

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: P157338

Luminaire Tested: **VST-E04-LED-E-U-5MQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157338
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33708)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-E04-LED-E-U-5MQ-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (84) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10799.2 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - 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

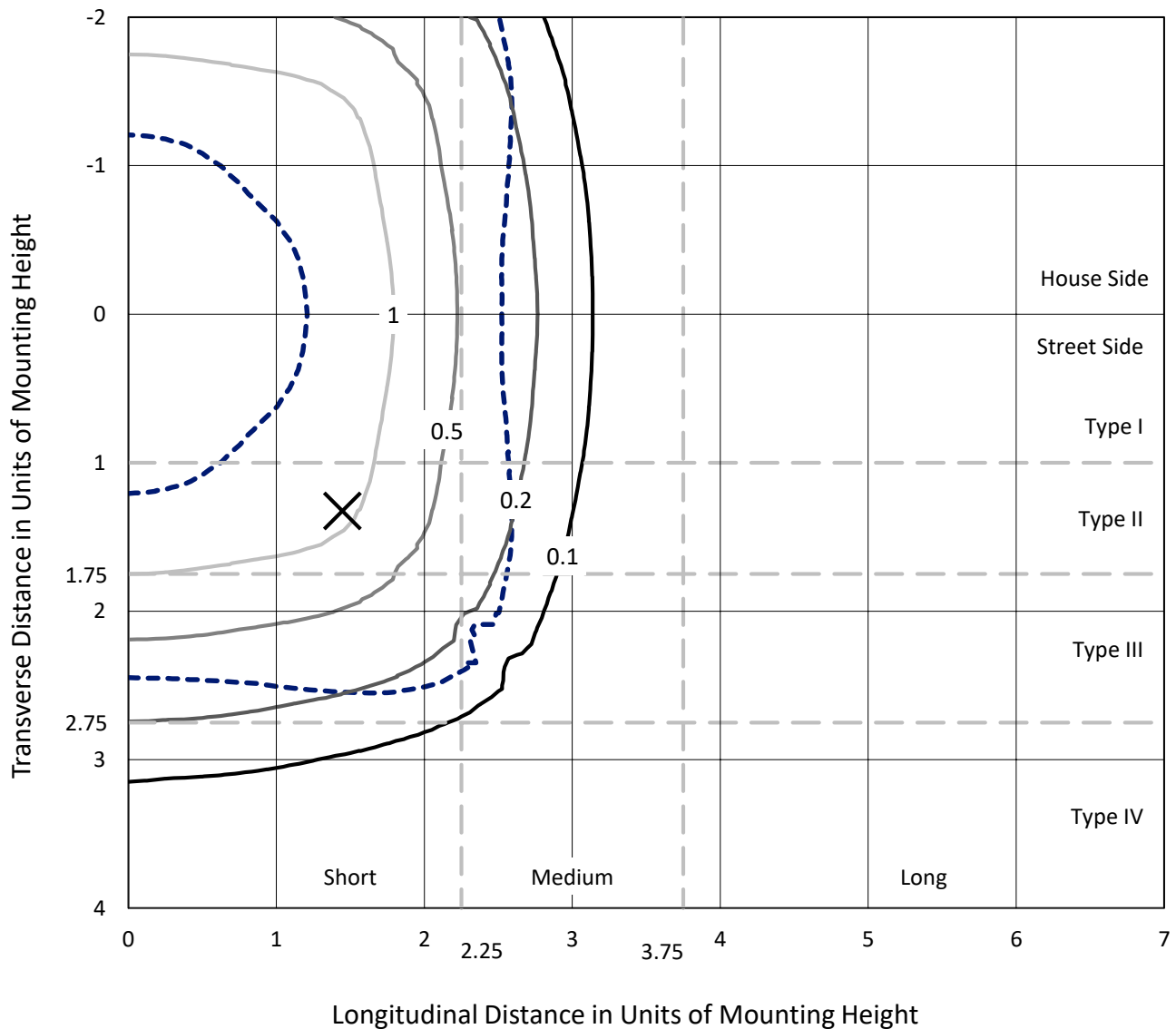


REPORT NUMBER: P157338

CATALOG NUMBER: VST-E04-LED-E-U-5MQ-8030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

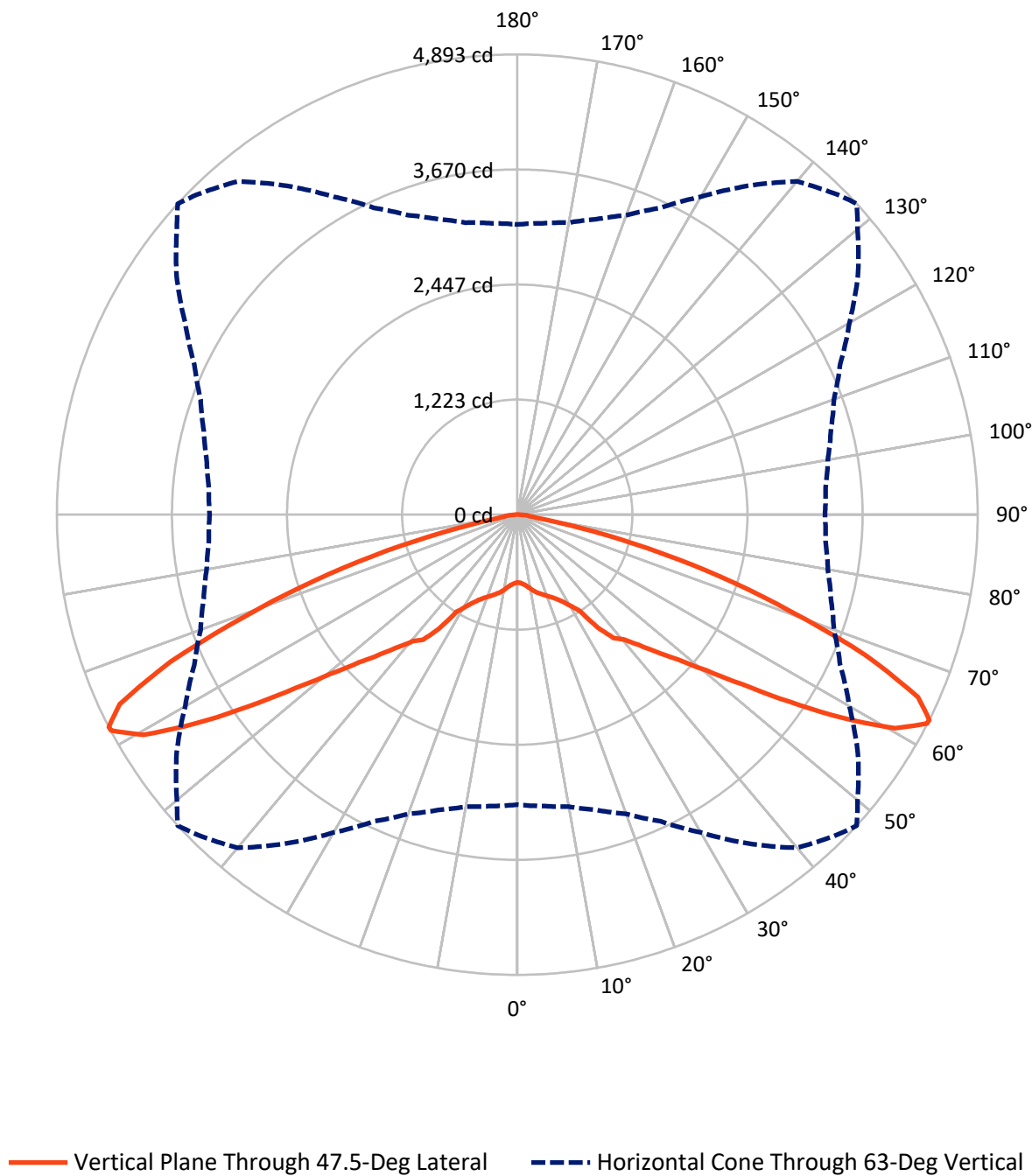


Based on 20 foot mounting height. Maximum calculated value = 2 fc
Type V - Short - Full Cutoff

REPORT NUMBER: P157338

CATALOG NUMBER: VST-E04-LED-E-U-5MQ-8030

Luminous Intensity Polar Plot



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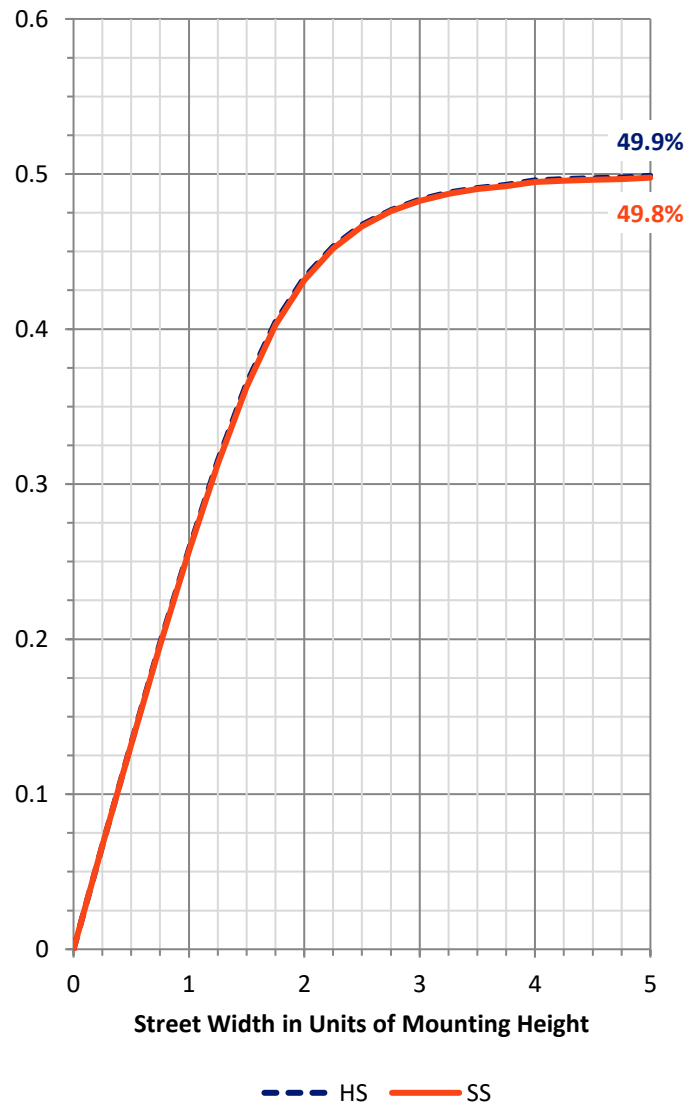
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5399.6	0.0	5399.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5399.6	0.0	5399.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	10799.2	0.0	10799.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.4	0.7
10°-20°	246.1	2.3
20°-30°	470.7	4.4
30°-40°	900.5	8.3
40°-50°	1558.1	14.4
50°-60°	2798.2	25.9
60°-70°	3402.7	31.5
70°-80°	1228.9	11.4
80°-90°	121.7	1.1
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°	10799.2	100.0
0°-180°	10799.2	100.0

Coefficient of Utilization



REPORT NUMBER: P157338

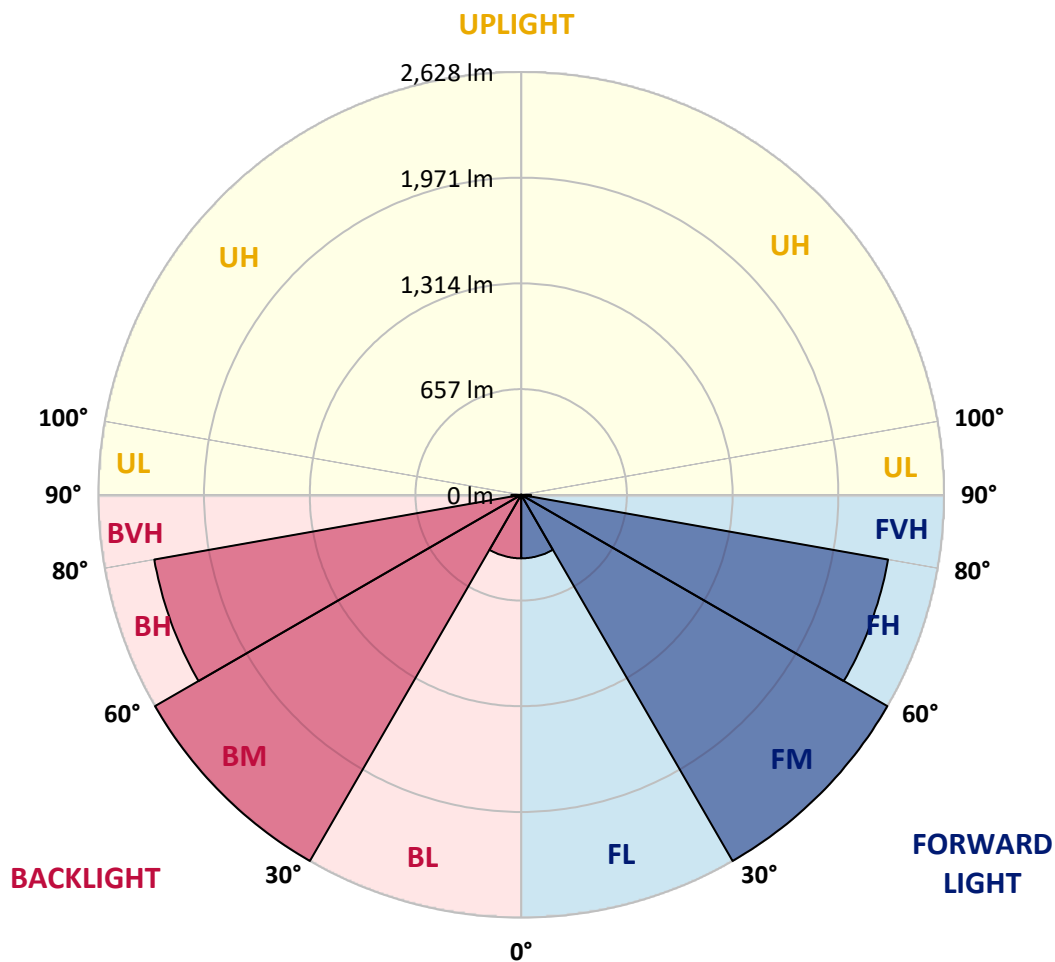
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	394.6	3.7			
FM	(30°-60°)	2628.4	24.3			
FH	(60°-80°)	2315.8	21.4			G2/5000
FVH	(80°-90°)	60.9	0.6			G1/100
BL	(0°-30°)	394.6	3.7	B1/500		
BM	(30°-60°)	2628.4	24.3	B3/5000		
BH	(60°-80°)	2315.8	21.4	B3/2500		G2/5000
BVH	(80°-90°)	60.9	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





REPORT NUMBER: P157338

CATALOG NUMBER: VST-E04-LED-E-U-5MQ-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1
2.5°	725.8	724.5	725.2	725.8	725.2	724.5	724.5	724.5	725.8	724.5	727.9
5°	740.0	738.7	739.3	739.3	739.3	738.0	738.0	738.0	737.3	738.0	745.4
7.5°	767.0	765.0	764.3	765.7	764.3	763.6	763.0	763.0	761.6	761.6	771.1
10°	799.4	796.7	798.1	798.8	796.7	795.4	795.4	795.4	793.4	792.7	804.8
12.5°	835.2	833.9	833.9	832.5	831.8	830.5	829.8	830.5	827.8	827.8	839.9
15°	869.6	866.9	867.6	865.6	864.2	862.9	862.2	861.5	860.2	860.2	867.6
17.5°	901.4	899.4	898.7	896.7	894.6	892.6	891.3	890.6	888.6	888.6	895.3
20°	934.5	932.4	931.1	927.7	924.3	922.3	919.6	918.3	915.6	916.2	923.7
22.5°	972.3	968.9	966.2	963.5	957.4	953.4	950.0	947.3	945.9	945.9	956.1
25°	1022.9	1020.9	1016.8	1008.1	1000.6	994.6	989.2	986.5	983.8	982.4	997.9
27.5°	1085.0	1083.0	1077.6	1068.8	1058.7	1048.6	1042.5	1037.8	1034.4	1032.4	1054.7
30°	1167.4	1164.0	1159.3	1145.1	1136.3	1120.8	1114.1	1107.3	1099.9	1101.9	1128.2
32.5°	1328.8	1324.1	1309.2	1293.7	1266.7	1245.7	1224.1	1207.9	1192.4	1190.4	1218.7
35°	1475.3	1473.3	1470.6	1459.8	1449.6	1436.8	1426.7	1409.8	1395.6	1392.2	1471.9
37.5°	1554.3	1559.0	1555.0	1553.6	1553.6	1559.7	1578.6	1597.5	1611.0	1619.1	1663.7
40°	1675.2	1675.2	1670.4	1667.7	1662.3	1670.4	1678.5	1692.7	1698.8	1699.5	1744.7
42.5°	1812.2	1812.9	1808.2	1800.1	1797.4	1804.8	1815.6	1829.1	1837.2	1839.2	1891.9
45°	1964.8	1962.8	1958.7	1956.0	1958.1	1964.8	1977.6	2004.0	2016.1	2025.6	2083.0
47.5°	2130.2	2143.7	2132.3	2134.3	2134.3	2155.2	2184.2	2205.9	2225.4	2243.7	2304.4
50°	2347.0	2349.0	2351.0	2357.1	2361.1	2388.8	2425.3	2450.9	2479.3	2502.9	2602.2
52.5°	2636.6	2632.6	2642.7	2649.5	2672.4	2687.3	2748.0	2780.4	2819.6	2850.0	2995.2
55°	2983.0	2981.0	2995.8	3001.2	3031.6	3068.1	3135.6	3206.5	3273.3	3310.5	3509.0
57.5°	3231.5	3236.9	3262.5	3298.3	3357.7	3435.4	3536.0	3692.6	3819.6	3860.1	4078.8
60°	3286.2	3303.7	3342.2	3413.8	3515.7	3660.2	3858.1	4097.7	4330.0	4407.7	4612.9
62.5°	3132.9	3153.2	3209.9	3295.6	3428.6	3642.7	3928.3	4266.5	4611.6	4784.4	4887.7
63°	3084.3	3109.3	3151.8	3251.1	3386.1	3597.4	3901.3	4265.9	4623.7	4812.1	4893.1
65°	2856.1	2860.8	2924.3	3023.5	3175.4	3394.9	3701.4	4122.7	4519.7	4737.2	4681.1
67.5°	2457.7	2477.3	2530.6	2630.6	2778.4	3006.6	3339.5	3729.1	4078.2	4251.7	4001.2
70°	1985.7	1984.4	2050.6	2130.9	2261.2	2461.8	2753.4	3105.2	3382.0	3508.3	3089.0
72.5°	1418.6	1383.5	1432.1	1521.2	1627.9	1787.9	2018.8	2292.3	2540.1	2649.5	2258.5
75°	646.2	636.7	679.9	768.4	876.4	1018.9	1208.6	1444.9	1682.6	1810.9	1438.8
77.5°	217.4	220.1	237.0	268.7	326.8	398.4	516.5	667.8	860.2	987.1	675.2
80°	145.8	149.9	155.3	160.0	166.8	177.6	203.2	242.4	301.8	365.3	213.4
82.5°	119.5	124.2	136.4	141.8	145.8	149.2	151.2	153.9	153.9	155.3	135.0
85°	85.7	93.9	110.1	120.2	124.2	126.9	130.3	134.4	128.3	122.9	104.7
87.5°	29.7	40.5	59.4	65.5	70.2	70.9	75.6	83.7	79.7	64.8	31.7
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: P157338

CATALOG NUMBER: VST-E04-LED-E-U-5MQ-8030

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°
0°	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1
2.5°	724.5	723.8	724.5	725.2	725.2	725.2	725.8	726.5	726.5
5°	738.0	738.7	738.0	738.7	738.7	739.3	739.3	740.7	740.7
7.5°	760.9	762.3	761.6	763.0	763.0	764.3	763.6	765.7	765.7
10°	792.0	793.4	794.7	795.4	794.7	796.1	797.4	798.1	797.4
12.5°	827.1	827.8	827.1	828.5	828.5	829.8	829.8	831.8	831.8
15°	859.5	858.8	858.2	860.2	861.5	862.2	863.6	865.6	863.6
17.5°	888.6	889.2	887.9	889.9	892.6	894.6	896.0	898.7	898.0
20°	917.6	916.2	917.6	921.0	923.7	926.4	929.1	933.1	932.4
22.5°	945.9	947.3	950.7	953.4	958.1	962.1	965.5	970.9	973.0
25°	985.8	985.8	991.2	994.6	1001.3	1006.7	1014.1	1020.2	1023.6
27.5°	1036.4	1036.4	1042.5	1049.9	1060.1	1069.5	1077.6	1085.7	1084.4
30°	1105.3	1108.7	1114.1	1123.5	1137.0	1148.5	1159.3	1167.4	1168.1
32.5°	1195.8	1199.8	1216.0	1240.3	1268.7	1290.3	1306.5	1326.1	1328.8
35°	1401.0	1411.2	1432.1	1451.7	1463.1	1476.0	1484.1	1484.7	1486.1
37.5°	1617.1	1599.5	1583.3	1568.5	1561.7	1560.4	1560.4	1563.1	1564.4
40°	1696.1	1687.3	1679.9	1670.4	1673.1	1672.5	1677.2	1681.2	1683.9
42.5°	1831.1	1824.4	1817.6	1805.5	1812.2	1810.2	1816.9	1823.0	1826.4
45°	2019.5	1998.6	1983.7	1964.1	1970.9	1966.8	1966.8	1974.3	1975.6
47.5°	2227.5	2203.2	2172.8	2148.5	2140.4	2132.9	2139.7	2139.7	2132.3
50°	2476.6	2447.6	2411.8	2372.6	2359.1	2351.7	2354.4	2357.8	2336.8
52.5°	2814.9	2782.5	2731.8	2672.4	2659.6	2653.5	2652.2	2647.4	2642.0
55°	3273.3	3212.6	3150.4	3072.1	3048.5	3041.7	3042.4	3037.0	3049.8
57.5°	3814.2	3725.0	3581.9	3486.7	3430.0	3408.4	3388.8	3380.7	3381.4
60°	4349.6	4168.0	3953.9	3787.8	3669.0	3593.4	3534.0	3500.9	3491.4
62.5°	4694.6	4409.0	4087.6	3818.2	3623.1	3498.2	3404.3	3344.9	3326.0
63°	4721.6	4419.1	4075.5	3786.5	3581.2	3450.2	3351.7	3290.2	3270.0
65°	4662.9	4317.2	3916.8	3572.4	3347.6	3202.4	3095.8	3037.7	3022.2
67.5°	4206.5	3918.8	3511.0	3155.2	2928.3	2781.1	2658.9	2603.5	2586.0
70°	3421.9	3224.7	2890.5	2586.7	2375.3	2233.5	2110.0	2064.1	2063.4
72.5°	2536.7	2280.8	2081.6	1858.8	1674.5	1561.7	1454.4	1403.1	1377.4
75°	1677.9	1403.7	1180.9	993.2	809.6	708.3	587.4	535.4	505.0
77.5°	845.3	626.6	449.0	311.3	241.7	198.5	181.6	172.8	172.2
80°	281.6	211.3	181.6	170.1	166.8	167.4	165.4	162.0	158.0
82.5°	156.0	164.1	165.4	160.7	160.7	158.0	155.3	142.5	135.7
85°	133.7	147.2	148.5	145.8	145.2	141.1	136.4	118.8	108.7
87.5°	83.7	96.6	94.5	84.4	93.2	87.1	82.4	53.3	39.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)