

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: P149883

Luminaire Tested: **VXS-F03-LED-E1-SL2-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P149883
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33678)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: VXS-F03-LED-E1-SL2-8030
Description: VISION SITE SMALL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6385.8 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - 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: 25 FT



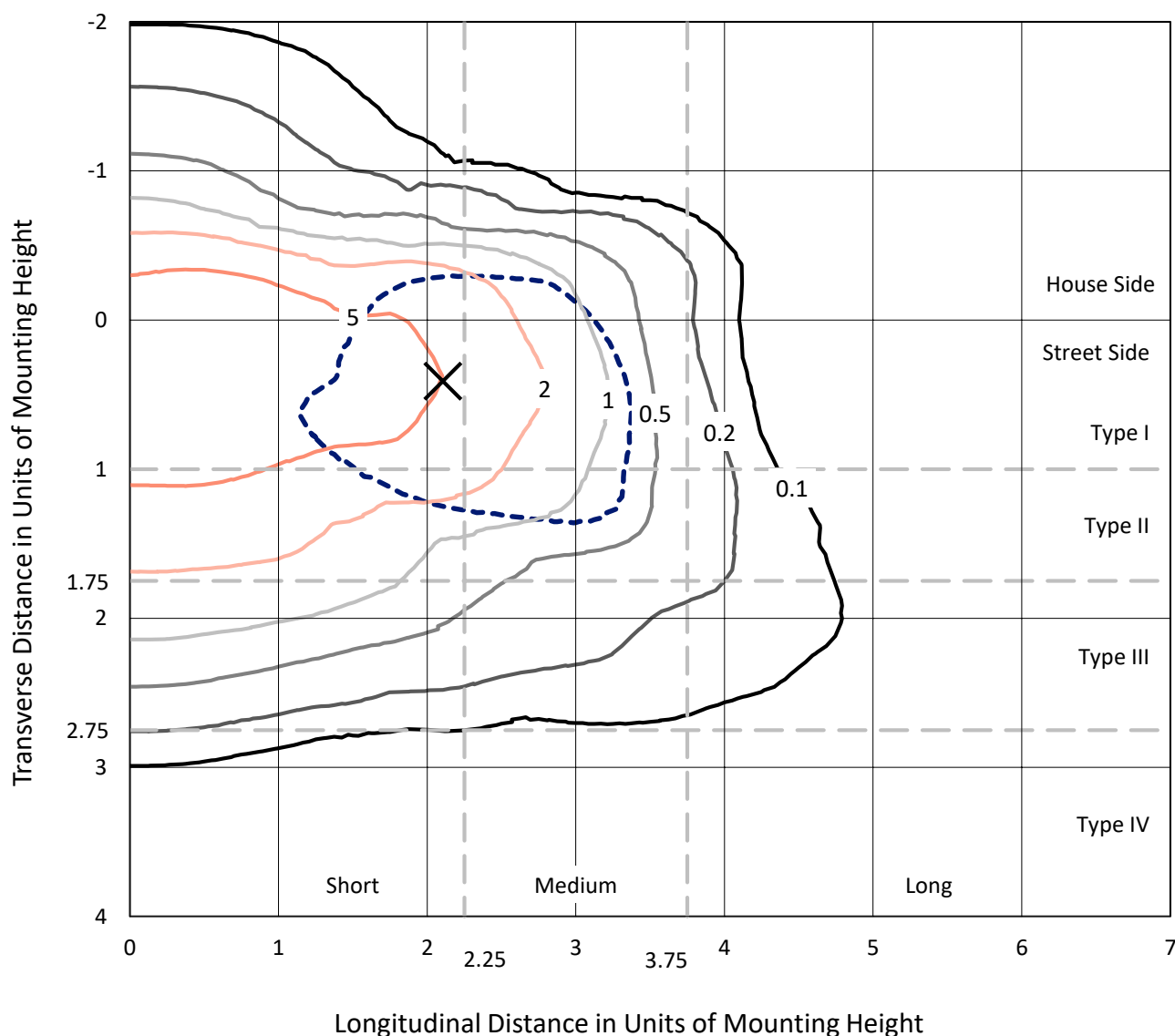
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

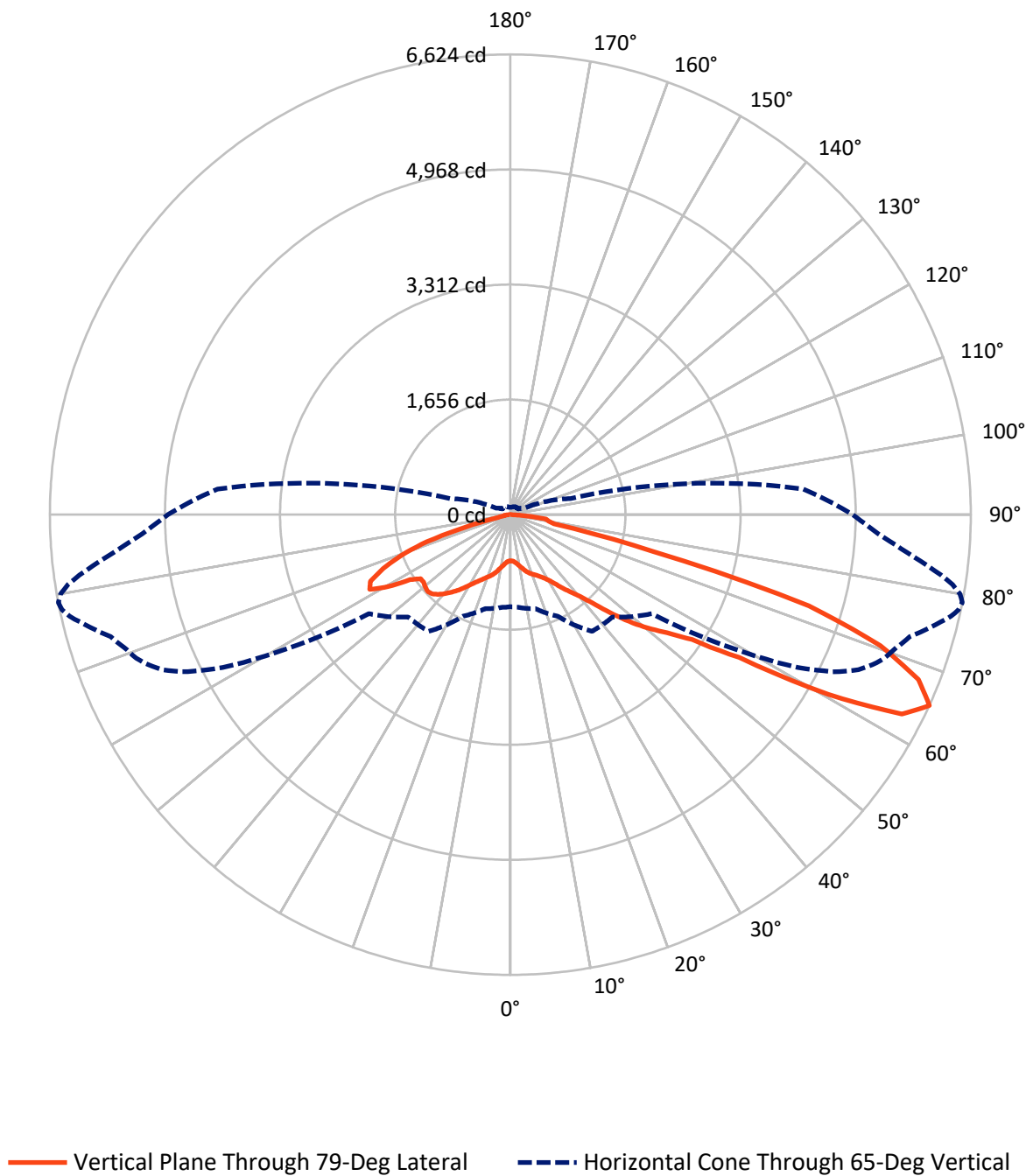


Based on 10 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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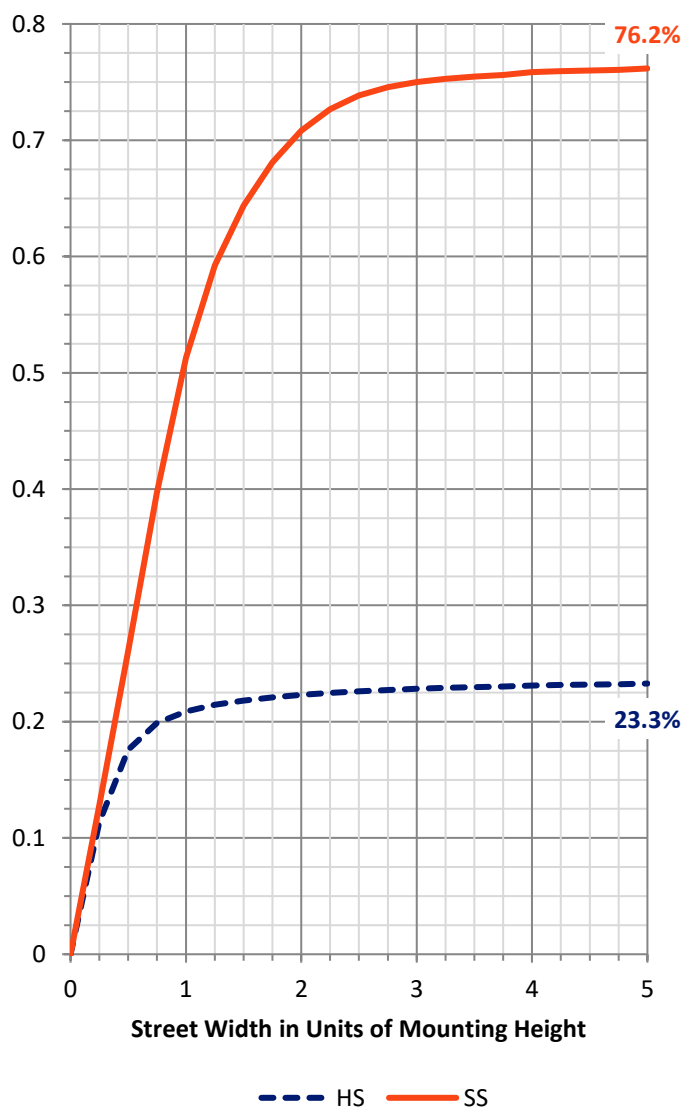
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1509.6	0.0	1509.6
	% Fixture	23.6	0.0	23.6
Street Side	Lumens	4876.2	0.0	4876.2
	% Fixture	76.4	0.0	76.4
Total	Lumens	6385.8	0.0	6385.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.1	1.0
10°-20°	216.0	3.4
20°-30°	373.2	5.8
30°-40°	617.7	9.7
40°-50°	1047.6	16.4
50°-60°	1391.9	21.8
60°-70°	1798.0	28.2
70°-80°	754.1	11.8
80°-90°	121.1	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°	6385.8	100.0
0°-180°	6385.8	100.0

Coefficient of Utilization



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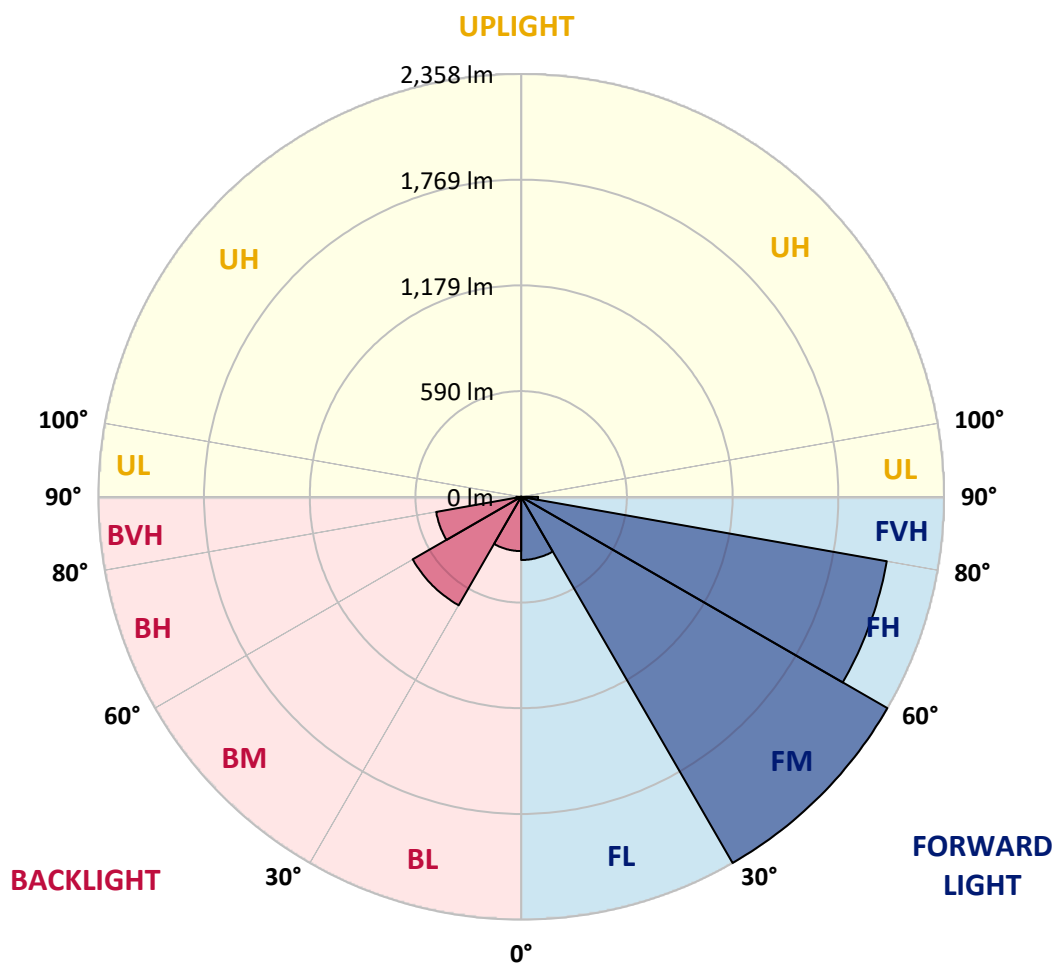
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	352.3	5.5			
FM	(30°-60°)	2358.5	36.9			
FH	(60°-80°)	2070.7	32.4			G2/5000
FVH	(80°-90°)	94.7	1.5			G1/100
BL	(0°-30°)	302.9	4.7	B1/500		
BM	(30°-60°)	698.8	10.9	B1/1000		
BH	(60°-80°)	481.4	7.5	B1/500		G1/500
BVH	(80°-90°)	26.4	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	664.7	664.7	664.7	664.7	664.7	664.7	664.7	664.7	664.7	664.7	664.7
2.5°	662.6	664.7	663.3	664.7	666.1	666.7	668.2	667.5	667.5	668.2	666.7
5°	662.6	662.6	664.7	668.2	669.5	673.8	678.7	677.9	678.7	677.9	679.3
7.5°	676.6	675.9	677.9	682.1	683.5	689.7	698.1	699.5	700.9	700.9	703.0
10°	700.9	700.2	702.3	704.4	706.5	711.4	723.2	728.1	728.8	729.5	732.2
12.5°	731.6	730.9	728.1	728.1	727.4	736.5	752.4	761.6	762.9	765.7	767.8
15°	753.2	751.1	746.9	744.1	747.6	762.3	785.9	796.4	797.7	799.9	805.4
17.5°	774.1	772.0	762.9	756.0	760.8	784.6	816.6	827.8	830.5	832.6	838.9
20°	803.3	802.0	788.7	772.0	770.6	801.2	840.3	854.9	857.0	859.8	866.0
22.5°	847.9	841.7	826.3	795.0	779.7	811.0	857.0	877.2	880.0	882.8	891.1
25°	903.6	900.8	874.4	826.3	794.3	820.7	875.1	900.2	904.4	907.9	919.0
27.5°	961.5	957.3	928.7	866.0	820.1	840.3	903.6	932.2	937.8	943.4	953.8
30°	1013.1	1011.7	988.0	919.7	861.9	877.2	949.6	984.5	990.8	997.7	1007.5
32.5°	1134.3	1135.0	1110.6	1040.9	962.9	944.0	1015.9	1068.1	1070.9	1079.3	1096.7
35°	1366.3	1369.1	1360.0	1305.0	1217.2	1139.9	1146.8	1198.3	1201.1	1208.2	1224.9
37.5°	1521.7	1527.3	1555.1	1572.5	1528.0	1492.4	1403.9	1383.7	1385.8	1381.7	1378.1
40°	1607.4	1615.8	1688.9	1779.5	1828.2	1828.9	1790.6	1701.5	1667.3	1657.5	1615.8
42.5°	1656.2	1670.1	1773.9	1928.6	2068.6	2164.8	2188.5	2089.5	2064.5	2019.8	1939.7
45°	1688.2	1704.9	1827.6	2039.4	2245.6	2409.3	2532.6	2488.7	2472.0	2444.9	2371.0
47.5°	1682.6	1695.9	1823.3	2077.0	2338.2	2571.0	2789.7	2835.0	2814.8	2807.9	2757.7
50°	1580.9	1592.7	1722.3	1983.6	2287.4	2632.2	2952.7	3080.9	3080.9	3094.2	3078.9
52.5°	1472.2	1482.0	1599.7	1834.5	2122.9	2572.3	3043.3	3255.9	3283.7	3306.7	3342.9
55°	1431.1	1442.9	1532.1	1732.7	1982.9	2400.9	3074.0	3386.8	3438.3	3477.4	3559.6
57.5°	1450.6	1462.5	1525.8	1677.7	1900.7	2226.1	3075.4	3563.1	3662.7	3742.9	3909.4
60°	1534.9	1546.0	1599.0	1728.6	1879.1	2125.1	3016.2	3843.9	4002.7	4153.3	4430.6
62.5°	1495.9	1509.8	1587.2	1813.0	2040.0	2048.4	2802.3	4061.2	4317.0	4539.3	4980.3
65°	1325.2	1339.8	1400.4	1611.5	2049.8	2081.9	2485.3	4065.5	4383.2	4683.4	5159.4
67.5°	1006.1	1011.7	1059.7	1229.0	1639.4	2118.8	2159.2	3584.0	3886.4	4221.6	4712.7
70°	514.2	523.9	537.9	678.7	1055.5	1750.9	1855.4	2641.3	3026.6	3372.8	3963.0
72.5°	178.3	181.9	195.8	259.2	514.2	1148.9	1624.0	1810.2	2042.8	2366.8	3050.3
75°	107.3	107.3	112.1	131.0	234.8	598.4	1445.1	1478.4	1509.8	1618.5	2065.8
77.5°	85.0	86.4	86.4	89.8	130.3	307.3	1097.4	1374.6	1378.9	1389.3	1464.6
80°	60.6	63.4	69.0	71.8	84.4	168.6	616.0	1206.7	1288.9	1328.7	1383.7
82.5°	45.3	48.1	58.5	62.0	65.5	94.1	276.6	832.6	982.4	1061.9	1255.5
85°	20.2	23.7	39.7	43.9	46.0	50.2	129.6	236.9	272.4	305.9	403.4
87.5°	3.5	3.5	6.3	9.0	13.3	12.5	28.6	40.4	41.1	48.1	53.7
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	664.7	664.7	664.7	664.7	664.7	664.7	664.7	664.7	664.7	664.7	664.7
2.5°	666.7	666.7	666.7	666.1	666.7	666.7	666.7	666.7	667.5	667.5	667.5
5°	681.5	680.0	680.7	680.7	680.7	680.0	681.5	680.7	681.5	683.5	682.8
7.5°	703.0	704.4	705.1	705.8	705.8	705.8	706.5	707.9	707.9	709.9	709.3
10°	735.0	734.4	735.0	737.1	739.3	739.9	742.1	741.3	742.7	745.5	748.3
12.5°	769.2	770.6	772.6	774.8	778.2	779.0	781.0	781.8	785.9	785.9	788.7
15°	807.6	808.2	812.4	813.1	817.3	818.7	822.2	823.5	828.4	829.1	831.9
17.5°	842.4	843.7	845.8	847.9	852.8	854.9	857.7	860.5	864.7	866.0	870.9
20°	870.3	873.1	873.7	877.9	882.1	884.9	887.7	890.5	894.6	896.7	901.6
22.5°	895.3	898.1	900.2	903.6	906.4	910.7	912.0	916.9	921.0	924.6	928.7
25°	922.5	926.6	928.7	935.0	937.1	941.2	944.8	949.6	955.2	959.4	965.0
27.5°	960.8	967.0	969.8	976.8	981.7	983.8	989.3	996.4	1001.2	1006.1	1011.7
30°	1013.8	1025.6	1027.7	1032.5	1041.7	1043.0	1049.9	1055.5	1063.2	1068.1	1073.0
32.5°	1096.0	1110.6	1112.0	1117.5	1125.2	1128.0	1133.6	1139.9	1151.7	1153.8	1161.5
35°	1222.1	1228.4	1233.9	1236.0	1242.3	1245.8	1249.9	1256.9	1268.7	1267.4	1275.8
37.5°	1373.3	1375.3	1376.1	1369.1	1370.5	1364.2	1371.9	1373.3	1377.4	1380.9	1389.3
40°	1589.2	1567.7	1564.9	1548.2	1531.4	1522.4	1518.9	1505.0	1508.4	1509.8	1516.8
42.5°	1904.9	1863.1	1828.2	1804.6	1763.4	1743.2	1716.1	1694.5	1677.7	1684.0	1686.8
45°	2304.8	2244.9	2189.1	2116.7	2063.0	2024.7	1976.7	1933.5	1913.9	1904.9	1916.1
47.5°	2704.0	2651.1	2585.6	2511.0	2426.0	2362.6	2282.5	2212.1	2163.3	2145.3	2155.0
50°	3048.9	3000.1	2950.7	2906.7	2807.9	2738.9	2629.4	2538.2	2461.6	2422.6	2412.1
52.5°	3335.2	3309.5	3283.0	3246.1	3166.6	3097.7	3010.6	2920.7	2819.0	2739.6	2712.4
55°	3591.0	3606.3	3593.1	3593.8	3562.4	3518.5	3444.7	3377.8	3306.7	3216.8	3179.2
57.5°	3963.7	4054.3	4072.4	4117.7	4140.0	4163.7	4184.6	4144.9	4126.7	4059.9	4060.6
60°	4551.1	4683.4	4798.4	4902.9	4988.6	5072.2	5160.0	5199.1	5242.3	5262.5	5331.4
62.5°	5176.1	5302.2	5473.6	5613.6	5692.3	5801.0	5896.5	5958.4	6034.4	6115.2	6220.4
65°	5330.7	5482.6	5590.6	5683.9	5762.0	5819.8	5872.1	5945.9	6009.3	6137.5	6261.6
67.5°	4934.3	5055.5	5154.4	5246.4	5307.0	5355.9	5402.5	5451.3	5560.0	5676.3	5801.0
70°	4235.4	4381.8	4545.5	4664.7	4694.6	4736.4	4781.0	4844.4	4898.8	5020.7	5115.4
72.5°	3402.9	3613.3	3751.9	3917.1	3952.5	4016.0	4041.0	4090.6	4100.3	4166.5	4191.6
75°	2371.7	2612.7	2752.1	2873.4	2897.0	2862.2	2876.2	2701.2	2656.7	2620.4	2591.2
77.5°	1565.6	1630.4	1652.6	1633.2	1539.8	1466.6	1388.6	1311.9	1320.3	1258.3	1149.6
80°	1392.1	1406.7	1386.5	1367.0	1313.4	1236.7	1166.3	1094.6	1059.1	1021.5	965.7
82.5°	1354.4	1410.9	1417.2	1393.5	1351.0	1267.4	1182.4	1075.8	985.2	901.6	816.6
85°	452.8	551.1	595.0	636.2	648.7	663.3	613.2	544.9	462.6	407.6	319.1
87.5°	57.8	71.8	82.9	71.1	82.9	97.5	70.4	78.8	79.4	49.4	36.9
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°	664.7	664.7	664.7	664.7	664.7	664.7	664.7	664.7	664.7	664.7	664.7
2.5°	668.2	667.5	667.5	667.5	666.7	667.5	667.5	667.5	667.5	667.5	666.7
5°	683.5	683.5	685.6	686.3	684.9	684.1	684.9	685.6	685.6	684.9	685.6
7.5°	712.0	712.7	714.2	716.3	714.8	715.5	716.3	715.5	717.6	718.3	717.6
10°	748.3	749.6	753.2	753.9	753.2	756.0	756.7	755.2	756.7	756.7	759.5
12.5°	790.1	791.5	795.6	797.1	798.4	799.2	801.2	802.0	804.0	805.4	807.6
15°	835.3	836.8	839.6	844.5	845.8	847.3	848.6	852.8	853.5	856.3	858.3
17.5°	873.7	875.8	880.0	883.4	885.6	889.0	890.5	895.3	896.7	900.8	904.4
20°	904.4	907.9	911.3	915.5	919.0	923.2	924.6	929.4	932.2	934.3	938.5
22.5°	932.2	936.4	941.2	946.2	948.9	954.5	956.6	958.8	965.0	967.8	971.9
25°	968.5	972.6	978.2	984.5	987.3	994.2	996.4	999.8	1006.7	1009.5	1015.9
27.5°	1017.9	1023.5	1027.7	1034.0	1037.4	1042.3	1047.2	1051.4	1057.6	1061.9	1068.8
30°	1079.9	1084.1	1091.1	1096.0	1101.6	1108.5	1114.1	1118.2	1121.8	1128.0	1135.6
32.5°	1171.2	1171.9	1174.0	1185.8	1191.4	1197.0	1204.7	1208.2	1213.7	1220.0	1228.4
35°	1284.8	1291.1	1296.0	1301.5	1307.8	1314.1	1316.8	1327.3	1332.1	1340.5	1348.9
37.5°	1397.6	1398.3	1409.5	1413.0	1418.5	1424.9	1434.6	1445.1	1457.6	1465.9	1479.2
40°	1518.9	1524.5	1538.3	1545.4	1552.3	1567.7	1575.3	1592.0	1613.0	1624.8	1647.0
42.5°	1694.5	1702.8	1727.9	1739.1	1755.8	1780.8	1796.9	1819.9	1828.2	1856.8	1867.3
45°	1924.4	1950.2	1986.4	2010.1	2040.0	2067.3	2081.1	2091.6	2104.1	2126.4	2123.6
47.5°	2173.2	2206.5	2246.9	2295.8	2315.2	2347.3	2365.4	2385.6	2374.5	2368.9	2363.3
50°	2428.1	2467.2	2520.8	2564.7	2594.6	2614.2	2629.4	2626.7	2603.0	2590.5	2555.6
52.5°	2711.7	2734.7	2785.6	2823.2	2841.2	2845.5	2842.0	2821.0	2798.8	2759.1	2717.9
55°	3146.4	3136.0	3156.2	3173.7	3168.1	3187.6	3137.4	3117.9	3062.8	3011.3	2956.3
57.5°	4029.9	4043.8	3931.0	3880.1	3871.1	3889.2	3800.7	3789.5	3656.5	3639.8	3547.0
60°	5321.7	5389.9	5301.5	5252.0	5118.2	5074.3	4975.3	4934.3	4806.7	4703.6	4573.4
62.5°	6293.0	6354.9	6391.8	6321.5	6243.4	6128.5	5978.7	5812.8	5677.7	5519.6	5381.6
65°	6380.7	6506.1	6591.1	6623.8	6568.8	6442.7	6258.0	6049.0	5842.2	5643.5	5469.3
67.5°	5970.4	6082.5	6214.2	6331.9	6338.9	6256.7	6099.3	5886.7	5647.8	5402.5	5198.3
70°	5265.2	5406.0	5520.9	5645.0	5731.3	5683.9	5605.3	5410.2	5162.1	4971.2	4736.4
72.5°	4282.2	4341.3	4369.2	4491.2	4492.5	4406.1	4350.5	4242.4	4042.5	3907.3	3728.2
75°	2500.6	2370.3	2231.6	2111.1	2012.8	1971.7	1789.2	1758.5	1636.0	1560.0	1448.5
77.5°	1031.2	914.8	765.0	640.3	517.0	461.2	380.4	344.9	298.9	278.7	265.5
80°	884.1	774.1	661.2	553.2	457.1	360.9	280.8	218.0	171.4	145.6	135.1
82.5°	721.9	655.6	576.9	518.3	443.1	371.4	313.6	243.2	181.9	133.8	102.4
85°	260.6	213.9	172.1	158.1	126.1	103.8	87.0	74.5	61.3	48.8	43.2
87.5°	29.2	27.9	16.1	15.3	17.4	12.5	14.6	13.3	11.2	9.7	10.5
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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CATALOG NUMBER: VXS-F03-LED-E1-SL2-8030

CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	664.7	664.7	664.7	664.7	664.7	664.7	664.7	664.7	664.7	664.7	664.7
2.5°	666.7	666.7	667.5	667.5	668.2	668.9	670.3	669.5	669.5	670.3	670.3
5°	685.6	687.7	686.9	686.9	686.9	687.7	688.4	685.6	682.8	680.0	678.7
7.5°	718.3	719.7	721.1	719.7	721.1	720.4	719.1	711.4	702.3	691.2	683.5
10°	760.8	760.8	762.3	761.6	764.4	762.3	758.0	740.6	721.1	697.4	680.0
12.5°	806.8	811.7	809.6	810.3	815.9	810.3	800.5	774.8	739.9	701.7	671.0
15°	861.1	863.2	864.7	862.6	866.0	861.1	843.7	802.6	751.8	698.1	652.8
17.5°	905.8	906.4	907.2	908.5	913.5	907.9	877.9	822.2	754.6	682.1	622.2
20°	940.6	944.0	946.8	946.8	953.8	945.5	905.8	831.9	745.5	655.6	583.2
22.5°	976.8	979.6	983.1	983.8	992.8	984.5	928.7	829.8	721.9	618.0	537.9
25°	1021.5	1024.2	1026.9	1030.5	1043.0	1031.2	951.7	821.5	689.1	573.4	489.1
27.5°	1073.0	1079.3	1081.3	1086.9	1101.6	1083.4	971.3	808.9	652.8	521.9	437.5
30°	1142.0	1149.6	1152.4	1160.1	1180.3	1140.5	982.4	787.4	606.8	469.6	382.5
32.5°	1234.6	1245.1	1253.5	1261.8	1284.8	1197.7	983.8	756.0	553.2	411.1	329.5
35°	1355.9	1371.9	1378.1	1383.7	1405.3	1259.7	977.5	709.3	487.7	351.2	287.8
37.5°	1491.7	1507.8	1511.9	1514.7	1518.9	1312.6	962.2	638.2	413.9	298.9	254.3
40°	1659.0	1672.8	1678.4	1674.3	1651.9	1353.8	928.1	555.3	342.1	263.3	233.4
42.5°	1863.1	1883.9	1886.1	1867.3	1793.4	1376.8	859.8	457.7	285.7	237.6	217.4
45°	2116.0	2114.6	2102.8	2089.5	1947.4	1367.7	764.4	372.7	250.2	217.4	202.8
47.5°	2343.1	2319.5	2301.3	2262.3	2083.2	1314.7	641.0	308.7	228.5	202.1	190.3
50°	2529.1	2485.9	2447.7	2405.2	2184.2	1220.7	518.3	262.0	208.3	188.8	178.3
52.5°	2676.2	2623.9	2579.3	2537.5	2281.8	1116.2	425.0	227.9	188.8	175.5	165.1
55°	2906.1	2853.8	2782.8	2736.8	2430.9	1020.0	364.4	200.6	170.1	161.7	151.2
57.5°	3487.9	3441.9	3356.9	3237.7	2814.1	983.8	330.3	179.8	154.7	149.8	141.5
60°	4503.7	4429.1	4318.3	4197.1	3593.1	1008.2	303.1	165.1	144.2	140.0	133.8
62.5°	5270.2	5139.2	5013.7	4901.6	4216.0	1007.5	267.6	154.0	136.6	134.5	128.2
65°	5301.5	5168.4	5042.3	4924.6	4229.8	896.7	225.7	144.2	135.1	134.5	124.0
67.5°	5020.0	4875.8	4753.8	4605.4	3915.6	700.9	181.1	137.9	140.7	139.4	122.6
70°	4560.1	4372.0	4271.7	4125.4	3446.0	490.5	149.1	140.0	152.5	148.4	124.8
72.5°	3579.2	3437.0	3284.5	3182.7	2697.7	310.1	125.4	141.5	157.5	150.5	130.3
75°	1332.1	1370.5	1307.8	1285.5	1370.5	181.9	111.5	131.7	140.7	130.3	118.4
77.5°	268.9	257.1	243.8	241.0	311.4	112.1	102.4	114.3	108.0	95.4	96.2
80°	128.9	125.4	121.2	120.5	115.6	93.4	94.7	97.5	81.6	73.9	78.8
82.5°	85.7	80.8	79.4	76.7	78.0	83.6	89.8	83.6	62.7	58.5	71.1
85°	39.7	38.3	37.6	37.6	41.8	75.2	74.5	61.3	43.2	41.8	71.1
87.5°	9.7	9.7	10.5	9.7	11.2	22.3	19.5	18.9	16.1	18.1	33.5
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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CATALOG NUMBER: VXS-F03-LED-E1-SL2-8030

CANDELA DISTRIBUTION (continued):

	165°	175°	180°
0°	664.7	664.7	664.7
2.5°	669.5	670.3	669.5
5°	675.9	675.9	675.9
7.5°	675.9	673.8	673.1
10°	666.1	659.8	659.8
12.5°	649.3	638.9	637.5
15°	618.0	604.0	602.0
17.5°	578.3	559.5	556.0
20°	533.7	510.1	505.8
22.5°	485.0	457.7	455.6
25°	436.9	409.0	403.4
27.5°	383.2	356.1	353.3
30°	329.5	305.9	304.5
32.5°	284.2	269.6	266.8
35°	252.2	243.8	240.4
37.5°	231.3	225.1	224.4
40°	215.3	209.7	209.0
42.5°	202.1	197.2	196.5
45°	188.8	184.7	183.2
47.5°	175.5	171.4	170.7
50°	163.7	158.1	157.5
52.5°	152.5	147.0	145.6
55°	142.2	136.6	136.6
57.5°	133.1	127.5	126.8
60°	124.8	119.2	118.4
62.5°	118.4	111.5	110.8
65°	113.6	106.6	105.2
67.5°	110.8	102.4	100.3
70°	115.6	100.3	96.9
72.5°	116.4	98.2	93.4
75°	112.1	92.6	89.2
77.5°	98.2	82.9	79.4
80°	85.0	64.1	59.2
82.5°	80.8	52.2	45.3
85°	62.7	34.1	32.0
87.5°	35.5	18.9	15.3
90°	0.0	0.0	0.0

(END OF REPORT)