

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: P154380

Luminaire Tested: **VXS-E02-LED-E1-T2**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P154380
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33671)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: VXS-E02-LED-E1-T2
Description: VISION SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6127.7 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 52.1
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



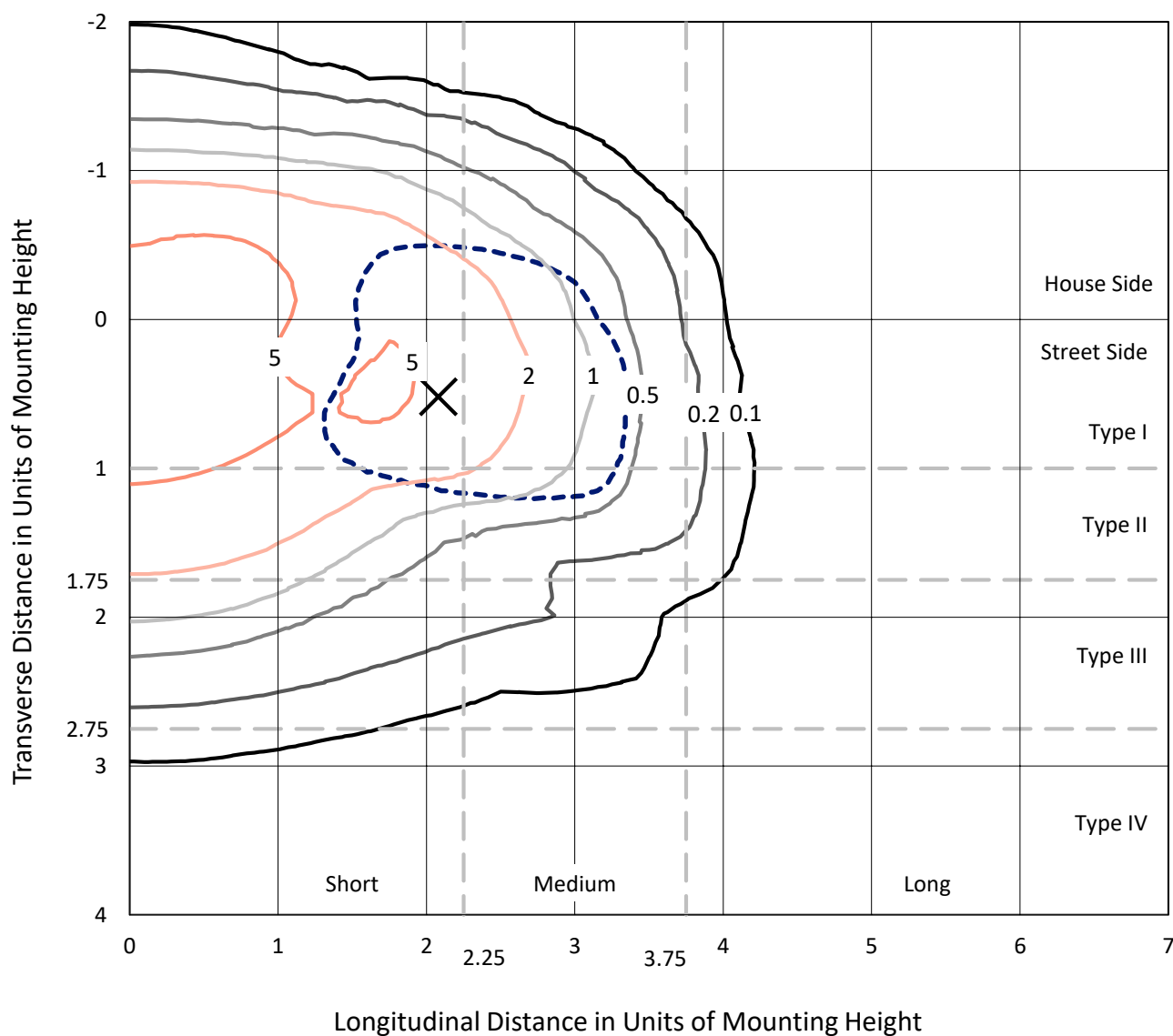
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

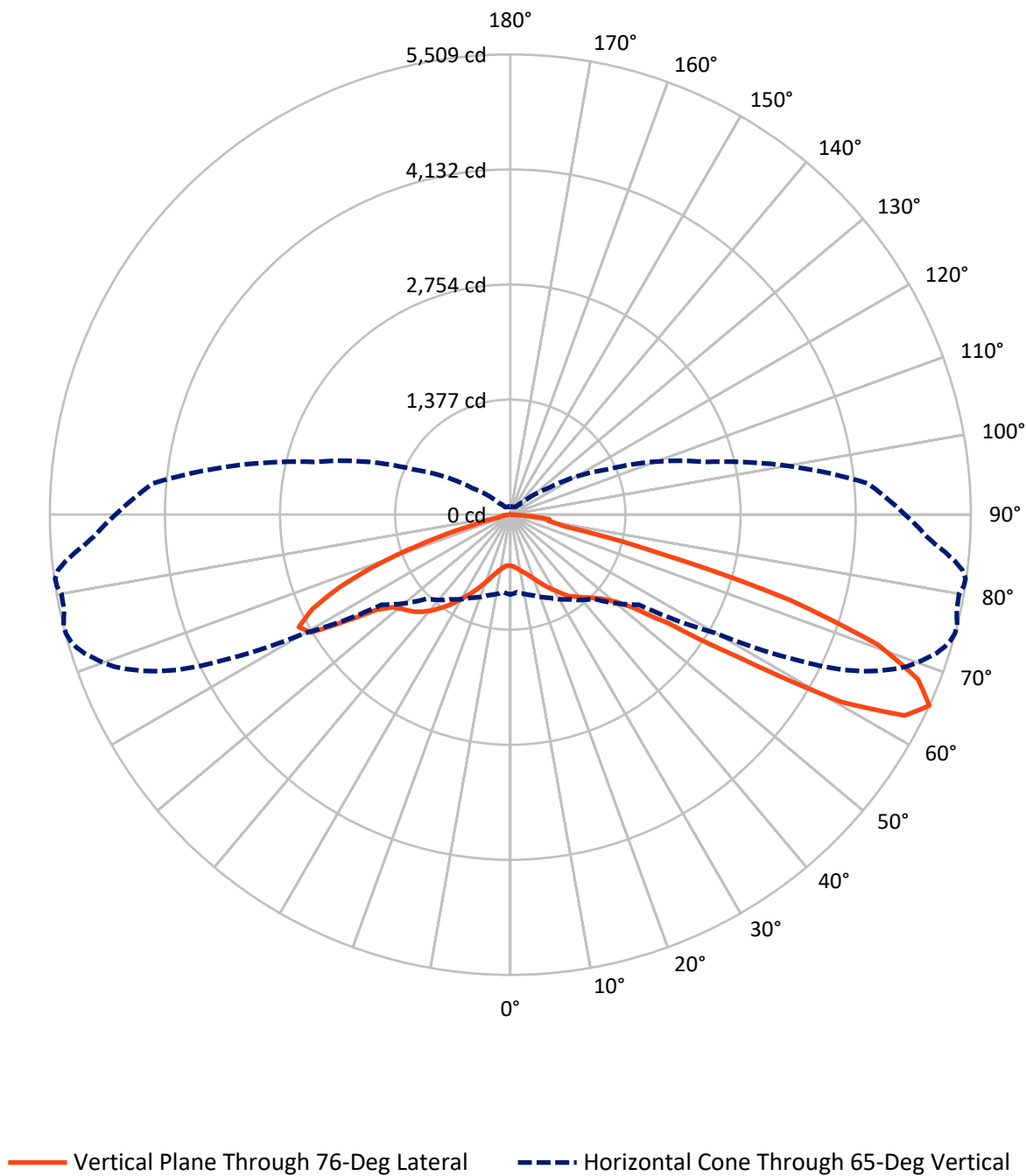


Based on 10 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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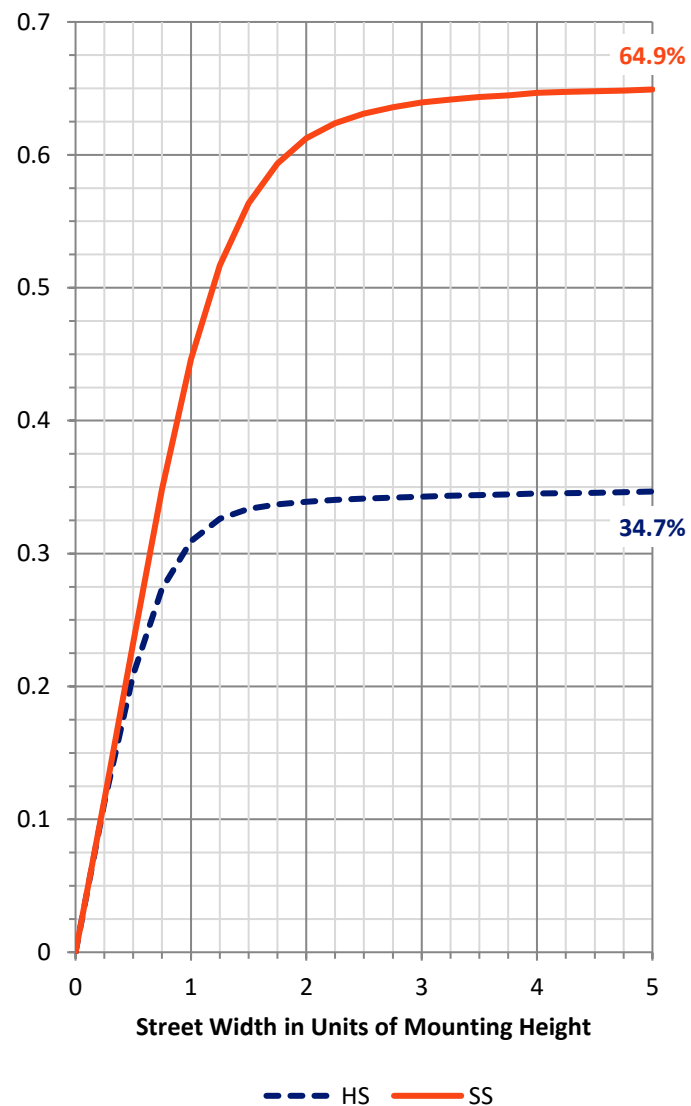
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2145.8	0.0	2145.8
	% Fixture	35.0	0.0	35.0
Street Side	Lumens	3981.9	0.0	3981.9
	% Fixture	65.0	0.0	65.0
Total	Lumens	6127.7	0.0	6127.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.3	1.0
10°-20°	210.7	3.4
20°-30°	414.0	6.8
30°-40°	687.9	11.2
40°-50°	1010.8	16.5
50°-60°	1399.4	22.8
60°-70°	1670.3	27.3
70°-80°	590.7	9.6
80°-90°	82.5	1.3
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°	6127.7	100.0
0°-180°	6127.7	100.0

Coefficient of Utilization



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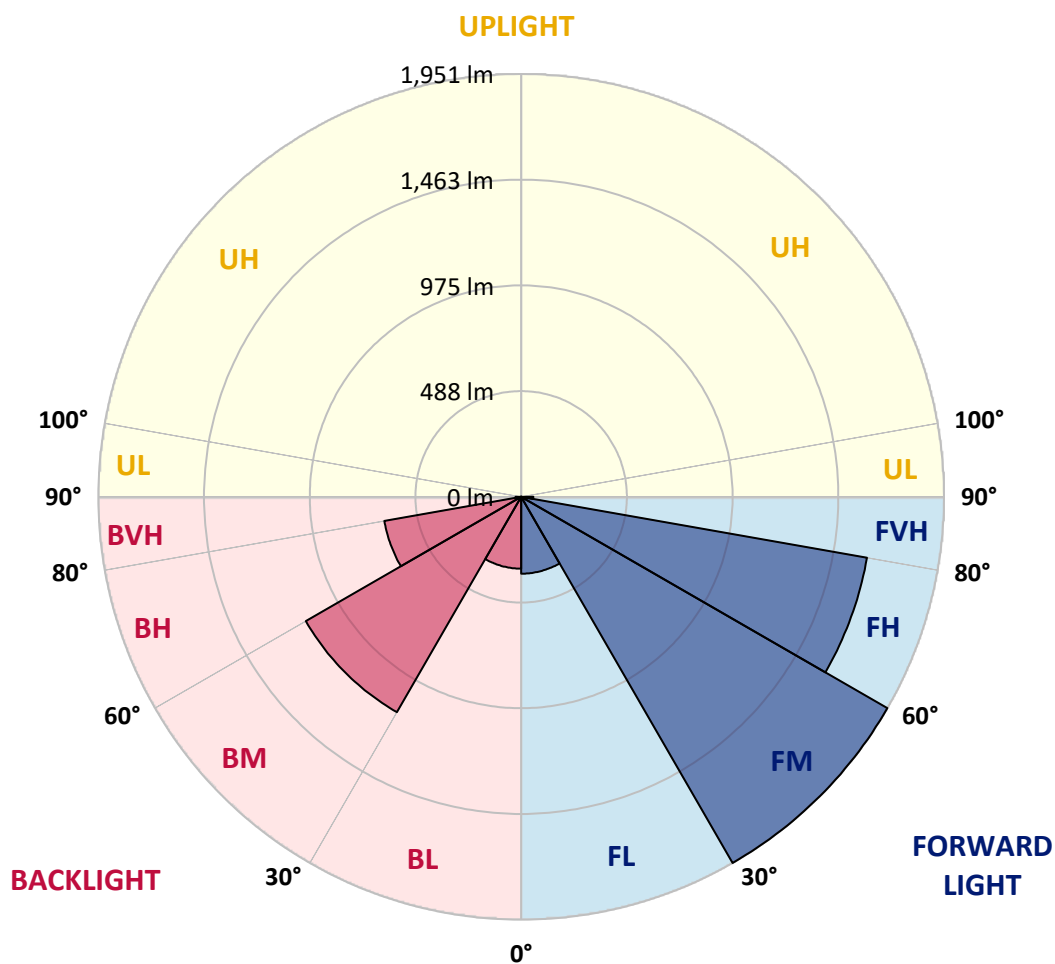
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	354.6	5.8			
FM	(30°-60°)	1950.9	31.8			
FH	(60°-80°)	1620.1	26.4			G1/1800
FVH	(80°-90°)	56.4	0.9			G1/100
BL	(0°-30°)	331.5	5.4	B1/500		
BM	(30°-60°)	1147.2	18.7	B2/2500		
BH	(60°-80°)	640.9	10.5	B2/1000		G2/1000
BVH	(80°-90°)	26.1	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	612.6	612.6	612.6	612.6	612.6	612.6	612.6	612.6	612.6	612.6	612.6
2.5°	639.4	640.0	638.7	638.0	636.0	632.6	629.9	627.4	627.4	627.4	625.3
5°	667.4	668.7	666.0	664.0	658.0	654.7	649.9	646.6	645.3	644.7	642.7
7.5°	702.7	700.6	696.7	695.3	690.7	683.3	674.7	668.0	668.0	667.4	668.0
10°	738.0	732.6	730.7	728.7	721.3	712.0	702.0	694.7	694.0	693.4	691.3
12.5°	773.4	771.3	769.3	762.0	754.7	740.0	728.7	721.3	720.6	721.3	718.7
15°	820.0	815.3	813.4	800.6	784.7	768.7	754.7	748.0	746.0	746.6	744.7
17.5°	856.0	856.0	851.3	837.3	816.7	794.7	780.0	776.0	775.3	775.3	776.0
20°	884.7	884.0	879.4	868.0	843.3	821.3	814.0	812.6	812.0	812.0	814.0
22.5°	900.6	899.4	897.3	884.7	865.3	850.7	851.3	855.3	856.7	858.0	860.6
25°	908.7	906.6	906.0	897.3	883.3	881.3	893.4	904.0	906.6	909.3	912.6
27.5°	922.0	918.7	920.0	916.7	913.4	919.4	944.0	955.3	957.3	960.6	962.7
30°	958.7	957.3	962.7	964.0	966.6	975.3	998.0	1008.7	1013.4	1013.4	1022.7
32.5°	1028.7	1029.3	1030.7	1044.7	1049.3	1055.3	1067.4	1076.0	1076.7	1077.3	1086.0
35°	1122.7	1126.6	1138.0	1150.1	1161.3	1160.6	1153.4	1158.0	1154.7	1158.7	1159.4
37.5°	1241.3	1236.0	1252.6	1280.0	1297.3	1292.6	1260.0	1238.7	1244.7	1242.0	1240.0
40°	1332.6	1338.7	1370.7	1406.6	1420.0	1434.7	1392.0	1355.3	1350.1	1340.0	1334.0
42.5°	1458.7	1459.4	1485.3	1512.0	1550.7	1582.7	1555.3	1502.7	1486.6	1474.7	1448.7
45°	1575.3	1573.4	1594.7	1627.4	1673.4	1719.4	1729.3	1672.0	1666.0	1644.7	1610.7
47.5°	1653.4	1650.7	1665.3	1708.0	1782.7	1858.0	1899.4	1882.0	1870.7	1862.0	1808.7
50°	1706.0	1700.6	1717.3	1762.7	1846.0	1962.0	2070.1	2084.7	2080.0	2080.0	2046.0
52.5°	1745.3	1745.3	1757.3	1794.0	1878.7	2023.3	2216.7	2290.7	2296.7	2303.3	2301.3
55°	1723.3	1726.6	1756.7	1809.9	1899.4	2066.0	2338.0	2500.0	2533.4	2561.3	2593.4
57.5°	1648.0	1659.4	1699.4	1786.6	1904.7	2098.0	2472.6	2793.4	2887.4	2968.7	3095.3
60°	1538.0	1552.6	1610.7	1722.0	1865.3	2046.0	2520.0	3041.3	3190.7	3368.0	3698.7
62.5°	1349.3	1364.0	1420.6	1532.0	1654.7	1846.6	2324.0	3078.0	3316.7	3568.0	4068.0
65°	956.0	932.6	998.0	1098.0	1238.7	1424.7	1878.0	2832.0	3175.3	3516.0	4133.4
67.5°	532.6	530.7	570.7	645.3	780.0	980.0	1294.0	2172.0	2488.0	2874.0	3632.0
70°	367.4	371.3	396.7	477.3	588.7	761.3	922.0	1364.0	1591.3	1853.4	2598.7
72.5°	258.0	266.6	280.6	328.7	442.7	641.3	942.0	815.3	928.7	1107.4	1562.7
75°	151.3	157.3	167.4	190.7	252.0	428.7	975.3	716.7	716.7	758.7	945.3
77.5°	93.4	93.4	99.4	108.7	134.0	209.9	694.7	805.3	782.7	758.7	760.6
80°	48.0	51.3	60.0	64.7	74.7	96.0	312.0	751.3	824.0	872.6	838.7
82.5°	22.0	24.7	36.7	39.4	43.3	50.7	107.4	427.4	572.6	754.0	942.0
85°	11.3	11.3	19.4	24.0	26.0	23.3	39.4	172.6	261.3	398.7	624.0
87.5°	2.0	2.0	3.3	4.0	6.0	5.3	6.6	9.9	16.7	18.0	18.7
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°	612.6	612.6	612.6	612.6	612.6	612.6	612.6	612.6	612.6	612.6	612.6
2.5°	624.7	625.3	624.7	624.0	622.7	622.7	622.7	622.0	622.0	622.0	621.3
5°	642.7	640.0	640.6	639.4	638.7	638.0	638.7	637.3	636.0	636.7	636.0
7.5°	665.3	664.0	661.3	661.3	660.6	659.4	659.4	657.3	656.7	655.3	654.7
10°	690.7	687.4	688.7	687.4	688.0	685.3	684.0	682.7	681.3	681.3	682.0
12.5°	716.7	716.0	714.0	712.6	712.6	710.7	711.3	710.7	708.7	708.0	706.0
15°	743.3	743.3	741.3	742.0	741.3	740.0	738.7	738.7	737.3	736.0	736.7
17.5°	774.7	774.7	774.7	774.7	775.3	773.4	774.0	772.6	771.3	774.0	774.0
20°	815.3	818.0	818.0	817.3	820.6	818.7	818.0	821.3	818.0	822.7	822.0
22.5°	862.0	864.7	864.7	867.4	868.0	870.1	871.3	870.1	872.6	875.3	875.3
25°	914.0	916.7	918.7	922.7	924.7	923.3	924.0	927.4	928.7	931.3	934.0
27.5°	968.7	969.3	972.0	976.7	980.0	981.3	982.0	987.4	988.0	989.3	992.0
30°	1022.0	1028.7	1027.4	1033.4	1035.3	1037.3	1041.3	1043.3	1048.0	1050.7	1050.7
32.5°	1084.7	1083.3	1088.7	1093.4	1096.7	1100.0	1103.3	1106.0	1108.7	1109.9	1116.7
35°	1162.7	1165.3	1165.3	1166.0	1174.0	1174.7	1177.3	1183.3	1185.3	1189.3	1192.0
37.5°	1240.0	1235.3	1234.7	1234.7	1232.0	1234.0	1234.7	1235.3	1238.0	1238.7	1241.3
40°	1326.6	1320.6	1315.3	1312.0	1306.6	1299.4	1298.0	1294.7	1296.7	1296.0	1296.7
42.5°	1445.3	1428.7	1416.0	1406.6	1396.0	1388.0	1382.0	1373.4	1367.4	1360.0	1358.7
45°	1596.7	1565.3	1544.0	1528.7	1513.4	1491.3	1478.7	1465.3	1453.4	1441.3	1431.3
47.5°	1795.3	1762.0	1728.0	1700.0	1676.0	1640.6	1604.7	1584.7	1561.3	1540.6	1526.0
50°	2029.3	1989.3	1973.4	1934.0	1904.0	1850.7	1806.0	1773.4	1726.6	1695.3	1668.0
52.5°	2268.7	2258.7	2249.9	2216.7	2181.3	2150.7	2111.3	2054.0	2006.6	1970.7	1914.7
55°	2594.7	2599.4	2596.0	2578.0	2565.3	2536.0	2520.0	2469.9	2448.7	2396.7	2338.0
57.5°	3143.3	3180.6	3228.0	3246.6	3272.0	3248.0	3276.0	3310.1	3225.3	3254.7	3202.0
60°	3844.0	4015.3	4117.3	4242.7	4324.7	4439.4	4460.0	4489.9	4481.3	4498.0	4532.0
62.5°	4272.0	4475.3	4670.7	4812.6	4964.7	5048.7	5150.1	5220.6	5294.0	5343.3	5329.3
65°	4398.0	4607.4	4784.7	4940.0	5076.0	5178.7	5272.6	5361.3	5428.7	5476.0	5504.0
67.5°	3935.3	4208.7	4395.3	4577.3	4752.6	4860.6	4939.4	5025.3	5124.0	5206.0	5222.0
70°	2961.3	3371.3	3636.0	3854.0	4060.0	4205.3	4315.3	4395.3	4472.0	4530.7	4594.7
72.5°	1852.0	2210.7	2513.4	2796.0	3014.7	3214.7	3307.4	3484.7	3461.3	3506.0	3554.0
75°	1109.9	1284.7	1451.3	1650.7	1765.3	1932.0	1962.0	1991.3	1976.0	1926.0	1963.3
77.5°	771.3	800.0	798.7	787.4	775.3	746.0	708.0	687.4	673.4	653.4	661.3
80°	776.0	714.0	619.4	520.6	430.1	369.9	346.0	346.0	370.7	406.0	441.3
82.5°	927.4	861.3	768.0	642.7	509.3	414.7	351.3	326.0	330.7	366.6	412.0
85°	625.3	640.0	561.3	513.4	406.6	316.7	265.3	215.3	190.7	196.7	222.7
87.5°	22.7	27.4	9.9	13.4	9.3	8.0	8.0	8.7	6.0	7.4	6.6
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	612.6	612.6	612.6	612.6	612.6	612.6	612.6	612.6	612.6	612.6	612.6
2.5°	620.6	620.0	620.0	618.7	618.7	618.0	618.0	617.3	616.7	616.7	616.0
5°	635.3	634.7	633.4	632.6	631.3	631.3	630.7	629.3	629.3	628.0	627.4
7.5°	656.0	654.7	653.4	652.6	652.0	649.9	649.9	648.7	648.7	647.4	646.6
10°	680.6	679.4	678.0	678.7	676.7	676.0	674.7	674.7	672.6	672.0	672.0
12.5°	707.4	706.6	706.6	704.7	704.0	703.3	700.6	700.6	700.6	699.4	700.0
15°	736.0	736.7	734.7	736.7	736.0	734.0	734.0	734.0	731.3	734.7	732.0
17.5°	774.7	776.7	775.3	776.0	774.7	774.7	775.3	774.7	776.0	776.0	780.0
20°	822.7	823.3	826.6	825.3	825.3	824.7	826.0	826.6	829.3	828.0	830.7
22.5°	875.3	878.7	879.4	882.0	882.0	881.3	882.7	885.3	886.6	888.7	888.0
25°	935.3	937.3	940.0	936.7	942.0	942.0	943.3	946.6	947.4	947.4	952.0
27.5°	991.3	996.7	997.3	1000.6	998.7	1000.0	1004.7	1006.6	1009.3	1009.3	1010.7
30°	1054.7	1056.7	1058.0	1062.0	1061.3	1062.0	1062.7	1066.0	1066.0	1069.3	1072.6
32.5°	1120.0	1121.3	1122.7	1126.6	1128.0	1130.7	1129.3	1132.0	1135.3	1136.0	1138.0
35°	1198.0	1199.4	1200.6	1206.6	1207.4	1212.0	1213.4	1212.0	1217.3	1214.0	1217.3
37.5°	1243.3	1249.3	1250.7	1254.7	1253.4	1256.7	1258.7	1261.3	1262.7	1265.3	1270.7
40°	1298.7	1300.6	1304.7	1306.6	1309.3	1309.9	1312.6	1314.7	1316.7	1322.7	1328.7
42.5°	1355.3	1358.0	1360.0	1362.7	1366.0	1368.7	1370.7	1376.7	1378.0	1382.0	1393.4
45°	1424.0	1422.7	1423.3	1424.0	1425.3	1428.7	1434.7	1440.6	1444.7	1454.0	1463.3
47.5°	1509.3	1500.6	1497.3	1492.0	1493.4	1500.6	1502.0	1512.0	1520.0	1528.7	1540.0
50°	1638.7	1615.3	1601.3	1587.4	1586.0	1590.1	1595.3	1606.0	1615.3	1626.6	1642.7
52.5°	1856.0	1811.3	1783.3	1744.7	1734.0	1732.0	1728.0	1734.0	1736.7	1752.0	1782.0
55°	2296.0	2213.4	2160.0	2100.0	2044.0	2027.4	1995.3	2002.0	1995.3	2004.7	2049.3
57.5°	3214.7	3148.7	3096.7	3020.0	2924.0	2822.0	2796.7	2692.0	2712.6	2772.6	2734.0
60°	4548.7	4524.7	4487.4	4450.7	4319.4	4245.3	4124.7	4111.3	4026.6	4027.4	3972.0
62.5°	5295.3	5326.0	5303.3	5292.6	5285.3	5262.0	5202.0	5129.9	5022.0	4944.0	4829.3
65°	5508.7	5482.7	5458.0	5454.7	5452.6	5490.7	5499.4	5448.7	5350.7	5229.3	5097.3
67.5°	5260.0	5245.3	5246.6	5218.7	5236.0	5302.0	5348.0	5334.0	5244.0	5097.3	4929.3
70°	4668.0	4639.4	4668.7	4705.3	4731.3	4769.3	4815.3	4826.6	4744.7	4594.0	4422.7
72.5°	3495.3	3500.0	3528.0	3538.0	3642.7	3632.0	3673.4	3538.7	3479.4	3336.0	3248.0
75°	1839.4	1809.3	1887.4	1722.0	1654.0	1701.3	1568.7	1441.3	1468.0	1489.9	1331.3
77.5°	649.9	608.0	536.7	508.0	422.7	358.0	292.6	264.0	248.7	240.6	230.7
80°	466.6	480.0	465.3	430.7	366.0	293.4	231.3	182.7	156.7	142.7	133.4
82.5°	472.0	524.7	548.0	538.0	479.4	362.7	239.4	152.6	113.4	94.7	88.0
85°	253.4	277.3	266.6	224.7	202.0	120.6	82.7	55.3	46.6	42.7	39.4
87.5°	9.9	8.0	6.6	6.6	7.4	8.0	6.6	7.4	6.6	6.6	6.6
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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CATALOG NUMBER: VXS-E02-LED-E1-T2

CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	612.6	612.6	612.6	612.6	612.6	612.6	612.6	612.6	612.6	612.6	612.6
2.5°	614.7	614.7	614.7	614.0	612.6	609.3	606.0	603.3	601.3	599.4	596.7
5°	626.6	625.3	625.3	625.3	620.0	614.7	609.9	605.3	601.3	598.0	595.3
7.5°	646.6	646.0	643.3	642.7	638.7	629.9	624.7	616.7	612.0	607.4	606.0
10°	670.7	670.1	669.3	668.7	663.3	654.7	648.0	640.6	634.0	627.4	620.6
12.5°	698.7	698.0	697.3	695.3	693.4	688.7	681.3	673.4	665.3	651.3	644.0
15°	733.4	734.7	733.4	732.6	731.3	732.0	727.4	716.0	703.3	685.3	670.1
17.5°	779.4	778.0	777.3	780.0	779.4	782.7	781.3	766.6	747.4	718.7	692.0
20°	829.9	829.9	832.6	834.7	840.6	849.3	845.3	827.4	792.0	752.0	717.3
22.5°	890.7	892.0	894.7	893.4	902.7	916.7	918.0	892.6	846.6	791.3	742.7
25°	954.0	955.3	952.6	956.7	972.0	992.0	996.0	960.0	899.4	827.4	764.0
27.5°	1014.0	1015.3	1015.3	1020.6	1035.3	1069.3	1073.4	1033.4	952.6	858.7	779.4
30°	1072.6	1078.0	1079.4	1080.6	1102.7	1150.1	1158.7	1100.6	999.4	882.0	790.1
32.5°	1146.6	1148.7	1151.3	1154.7	1180.0	1238.0	1238.0	1158.7	1029.3	896.7	792.0
35°	1226.0	1226.6	1232.6	1233.4	1269.3	1327.4	1316.0	1206.6	1050.7	893.4	777.3
37.5°	1274.0	1276.7	1282.7	1290.7	1328.7	1410.7	1384.7	1248.0	1054.7	871.3	744.0
40°	1333.4	1338.7	1344.7	1352.6	1409.3	1495.3	1442.7	1274.0	1038.0	828.0	694.0
42.5°	1397.3	1404.7	1414.0	1428.7	1496.0	1569.9	1486.6	1278.0	1000.0	779.4	634.7
45°	1469.3	1482.7	1493.4	1510.7	1586.6	1634.7	1513.4	1254.7	952.0	715.3	571.3
47.5°	1552.6	1563.3	1582.0	1600.6	1676.7	1678.7	1516.0	1209.3	886.6	651.3	504.0
50°	1655.3	1662.0	1689.9	1701.3	1772.6	1724.7	1496.7	1148.0	818.0	579.4	429.3
52.5°	1792.0	1801.3	1837.3	1854.7	1905.3	1787.4	1469.3	1081.3	739.4	498.7	352.6
55°	2062.0	2102.7	2128.0	2158.0	2190.7	1929.3	1457.3	1009.9	650.7	405.3	279.4
57.5°	2820.0	2806.6	2862.7	2930.7	2929.9	2254.0	1529.3	948.7	546.0	310.1	214.7
60°	3949.3	3962.0	3933.4	3974.0	3844.7	2656.7	1628.0	884.0	428.0	230.7	164.0
62.5°	4788.7	4715.3	4674.7	4626.6	4342.0	2700.6	1556.0	751.3	311.3	162.0	126.0
65°	4987.4	4901.3	4814.0	4722.7	4293.4	2434.7	1276.7	551.3	201.3	111.3	100.0
67.5°	4791.3	4653.4	4542.0	4448.0	3934.0	2018.0	933.4	338.7	115.3	89.9	85.3
70°	4283.3	4130.7	3950.7	3845.3	3312.6	1487.4	598.0	182.7	88.7	80.0	78.0
72.5°	3135.3	3009.9	2813.4	2692.6	2378.7	904.0	334.0	102.7	82.7	76.7	74.0
75°	1221.3	1156.0	1074.0	1080.6	964.7	400.0	151.3	88.7	80.6	75.3	72.6
77.5°	209.9	204.7	189.3	189.3	215.3	146.0	100.6	89.3	80.0	74.0	69.3
80°	126.0	123.3	117.3	116.0	112.0	102.7	96.7	90.7	78.7	70.1	64.0
82.5°	82.7	79.4	77.3	76.7	83.3	89.9	90.7	89.9	74.7	60.6	52.0
85°	35.3	35.3	35.3	36.0	48.0	72.6	74.7	80.0	61.3	47.4	37.3
87.5°	6.0	7.4	7.4	8.0	8.7	16.0	20.0	26.0	20.6	20.0	18.0
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: VXS-E02-LED-E1-T2

CANDELA DISTRIBUTION (continued):

	165°	175°	180°
0°	612.6	612.6	612.6
2.5°	596.0	594.7	594.7
5°	594.0	592.6	593.4
7.5°	602.0	599.4	600.0
10°	616.7	614.0	612.6
12.5°	635.3	632.0	632.0
15°	654.7	646.6	646.0
17.5°	670.7	660.6	659.4
20°	688.7	675.3	673.4
22.5°	705.3	687.4	684.7
25°	717.3	695.3	692.0
27.5°	722.7	696.7	694.0
30°	726.6	697.3	693.4
32.5°	722.7	691.3	688.0
35°	700.6	666.6	664.7
37.5°	662.7	624.7	622.0
40°	612.6	572.6	566.0
42.5°	548.7	511.3	504.0
45°	486.6	444.0	440.6
47.5°	420.0	379.4	381.3
50°	350.1	313.4	312.6
52.5°	283.3	251.3	249.3
55°	223.3	200.6	198.7
57.5°	176.7	164.7	162.7
60°	144.0	138.0	136.0
62.5°	116.0	114.0	113.4
65°	96.7	96.7	96.7
67.5°	84.0	84.7	84.7
70°	77.3	78.0	77.3
72.5°	74.7	76.7	76.7
75°	72.6	74.0	71.3
77.5°	71.3	72.0	67.4
80°	70.7	70.1	61.3
82.5°	61.3	59.4	52.0
85°	56.0	42.7	36.0
87.5°	28.7	20.0	15.3
90°	0.0	0.0	0.0

(END OF REPORT)