

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: INVUE

Report Number: P149276

Luminaire Tested: **VXM-F05-LED-E1-SL2-HSS-7050**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P149276
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: VXM-F05-LED-E1-SL2-HSS-7050
Description: VISION SITE MEDIUM LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (35) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7765.9 lumens
Efficiency: N/A
Efficacy: 58.3 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 133.3
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: 25 FT

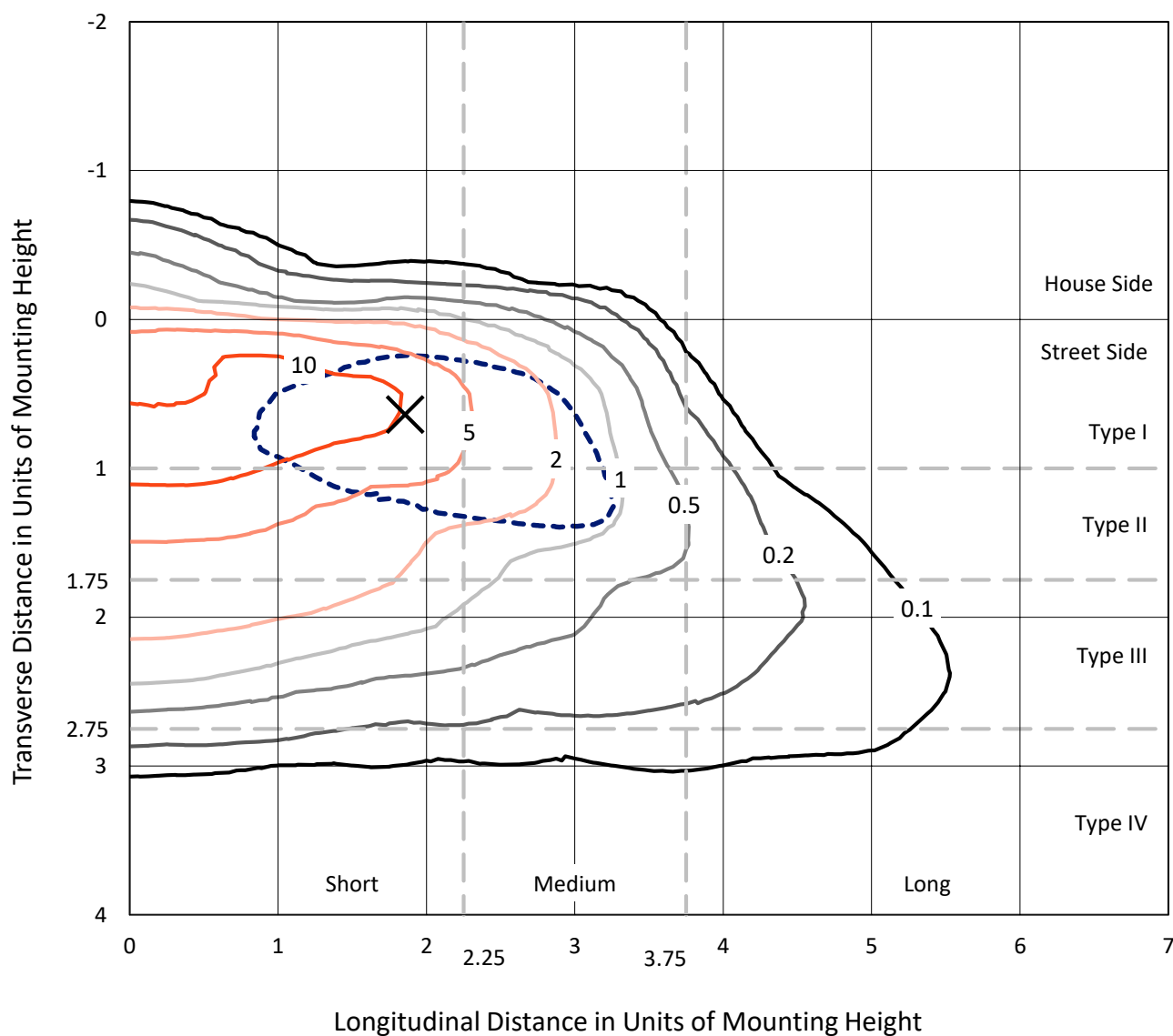


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

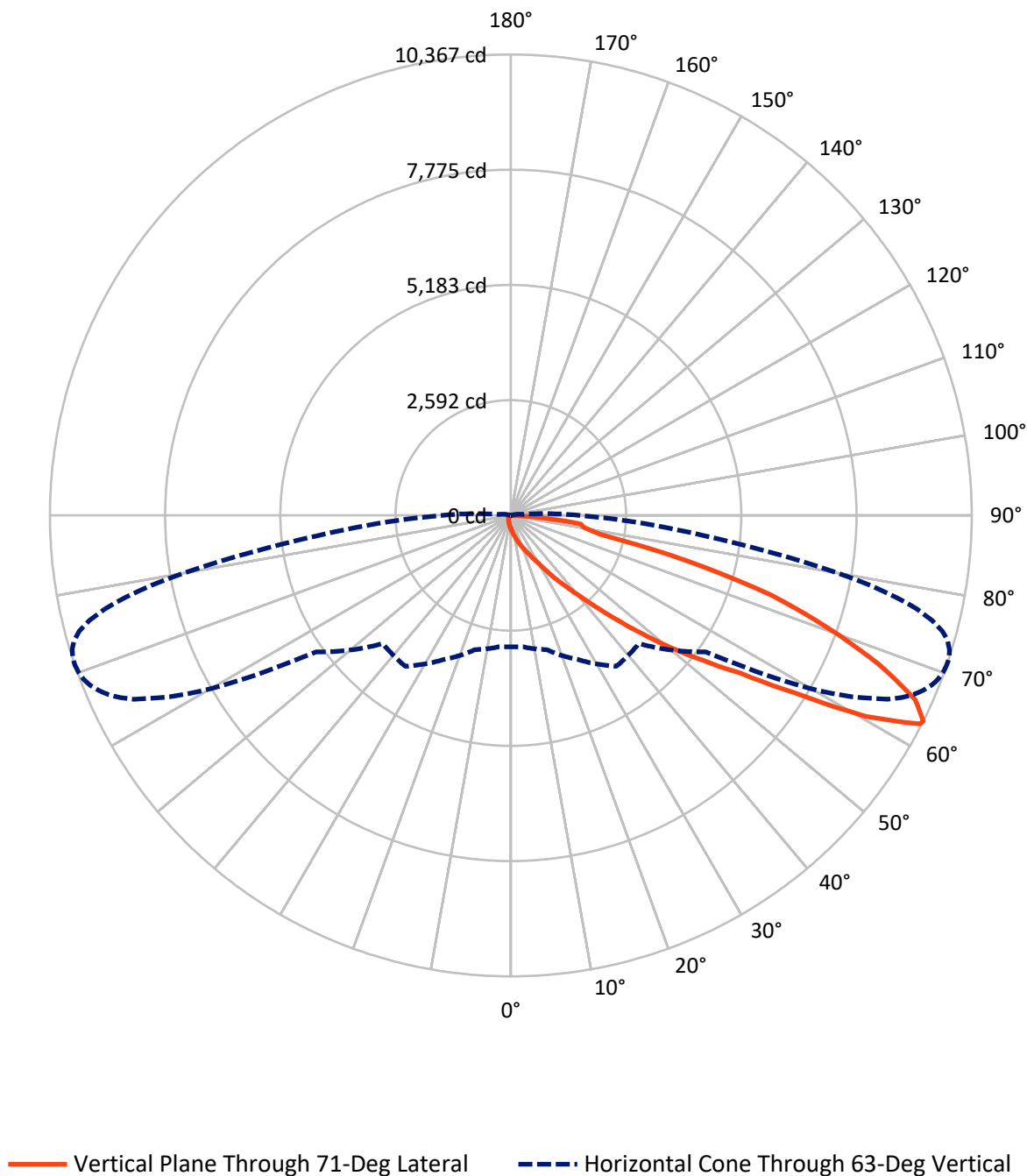


Based on 10 foot mounting height. Maximum calculated value = 16.3 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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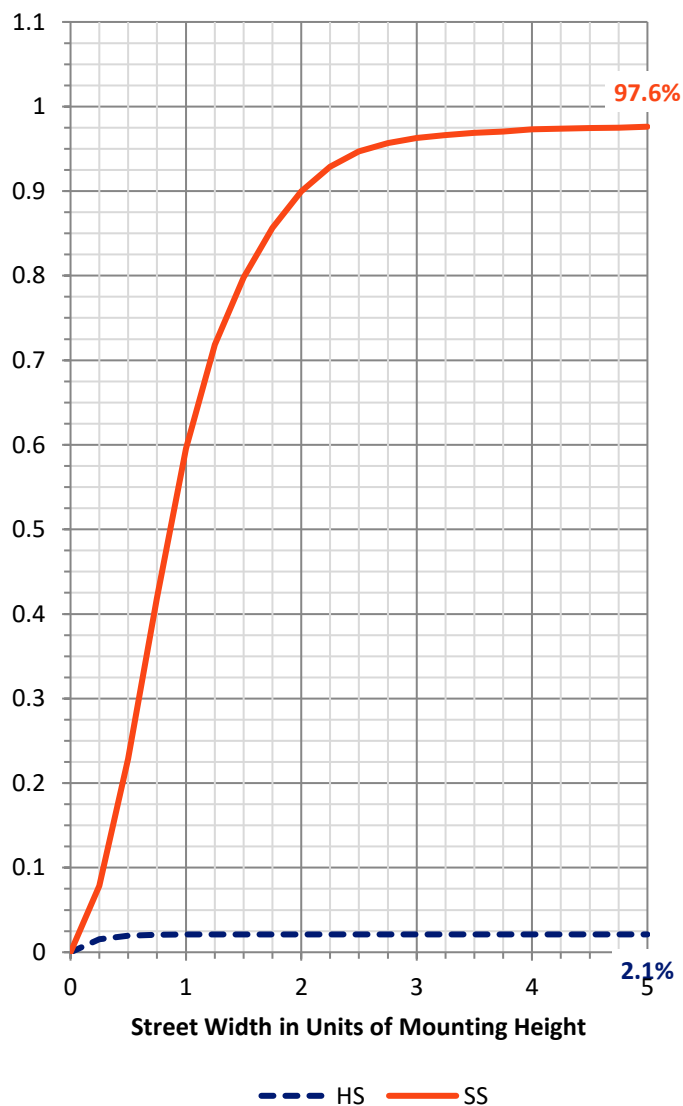
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	164.9	0.0	164.9
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	7601.0	0.0	7601.0
	% Fixture	97.9	0.0	97.9
Total	Lumens	7765.9	0.0	7765.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.9	0.4
10°-20°	127.7	1.6
20°-30°	259.4	3.3
30°-40°	633.7	8.2
40°-50°	1417.1	18.2
50°-60°	1992.7	25.7
60°-70°	2343.2	30.2
70°-80°	846.1	10.9
80°-90°	113.1	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°	7765.9	100.0
0°-180°	7765.9	100.0

Coefficient of Utilization



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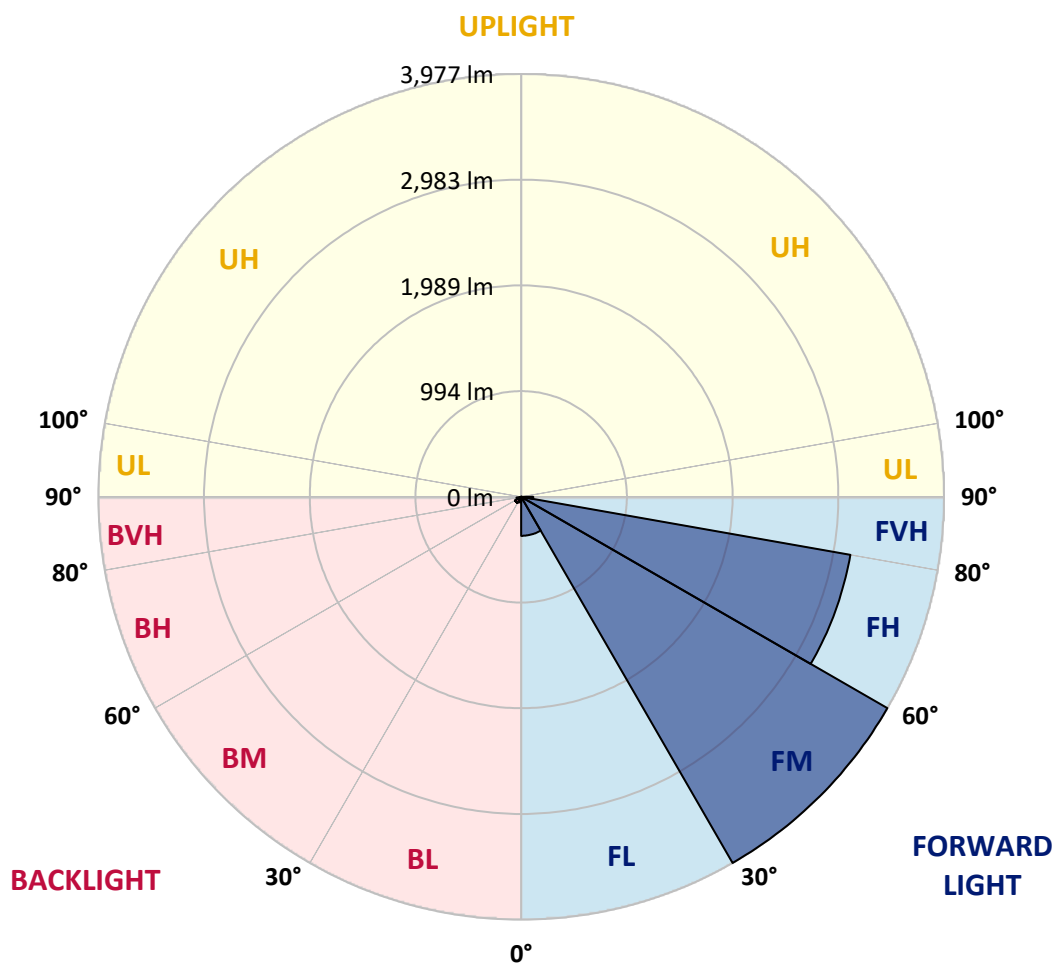
CATALOG NUMBER: VXM-F05-LED-E1-SL2-HSS-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	367.0	4.7			
FM	(30°-60°)	3977.0	51.2			
FH	(60°-80°)	3144.1	40.5			G2/5000
FVH	(80°-90°)	112.9	1.5			G2/225
BL	(0°-30°)	53.0	0.7	B0/110		
BM	(30°-60°)	66.4	0.9	B0/220		
BH	(60°-80°)	45.2	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°	297.9	297.9	297.9	297.9	297.9	297.9	297.9	297.9	297.9	297.9	297.9
2.5°	389.7	393.9	391.1	384.0	375.5	364.2	354.4	354.4	352.9	348.7	350.1
5°	511.1	512.5	506.8	489.9	474.4	450.4	423.5	420.7	417.9	413.7	412.2
7.5°	629.7	635.3	629.7	611.3	580.2	543.5	501.2	497.0	488.5	488.5	482.8
10°	751.1	751.1	745.4	724.2	696.0	643.8	590.1	583.1	573.2	570.4	561.9
12.5°	837.2	837.2	834.4	823.1	800.5	753.9	689.0	681.9	669.2	665.0	655.1
15°	871.1	871.1	872.5	882.4	883.8	862.6	794.8	789.2	776.5	765.2	761.0
17.5°	892.3	890.8	890.8	905.0	930.4	944.5	900.7	895.1	881.0	875.3	861.2
20°	938.8	936.0	927.5	927.5	951.5	1001.0	1001.0	999.5	984.0	979.8	972.7
22.5°	1008.0	1005.2	979.8	958.6	969.9	1032.0	1089.9	1087.1	1081.4	1075.8	1071.6
25°	1121.0	1111.1	1067.3	1005.2	995.3	1061.7	1157.7	1164.7	1169.0	1169.0	1171.8
27.5°	1291.8	1279.1	1201.4	1085.7	1041.9	1109.7	1232.5	1246.6	1259.3	1262.1	1274.8
30°	1529.0	1506.4	1394.9	1225.4	1125.2	1180.3	1342.6	1358.1	1376.5	1382.1	1401.9
32.5°	1918.6	1905.9	1798.6	1544.5	1329.9	1318.6	1496.5	1516.3	1540.3	1550.1	1574.1
35°	2511.6	2514.4	2426.9	2198.2	1901.7	1746.4	1771.8	1788.7	1797.2	1826.9	1839.6
37.5°	2913.9	2921.0	2940.8	2850.4	2638.6	2480.5	2281.5	2299.8	2256.0	2260.3	2261.7
40°	3134.2	3156.8	3272.5	3360.1	3343.1	3251.4	3091.8	3101.7	3019.8	3001.5	2912.5
42.5°	3281.0	3310.7	3495.6	3766.7	3905.0	3988.3	3951.6	3947.4	3883.8	3859.8	3785.0
45°	3372.8	3399.6	3632.5	4032.1	4351.1	4594.0	4694.2	4705.5	4651.9	4627.9	4565.7
47.5°	3368.5	3399.6	3649.5	4130.9	4601.0	4989.3	5271.6	5285.8	5318.2	5297.0	5301.3
50°	3182.2	3211.8	3463.1	3962.9	4527.6	5170.0	5686.7	5731.9	5784.1	5819.4	5836.4
52.5°	2956.3	2977.5	3200.5	3674.9	4214.2	5095.2	5932.4	6010.0	6087.7	6154.0	6200.6
55°	2873.0	2897.0	3072.1	3466.0	3962.9	4781.7	6046.7	6161.1	6271.2	6379.9	6468.8
57.5°	2916.8	2939.4	3065.0	3367.1	3813.3	4451.4	6079.2	6257.1	6437.8	6614.2	6789.3
60°	3077.7	3101.7	3209.0	3458.9	3773.7	4260.8	5952.1	6247.2	6547.9	6855.7	7145.1
62.5°	3014.2	3024.1	3182.2	3619.8	4056.1	4098.4	5490.5	5902.7	6361.5	6835.9	7303.2
63°	2953.5	2964.8	3125.7	3576.1	4142.2	4074.4	5347.9	5782.7	6266.9	6778.0	7286.3
65°	2678.2	2679.6	2802.4	3158.2	4046.2	4116.8	4712.6	5127.6	5683.9	6296.6	6939.0
67.5°	1999.1	1989.2	2107.8	2378.9	3176.5	4118.2	4044.8	4277.7	4664.6	5208.1	5784.1
70°	708.7	693.2	885.2	1260.7	1979.3	3368.5	3475.8	3491.4	3598.7	3892.3	4253.7
72.5°	230.1	234.4	282.4	461.7	912.0	2267.3	3146.9	3098.9	3070.6	3069.2	3117.2
75°	91.8	93.2	112.9	204.7	409.4	1092.7	2755.8	2782.6	2792.5	2806.6	2822.2
77.5°	43.8	48.0	63.5	114.4	203.3	540.7	1972.3	2199.6	2329.5	2429.7	2490.4
80°	15.5	18.4	35.3	70.6	94.6	248.5	1039.1	1253.7	1444.3	1689.9	1901.7
82.5°	0.0	0.0	7.1	49.4	52.2	100.2	426.4	499.8	571.8	741.2	951.5
85°	0.0	0.0	0.0	14.1	15.5	16.9	144.0	173.7	194.8	227.3	262.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.2	8.5	21.2	32.5
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°	297.9	297.9	297.9	297.9	297.9	297.9	297.9	297.9	297.9	297.9	297.9
2.5°	347.3	345.9	345.9	343.1	341.7	338.8	337.4	333.2	331.8	331.8	331.8
5°	410.8	405.2	402.4	395.3	391.1	389.7	382.6	379.8	375.5	376.9	369.9
7.5°	481.4	471.5	467.3	457.4	454.6	444.7	441.9	434.8	430.6	422.1	419.3
10°	559.1	546.4	539.3	523.8	519.5	512.5	504.0	495.5	488.5	480.0	475.8
12.5°	648.0	636.7	631.1	609.9	600.0	590.1	578.8	567.5	556.2	549.2	539.3
15°	752.5	734.1	728.5	708.7	691.8	679.1	663.5	649.4	641.0	626.8	617.0
17.5°	855.5	837.2	833.0	803.3	785.0	776.5	759.5	741.2	725.7	711.5	696.0
20°	958.6	945.9	934.6	906.4	886.6	872.5	849.9	831.5	818.8	799.1	779.3
22.5°	1061.7	1049.0	1040.5	1010.8	992.5	972.7	953.0	933.2	914.8	890.8	868.3
25°	1167.6	1159.1	1154.8	1128.0	1111.1	1092.7	1073.0	1050.4	1027.8	1001.0	977.0
27.5°	1277.7	1280.5	1272.0	1266.4	1248.0	1235.3	1204.3	1188.7	1171.8	1139.3	1109.7
30°	1417.4	1425.9	1423.1	1427.3	1416.0	1407.6	1383.6	1363.8	1344.0	1313.0	1279.1
32.5°	1593.9	1605.2	1610.9	1626.4	1620.7	1617.9	1610.9	1582.6	1568.5	1514.9	1500.7
35°	1866.4	1860.7	1884.7	1897.4	1891.8	1889.0	1880.5	1865.0	1848.0	1809.9	1774.6
37.5°	2220.7	2226.4	2234.9	2209.5	2192.5	2191.1	2165.7	2150.2	2126.2	2083.8	2041.5
40°	2870.2	2834.9	2795.3	2688.1	2641.5	2614.6	2539.8	2518.6	2477.7	2419.8	2376.0
42.5°	3714.4	3679.1	3560.5	3381.2	3285.2	3152.5	3091.8	3017.0	2959.1	2864.5	2813.7
45°	4553.0	4451.4	4437.3	4228.3	4109.7	3934.7	3826.0	3700.3	3569.0	3444.8	3354.4
47.5°	5260.3	5237.8	5168.6	5041.5	4931.4	4784.6	4644.8	4451.4	4315.9	4139.4	3977.0
50°	5826.5	5825.1	5799.6	5726.2	5634.5	5515.9	5393.0	5229.3	5075.4	4859.4	4685.7
52.5°	6250.0	6272.6	6281.1	6258.5	6223.2	6118.7	6056.6	5919.6	5789.8	5606.2	5418.5
55°	6560.6	6643.9	6686.3	6734.3	6724.4	6687.7	6684.8	6595.9	6536.6	6391.2	6258.5
57.5°	6944.6	7081.6	7212.8	7445.8	7454.3	7536.1	7578.5	7620.9	7632.2	7574.3	7530.5
60°	7433.1	7712.6	7961.1	8448.2	8575.2	8775.7	8905.6	9046.8	9166.8	9176.7	9173.8
62.5°	7777.6	8208.2	8609.1	9331.9	9579.0	9810.5	9984.2	10121.1	10204.4	10289.1	10328.7
63°	7787.4	8259.0	8685.3	9430.8	9690.5	9910.8	10076.0	10203.0	10290.6	10341.4	10366.8
65°	7548.9	8120.6	8628.9	9371.5	9615.7	9837.4	9923.5	10006.8	10049.1	10068.9	9994.1
67.5°	6398.2	6957.3	7550.3	8380.4	8589.3	8854.8	8925.4	8967.7	8987.5	8983.2	8919.7
70°	4784.6	5253.3	5912.6	6861.3	7138.0	7397.8	7558.7	7627.9	7650.5	7643.4	7548.9
72.5°	3340.3	3615.6	4159.1	5215.2	5592.1	5925.3	6124.4	6227.4	6248.6	6206.2	6118.7
75°	2805.2	2819.4	2942.2	3519.6	3872.5	4228.3	4452.8	4517.7	4475.4	4346.9	4123.8
77.5°	2504.5	2535.6	2535.6	2621.7	2690.9	2789.7	2810.9	2652.8	2469.2	2232.0	2040.0
80°	2100.7	2209.5	2285.7	2349.2	2356.3	2336.5	2284.3	2195.3	2054.2	1873.4	1673.0
82.5°	1276.3	1490.9	1578.4	1905.9	2066.9	2175.6	2167.1	2048.5	1941.2	1753.4	1582.6
85°	321.9	347.3	376.9	489.9	549.2	670.6	746.8	782.1	794.8	729.9	660.7
87.5°	31.1	21.2	35.3	26.8	38.1	28.2	38.1	35.3	43.8	46.6	50.8
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°	297.9	297.9	297.9	297.9	297.9	297.9	297.9	297.9	297.9	297.9	297.9
2.5°	328.9	327.5	326.1	324.7	323.3	321.9	319.1	319.1	316.2	314.8	313.4
5°	365.7	362.8	361.4	358.6	354.4	351.5	347.3	341.7	337.4	336.0	333.2
7.5°	412.2	405.2	402.4	398.1	392.5	384.0	378.4	374.1	367.1	362.8	354.4
10°	464.5	457.4	449.0	440.5	432.0	422.1	415.1	409.4	398.1	392.5	382.6
12.5°	530.8	518.1	508.2	497.0	485.7	474.4	465.9	449.0	439.1	426.4	417.9
15°	598.6	587.3	576.0	561.9	545.0	526.6	518.1	502.6	489.9	470.1	458.8
17.5°	680.5	659.3	642.4	625.4	609.9	593.0	576.0	552.0	533.7	516.7	494.1
20°	761.0	735.5	717.2	694.6	672.0	645.2	625.4	608.5	583.1	560.5	536.5
22.5°	847.1	821.7	792.0	769.4	738.4	717.2	690.4	662.1	636.7	607.1	577.4
25°	951.5	924.7	890.8	861.2	825.9	796.3	763.8	731.3	700.2	666.4	628.2
27.5°	1080.0	1051.8	1015.1	979.8	933.2	896.5	865.4	821.7	782.1	739.8	696.0
30°	1242.4	1211.3	1166.1	1115.3	1068.7	1027.8	984.0	926.1	882.4	831.5	775.1
32.5°	1454.1	1417.4	1356.7	1308.7	1250.8	1197.2	1136.5	1078.6	1016.5	950.1	885.2
35°	1721.0	1687.1	1616.5	1545.9	1482.4	1418.9	1342.6	1276.3	1188.7	1108.3	1025.0
37.5°	1997.7	1937.0	1872.0	1795.8	1716.7	1640.5	1547.3	1455.6	1355.3	1267.8	1163.3
40°	2313.9	2240.5	2186.9	2105.0	1993.5	1884.7	1798.6	1684.3	1558.6	1441.4	1318.6
42.5°	2747.3	2665.5	2569.5	2445.2	2364.8	2237.7	2126.2	1990.6	1825.4	1694.2	1545.9
45°	3248.5	3137.0	3043.8	2923.8	2826.4	2668.3	2538.4	2357.7	2192.5	2020.3	1839.6
47.5°	3820.3	3682.0	3546.4	3427.8	3272.5	3117.2	2952.1	2760.1	2548.3	2359.1	2144.5
50°	4476.8	4280.6	4092.8	3940.3	3727.1	3547.8	3368.5	3152.5	2918.2	2700.8	2456.5
52.5°	5206.7	4979.4	4730.9	4496.6	4249.5	4019.4	3803.4	3554.9	3293.7	3028.3	2755.8
55°	6087.7	5916.8	5624.6	5326.7	4996.3	4688.6	4410.4	4102.7	3785.0	3436.3	3149.7
57.5°	7467.0	7383.7	7139.4	6841.5	6411.0	6036.8	5565.3	5188.3	4728.1	4248.1	3878.2
60°	9336.2	9233.1	9096.2	8854.8	8513.1	8004.9	7485.3	6899.4	6199.2	5534.2	4903.2
62.5°	10332.9	10296.2	10184.7	10018.1	9699.0	9298.1	8774.3	8130.5	7339.9	6532.4	5727.6
63°	10362.6	10316.0	10220.0	10050.6	9769.6	9381.4	8867.5	8242.0	7468.4	6645.3	5823.6
65°	9961.6	9943.3	9845.8	9660.9	9468.9	9172.4	8774.3	8236.4	7587.0	6809.1	5991.6
67.5°	8835.0	8779.9	8630.3	8573.8	8439.7	8233.6	7930.0	7560.1	7095.7	6484.4	5778.5
70°	7472.6	7390.7	7203.0	7102.7	6939.0	6809.1	6624.1	6360.1	6073.5	5647.2	5120.6
72.5°	6028.4	5858.9	5686.7	5425.5	5196.8	4965.3	4760.6	4574.2	4259.4	4087.1	3687.6
75°	3914.9	3607.1	3312.1	2916.8	2561.0	2246.2	1939.8	1784.5	1461.2	1329.9	1142.1
77.5°	1857.9	1685.7	1454.1	1274.8	1046.1	854.1	697.4	523.8	410.8	321.9	245.7
80°	1499.3	1353.9	1214.1	1051.8	879.5	701.7	537.9	402.4	285.2	197.7	139.8
82.5°	1337.0	1178.8	1006.6	895.1	777.9	636.7	522.4	426.4	314.8	230.1	156.7
85°	519.5	437.7	337.4	275.3	214.6	176.5	159.5	110.1	86.1	67.8	52.2
87.5°	45.2	36.7	29.6	19.8	21.2	11.3	12.7	8.5	7.1	7.1	5.6
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°	297.9	297.9	297.9	297.9	297.9	297.9	297.9	297.9	297.9	297.9	297.9
2.5°	312.0	310.6	309.2	306.4	306.4	303.5	302.1	300.7	293.7	278.1	265.4
5°	327.5	324.7	321.9	317.7	314.8	310.6	307.8	303.5	288.0	258.4	232.9
7.5°	350.1	344.5	340.2	331.8	327.5	321.9	317.7	310.6	285.2	240.0	204.7
10°	376.9	367.1	360.0	350.1	341.7	334.6	327.5	317.7	282.4	220.2	179.3
12.5°	409.4	398.1	384.0	372.7	361.4	351.5	341.7	328.9	278.1	203.3	159.5
15°	441.9	424.9	415.1	399.5	384.0	369.9	355.8	344.5	279.5	184.9	142.6
17.5°	478.6	461.7	440.5	423.5	406.6	388.2	371.3	348.7	272.5	170.8	129.9
20°	513.9	489.9	470.1	449.0	424.9	402.4	381.2	361.4	266.8	156.7	118.6
22.5°	552.0	523.8	498.4	471.5	441.9	416.5	391.1	365.7	256.9	144.0	108.7
25°	598.6	566.1	529.4	497.0	465.9	434.8	402.4	371.3	247.1	132.7	101.6
27.5°	655.1	612.7	576.0	535.1	491.3	451.8	416.5	382.6	237.2	124.2	94.6
30°	727.1	677.7	625.4	573.2	526.6	481.4	432.0	389.7	227.3	115.8	87.5
32.5°	823.1	761.0	697.4	636.7	574.6	516.7	464.5	409.4	221.7	108.7	80.5
35°	950.1	869.7	792.0	715.8	641.0	570.4	502.6	440.5	221.7	100.2	72.0
37.5°	1070.1	977.0	878.1	783.5	694.6	612.7	532.2	457.4	210.4	93.2	64.9
40°	1200.0	1088.5	972.7	861.2	753.9	652.2	560.5	474.4	200.5	84.7	57.9
42.5°	1399.1	1257.9	1106.8	977.0	848.5	722.8	608.5	506.8	187.8	76.2	50.8
45°	1660.3	1481.0	1303.1	1145.0	981.2	827.3	691.8	566.1	184.9	69.2	43.8
47.5°	1939.8	1728.0	1519.1	1317.2	1125.2	945.9	783.5	632.5	184.9	62.1	38.1
50°	2217.9	1952.5	1729.4	1495.1	1279.1	1067.3	873.9	701.7	186.4	56.5	31.1
52.5°	2469.2	2185.5	1935.6	1664.5	1425.9	1180.3	969.9	769.4	183.5	49.4	25.4
55°	2817.9	2484.8	2195.3	1896.0	1616.5	1339.8	1101.2	871.1	184.9	43.8	21.2
57.5°	3460.3	3069.2	2720.5	2328.0	2006.2	1649.0	1359.6	1080.0	201.9	36.7	15.5
60°	4382.2	3874.0	3384.1	2905.5	2496.0	2071.1	1695.6	1366.6	237.2	29.6	11.3
62.5°	5002.0	4337.0	3752.5	3224.5	2748.8	2304.0	1894.6	1520.5	261.2	24.0	7.1
63°	5065.5	4378.0	3790.7	3245.7	2760.1	2315.3	1903.1	1531.8	262.6	22.6	7.1
65°	5185.5	4448.6	3811.8	3249.9	2748.8	2299.8	1897.4	1530.4	265.4	18.4	5.6
67.5°	5048.6	4339.9	3689.0	3128.5	2649.9	2208.0	1826.9	1473.9	264.0	12.7	4.2
70°	4514.9	3927.6	3355.8	2833.5	2398.6	1999.1	1663.1	1344.0	242.8	8.5	2.8
72.5°	3314.9	2915.4	2472.0	2095.1	1807.1	1500.7	1280.5	1009.4	187.8	5.6	1.4
75°	982.6	895.1	752.5	663.5	585.9	484.2	430.6	336.0	96.0	2.8	0.0
77.5°	196.2	177.9	159.5	145.4	136.9	117.2	111.5	91.8	39.5	1.4	0.0
80°	103.1	84.7	72.0	63.5	55.1	45.2	38.1	31.1	7.1	0.0	0.0
82.5°	98.8	66.4	48.0	39.5	33.9	26.8	21.2	15.5	4.2	0.0	0.0
85°	36.7	28.2	21.2	16.9	14.1	12.7	9.9	8.5	0.0	0.0	0.0
87.5°	5.6	4.2	4.2	2.8	2.8	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: VXM-F05-LED-E1-SL2-HSS-7050

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	297.9	297.9	297.9	297.9	297.9	297.9	297.9
2.5°	252.7	241.4	235.8	228.7	228.7	227.3	230.1
5°	210.4	194.8	183.5	175.1	176.5	172.2	173.7
7.5°	177.9	162.4	152.5	146.8	145.4	144.0	144.0
10°	153.9	139.8	131.3	127.1	125.6	125.6	125.6
12.5°	136.9	122.8	115.8	112.9	112.9	111.5	111.5
15°	122.8	111.5	104.5	101.6	101.6	100.2	101.6
17.5°	111.5	100.2	94.6	91.8	91.8	90.4	90.4
20°	101.6	91.8	86.1	81.9	81.9	80.5	81.9
22.5°	93.2	83.3	76.2	73.4	72.0	70.6	72.0
25°	84.7	74.8	67.8	63.5	62.1	62.1	60.7
27.5°	77.6	67.8	59.3	55.1	53.6	53.6	52.2
30°	70.6	59.3	50.8	46.6	45.2	45.2	45.2
32.5°	63.5	50.8	43.8	39.5	38.1	38.1	38.1
35°	56.5	43.8	36.7	32.5	31.1	31.1	31.1
37.5°	48.0	36.7	28.2	25.4	24.0	22.6	22.6
40°	40.9	28.2	21.2	18.4	15.5	15.5	15.5
42.5°	33.9	22.6	15.5	11.3	9.9	8.5	9.9
45°	28.2	16.9	9.9	5.6	4.2	4.2	4.2
47.5°	22.6	11.3	4.2	1.4	1.4	1.4	1.4
50°	16.9	7.1	1.4	0.0	0.0	1.4	1.4
52.5°	12.7	4.2	0.0	0.0	0.0	0.0	0.0
55°	7.1	1.4	0.0	0.0	0.0	0.0	0.0
57.5°	4.2	0.0	0.0	0.0	0.0	0.0	0.0
60°	2.8	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)