

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: P157386

Luminaire Tested: **VST-F08-LED-E-U-5MQ-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P157386  
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-F08-LED-E-U-5MQ-7050  
Description: VENTUS LED SITE/ROADWAY LUMINAIRE  
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM  
Light Source: (56) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21677.4 lumens  
Efficiency: N/A  
Efficacy: 106.1 lumens/watt  
Luminous Opening: Rectangular (W 1.33' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B4 - U0 - G2

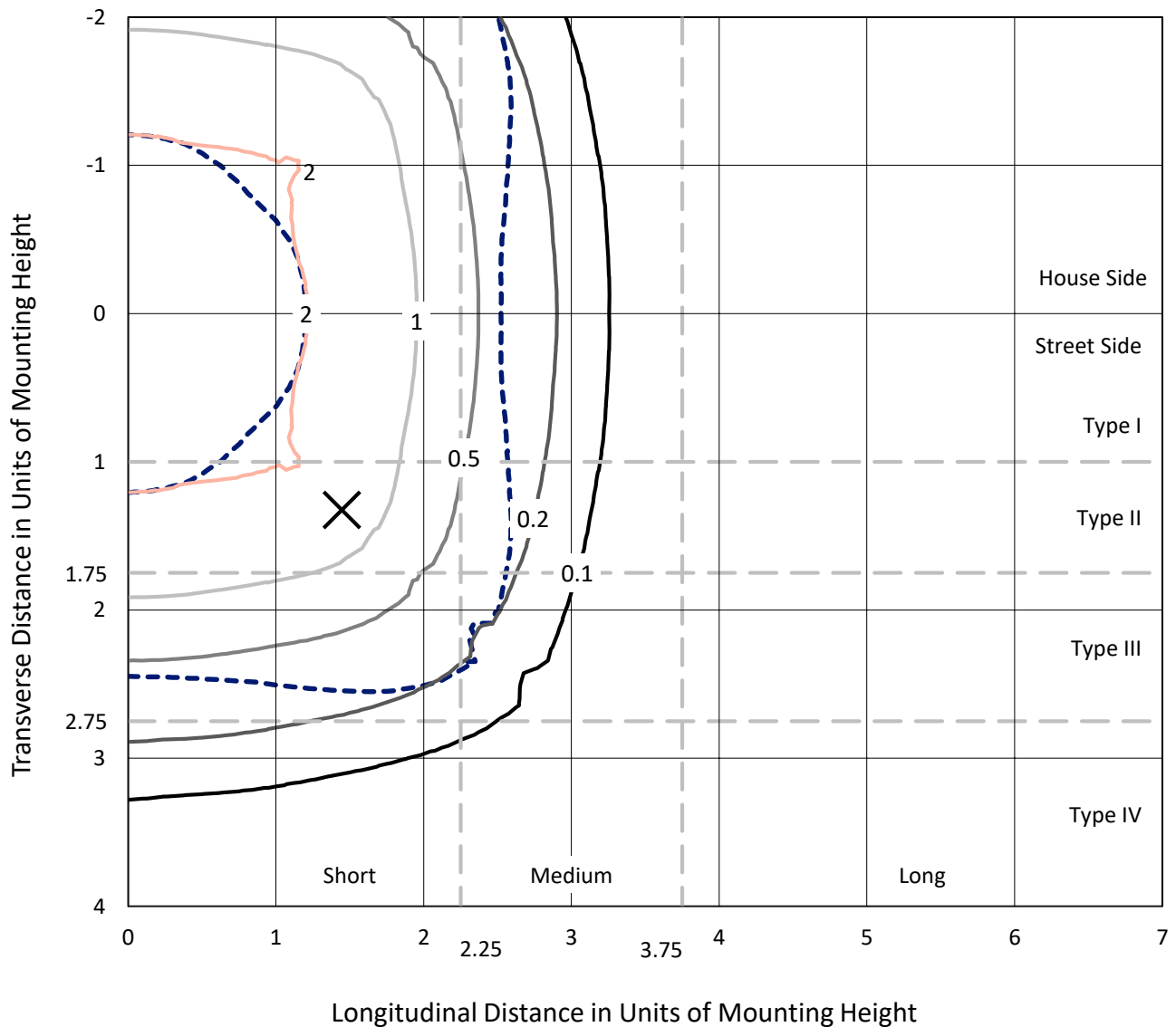
Input Watts (W): 204.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

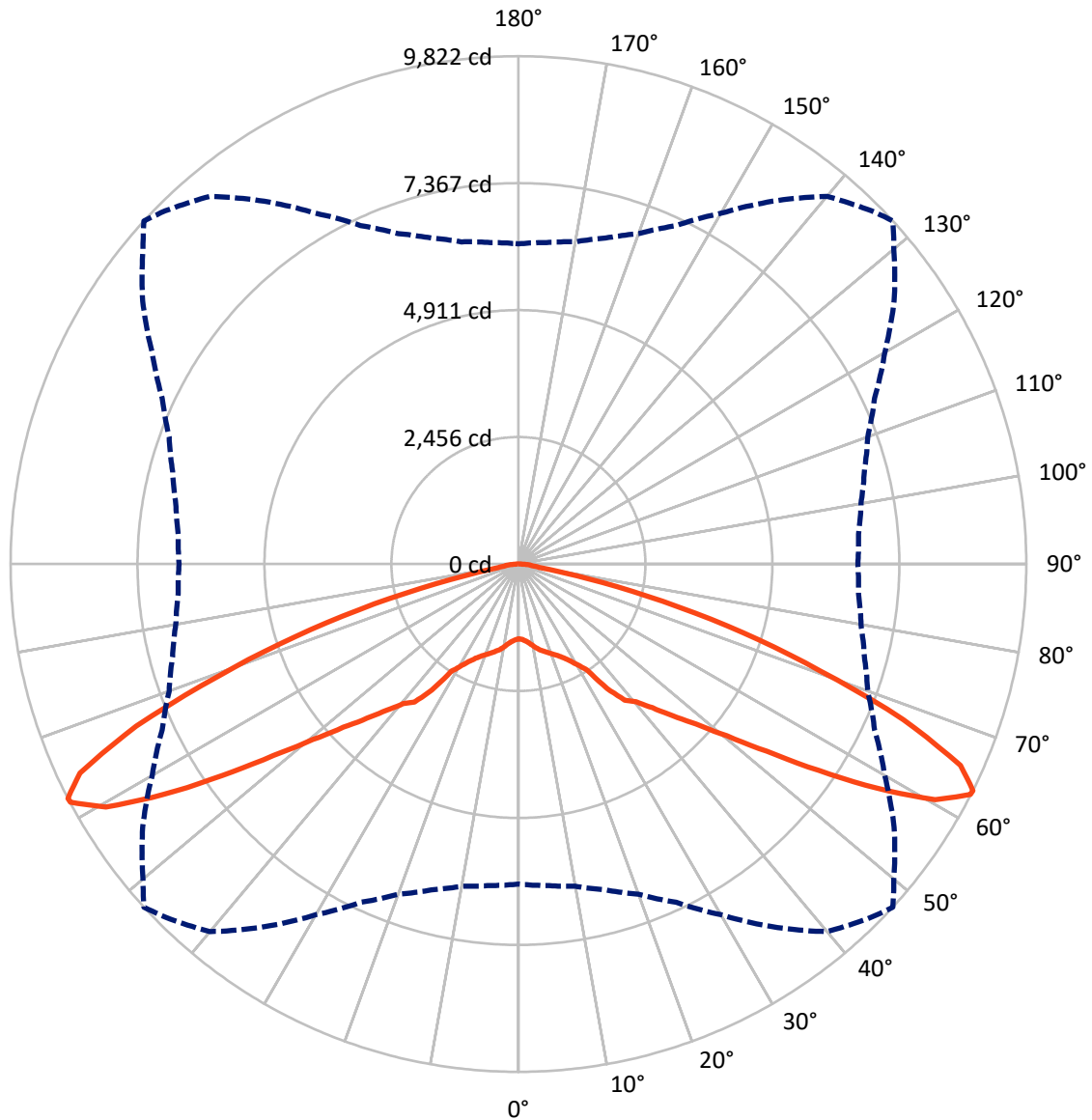
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

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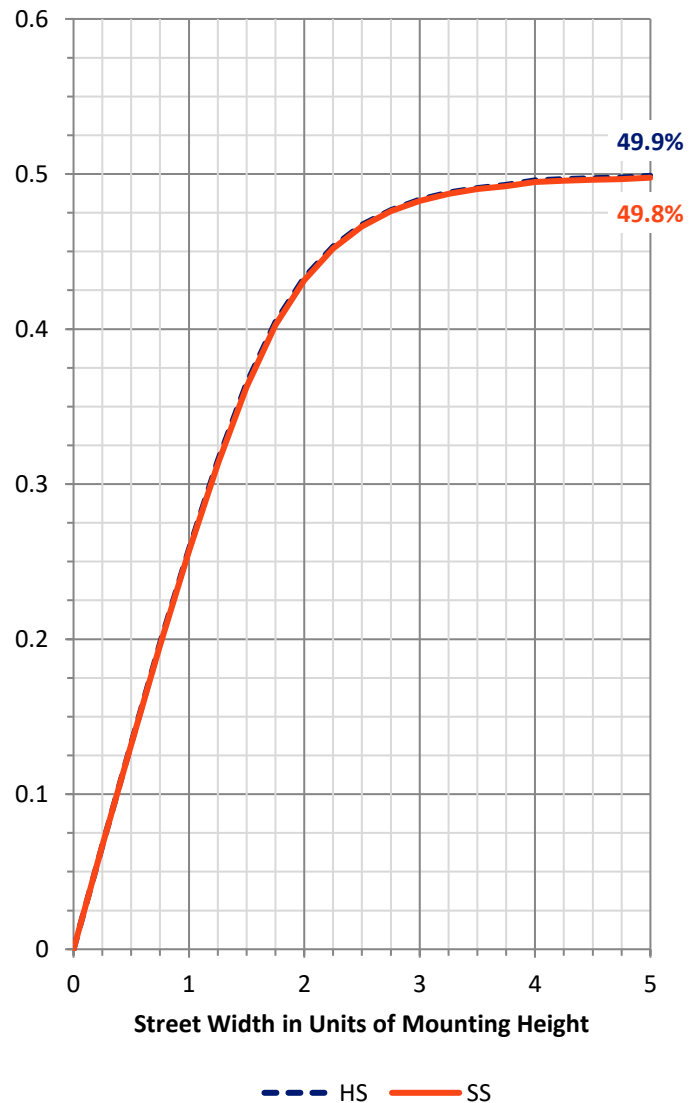
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10838.7	0.0	10838.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10838.7	0.0	10838.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	21677.4	0.0	21677.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.3	0.7
10°-20°	494.0	2.3
20°-30°	944.9	4.4
30°-40°	1807.5	8.3
40°-50°	3127.6	14.4
50°-60°	5616.9	25.9
60°-70°	6830.2	31.5
70°-80°	2466.7	11.4
80°-90°	244.3	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°	21677.4	100.0
0°-180°	21677.4	100.0

**Coefficient of Utilization**



REPORT NUMBER: P157386

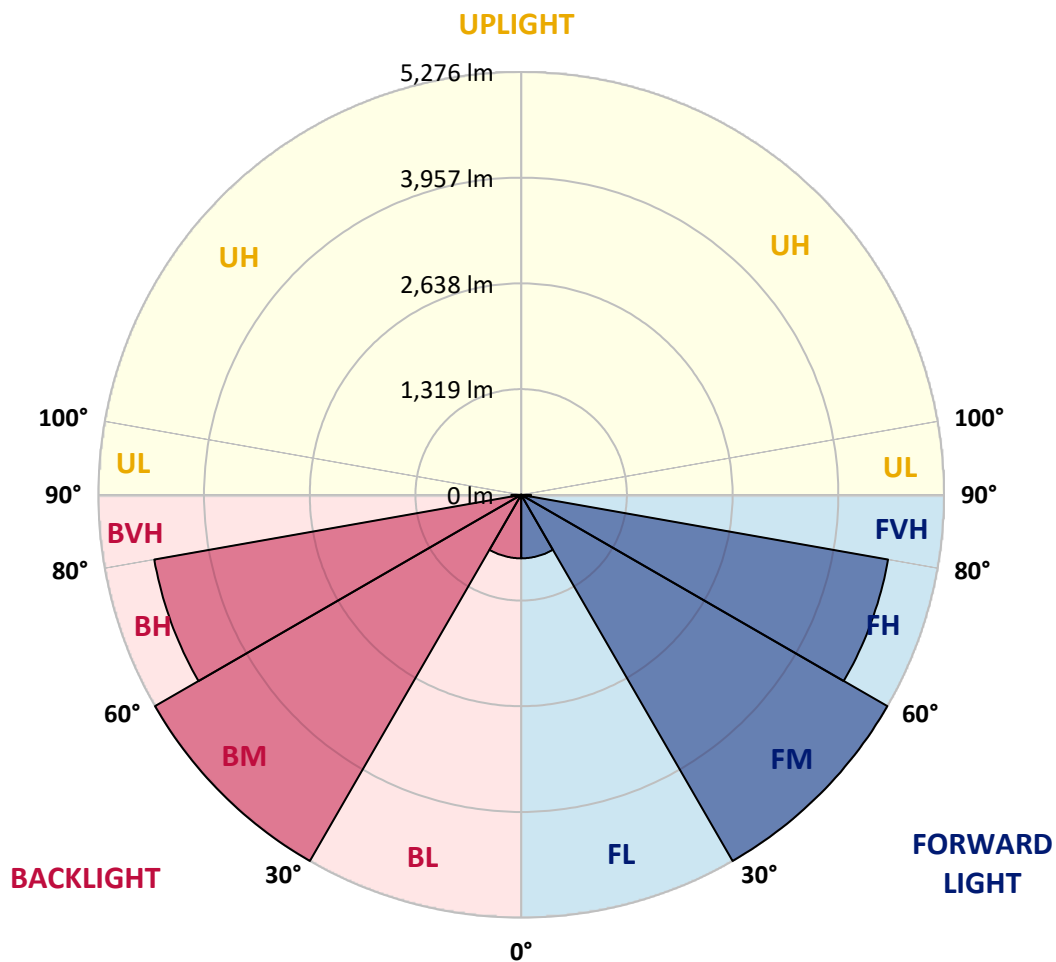
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	792.1	3.7			
FM	(30°-60°)	5276.0	24.3			
FH	(60°-80°)	4648.5	21.4			G2/5000
FVH	(80°-90°)	122.2	0.6			G2/225
BL	(0°-30°)	792.1	3.7	B2/1000		
BM	(30°-60°)	5276.0	24.3	B4/8500		
BH	(60°-80°)	4648.5	21.4	B4/5000		G2/5000
BVH	(80°-90°)	122.2	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	1447.5	1447.5	1447.5	1447.5	1447.5	1447.5	1447.5	1447.5	1447.5	1447.5	1447.5
2.5°	1457.0	1454.3	1455.6	1457.0	1455.6	1454.3	1454.3	1454.3	1457.0	1454.3	1461.0
5°	1485.4	1482.7	1484.1	1484.1	1484.1	1481.4	1481.4	1481.4	1480.0	1481.4	1496.3
7.5°	1539.6	1535.6	1534.2	1536.9	1534.2	1532.9	1531.5	1531.5	1528.8	1528.8	1547.8
10°	1604.7	1599.3	1602.0	1603.3	1599.3	1596.6	1596.6	1596.6	1592.5	1591.1	1615.5
12.5°	1676.5	1673.8	1673.8	1671.1	1669.8	1667.0	1665.7	1667.0	1661.6	1661.6	1686.0
15°	1745.7	1740.2	1741.6	1737.5	1734.8	1732.1	1730.7	1729.4	1726.7	1726.7	1741.6
17.5°	1809.4	1805.3	1803.9	1799.9	1795.8	1791.7	1789.0	1787.7	1783.6	1783.6	1797.2
20°	1875.8	1871.7	1869.0	1862.2	1855.4	1851.4	1845.9	1843.2	1837.8	1839.2	1854.1
22.5°	1951.7	1944.9	1939.5	1934.0	1921.8	1913.7	1906.9	1901.5	1898.8	1898.8	1919.1
25°	2053.3	2049.2	2041.1	2023.5	2008.6	1996.4	1985.5	1980.1	1974.7	1972.0	2003.2
27.5°	2178.0	2173.9	2163.1	2145.5	2125.1	2104.8	2092.6	2083.1	2076.4	2072.3	2117.0
30°	2343.3	2336.6	2327.1	2298.6	2281.0	2249.8	2236.3	2222.7	2207.8	2211.9	2264.7
32.5°	2667.3	2657.8	2628.0	2596.8	2542.6	2500.6	2457.2	2424.7	2393.5	2389.4	2446.4
35°	2961.4	2957.3	2951.9	2930.2	2909.9	2884.1	2863.8	2829.9	2801.4	2794.7	2954.6
37.5°	3119.9	3129.4	3121.3	3118.6	3118.6	3130.8	3168.7	3206.7	3233.8	3250.1	3339.5
40°	3362.6	3362.6	3353.1	3347.6	3336.8	3353.1	3369.3	3397.8	3410.0	3411.3	3502.1
42.5°	3637.7	3639.0	3629.5	3613.3	3607.9	3622.8	3644.5	3671.6	3687.8	3691.9	3797.6
45°	3944.0	3939.9	3931.8	3926.4	3930.4	3944.0	3969.7	4022.6	4047.0	4066.0	4181.2
47.5°	4276.0	4303.1	4280.1	4284.2	4284.2	4326.2	4384.5	4427.8	4467.1	4503.7	4625.7
50°	4711.1	4715.2	4719.2	4731.4	4739.6	4795.1	4868.3	4919.8	4976.7	5024.2	5223.4
52.5°	5292.5	5284.4	5304.7	5318.3	5364.4	5394.2	5516.2	5581.2	5659.8	5720.8	6012.2
55°	5987.8	5983.7	6013.6	6024.4	6085.4	6158.6	6294.1	6436.4	6570.6	6645.1	7043.6
57.5°	6486.6	6497.4	6548.9	6620.7	6740.0	6895.9	7097.8	7412.3	7667.1	7748.4	8187.5
60°	6596.3	6631.6	6708.8	6852.5	7057.2	7347.2	7744.3	8225.4	8691.7	8847.5	9259.6
62.5°	6288.7	6329.3	6443.2	6615.3	6882.3	7312.0	7885.3	8564.3	9256.8	9603.8	9811.2
63°	6191.1	6241.3	6326.6	6525.9	6796.9	7221.2	7831.0	8562.9	9281.2	9659.4	9822.0
65°	5733.0	5742.5	5869.9	6069.1	6374.1	6814.6	7429.9	8275.6	9072.5	9508.9	9396.4
67.5°	4933.4	4972.7	5079.7	5280.3	5577.1	6035.2	6703.4	7485.4	8186.1	8534.5	8031.6
70°	3986.0	3983.3	4116.1	4277.4	4539.0	4941.5	5527.0	6233.1	6788.8	7042.2	6200.6
72.5°	2847.5	2777.1	2874.6	3053.5	3267.7	3588.9	4052.4	4601.3	5098.7	5318.3	4533.5
75°	1297.0	1278.1	1364.8	1542.4	1759.2	2045.2	2426.0	2900.4	3377.5	3635.0	2888.2
77.5°	436.4	441.8	475.7	539.4	656.0	799.6	1036.8	1340.4	1726.7	1981.5	1355.3
80°	292.7	300.9	311.7	321.2	334.8	356.4	408.0	486.6	605.8	733.2	428.3
82.5°	239.9	249.4	273.8	284.6	292.7	299.5	303.6	309.0	309.0	311.7	271.1
85°	172.1	188.4	220.9	241.2	249.4	254.8	261.6	269.7	257.5	246.7	210.1
87.5°	59.6	81.3	119.3	131.5	141.0	142.3	151.8	168.1	159.9	130.1	63.7
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: P157386

CATALOG NUMBER: VST-F08-LED-E-U-5MQ-7050

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	70°	75°	80°	85°	90°
0°	1447.5	1447.5	1447.5	1447.5	1447.5	1447.5	1447.5	1447.5	1447.5
2.5°	1454.3	1452.9	1454.3	1455.6	1455.6	1455.6	1457.0	1458.3	1458.3
5°	1481.4	1482.7	1481.4	1482.7	1482.7	1484.1	1484.1	1486.8	1486.8
7.5°	1527.4	1530.2	1528.8	1531.5	1531.5	1534.2	1532.9	1536.9	1536.9
10°	1589.8	1592.5	1595.2	1596.6	1595.2	1597.9	1600.6	1602.0	1600.6
12.5°	1660.3	1661.6	1660.3	1663.0	1663.0	1665.7	1665.7	1669.8	1669.8
15°	1725.3	1724.0	1722.6	1726.7	1729.4	1730.7	1733.5	1737.5	1733.5
17.5°	1783.6	1785.0	1782.2	1786.3	1791.7	1795.8	1798.5	1803.9	1802.6
20°	1841.9	1839.2	1841.9	1848.7	1854.1	1859.5	1864.9	1873.1	1871.7
22.5°	1898.8	1901.5	1908.3	1913.7	1923.2	1931.3	1938.1	1949.0	1953.0
25°	1978.8	1978.8	1989.6	1996.4	2009.9	2020.8	2035.7	2047.9	2054.7
27.5°	2080.4	2080.4	2092.6	2107.5	2127.9	2146.8	2163.1	2179.4	2176.6
30°	2218.7	2225.4	2236.3	2255.3	2282.4	2305.4	2327.1	2343.3	2344.7
32.5°	2400.3	2408.4	2440.9	2489.7	2546.6	2590.0	2622.5	2661.9	2667.3
35°	2812.3	2832.6	2874.6	2913.9	2937.0	2962.7	2979.0	2980.4	2983.1
37.5°	3246.0	3210.8	3178.2	3148.4	3134.9	3132.1	3132.1	3137.6	3140.3
40°	3404.6	3386.9	3372.0	3353.1	3358.5	3357.1	3366.6	3374.7	3380.2
42.5°	3675.6	3662.1	3648.5	3624.1	3637.7	3633.6	3647.2	3659.4	3666.1
45°	4053.8	4011.8	3981.9	3942.6	3956.2	3948.1	3948.1	3963.0	3965.7
47.5°	4471.2	4422.4	4361.4	4312.6	4296.4	4281.5	4295.0	4295.0	4280.1
50°	4971.3	4913.0	4841.2	4762.6	4735.5	4720.6	4726.0	4732.8	4690.8
52.5°	5650.3	5585.3	5483.6	5364.4	5338.6	5326.4	5323.7	5314.2	5303.4
55°	6570.6	6448.6	6323.9	6166.7	6119.3	6105.7	6107.1	6096.2	6122.0
57.5°	7656.2	7477.3	7190.0	6998.9	6885.0	6841.7	6802.4	6786.1	6787.4
60°	8731.0	8366.4	7936.8	7603.4	7364.8	7213.0	7093.8	7027.3	7008.4
62.5°	9423.5	8850.2	8205.1	7664.3	7272.7	7021.9	6833.5	6714.3	6676.3
63°	9477.8	8870.6	8180.7	7600.6	7188.6	6925.7	6727.8	6604.5	6563.8
65°	9359.8	8665.9	7862.2	7171.0	6719.7	6428.3	6214.1	6097.6	6066.4
67.5°	8443.6	7866.3	7047.7	6333.4	5878.0	5582.6	5337.3	5226.1	5190.9
70°	6868.8	6473.0	5802.1	5192.2	4768.0	4483.4	4235.4	4143.2	4141.9
72.5°	5091.9	4578.3	4178.5	3731.2	3361.2	3134.9	2919.4	2816.4	2764.9
75°	3368.0	2817.7	2370.5	1993.7	1625.0	1421.7	1179.1	1074.8	1013.8
77.5°	1696.9	1257.7	901.3	624.8	485.2	398.5	364.6	347.0	345.6
80°	565.2	424.2	364.6	341.5	334.8	336.1	332.1	325.3	317.1
82.5°	313.1	329.3	332.1	322.6	322.6	317.1	311.7	286.0	272.4
85°	268.4	295.5	298.2	292.7	291.4	283.3	273.8	238.5	218.2
87.5°	168.1	193.8	189.7	169.4	187.0	174.8	165.3	107.1	78.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)