

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: P149651

Luminaire Tested: **TMU-E04-LED-E-U-SL2-HSS-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P149651
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: STREETWORKS
Catalog Number: TMU-E04-LED-E-U-SL2-HSS-7050
Description: TALON MEDIUM LED AREA LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (84) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7525.8 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

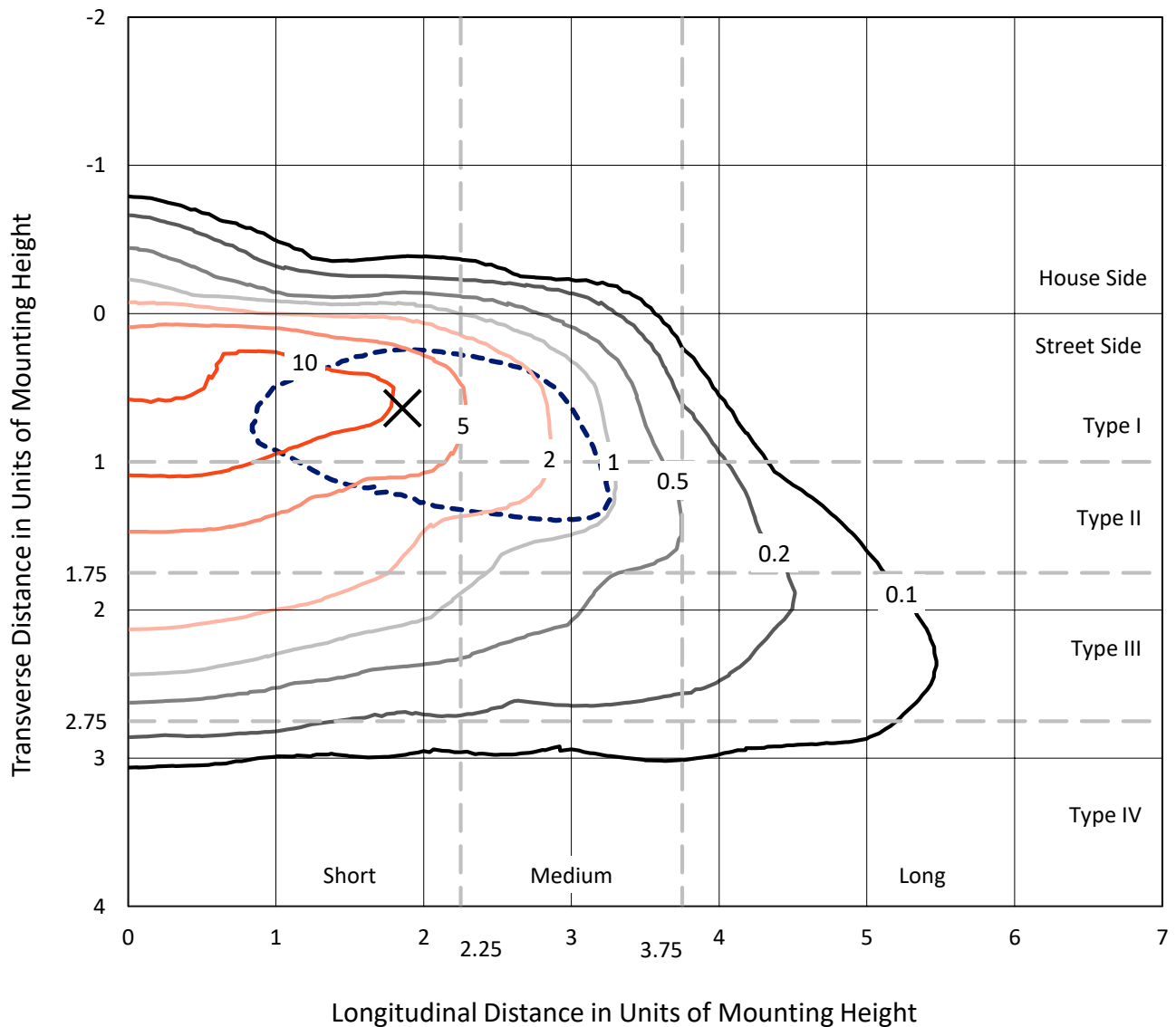
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

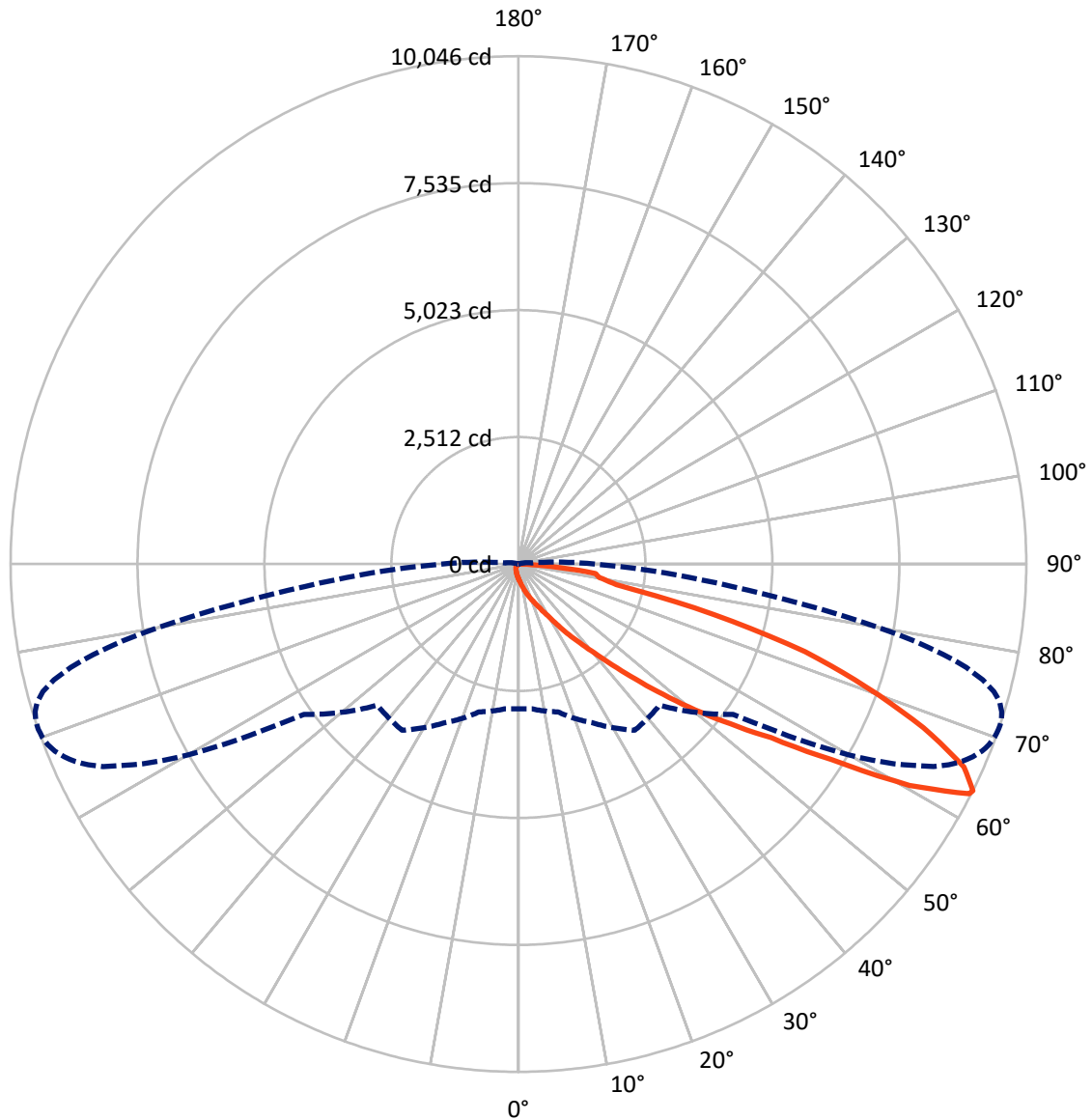


Based on 10 foot mounting height. Maximum calculated value = 15.8 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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



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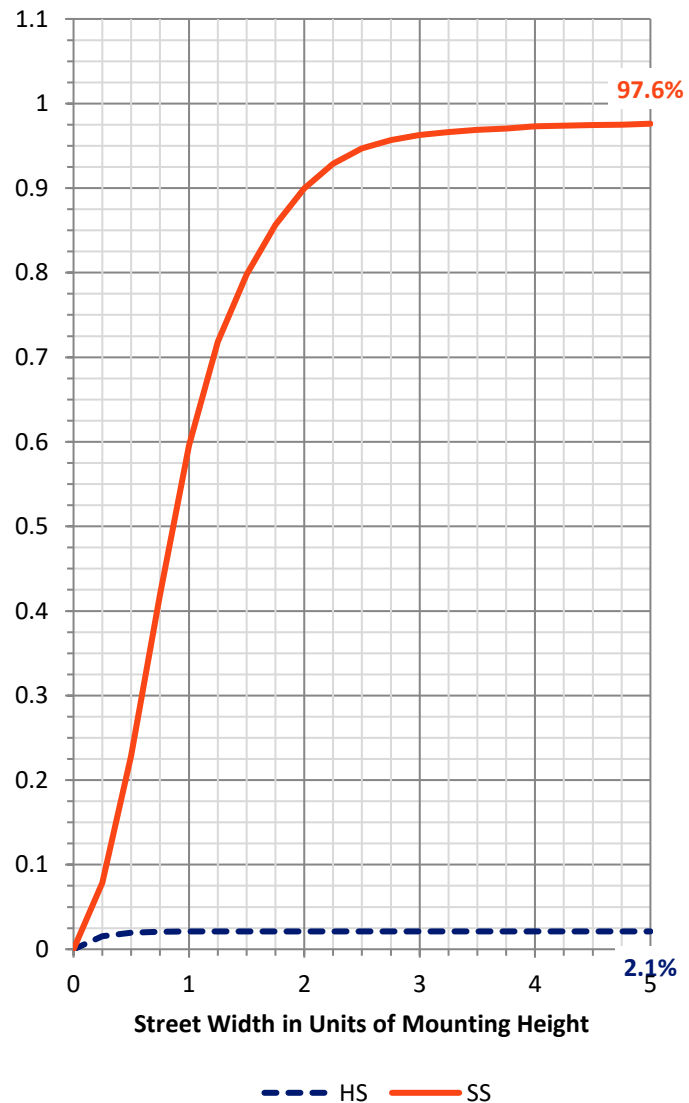
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	159.8	0.0	159.8
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	7366.0	0.0	7366.0
	% Fixture	97.9	0.0	97.9
Total	Lumens	7525.8	0.0	7525.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.9	0.4
10°-20°	123.7	1.6
20°-30°	251.3	3.3
30°-40°	614.1	8.2
40°-50°	1373.3	18.2
50°-60°	1931.0	25.7
60°-70°	2270.7	30.2
70°-80°	819.9	10.9
80°-90°	109.6	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°	7525.8	100.0
0°-180°	7525.8	100.0



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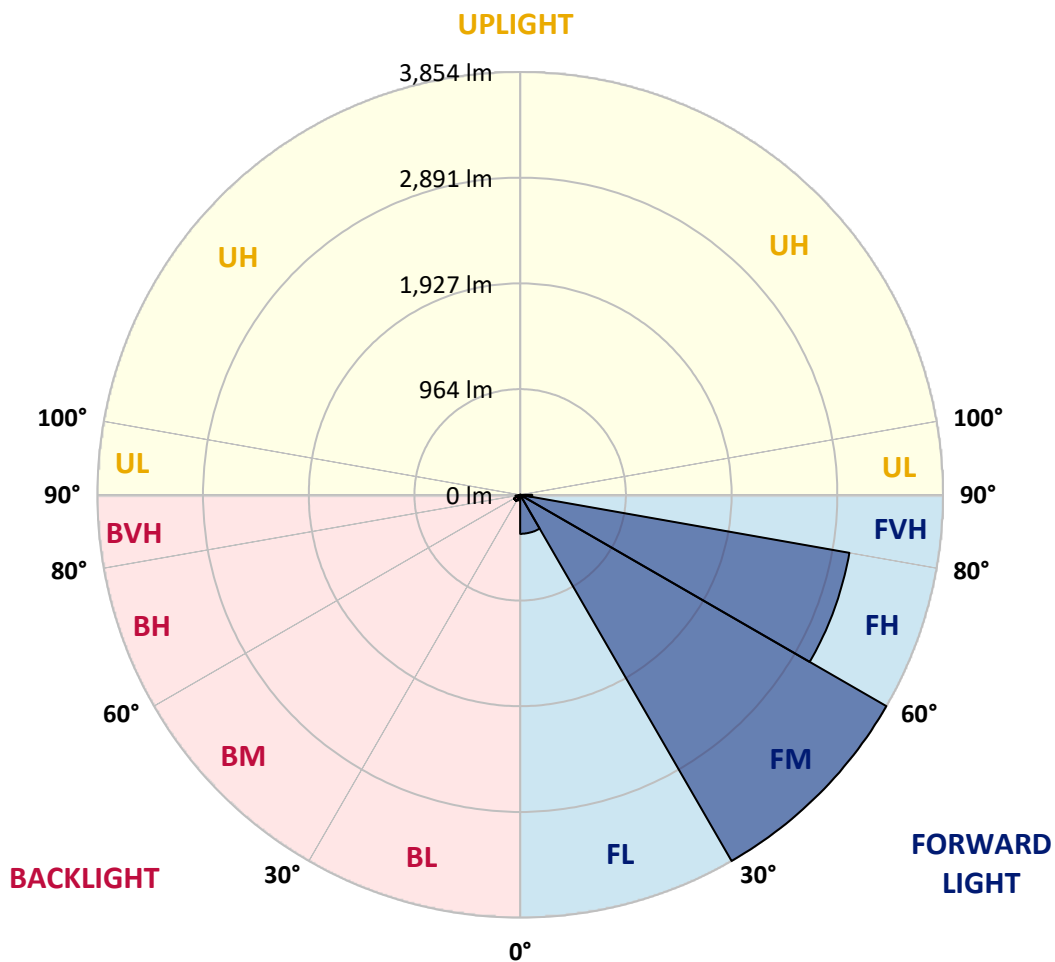
CATALOG NUMBER: TMU-E04-LED-E-U-SL2-HSS-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	355.6	4.7			
FM	(30°-60°)	3854.1	51.2			
FH	(60°-80°)	3046.9	40.5			G2/5000
FVH	(80°-90°)	109.4	1.5			G2/225
BL	(0°-30°)	51.4	0.7	B0/110		
BM	(30°-60°)	64.4	0.9	B0/220		
BH	(60°-80°)	43.8	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°	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7
2.5°	377.6	381.7	379.0	372.1	363.9	353.0	343.4	343.4	342.0	337.9	339.3
5°	495.3	496.6	491.2	474.7	459.7	436.4	410.4	407.7	405.0	400.9	399.5
7.5°	610.2	615.7	610.2	592.4	562.3	526.7	485.7	481.6	473.4	473.4	467.9
10°	727.9	727.9	722.4	701.9	674.5	623.9	571.9	565.0	555.5	552.7	544.5
12.5°	811.3	811.3	808.6	797.6	775.7	730.6	667.7	660.8	648.5	644.4	634.8
15°	844.1	844.1	845.5	855.1	856.5	835.9	770.3	764.8	752.5	741.5	737.4
17.5°	864.7	863.3	863.3	877.0	901.6	915.3	872.9	867.4	853.7	848.2	834.6
20°	909.8	907.1	898.9	898.9	922.1	970.0	970.0	968.6	953.6	949.5	942.6
22.5°	976.9	974.1	949.5	929.0	939.9	1000.1	1056.2	1053.5	1048.0	1042.5	1038.4
25°	1086.3	1076.7	1034.3	974.1	964.5	1028.8	1121.9	1128.7	1132.8	1132.8	1135.6
27.5°	1251.8	1239.5	1164.3	1052.1	1009.7	1075.4	1194.4	1208.1	1220.4	1223.1	1235.4
30°	1481.7	1459.8	1351.7	1187.5	1090.4	1143.8	1301.1	1316.2	1333.9	1339.4	1358.6
32.5°	1859.3	1847.0	1743.0	1496.7	1288.8	1277.8	1450.2	1469.4	1492.6	1502.2	1525.5
35°	2433.9	2436.7	2351.8	2130.2	1842.9	1692.4	1717.0	1733.4	1741.6	1770.4	1782.7
37.5°	2823.8	2830.7	2849.8	2762.3	2557.1	2403.8	2210.9	2228.7	2186.3	2190.4	2191.8
40°	3037.3	3059.2	3171.3	3256.2	3239.8	3150.8	2996.2	3005.8	2926.5	2908.7	2822.5
42.5°	3179.6	3208.3	3387.5	3650.2	3784.3	3865.0	3829.4	3825.3	3763.8	3740.5	3668.0
45°	3268.5	3294.5	3520.2	3907.4	4216.6	4451.9	4549.1	4560.0	4508.0	4484.8	4424.6
47.5°	3264.4	3294.5	3536.6	4003.2	4458.8	4835.0	5108.6	5122.3	5153.8	5133.3	5137.4
50°	3083.8	3112.5	3356.0	3840.4	4387.6	5010.1	5510.9	5554.7	5605.3	5639.5	5655.9
52.5°	2864.9	2885.4	3101.6	3561.3	4083.9	4937.6	5748.9	5824.2	5899.4	5963.7	6008.9
55°	2784.2	2807.4	2977.1	3358.8	3840.4	4633.9	5859.7	5970.6	6077.3	6182.6	6268.8
57.5°	2826.6	2848.5	2970.2	3263.0	3695.3	4313.7	5891.2	6063.6	6238.7	6409.7	6579.4
60°	2982.5	3005.8	3109.8	3351.9	3657.0	4129.0	5768.1	6054.0	6345.4	6643.7	6924.2
62.5°	2921.0	2930.6	3083.8	3507.9	3930.7	3971.7	5320.7	5720.2	6164.8	6624.5	7077.4
63°	2862.2	2873.1	3029.1	3465.5	4014.1	3948.5	5182.5	5603.9	6073.2	6568.4	7061.0
65°	2595.4	2596.7	2715.8	3060.5	3921.1	3989.5	4566.9	4969.1	5508.1	6101.9	6724.4
67.5°	1937.3	1927.7	2042.6	2305.3	3078.3	3990.9	3919.7	4145.5	4520.3	5047.1	5605.3
70°	686.8	671.8	857.8	1221.7	1918.1	3264.4	3368.4	3383.4	3487.4	3772.0	4122.2
72.5°	223.0	227.1	273.6	447.4	883.8	2197.2	3049.6	3003.1	2975.7	2974.3	3020.9
75°	88.9	90.3	109.5	198.4	396.8	1058.9	2670.6	2696.6	2706.2	2719.9	2734.9
77.5°	42.4	46.5	61.6	110.8	197.0	524.0	1911.3	2131.6	2257.4	2354.6	2413.4
80°	15.0	17.8	34.2	68.4	91.7	240.8	1007.0	1214.9	1399.6	1637.7	1842.9
82.5°	0.0	0.0	6.8	47.9	50.6	97.1	413.2	484.3	554.1	718.3	922.1
85°	0.0	0.0	0.0	13.7	15.0	16.4	139.6	168.3	188.8	220.3	254.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.1	8.2	20.5	31.5
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7
2.5°	336.6	335.2	335.2	332.5	331.1	328.4	327.0	322.9	321.5	321.5	321.5
5°	398.1	392.7	389.9	383.1	379.0	377.6	370.8	368.0	363.9	365.3	358.5
7.5°	466.5	457.0	452.9	443.3	440.5	431.0	428.2	421.4	417.3	409.1	406.3
10°	541.8	529.5	522.6	507.6	503.5	496.6	488.4	480.2	473.4	465.2	461.1
12.5°	628.0	617.0	611.6	591.0	581.5	571.9	560.9	550.0	539.0	532.2	522.6
15°	729.2	711.4	706.0	686.8	670.4	658.1	643.0	629.3	621.1	607.5	597.9
17.5°	829.1	811.3	807.2	778.5	760.7	752.5	736.1	718.3	703.2	689.5	674.5
20°	929.0	916.7	905.7	878.3	859.2	845.5	823.6	805.8	793.5	774.4	755.2
22.5°	1028.8	1016.5	1008.3	979.6	961.8	942.6	923.5	904.3	886.6	863.3	841.4
25°	1131.5	1123.2	1119.1	1093.1	1076.7	1058.9	1039.8	1017.9	996.0	970.0	946.8
27.5°	1238.2	1240.9	1232.7	1227.2	1209.4	1197.1	1167.0	1152.0	1135.6	1104.1	1075.4
30°	1373.6	1381.8	1379.1	1383.2	1372.2	1364.0	1340.8	1321.6	1302.5	1272.4	1239.5
32.5°	1544.6	1555.6	1561.0	1576.1	1570.6	1567.9	1561.0	1533.7	1520.0	1468.0	1454.3
35°	1808.7	1803.2	1826.5	1838.8	1833.3	1830.6	1822.4	1807.3	1790.9	1754.0	1719.8
37.5°	2152.1	2157.6	2165.8	2141.1	2124.7	2123.4	2098.7	2083.7	2060.4	2019.4	1978.3
40°	2781.4	2747.2	2708.9	2604.9	2559.8	2533.8	2461.3	2440.8	2401.1	2345.0	2302.6
42.5°	3599.6	3565.4	3450.5	3276.7	3183.7	3055.1	2996.2	2923.7	2867.6	2776.0	2726.7
45°	4412.3	4313.7	4300.1	4097.6	3982.7	3813.0	3707.7	3585.9	3458.7	3338.3	3250.7
47.5°	5097.7	5075.8	5008.8	4885.6	4778.9	4636.6	4501.2	4313.7	4182.4	4011.4	3854.1
50°	5646.3	5644.9	5620.3	5549.2	5460.2	5345.3	5226.3	5067.6	4918.5	4709.1	4540.9
52.5°	6056.8	6078.6	6086.9	6065.0	6030.8	5929.5	5869.3	5736.6	5610.7	5432.9	5250.9
55°	6357.7	6438.5	6479.5	6526.0	6516.5	6480.9	6478.1	6392.0	6334.5	6193.6	6065.0
57.5°	6729.9	6862.6	6989.8	7215.6	7223.8	7303.1	7344.2	7385.2	7396.2	7340.1	7297.7
60°	7203.3	7474.2	7714.9	8187.0	8310.1	8504.4	8630.2	8767.0	8883.3	8892.9	8890.2
62.5°	7537.1	7954.4	8342.9	9043.4	9282.8	9507.2	9675.5	9808.2	9888.9	9971.0	10009.3
63°	7546.7	8003.6	8416.8	9139.2	9390.9	9604.3	9764.4	9887.6	9972.4	10021.6	10046.3
65°	7315.4	7869.5	8362.1	9081.7	9318.4	9533.2	9616.7	9697.4	9738.4	9757.6	9685.1
67.5°	6200.4	6742.2	7316.8	8121.3	8323.8	8581.0	8649.4	8690.4	8709.6	8705.5	8643.9
70°	4636.6	5090.9	5729.8	6649.2	6917.3	7169.1	7325.0	7392.1	7414.0	7407.1	7315.4
72.5°	3237.0	3503.8	4030.5	5053.9	5419.2	5742.1	5935.0	6034.9	6055.4	6014.3	5929.5
75°	2718.5	2732.2	2851.2	3410.8	3752.8	4097.6	4315.1	4378.0	4337.0	4212.5	3996.3
77.5°	2427.1	2457.2	2457.2	2540.6	2607.7	2703.4	2724.0	2570.7	2392.9	2163.0	1977.0
80°	2035.8	2141.1	2215.0	2276.6	2283.4	2264.3	2213.7	2127.5	1990.6	1815.5	1621.2
82.5°	1236.8	1444.8	1529.6	1847.0	2003.0	2108.3	2100.1	1985.2	1881.2	1699.2	1533.7
85°	311.9	336.6	365.3	474.7	532.2	649.9	723.7	757.9	770.3	707.3	640.3
87.5°	30.1	20.5	34.2	26.0	36.9	27.4	36.9	34.2	42.4	45.1	49.3
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°	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7
2.5°	318.8	317.4	316.0	314.7	313.3	311.9	309.2	309.2	306.5	305.1	303.7
5°	354.3	351.6	350.2	347.5	343.4	340.7	336.6	331.1	327.0	325.6	322.9
7.5°	399.5	392.7	389.9	385.8	380.3	372.1	366.7	362.6	355.7	351.6	343.4
10°	450.1	443.3	435.1	426.9	418.7	409.1	402.2	396.8	385.8	380.3	370.8
12.5°	514.4	502.1	492.5	481.6	470.6	459.7	451.5	435.1	425.5	413.2	405.0
15°	580.1	569.1	558.2	544.5	528.1	510.3	502.1	487.1	474.7	455.6	444.6
17.5°	659.4	638.9	622.5	606.1	591.0	574.6	558.2	534.9	517.2	500.7	478.8
20°	737.4	712.8	695.0	673.1	651.2	625.2	606.1	589.7	565.0	543.2	519.9
22.5°	820.9	796.3	767.5	745.6	715.5	695.0	669.0	641.7	617.0	588.3	559.6
25°	922.1	896.1	863.3	834.6	800.4	771.6	740.2	708.7	678.6	645.8	608.8
27.5°	1046.6	1019.3	983.7	949.5	904.3	868.8	838.7	796.3	757.9	716.9	674.5
30°	1204.0	1173.9	1130.1	1080.8	1035.7	996.0	953.6	897.5	855.1	805.8	751.1
32.5°	1409.2	1373.6	1314.8	1268.3	1212.2	1160.2	1101.4	1045.3	985.1	920.8	857.8
35°	1667.8	1634.9	1566.5	1498.1	1436.5	1375.0	1301.1	1236.8	1152.0	1074.0	993.3
37.5°	1935.9	1877.1	1814.2	1740.3	1663.7	1589.8	1499.5	1410.6	1313.4	1228.6	1127.3
40°	2242.4	2171.2	2119.2	2039.9	1931.8	1826.5	1743.0	1632.2	1510.4	1396.9	1277.8
42.5°	2662.4	2583.0	2490.0	2369.6	2291.6	2168.5	2060.4	1929.1	1769.0	1641.8	1498.1
45°	3148.1	3040.0	2949.7	2833.4	2739.0	2585.8	2459.9	2284.8	2124.7	1957.8	1782.7
47.5°	3702.2	3568.1	3436.8	3321.8	3171.3	3020.9	2860.8	2674.7	2469.5	2286.2	2078.2
50°	4338.4	4148.2	3966.2	3818.5	3611.9	3438.1	3264.4	3055.1	2827.9	2617.3	2380.6
52.5°	5045.7	4825.4	4584.6	4357.5	4118.1	3895.1	3685.8	3445.0	3191.9	2934.7	2670.6
55°	5899.4	5733.9	5450.7	5162.0	4841.8	4543.6	4274.1	3975.8	3668.0	3330.1	3052.3
57.5°	7236.1	7155.4	6918.7	6630.0	6212.7	5850.2	5393.2	5027.9	4581.9	4116.7	3758.3
60°	9047.5	8947.6	8814.9	8581.0	8249.9	7757.4	7253.9	6686.1	6007.5	5363.1	4751.6
62.5°	10013.4	9977.8	9869.8	9708.3	9399.1	9010.6	8503.0	7879.1	7113.0	6330.4	5550.5
63°	10042.2	9997.0	9904.0	9739.8	9467.5	9091.3	8593.3	7987.2	7237.5	6439.8	5643.6
65°	9653.6	9635.8	9541.4	9362.2	9176.1	8888.8	8503.0	7981.7	7352.4	6598.5	5806.4
67.5°	8561.8	8508.5	8363.4	8308.7	8178.7	7979.0	7684.8	7326.4	6876.3	6283.9	5599.8
70°	7241.6	7162.2	6980.3	6883.1	6724.4	6598.5	6419.3	6163.5	5885.7	5472.6	4962.2
72.5°	5842.0	5677.8	5510.9	5257.8	5036.1	4811.8	4613.4	4432.8	4127.7	3960.8	3573.6
75°	3793.9	3495.6	3209.7	2826.6	2481.8	2176.7	1879.8	1729.3	1416.0	1288.8	1106.8
77.5°	1800.5	1633.6	1409.2	1235.4	1013.8	827.7	675.9	507.6	398.1	311.9	238.1
80°	1453.0	1312.0	1176.6	1019.3	852.4	680.0	521.3	389.9	276.4	191.5	135.4
82.5°	1295.6	1142.4	975.5	867.4	753.8	617.0	506.2	413.2	305.1	223.0	151.9
85°	503.5	424.1	327.0	266.8	208.0	171.0	154.6	106.7	83.5	65.7	50.6
87.5°	43.8	35.6	28.7	19.2	20.5	10.9	12.3	8.2	6.8	6.8	5.5
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°	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7
2.5°	302.4	301.0	299.6	296.9	296.9	294.2	292.8	291.4	284.6	269.5	257.2
5°	317.4	314.7	311.9	307.8	305.1	301.0	298.3	294.2	279.1	250.4	225.7
7.5°	339.3	333.8	329.7	321.5	317.4	311.9	307.8	301.0	276.4	232.6	198.4
10°	365.3	355.7	348.9	339.3	331.1	324.2	317.4	307.8	273.6	213.4	173.8
12.5°	396.8	385.8	372.1	361.2	350.2	340.7	331.1	318.8	269.5	197.0	154.6
15°	428.2	411.8	402.2	387.2	372.1	358.5	344.8	333.8	270.9	179.2	138.2
17.5°	463.8	447.4	426.9	410.4	394.0	376.2	359.8	337.9	264.1	165.5	125.9
20°	498.0	474.7	455.6	435.1	411.8	389.9	369.4	350.2	258.6	151.9	114.9
22.5°	534.9	507.6	483.0	457.0	428.2	403.6	379.0	354.3	249.0	139.6	105.3
25°	580.1	548.6	513.1	481.6	451.5	421.4	389.9	359.8	239.4	128.6	98.5
27.5°	634.8	593.8	558.2	518.5	476.1	437.8	403.6	370.8	229.8	120.4	91.7
30°	704.6	656.7	606.1	555.5	510.3	466.5	418.7	377.6	220.3	112.2	84.8
32.5°	797.6	737.4	675.9	617.0	556.8	500.7	450.1	396.8	214.8	105.3	78.0
35°	920.8	842.8	767.5	693.6	621.1	552.7	487.1	426.9	214.8	97.1	69.8
37.5°	1037.1	946.8	851.0	759.3	673.1	593.8	515.8	443.3	203.9	90.3	62.9
40°	1162.9	1054.8	942.6	834.6	730.6	632.1	543.2	459.7	194.3	82.1	56.1
42.5°	1355.8	1219.0	1072.6	946.8	822.3	700.5	589.7	491.2	182.0	73.9	49.3
45°	1608.9	1435.2	1262.8	1109.6	950.9	801.7	670.4	548.6	179.2	67.0	42.4
47.5°	1879.8	1674.6	1472.1	1276.5	1090.4	916.7	759.3	612.9	179.2	60.2	36.9
50°	2149.3	1892.1	1676.0	1448.9	1239.5	1034.3	846.9	680.0	180.6	54.7	30.1
52.5°	2392.9	2117.9	1875.7	1613.0	1381.8	1143.8	939.9	745.6	177.9	47.9	24.6
55°	2730.8	2407.9	2127.5	1837.4	1566.5	1298.4	1067.1	844.1	179.2	42.4	20.5
57.5°	3353.3	2974.3	2636.4	2256.1	1944.1	1598.0	1317.5	1046.6	195.6	35.6	15.0
60°	4246.7	3754.2	3279.4	2815.6	2418.9	2007.1	1643.1	1324.4	229.8	28.7	10.9
62.5°	4847.3	4202.9	3636.5	3124.8	2663.8	2232.8	1836.0	1473.5	253.1	23.3	6.8
63°	4908.9	4242.6	3673.5	3145.4	2674.7	2243.8	1844.3	1484.4	254.5	21.9	6.8
65°	5025.2	4311.0	3694.0	3149.5	2663.8	2228.7	1838.8	1483.1	257.2	17.8	5.5
67.5°	4892.5	4205.7	3575.0	3031.8	2568.0	2139.8	1770.4	1428.3	255.8	12.3	4.1
70°	4375.3	3806.2	3252.1	2745.9	2324.5	1937.3	1611.7	1302.5	235.3	8.2	2.7
72.5°	3212.4	2825.2	2395.6	2030.3	1751.2	1454.3	1240.9	978.2	182.0	5.5	1.4
75°	952.2	867.4	729.2	643.0	567.8	469.3	417.3	325.6	93.0	2.7	0.0
77.5°	190.2	172.4	154.6	140.9	132.7	113.6	108.1	88.9	38.3	1.4	0.0
80°	99.9	82.1	69.8	61.6	53.4	43.8	36.9	30.1	6.8	0.0	0.0
82.5°	95.8	64.3	46.5	38.3	32.8	26.0	20.5	15.0	4.1	0.0	0.0
85°	35.6	27.4	20.5	16.4	13.7	12.3	9.6	8.2	0.0	0.0	0.0
87.5°	5.5	4.1	4.1	2.7	2.7	1.4	1.4	1.4	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: TMU-E04-LED-E-U-SL2-HSS-7050

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	288.7	288.7	288.7	288.7	288.7	288.7	288.7
2.5°	244.9	234.0	228.5	221.6	221.6	220.3	223.0
5°	203.9	188.8	177.9	169.6	171.0	166.9	168.3
7.5°	172.4	157.3	147.8	142.3	140.9	139.6	139.6
10°	149.1	135.4	127.2	123.1	121.8	121.8	121.8
12.5°	132.7	119.0	112.2	109.5	109.5	108.1	108.1
15°	119.0	108.1	101.2	98.5	98.5	97.1	98.5
17.5°	108.1	97.1	91.7	88.9	88.9	87.6	87.6
20°	98.5	88.9	83.5	79.4	79.4	78.0	79.4
22.5°	90.3	80.7	73.9	71.1	69.8	68.4	69.8
25°	82.1	72.5	65.7	61.6	60.2	60.2	58.8
27.5°	75.2	65.7	57.5	53.4	52.0	52.0	50.6
30°	68.4	57.5	49.3	45.1	43.8	43.8	43.8
32.5°	61.6	49.3	42.4	38.3	36.9	36.9	36.9
35°	54.7	42.4	35.6	31.5	30.1	30.1	30.1
37.5°	46.5	35.6	27.4	24.6	23.3	21.9	21.9
40°	39.7	27.4	20.5	17.8	15.0	15.0	15.0
42.5°	32.8	21.9	15.0	10.9	9.6	8.2	9.6
45°	27.4	16.4	9.6	5.5	4.1	4.1	4.1
47.5°	21.9	10.9	4.1	1.4	1.4	1.4	1.4
50°	16.4	6.8	1.4	0.0	0.0	1.4	1.4
52.5°	12.3	4.1	0.0	0.0	0.0	0.0	0.0
55°	6.8	1.4	0.0	0.0	0.0	0.0	0.0
57.5°	4.1	0.0	0.0	0.0	0.0	0.0	0.0
60°	2.7	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.4	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.4	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.4	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)