

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: P150216

Luminaire Tested: **TMU-F03-LED-E-U-SL2-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P150216
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33678)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: TMU-F03-LED-E-U-SL2-7050
Description: TALON MEDIUM LED AREA LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (21) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7763.7 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

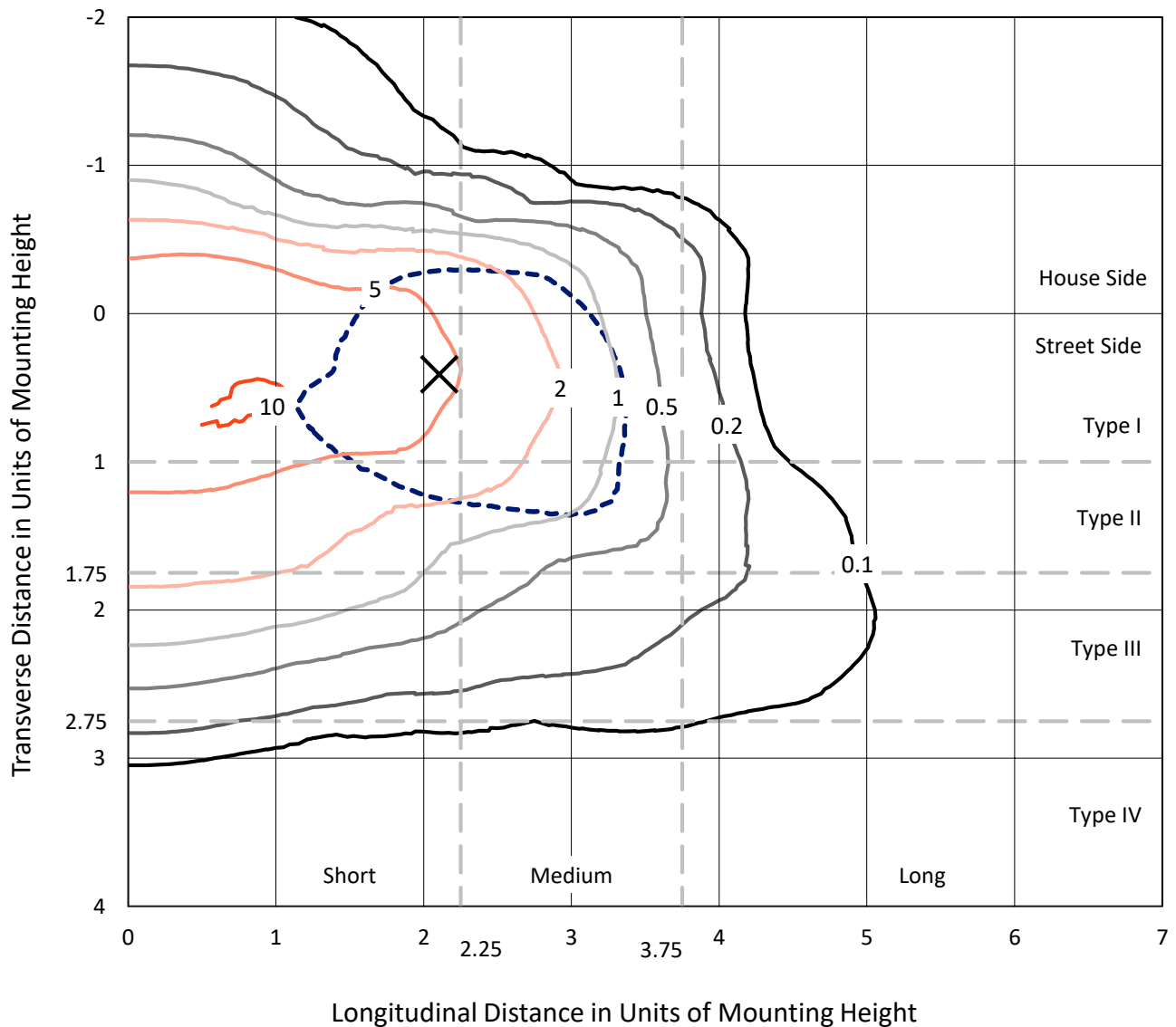
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

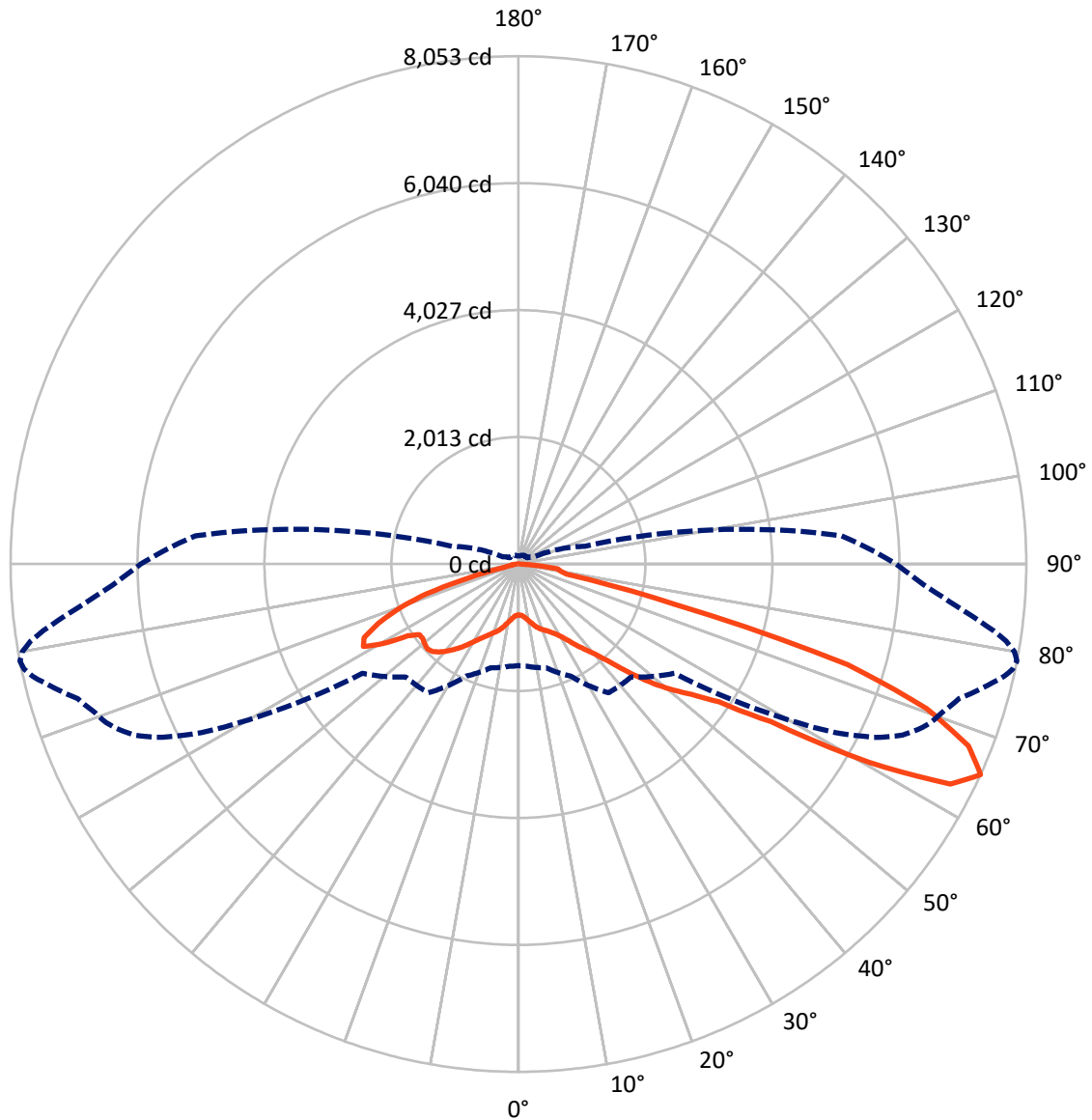
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.7 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	1835.3	0.0	1835.3
	% Fixture	23.6	0.0	23.6
Street Side	Lumens	5928.4	0.0	5928.4
	% Fixture	76.4	0.0	76.4
Total	Lumens	7763.7	0.0	7763.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.3	1.0
10°-20°	262.7	3.4
20°-30°	453.7	5.8
30°-40°	751.0	9.7
40°-50°	1273.7	16.4
50°-60°	1692.3	21.8
60°-70°	2186.0	28.2
70°-80°	916.8	11.8
80°-90°	147.3	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°	7763.7	100.0
0°-180°	7763.7	100.0



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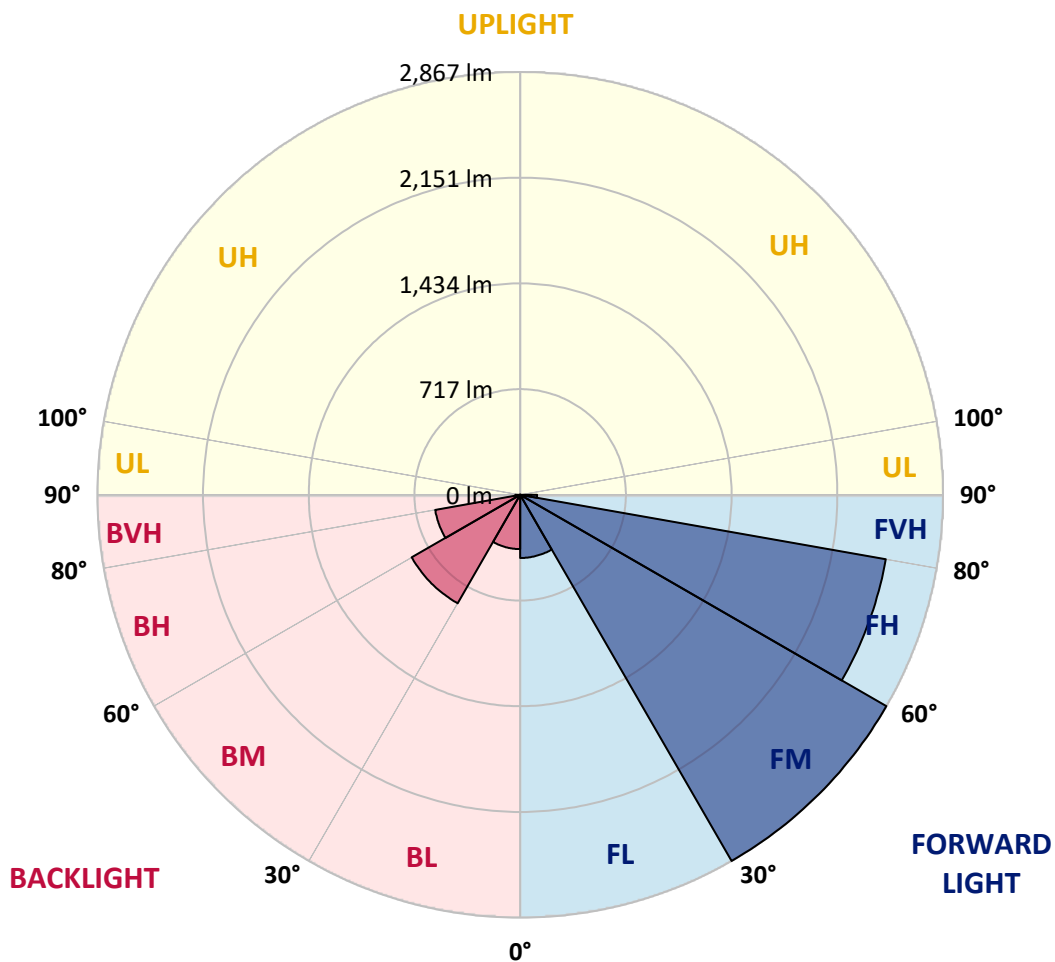
CATALOG NUMBER: TMU-F03-LED-E-U-SL2-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	428.4	5.5			
FM	(30°-60°)	2867.4	36.9			
FH	(60°-80°)	2517.5	32.4			G2/5000
FVH	(80°-90°)	115.2	1.5			G2/225
BL	(0°-30°)	368.3	4.7	B1/500		
BM	(30°-60°)	849.6	10.9	B1/1000		
BH	(60°-80°)	585.3	7.5	B2/1000		G2/1000
BVH	(80°-90°)	32.1	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1
2.5°	805.6	808.1	806.4	808.1	809.8	810.7	812.3	811.5	811.5	812.3	810.7
5°	805.6	805.6	808.1	812.3	814.0	819.1	825.1	824.2	825.1	824.2	825.9
7.5°	822.5	821.7	824.2	829.3	831.0	838.6	848.8	850.5	852.2	852.2	854.7
10°	852.2	851.3	853.9	856.4	858.9	864.9	879.3	885.2	886.0	886.9	890.3
12.5°	889.4	888.6	885.2	885.2	884.3	895.4	914.8	925.9	927.5	930.9	933.5
15°	915.7	913.1	908.1	904.7	908.9	926.7	955.5	968.2	969.9	972.4	979.2
17.5°	941.1	938.6	927.5	919.1	925.0	953.8	992.8	1006.3	1009.7	1012.3	1019.9
20°	976.7	975.0	958.9	938.6	936.9	974.1	1021.6	1039.4	1041.9	1045.3	1052.9
22.5°	1030.9	1023.3	1004.6	966.5	947.9	986.0	1041.9	1066.5	1069.9	1073.2	1083.4
25°	1098.7	1095.3	1063.1	1004.6	965.7	997.9	1063.9	1094.4	1099.5	1103.7	1117.3
27.5°	1169.0	1163.9	1129.2	1052.9	997.0	1021.6	1098.7	1133.4	1140.2	1146.9	1159.6
30°	1231.6	1230.0	1201.2	1118.1	1047.8	1066.5	1154.6	1196.9	1204.5	1213.0	1224.9
32.5°	1379.0	1379.9	1350.2	1265.5	1170.7	1147.8	1235.0	1298.6	1302.0	1312.1	1333.3
35°	1661.1	1664.5	1653.5	1586.6	1479.8	1385.8	1394.3	1457.0	1460.4	1468.8	1489.2
37.5°	1850.0	1856.8	1890.7	1911.8	1857.6	1814.4	1706.9	1682.3	1684.8	1679.8	1675.5
40°	1954.2	1964.4	2053.3	2163.4	2222.7	2223.6	2177.0	2068.6	2027.1	2015.2	1964.4
42.5°	2013.5	2030.4	2156.7	2344.7	2515.0	2631.9	2660.7	2540.4	2509.9	2455.7	2358.3
45°	2052.5	2072.8	2221.9	2479.4	2730.1	2929.2	3079.1	3025.8	3005.4	2972.4	2882.6
47.5°	2045.7	2061.8	2216.8	2525.1	2842.8	3125.7	3391.7	3446.8	3422.2	3413.7	3352.7
50°	1922.0	1936.4	2094.0	2411.6	2780.9	3200.3	3589.9	3745.8	3745.8	3761.9	3743.2
52.5°	1789.9	1801.7	1944.9	2230.4	2581.0	3127.4	3700.0	3958.4	3992.3	4020.2	4064.3
55°	1739.9	1754.3	1862.7	2106.7	2410.8	2919.0	3737.3	4117.6	4180.3	4227.8	4327.7
57.5°	1763.6	1778.0	1855.1	2039.8	2310.8	2706.4	3739.0	4331.9	4453.1	4550.5	4752.9
60°	1866.1	1879.7	1944.0	2101.6	2284.6	2583.6	3667.0	4673.3	4866.4	5049.4	5386.6
62.5°	1818.7	1835.6	1929.6	2204.1	2480.2	2490.4	3406.9	4937.6	5248.5	5518.7	6054.9
65°	1611.1	1628.9	1702.6	1959.3	2492.1	2531.1	3021.5	4942.7	5329.0	5694.0	6272.6
67.5°	1223.2	1230.0	1288.4	1494.2	1993.2	2576.0	2625.1	4357.4	4725.0	5132.4	5729.6
70°	625.1	637.0	653.9	825.1	1283.3	2128.7	2255.8	3211.3	3679.7	4100.7	4818.2
72.5°	216.9	221.1	238.0	315.1	625.1	1396.8	1974.5	2200.7	2483.6	2877.5	3708.5
75°	130.4	130.4	136.4	159.3	285.5	727.6	1756.8	1797.5	1835.6	1967.8	2511.6
77.5°	103.3	105.0	105.0	109.3	158.4	373.6	1334.1	1671.3	1676.4	1689.1	1780.6
80°	73.7	77.1	83.9	87.2	102.5	205.0	748.8	1467.1	1567.1	1615.4	1682.3
82.5°	55.1	58.4	71.2	75.4	79.6	114.4	336.3	1012.3	1194.4	1290.9	1526.4
85°	24.6	28.8	48.3	53.4	55.9	61.0	157.6	288.0	331.2	371.9	490.5
87.5°	4.2	4.2	7.6	11.0	16.1	15.2	34.7	49.1	50.0	58.4	65.2
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1
2.5°	810.7	810.7	810.7	809.8	810.7	810.7	810.7	810.7	811.5	811.5	811.5
5°	828.4	826.7	827.6	827.6	827.6	826.7	828.4	827.6	828.4	831.0	830.1
7.5°	854.7	856.4	857.2	858.1	858.1	858.1	858.9	860.6	860.6	863.2	862.3
10°	893.7	892.8	893.7	896.2	898.7	899.6	902.1	901.3	903.0	906.4	909.8
12.5°	935.2	936.9	939.4	941.9	946.2	947.0	949.6	950.4	955.5	955.5	958.9
15°	981.8	982.6	987.7	988.5	993.6	995.3	999.5	1001.2	1007.2	1008.0	1011.4
17.5°	1024.1	1025.8	1028.3	1030.9	1036.8	1039.4	1042.8	1046.1	1051.2	1052.9	1058.8
20°	1058.0	1061.4	1062.2	1067.3	1072.4	1075.8	1079.2	1082.6	1087.6	1090.2	1096.1
22.5°	1088.5	1091.9	1094.4	1098.7	1102.0	1107.1	1108.8	1114.8	1119.8	1124.1	1129.2
25°	1121.5	1126.6	1129.2	1136.8	1139.3	1144.4	1148.6	1154.6	1161.3	1166.4	1173.2
27.5°	1168.1	1175.7	1179.1	1187.6	1193.5	1196.1	1202.8	1211.3	1217.2	1223.2	1230.0
30°	1232.5	1246.9	1249.4	1255.4	1266.4	1268.1	1276.5	1283.3	1292.6	1298.6	1304.5
32.5°	1332.4	1350.2	1351.9	1358.7	1368.0	1371.4	1378.2	1385.8	1400.2	1402.8	1412.1
35°	1485.8	1493.4	1500.2	1502.7	1510.3	1514.6	1519.7	1528.1	1542.5	1540.8	1551.0
37.5°	1669.6	1672.1	1673.0	1664.5	1666.2	1658.6	1667.9	1669.6	1674.7	1678.9	1689.1
40°	1932.2	1905.9	1902.5	1882.2	1861.9	1850.9	1846.6	1829.7	1833.9	1835.6	1844.1
42.5°	2315.9	2265.1	2222.7	2193.9	2143.9	2119.4	2086.3	2060.1	2039.8	2047.4	2050.8
45°	2802.1	2729.3	2661.5	2573.4	2508.2	2461.6	2403.2	2350.6	2326.9	2315.9	2329.5
47.5°	3287.5	3223.1	3143.5	3052.9	2949.5	2872.4	2775.0	2689.5	2630.2	2608.1	2620.0
50°	3706.8	3647.5	3587.4	3534.0	3413.7	3329.9	3196.9	3085.9	2992.7	2945.3	2932.6
52.5°	4055.0	4023.6	3991.4	3946.5	3850.0	3766.1	3660.2	3550.9	3427.3	3330.7	3297.7
55°	4365.8	4384.5	4368.4	4369.2	4331.1	4277.7	4187.9	4106.6	4020.2	3910.9	3865.2
57.5°	4819.0	4929.1	4951.2	5006.2	5033.3	5062.1	5087.5	5039.3	5017.2	4935.9	4936.8
60°	5533.1	5694.0	5833.8	5960.9	6065.1	6166.7	6273.4	6320.9	6373.4	6398.0	6481.8
62.5°	6292.9	6446.2	6654.6	6824.9	6920.6	7052.8	7168.8	7244.2	7336.5	7434.8	7562.7
65°	6481.0	6665.6	6796.9	6910.4	7005.3	7075.6	7139.2	7228.9	7306.0	7461.9	7612.7
67.5°	5999.0	6146.4	6266.7	6378.5	6452.2	6511.5	6568.2	6627.5	6759.7	6901.1	7052.8
70°	5149.4	5327.3	5526.3	5671.2	5707.6	5758.4	5812.6	5889.7	5955.8	6104.0	6219.2
72.5°	4137.1	4392.9	4561.5	4762.3	4805.5	4882.5	4913.0	4973.2	4985.0	5065.5	5096.0
75°	2883.4	3176.5	3345.9	3493.3	3522.1	3479.8	3496.7	3284.1	3229.9	3185.9	3150.3
77.5°	1903.4	1982.2	2009.3	1985.5	1872.0	1783.1	1688.2	1595.0	1605.2	1529.8	1397.7
80°	1692.5	1710.2	1685.7	1662.0	1596.7	1503.6	1418.0	1330.8	1287.6	1241.8	1174.0
82.5°	1646.7	1715.3	1723.0	1694.2	1642.5	1540.8	1437.5	1307.9	1197.8	1096.1	992.8
85°	550.6	670.0	723.4	773.4	788.6	806.4	745.4	662.4	562.5	495.5	388.0
87.5°	70.3	87.2	100.8	86.4	100.8	118.6	85.6	95.7	96.6	60.1	44.9
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1
2.5°	812.3	811.5	811.5	811.5	810.7	811.5	811.5	811.5	811.5	811.5	810.7
5°	831.0	831.0	833.5	834.4	832.7	831.8	832.7	833.5	833.5	832.7	833.5
7.5°	865.7	866.6	868.3	870.8	869.1	869.9	870.8	869.9	872.5	873.3	872.5
10°	909.8	911.5	915.7	916.5	915.7	919.1	919.9	918.2	919.9	919.9	923.3
12.5°	960.6	962.3	967.4	969.1	970.7	971.6	974.1	975.0	977.5	979.2	981.8
15°	1015.6	1017.3	1020.7	1026.7	1028.3	1030.0	1031.7	1036.8	1037.7	1041.1	1043.6
17.5°	1062.2	1064.8	1069.9	1074.1	1076.6	1080.9	1082.6	1088.5	1090.2	1095.3	1099.5
20°	1099.5	1103.7	1108.0	1113.1	1117.3	1122.4	1124.1	1130.0	1133.4	1135.9	1141.0
22.5°	1133.4	1138.5	1144.4	1150.3	1153.7	1160.5	1163.0	1165.6	1173.2	1176.6	1181.7
25°	1177.4	1182.5	1189.3	1196.9	1200.3	1208.8	1211.3	1215.6	1224.0	1227.4	1235.0
27.5°	1237.6	1244.4	1249.4	1257.1	1261.3	1267.2	1273.2	1278.2	1285.9	1290.9	1299.4
30°	1313.0	1318.0	1326.5	1332.4	1339.2	1347.7	1354.5	1359.6	1363.8	1371.4	1380.7
32.5°	1423.9	1424.8	1427.3	1441.7	1448.5	1455.3	1464.6	1468.8	1475.6	1483.2	1493.4
35°	1562.0	1569.6	1575.6	1582.3	1590.0	1597.6	1601.0	1613.7	1619.6	1629.8	1639.9
37.5°	1699.2	1700.1	1713.6	1717.9	1724.6	1732.3	1744.1	1756.8	1772.1	1782.2	1798.3
40°	1846.6	1853.4	1870.3	1878.8	1887.3	1905.9	1915.2	1935.6	1961.0	1975.4	2002.5
42.5°	2060.1	2070.3	2100.7	2114.3	2134.6	2165.1	2184.6	2212.6	2222.7	2257.5	2270.2
45°	2339.6	2371.0	2415.0	2443.8	2480.2	2513.3	2530.2	2542.9	2558.2	2585.3	2581.9
47.5°	2642.0	2682.7	2731.8	2791.1	2814.8	2853.8	2875.8	2900.4	2886.8	2880.1	2873.3
50°	2952.1	2999.5	3064.7	3118.1	3154.5	3178.2	3196.9	3193.5	3164.7	3149.4	3107.1
52.5°	3296.8	3324.8	3386.6	3432.4	3454.4	3459.5	3455.2	3429.8	3402.7	3354.4	3304.4
55°	3825.4	3812.7	3837.3	3858.4	3851.7	3875.4	3814.4	3790.7	3723.7	3661.1	3594.1
57.5°	4899.5	4916.4	4779.2	4717.4	4706.4	4728.4	4620.8	4607.2	4445.5	4425.1	4312.5
60°	6470.0	6553.0	6445.4	6385.3	6222.6	6169.3	6049.0	5999.0	5844.0	5718.6	5560.2
62.5°	7650.8	7726.2	7771.1	7685.5	7590.6	7450.9	7268.8	7067.2	6902.8	6710.5	6542.8
65°	7757.5	7910.0	8013.3	8053.1	7986.2	7832.9	7608.4	7354.3	7102.7	6861.3	6649.5
67.5°	7258.6	7395.0	7555.1	7698.2	7706.7	7606.7	7415.3	7156.9	6866.4	6568.2	6320.0
70°	6401.4	6572.5	6712.2	6863.0	6968.0	6910.4	6814.7	6577.5	6276.0	6043.9	5758.4
72.5°	5206.1	5278.1	5312.0	5460.2	5461.9	5356.9	5289.1	5157.8	4914.7	4750.4	4532.7
75°	3040.2	2881.8	2713.2	2566.6	2447.2	2397.2	2175.3	2138.0	1988.9	1896.6	1761.1
77.5°	1253.7	1112.2	930.1	778.5	628.5	560.8	462.5	419.3	363.4	338.8	322.7
80°	1074.9	941.1	803.9	672.6	555.7	438.8	341.4	265.1	208.4	177.0	164.3
82.5°	877.6	797.1	701.4	630.2	538.7	451.5	381.2	295.6	221.1	162.6	124.5
85°	316.8	260.1	209.2	192.3	153.3	126.2	105.9	90.6	74.5	59.3	52.5
87.5°	35.6	33.9	19.5	18.6	21.2	15.2	17.8	16.1	13.6	11.9	12.7
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):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1
2.5°	810.7	810.7	811.5	811.5	812.3	813.2	814.9	814.0	814.0	814.9	814.9
5°	833.5	836.1	835.2	835.2	835.2	836.1	836.9	833.5	830.1	826.7	825.1
7.5°	873.3	875.0	876.7	875.0	876.7	875.9	874.2	864.9	853.9	840.3	831.0
10°	925.0	925.0	926.7	925.9	929.2	926.7	921.6	900.4	876.7	847.9	826.7
12.5°	980.9	986.8	984.3	985.1	991.9	985.1	973.3	941.9	899.6	853.0	815.7
15°	1047.0	1049.5	1051.2	1048.7	1052.9	1047.0	1025.8	975.8	914.0	848.8	793.7
17.5°	1101.2	1102.0	1102.9	1104.6	1110.5	1103.7	1067.3	999.5	917.4	829.3	756.4
20°	1143.6	1147.8	1151.2	1151.2	1159.6	1149.5	1101.2	1011.4	906.4	797.1	709.0
22.5°	1187.6	1191.0	1195.2	1196.1	1207.1	1196.9	1129.2	1008.9	877.6	751.4	653.9
25°	1241.8	1245.2	1248.6	1252.8	1268.1	1253.7	1157.1	998.7	837.8	697.1	594.6
27.5°	1304.5	1312.1	1314.7	1321.4	1339.2	1317.2	1180.8	983.5	793.7	634.5	532.0
30°	1388.4	1397.7	1401.1	1410.4	1434.9	1386.7	1194.4	957.2	737.8	570.9	465.0
32.5°	1501.0	1513.7	1523.9	1534.1	1562.0	1456.1	1196.1	919.1	672.6	499.8	400.7
35°	1648.4	1667.9	1675.5	1682.3	1708.6	1531.5	1188.4	862.3	593.0	426.9	349.8
37.5°	1813.6	1833.1	1838.2	1841.5	1846.6	1595.9	1169.8	775.9	503.2	363.4	309.2
40°	2016.9	2033.8	2040.6	2035.5	2008.4	1645.9	1128.3	675.1	415.9	320.2	283.8
42.5°	2265.1	2290.5	2293.0	2270.2	2180.4	1673.8	1045.3	556.5	347.3	288.9	264.3
45°	2572.6	2570.9	2556.5	2540.4	2367.6	1662.8	929.2	453.2	304.1	264.3	246.5
47.5°	2848.7	2819.9	2797.9	2750.5	2532.8	1598.4	779.3	375.3	277.8	245.7	231.3
50°	3074.9	3022.4	2975.8	2924.1	2655.6	1484.1	630.2	318.5	253.3	229.6	216.9
52.5°	3253.6	3190.1	3135.9	3085.0	2774.2	1357.0	516.7	277.0	229.6	213.5	200.8
55°	3533.2	3469.6	3383.2	3327.3	2955.4	1240.1	443.0	244.0	206.7	196.5	183.8
57.5°	4240.5	4184.6	4081.2	3936.4	3421.3	1196.1	401.5	218.5	188.1	182.1	172.0
60°	5475.5	5384.9	5250.2	5102.8	4368.4	1225.7	368.5	200.8	175.3	170.3	162.6
62.5°	6407.3	6248.0	6095.6	5959.2	5125.7	1224.9	325.3	187.2	166.0	163.5	155.9
65°	6445.4	6283.6	6130.3	5987.1	5142.6	1090.2	274.5	175.3	164.3	163.5	150.8
67.5°	6103.2	5927.8	5779.6	5599.2	4760.6	852.2	220.2	167.7	171.1	169.4	149.1
70°	5544.1	5315.4	5193.4	5015.5	4189.6	596.3	181.3	170.3	185.5	180.4	151.6
72.5°	4351.4	4178.6	3993.1	3869.4	3279.9	376.9	152.5	172.0	191.4	183.0	158.4
75°	1619.6	1666.2	1590.0	1562.9	1666.2	221.1	135.5	160.1	171.1	158.4	144.0
77.5°	327.0	312.6	296.5	293.1	378.6	136.4	124.5	138.9	131.3	116.0	116.9
80°	156.7	152.5	147.4	146.5	140.6	113.5	115.2	118.6	99.1	89.8	95.7
82.5°	104.2	98.3	96.6	93.2	94.9	101.6	109.3	101.6	76.2	71.2	86.4
85°	48.3	46.6	45.7	45.7	50.8	91.5	90.6	74.5	52.5	50.8	86.4
87.5°	11.9	11.9	12.7	11.9	13.6	27.1	23.7	22.9	19.5	22.0	40.7
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: P150216

CATALOG NUMBER: TMU-F03-LED-E-U-SL2-7050

CANDELA DISTRIBUTION (continued):

	165°	175°	180°
0°	808.1	808.1	808.1
2.5°	814.0	814.9	814.0
5°	821.7	821.7	821.7
7.5°	821.7	819.1	818.3
10°	809.8	802.2	802.2
12.5°	789.5	776.8	775.1
15°	751.4	734.4	731.9
17.5°	703.1	680.2	676.0
20°	648.9	620.1	615.0
22.5°	589.6	556.5	554.0
25°	531.1	497.2	490.5
27.5°	465.9	432.9	429.5
30°	400.7	371.9	370.2
32.5°	345.6	327.8	324.4
35°	306.6	296.5	292.2
37.5°	281.2	273.6	272.8
40°	261.7	255.0	254.1
42.5°	245.7	239.7	238.9
45°	229.6	224.5	222.8
47.5°	213.5	208.4	207.5
50°	199.1	192.3	191.4
52.5°	185.5	178.7	177.0
55°	172.8	166.0	166.0
57.5°	161.8	155.0	154.2
60°	151.6	144.8	144.0
62.5°	144.0	135.5	134.7
65°	138.1	129.6	127.9
67.5°	134.7	124.5	122.0
70°	140.6	122.0	117.7
72.5°	141.5	119.4	113.5
75°	136.4	112.7	108.4
77.5°	119.4	100.8	96.6
80°	103.3	77.9	72.0
82.5°	98.3	63.5	55.1
85°	76.2	41.5	39.0
87.5°	43.2	22.9	18.6
90°	0.0	0.0	0.0

(END OF REPORT)