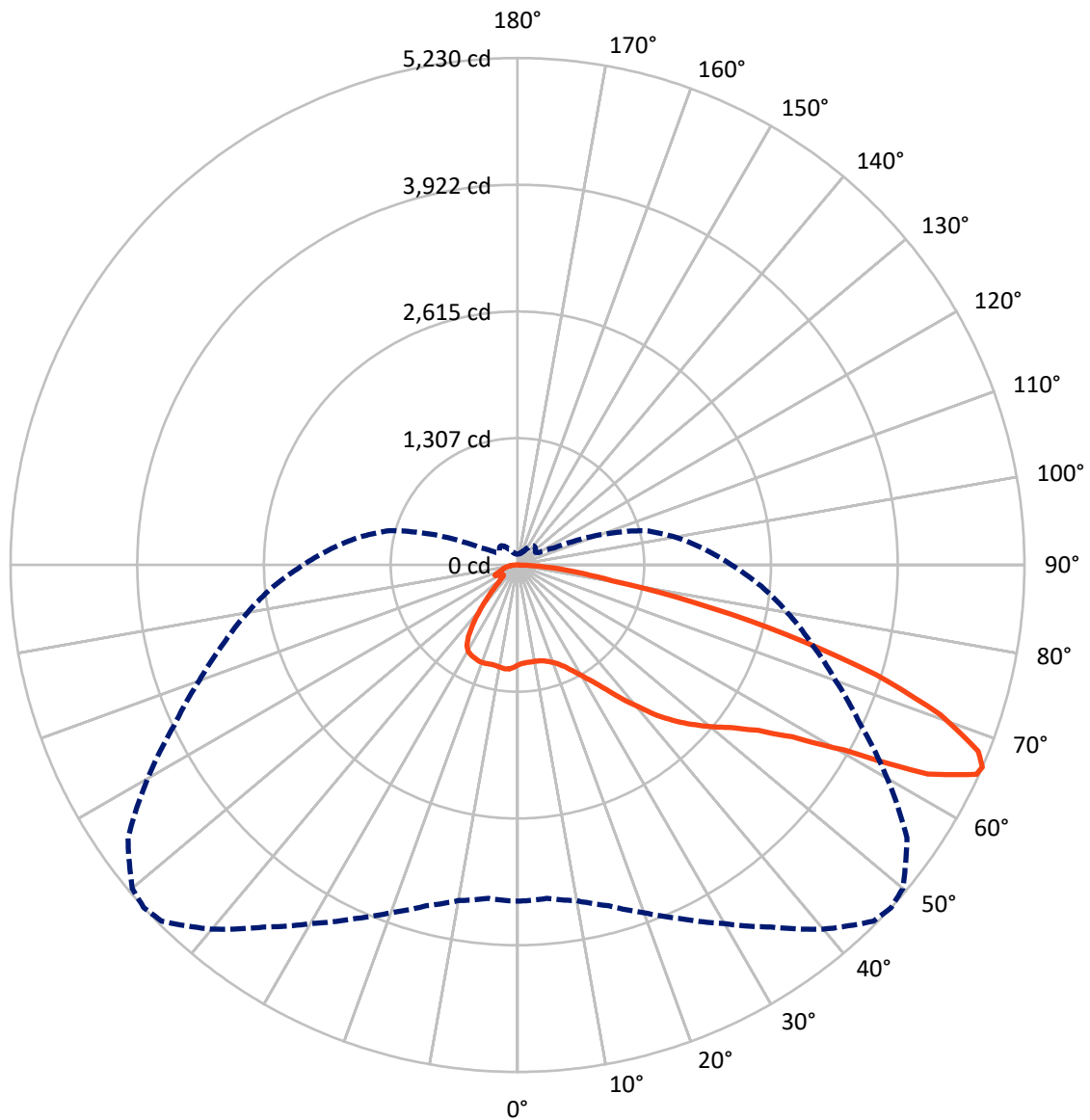


Based on 10 foot mounting height. Maximum calculated value = 10.5 fc  
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P159638

CATALOG NUMBER: VTS-E03-LED-E1-T4-8030

### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P159638

CATALOG NUMBER: VTS-E03-LED-E1-T4-8030

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1560.3	0.0	1560.3
	% Fixture	20.7	0.0	20.7
<b>Street Side</b>	Lumens	5975.8	0.0	5975.8
	% Fixture	79.3	0.0	79.3
<b>Total</b>	Lumens	7536.1	0.0	7536.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.4	1.3
10°-20°	298.0	4.0
20°-30°	508.5	6.7
30°-40°	767.4	10.2
40°-50°	997.5	13.2
50°-60°	1368.5	18.2
60°-70°	2105.1	27.9
70°-80°	1216.9	16.1
80°-90°	174.8	2.3
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°	7536.1	100.0
0°-180°	7536.1	100.0



REPORT NUMBER: P159638

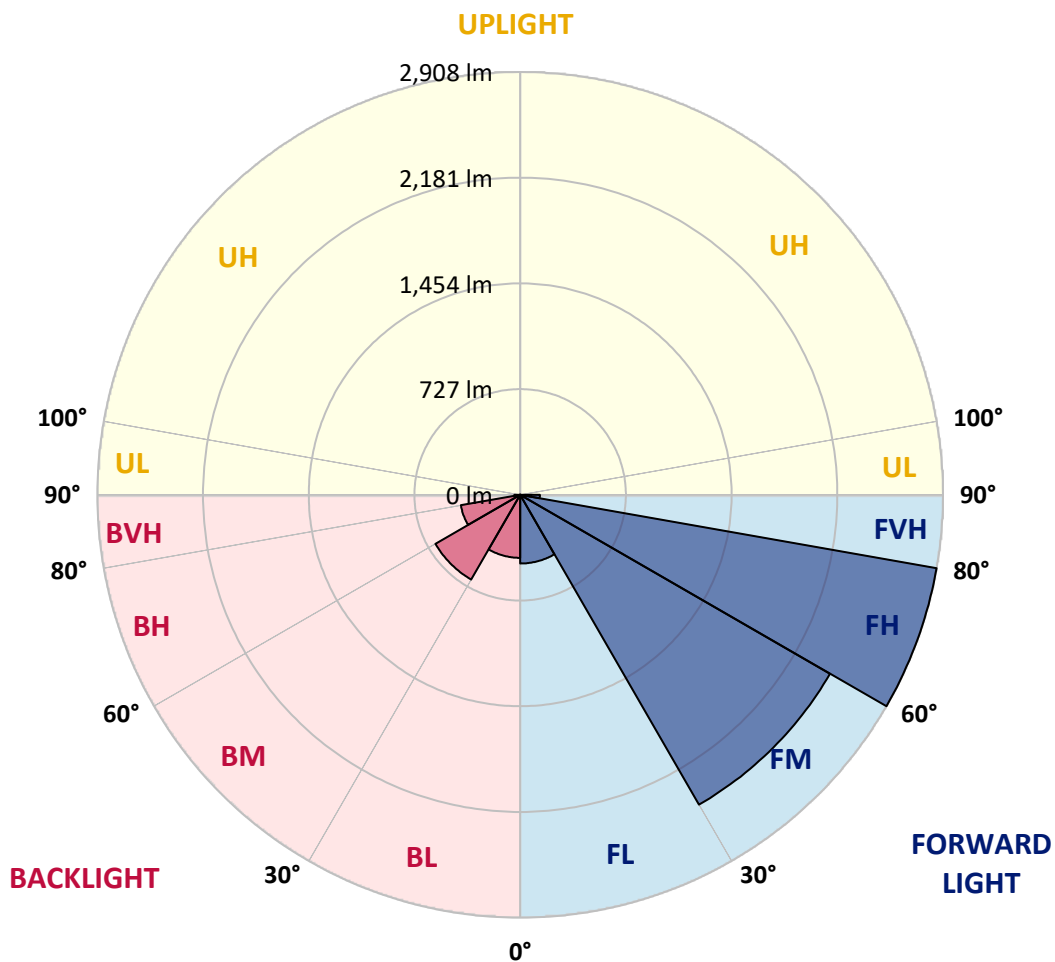
CATALOG NUMBER: VTS-E03-LED-E1-T4-8030

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	472.4	6.3			
FM	(30°-60°)	2460.2	32.6			
FH	(60°-80°)	2907.9	38.6			G2/5000
FVH	(80°-90°)	135.3	1.8			G2/225
BL	(0°-30°)	433.5	5.8	B1/500		
BM	(30°-60°)	673.2	8.9	B1/1000		
BH	(60°-80°)	414.1	5.5	B1/500		G1/500
BVH	(80°-90°)	39.5	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 IV Short





REPORT NUMBER: P159638

CATALOG NUMBER: VTS-E03-LED-E1-T4-8030

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	1031.0	1031.0	1031.0	1031.0	1031.0	1031.0	1031.0	1031.0	1031.0	1031.0	1031.0
2.5°	1004.7	1005.2	1005.7	1005.7	1007.2	1007.2	1009.8	1011.3	1011.8	1014.8	1016.8
5°	986.0	985.4	986.0	987.0	989.5	991.5	996.6	1000.1	1003.2	1008.2	1010.8
7.5°	977.8	978.9	979.9	980.4	982.4	987.5	992.0	995.6	1001.6	1007.7	1010.3
10°	988.5	990.0	988.5	989.5	989.5	994.1	996.1	998.6	1003.2	1008.7	1010.3
12.5°	1013.3	1016.3	1013.3	1010.8	1008.7	1012.8	1011.8	1009.8	1012.3	1013.8	1013.8
15°	1054.3	1054.3	1052.3	1048.7	1043.7	1044.2	1039.6	1035.1	1033.0	1029.5	1027.0
17.5°	1094.3	1093.3	1088.7	1084.2	1080.6	1079.1	1072.5	1066.5	1059.4	1053.8	1047.7
20°	1133.3	1137.4	1131.8	1125.2	1119.6	1116.1	1111.0	1098.9	1090.3	1081.2	1075.1
22.5°	1200.7	1197.1	1191.0	1181.4	1175.8	1169.8	1159.1	1146.0	1132.8	1121.7	1114.1
25°	1270.0	1266.5	1257.9	1250.8	1242.7	1237.6	1226.0	1209.8	1197.1	1179.9	1169.8
27.5°	1344.5	1341.4	1331.3	1325.7	1320.2	1314.1	1304.0	1287.3	1275.6	1255.9	1245.2
30°	1428.5	1428.0	1414.4	1413.3	1405.2	1398.7	1391.6	1377.4	1365.7	1346.0	1333.3
32.5°	1518.2	1516.1	1506.5	1503.5	1509.1	1504.5	1494.4	1479.7	1464.5	1452.8	1438.7
35°	1645.8	1642.2	1636.7	1639.2	1642.7	1655.4	1639.7	1627.0	1608.8	1593.6	1573.9
37.5°	1739.0	1733.9	1740.5	1754.7	1774.9	1784.5	1798.2	1798.7	1790.1	1769.8	1752.6
40°	1824.5	1822.5	1837.7	1857.5	1894.9	1922.3	1948.1	1960.8	1963.8	1950.6	1924.8
42.5°	1897.0	1903.0	1923.3	1953.7	2006.3	2047.9	2096.0	2125.8	2144.6	2137.5	2125.8
45°	1983.0	1986.1	2010.9	2049.4	2099.5	2168.4	2231.7	2282.3	2315.2	2314.7	2301.6
47.5°	2090.9	2091.4	2112.7	2157.7	2211.4	2281.3	2361.3	2428.7	2472.2	2474.2	2464.1
50°	2219.0	2218.0	2241.3	2283.8	2341.1	2408.4	2493.5	2577.5	2638.3	2638.3	2623.6
52.5°	2384.1	2382.1	2394.7	2432.2	2487.4	2558.3	2642.9	2740.1	2805.9	2820.1	2788.2
55°	2604.4	2607.4	2610.5	2643.4	2690.5	2746.7	2843.9	2933.5	3021.7	3029.8	3011.0
57.5°	2859.1	2849.0	2870.8	2924.4	2978.1	3048.5	3117.4	3223.2	3327.5	3345.2	3342.7
60°	3257.1	3244.0	3266.2	3334.6	3393.9	3504.8	3622.7	3759.5	3883.0	3919.5	3875.4
62.5°	3623.3	3639.5	3669.8	3749.3	3835.4	3983.3	4160.5	4395.0	4629.5	4757.1	4748.0
65°	3590.3	3575.1	3633.4	3741.7	3897.7	4086.1	4306.4	4588.9	4926.7	5182.9	5205.7
66°	3468.3	3452.6	3515.4	3639.5	3817.7	4027.4	4271.9	4559.6	4904.9	5194.6	5229.5
67.5°	3266.8	3251.1	3321.9	3434.9	3618.7	3882.5	4146.9	4461.3	4820.4	5097.9	5126.2
70°	2877.8	2856.6	2911.8	3039.4	3188.3	3443.5	3695.2	4028.4	4397.0	4618.8	4629.5
72.5°	2437.8	2388.2	2446.9	2545.1	2651.5	2862.6	3081.9	3309.8	3603.5	3808.6	3867.3
75°	1768.8	1794.7	1811.9	1876.7	1947.1	2121.8	2250.4	2441.3	2668.7	2817.1	2864.2
77.5°	938.3	977.3	1001.6	1066.5	1182.9	1316.1	1455.4	1573.4	1722.8	1805.8	1863.5
80°	526.7	554.0	593.5	644.6	701.4	803.6	886.2	947.0	968.2	982.9	996.1
82.5°	289.7	359.0	417.8	453.2	486.6	527.7	576.8	627.4	643.6	619.3	606.7
85°	45.1	66.3	202.1	246.6	268.4	299.8	335.2	372.7	373.2	321.1	350.4
87.5°	12.7	14.2	28.9	43.5	42.5	34.4	42.5	77.5	45.6	22.8	26.3
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: P159638

CATALOG NUMBER: VTS-E03-LED-E1-T4-8030

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	1031.0	1031.0	1031.0	1031.0	1031.0	1031.0	1031.0	1031.0	1031.0	1031.0	1031.0
2.5°	1017.9	1018.9	1021.4	1023.9	1026.5	1029.0	1030.5	1033.0	1035.1	1038.1	1041.7
5°	1013.8	1016.3	1020.9	1026.5	1031.5	1036.1	1039.6	1044.7	1049.2	1053.3	1059.4
7.5°	1013.8	1018.9	1026.5	1032.5	1037.1	1042.7	1048.2	1053.3	1058.4	1062.4	1066.5
10°	1014.3	1019.4	1027.0	1034.1	1039.1	1045.2	1049.8	1054.3	1059.9	1062.4	1067.5
12.5°	1016.3	1018.4	1023.9	1031.0	1037.1	1043.2	1047.7	1052.3	1058.4	1059.4	1062.9
15°	1026.5	1023.4	1024.9	1030.0	1036.6	1041.7	1046.7	1050.3	1054.3	1053.3	1056.3
17.5°	1045.2	1037.6	1034.6	1035.1	1038.1	1041.7	1043.7	1044.2	1044.7	1040.1	1040.6
20°	1070.5	1059.9	1052.8	1049.2	1045.2	1041.7	1036.1	1029.5	1023.4	1014.3	1013.3
22.5°	1108.5	1092.8	1085.2	1075.6	1063.4	1048.2	1034.6	1018.4	1005.2	991.5	986.5
25°	1163.7	1147.5	1139.4	1124.2	1102.4	1080.6	1060.9	1039.1	1019.9	1003.7	996.1
27.5°	1237.6	1221.4	1212.8	1197.1	1170.3	1148.5	1121.2	1097.9	1074.6	1050.8	1041.1
30°	1327.3	1313.1	1303.5	1290.8	1267.5	1243.7	1211.8	1175.8	1138.9	1100.9	1082.2
32.5°	1433.1	1417.4	1410.3	1395.6	1371.3	1346.5	1311.1	1265.0	1203.2	1143.4	1106.0
35°	1565.3	1547.5	1539.4	1520.2	1491.8	1455.4	1417.4	1355.6	1272.1	1189.0	1127.7
37.5°	1742.0	1702.5	1675.7	1631.6	1586.0	1534.9	1480.7	1417.4	1318.7	1215.9	1130.8
40°	1898.5	1858.5	1806.8	1743.5	1672.6	1602.2	1540.5	1468.5	1361.2	1235.1	1121.2
42.5°	2092.9	2022.0	1939.5	1853.9	1759.7	1673.1	1599.7	1515.1	1390.1	1240.2	1094.3
45°	2270.7	2186.1	2075.7	1961.8	1844.8	1735.9	1653.4	1559.2	1414.9	1240.2	1061.9
47.5°	2432.7	2331.4	2199.3	2057.5	1921.3	1802.3	1708.6	1604.3	1449.8	1255.9	1052.3
50°	2582.6	2466.1	2315.7	2151.2	1998.2	1871.1	1770.4	1662.0	1503.0	1296.4	1075.6
52.5°	2740.6	2617.0	2433.7	2259.0	2090.4	1954.2	1846.8	1733.4	1571.8	1360.2	1116.6
55°	2947.7	2802.9	2594.8	2402.3	2217.0	2066.6	1944.6	1819.0	1647.3	1432.1	1166.7
57.5°	3274.3	3064.2	2856.1	2605.9	2431.2	2233.2	2099.5	1955.2	1769.8	1525.8	1242.2
60°	3846.1	3587.8	3337.6	3050.0	2834.3	2627.2	2425.1	2236.7	2013.4	1737.4	1407.8
62.5°	4662.4	4400.1	4007.1	3655.2	3329.5	3055.1	2791.8	2552.2	2265.6	1963.8	1611.9
65°	5150.0	4849.7	4381.3	3908.4	3512.9	3172.6	2871.3	2578.1	2268.6	1974.4	1673.6
66°	5189.0	4904.9	4404.6	3904.8	3494.1	3141.2	2827.7	2524.4	2207.4	1925.8	1653.4
67.5°	5116.6	4872.0	4357.0	3835.9	3416.1	3034.8	2712.8	2394.7	2076.2	1815.4	1586.0
70°	4605.7	4428.9	3987.4	3499.2	3080.4	2744.2	2404.4	2098.5	1796.7	1577.4	1407.3
72.5°	3775.7	3551.9	3243.0	2914.8	2585.1	2286.9	1978.0	1717.7	1464.5	1305.0	1184.5
75°	2773.5	2572.0	2231.7	2027.1	1809.3	1622.0	1413.9	1167.2	987.5	907.5	878.1
77.5°	1758.2	1539.4	1252.3	1026.5	882.6	758.6	598.1	475.5	380.8	396.5	439.0
80°	888.2	765.2	572.7	452.2	390.9	325.1	257.2	195.0	142.3	162.6	183.8
82.5°	570.2	476.0	379.3	298.8	252.2	222.3	177.7	129.1	96.2	108.4	132.7
85°	343.3	290.2	231.4	189.4	164.6	137.2	100.8	71.4	70.9	76.0	93.7
87.5°	52.2	74.4	43.0	46.1	48.6	52.2	46.1	39.0	33.9	44.1	55.7
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: P159638

CATALOG NUMBER: VTS-E03-LED-E1-T4-8030

**CANDELA DISTRIBUTION (continued):**

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1031.0	1031.0	1031.0	1031.0	1031.0	1031.0	1031.0	1031.0	1031.0	1031.0	1031.0
2.5°	1045.2	1046.2	1048.2	1050.8	1050.3	1053.8	1055.8	1053.8	1058.4	1058.4	1060.9
5°	1064.4	1066.0	1069.5	1072.0	1073.1	1076.1	1077.1	1076.6	1077.6	1078.1	1079.1
7.5°	1070.0	1074.1	1075.6	1077.1	1077.6	1078.6	1078.6	1077.6	1077.6	1077.1	1078.1
10°	1068.5	1070.0	1071.0	1070.5	1070.5	1069.5	1069.0	1068.5	1068.5	1067.5	1069.0
12.5°	1063.4	1063.4	1063.4	1062.4	1062.4	1061.9	1061.9	1061.9	1062.9	1063.4	1066.0
15°	1053.3	1053.3	1054.3	1053.8	1055.3	1057.9	1060.9	1062.9	1065.5	1066.0	1067.5
17.5°	1037.6	1038.1	1041.1	1047.7	1054.3	1061.9	1067.5	1069.0	1067.0	1061.9	1058.4
20°	1010.3	1016.8	1029.0	1044.7	1059.4	1069.0	1071.5	1065.5	1055.8	1042.7	1035.6
22.5°	986.0	999.1	1020.9	1046.7	1064.9	1071.5	1063.9	1049.8	1032.5	1017.3	1006.7
25°	995.6	1010.8	1033.6	1055.8	1067.5	1063.9	1048.7	1028.5	1010.3	992.5	975.3
27.5°	1036.1	1051.3	1067.5	1074.1	1070.0	1056.8	1035.6	1013.8	989.5	964.2	942.9
30°	1074.6	1083.2	1084.2	1077.6	1062.9	1041.7	1016.8	991.5	960.6	930.2	903.4
32.5°	1086.7	1076.6	1058.4	1039.6	1019.4	997.6	968.7	935.3	902.4	868.0	838.1
35°	1083.2	1042.2	997.1	957.1	932.8	908.0	881.6	837.1	800.1	770.7	751.5
37.5°	1051.3	976.3	907.0	848.7	810.7	781.4	742.4	705.4	673.5	660.3	644.6
40°	1006.7	892.3	796.1	714.5	675.0	637.6	594.0	565.6	556.5	544.4	544.9
42.5°	942.9	794.0	670.0	576.3	533.2	492.2	461.3	444.6	445.1	435.0	437.0
45°	875.6	695.3	539.3	446.1	403.6	368.7	351.4	346.4	346.9	347.4	344.3
47.5°	834.5	618.3	432.5	338.3	300.8	281.0	271.9	269.4	269.9	270.4	266.9
50°	828.5	578.3	361.1	258.8	234.5	223.3	218.8	216.2	216.2	214.2	211.2
52.5°	845.7	568.2	326.1	224.3	201.0	190.9	187.4	185.3	182.3	178.3	172.7
55°	873.0	577.3	315.5	212.7	189.9	179.8	175.2	174.2	169.1	161.5	152.4
57.5°	923.7	610.2	322.6	215.7	191.9	182.8	179.8	178.8	171.7	160.0	148.4
60°	1069.0	705.9	358.0	232.9	206.6	199.0	199.0	197.5	187.9	171.2	154.5
62.5°	1269.5	846.2	406.1	256.7	226.9	225.9	234.5	235.0	217.7	190.9	164.6
65°	1366.3	912.0	422.8	261.8	232.4	244.1	261.3	261.3	237.0	200.0	166.1
66°	1366.8	910.5	417.8	255.7	226.4	241.6	259.3	259.3	234.0	197.5	163.6
67.5°	1331.8	882.1	401.1	244.6	212.7	226.9	242.6	242.1	219.3	187.4	156.5
70°	1194.6	780.4	353.5	226.4	196.5	197.0	202.6	199.0	183.8	162.0	142.3
72.5°	1030.0	652.7	306.4	214.7	183.8	174.2	169.6	166.6	157.0	143.8	131.7
75°	790.0	506.9	266.9	204.1	172.7	156.0	149.9	147.4	140.8	133.2	123.6
77.5°	484.1	347.4	226.4	186.9	160.0	144.8	138.2	133.2	126.6	119.5	112.9
80°	208.6	209.6	181.3	158.5	139.3	121.5	112.9	106.8	103.3	100.8	97.2
82.5°	145.8	150.4	138.2	123.1	106.3	93.7	86.1	84.6	85.1	85.1	84.1
85°	109.4	107.4	96.7	88.1	80.5	72.4	66.3	65.8	67.9	67.9	66.3
87.5°	63.3	63.8	54.7	51.1	53.2	45.6	41.5	42.0	47.1	46.6	45.6
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: P159638

CATALOG NUMBER: VTS-E03-LED-E1-T4-8030

**CANDELA DISTRIBUTION (continued):**

	160°	165°	170°	175°	180°
0°	1031.0	1031.0	1031.0	1031.0	1031.0
2.5°	1060.9	1062.4	1061.9	1063.4	1061.9
5°	1080.6	1080.1	1079.6	1081.7	1079.1
7.5°	1077.6	1078.1	1078.1	1078.1	1077.6
10°	1070.0	1072.0	1073.1	1075.1	1074.6
12.5°	1067.5	1070.5	1073.6	1076.6	1077.1
15°	1068.0	1070.0	1071.5	1073.1	1073.6
17.5°	1054.8	1054.3	1052.8	1051.8	1050.8
20°	1028.0	1025.4	1022.9	1018.9	1020.9
22.5°	994.6	987.5	979.4	972.8	972.3
25°	955.6	942.4	929.2	920.6	917.6
27.5°	921.1	905.4	891.8	884.2	882.1
30°	880.1	865.9	853.8	847.2	843.1
32.5°	819.3	808.2	793.0	787.9	787.4
35°	734.8	726.2	715.5	713.5	711.0
37.5°	639.1	636.0	631.0	624.9	623.9
40°	536.8	538.8	537.3	533.7	528.2
42.5°	438.0	441.6	442.1	444.6	447.1
45°	348.9	351.9	351.9	354.5	357.5
47.5°	267.9	265.9	267.4	269.9	271.4
50°	202.6	201.0	198.5	196.5	194.5
52.5°	163.1	160.0	152.9	150.9	148.9
55°	143.8	138.2	133.2	131.2	131.2
57.5°	138.2	131.2	125.6	123.1	122.0
60°	139.3	129.1	122.0	118.0	116.5
62.5°	143.8	129.6	120.0	115.5	113.9
65°	143.3	128.6	119.5	114.4	112.9
66°	140.8	127.1	118.5	113.9	112.9
67.5°	136.7	125.1	117.5	113.4	111.9
70°	128.6	121.0	115.5	111.9	110.4
72.5°	122.0	117.0	111.9	107.9	106.8
75°	116.0	110.9	106.3	104.3	102.8
77.5°	106.8	102.3	99.8	97.7	96.7
80°	94.7	91.7	88.6	86.6	85.1
82.5°	82.5	78.5	75.5	73.9	72.9
85°	67.4	64.8	60.3	57.2	56.7
87.5°	45.1	42.5	41.0	38.5	36.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)