

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: P149328

Luminaire Tested: **VXS-E05-LED-E1-SL2-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P149328
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: VXS-E05-LED-E1-SL2-HSS-8030
Description: VISION SITE SMALL LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (105) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7737.6 lumens
Efficiency: N/A
Efficacy: 60.8 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): 127.3
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

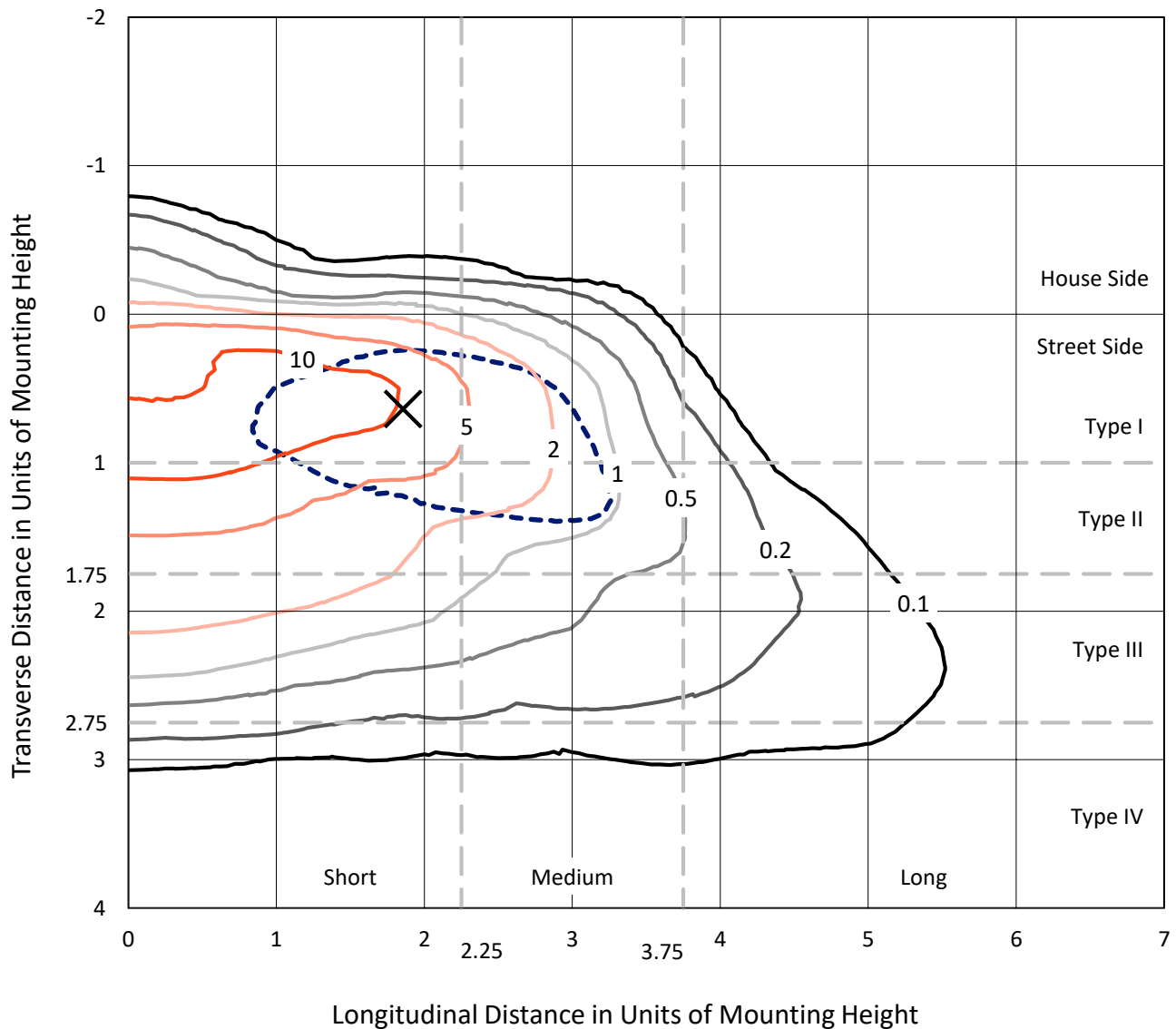


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

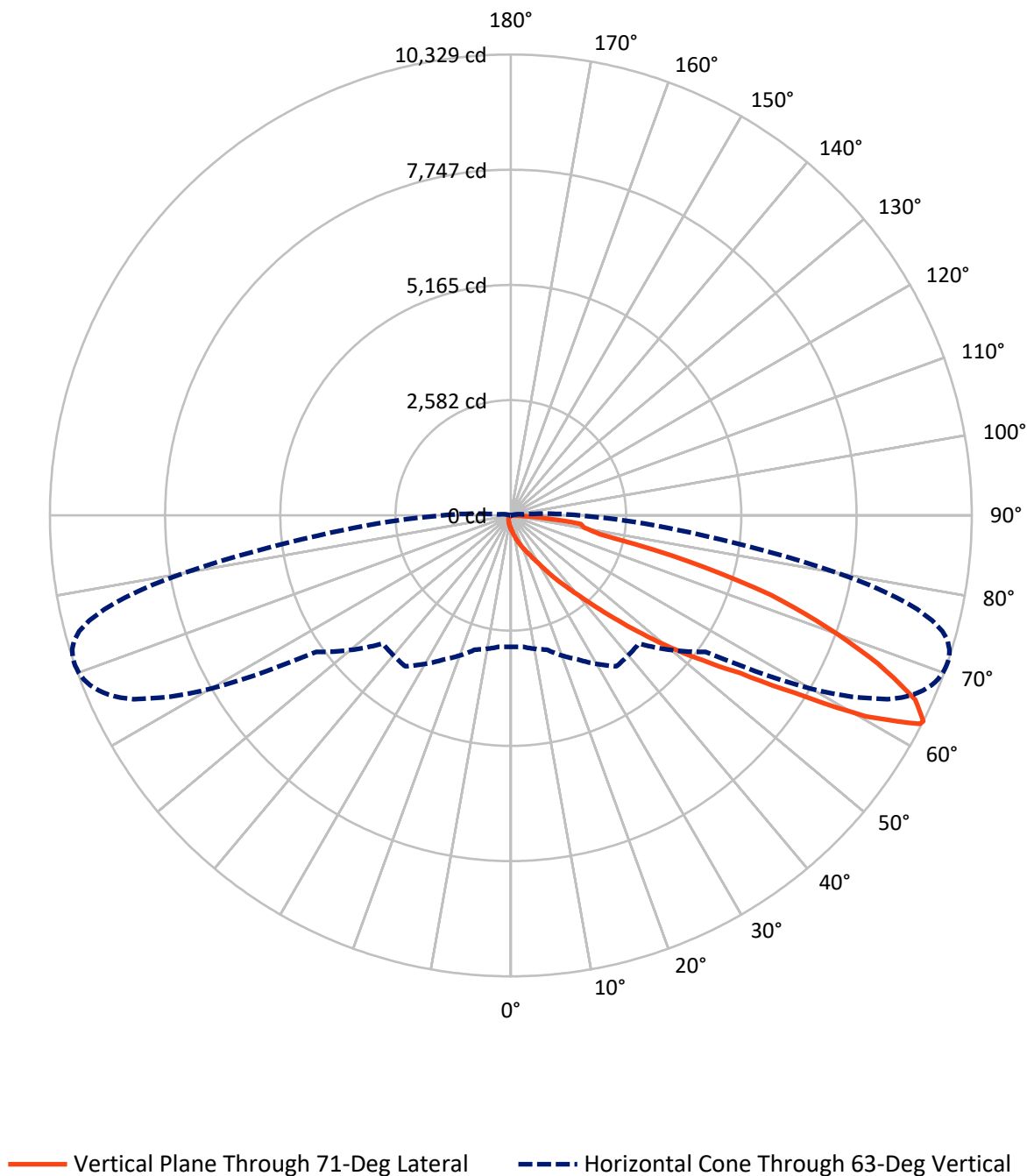


Based on 10 foot mounting height. Maximum calculated value = 16.3 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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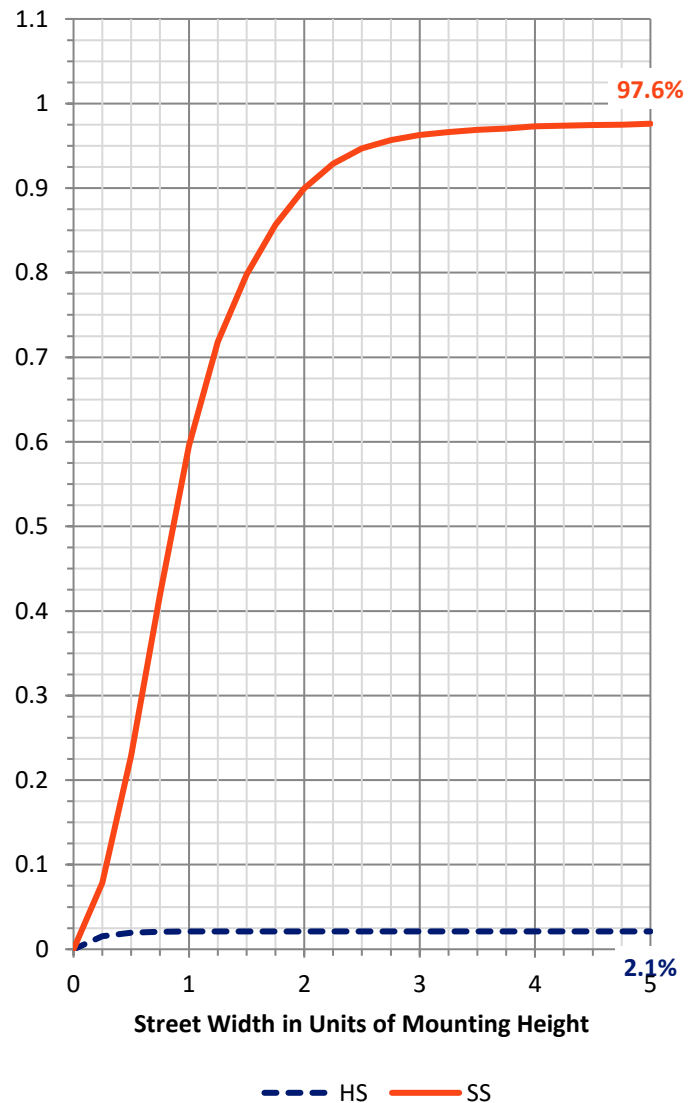
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	164.3	0.0	164.3
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	7573.3	0.0	7573.3
	% Fixture	97.9	0.0	97.9
Total	Lumens	7737.6	0.0	7737.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.8	0.4
10°-20°	127.2	1.6
20°-30°	258.4	3.3
30°-40°	631.4	8.2
40°-50°	1412.0	18.2
50°-60°	1985.4	25.7
60°-70°	2334.7	30.2
70°-80°	843.0	10.9
80°-90°	112.7	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°	7737.6	100.0
0°-180°	7737.6	100.0

Coefficient of Utilization



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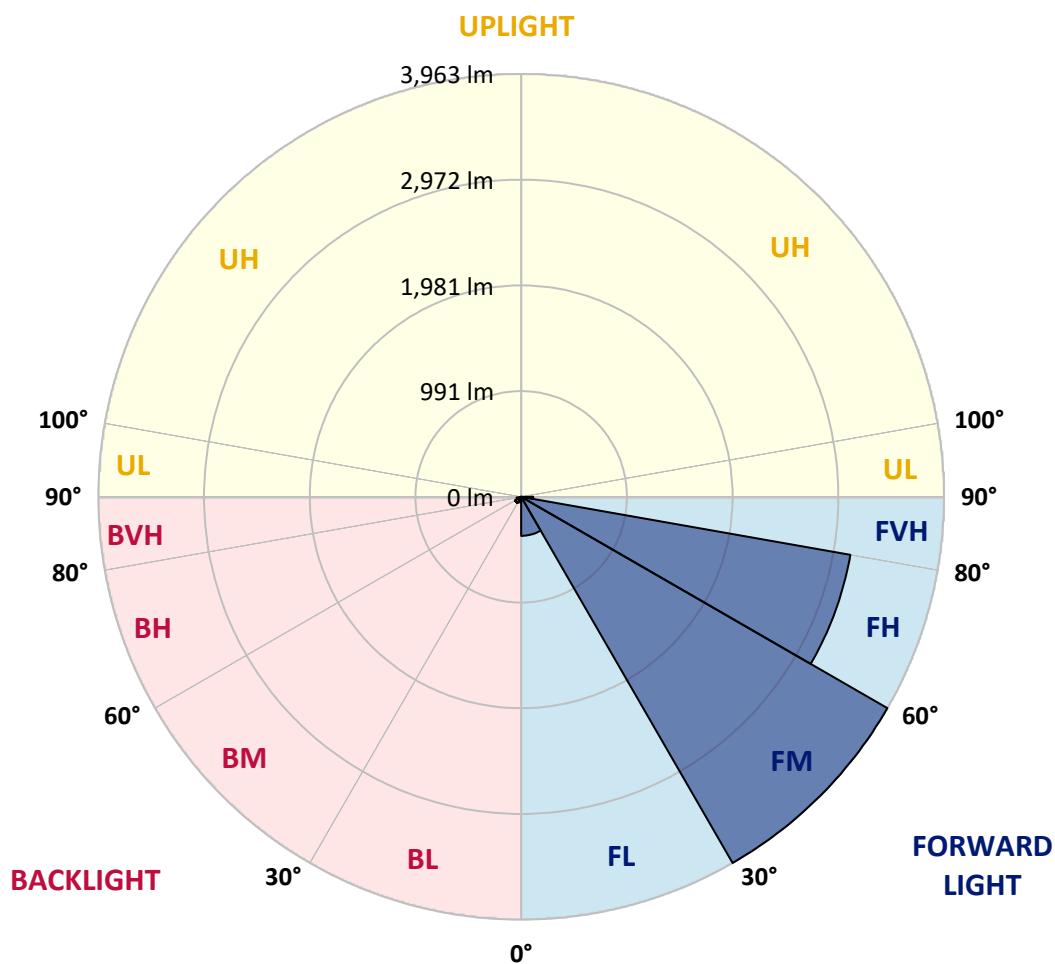
CATALOG NUMBER: VXS-E05-LED-E1-SL2-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	365.6	4.7			
FM	(30°-60°)	3962.5	51.2			
FH	(60°-80°)	3132.7	40.5			G2/5000
FVH	(80°-90°)	112.5	1.5			G2/225
BL	(0°-30°)	52.8	0.7	B0/110		
BM	(30°-60°)	66.2	0.9	B0/220		
BH	(60°-80°)	45.0	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°	296.8	296.8	296.8	296.8	296.8	296.8	296.8	296.8	296.8	296.8	296.8
2.5°	388.2	392.4	389.6	382.6	374.2	362.9	353.1	353.1	351.7	347.5	348.8
5°	509.2	510.6	505.0	488.1	472.6	448.7	422.0	419.2	416.4	412.1	410.8
7.5°	627.4	633.0	627.4	609.1	578.1	541.6	499.4	495.1	486.7	486.7	481.0
10°	748.3	748.3	742.7	721.7	693.5	641.5	588.0	580.9	571.1	568.3	559.9
12.5°	834.1	834.1	831.3	820.1	797.6	751.2	686.4	679.4	666.7	662.5	652.6
15°	867.9	867.9	869.3	879.2	880.5	859.5	791.9	786.3	773.7	762.4	758.1
17.5°	889.0	887.6	887.6	901.7	926.9	941.0	897.4	891.8	877.7	872.1	858.0
20°	935.4	932.6	924.1	924.1	948.1	997.3	997.3	996.0	980.4	976.2	969.2
22.5°	1004.4	1001.6	976.2	955.1	966.3	1028.3	1085.9	1083.1	1077.5	1071.9	1067.7
25°	1116.9	1107.0	1063.4	1001.6	991.7	1057.8	1153.5	1160.5	1164.7	1164.7	1167.6
27.5°	1287.0	1274.4	1197.1	1081.8	1038.1	1105.6	1228.0	1242.1	1254.7	1257.5	1270.2
30°	1523.4	1500.9	1389.7	1220.9	1121.1	1176.0	1337.7	1353.2	1371.5	1377.1	1396.8
32.5°	1911.6	1899.0	1792.1	1538.9	1325.1	1313.8	1491.1	1510.8	1534.6	1544.5	1568.4
35°	2502.4	2505.3	2418.0	2190.2	1894.7	1740.0	1765.4	1782.2	1790.7	1820.2	1832.8
37.5°	2903.3	2910.4	2930.1	2840.0	2629.0	2471.5	2273.2	2291.4	2247.9	2252.0	2253.5
40°	3122.8	3145.3	3260.6	3347.9	3331.0	3239.5	3080.5	3090.4	3008.8	2990.6	2902.0
42.5°	3269.0	3298.5	3482.9	3753.0	3890.8	3973.8	3937.2	3933.0	3869.7	3845.8	3771.2
45°	3360.5	3387.3	3619.3	4017.4	4335.3	4577.2	4677.1	4688.4	4634.9	4611.0	4549.1
47.5°	3356.3	3387.3	3636.2	4115.9	4584.2	4971.1	5252.4	5266.5	5298.9	5277.7	5282.0
50°	3170.6	3200.1	3450.5	3948.5	4511.1	5151.2	5666.0	5711.0	5763.0	5798.2	5815.1
52.5°	2945.5	2966.6	3188.9	3661.6	4198.9	5076.6	5910.8	5988.1	6065.5	6131.6	6178.0
55°	2862.5	2886.4	3060.8	3453.4	3948.5	4764.4	6024.7	6138.7	6248.4	6356.7	6445.3
57.5°	2906.1	2928.6	3053.9	3354.8	3799.4	4435.1	6057.0	6234.3	6414.3	6590.2	6764.6
60°	3066.5	3090.4	3197.3	3446.3	3760.0	4245.3	5930.5	6224.5	6524.0	6830.7	7119.1
62.5°	3003.2	3013.1	3170.6	3606.6	4041.3	4083.5	5470.5	5881.2	6338.3	6811.0	7276.6
63°	2942.7	2954.0	3114.3	3563.0	4127.2	4059.6	5328.4	5761.7	6244.1	6753.4	7259.7
65°	2668.4	2669.8	2792.2	3146.6	4031.5	4101.8	4695.4	5108.9	5663.2	6273.7	6913.7
67.5°	1991.8	1982.0	2100.1	2370.3	3165.0	4103.2	4030.1	4262.2	4647.6	5189.1	5763.0
70°	706.1	690.7	882.0	1256.2	1972.1	3356.3	3463.2	3478.7	3585.6	3878.1	4238.2
72.5°	229.3	233.5	281.3	460.0	908.7	2259.1	3135.4	3087.6	3059.5	3058.0	3105.9
75°	91.4	92.8	112.5	203.9	408.0	1088.7	2745.8	2772.5	2782.4	2796.4	2811.9
77.5°	43.6	47.9	63.3	114.0	202.6	538.8	1965.1	2191.6	2320.9	2420.8	2481.3
80°	15.4	18.2	35.1	70.4	94.2	247.6	1035.3	1249.1	1439.0	1683.7	1894.7
82.5°	0.0	0.0	7.0	49.2	52.0	99.9	424.8	497.9	569.7	738.4	948.1
85°	0.0	0.0	0.0	14.1	15.4	16.9	143.5	173.1	194.1	226.4	261.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	4.2	8.4	21.1	32.3
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°	296.8	296.8	296.8	296.8	296.8	296.8	296.8	296.8	296.8	296.8	296.8
2.5°	346.0	344.7	344.7	341.9	340.4	337.6	336.2	332.0	330.6	330.6	330.6
5°	409.3	403.7	400.9	393.9	389.6	388.2	381.2	378.3	374.2	375.5	368.5
7.5°	479.7	469.8	465.6	455.8	453.0	443.1	440.3	433.3	429.0	420.6	417.8
10°	557.0	544.4	537.3	521.9	517.6	510.6	502.2	493.8	486.7	478.2	474.1
12.5°	645.7	634.4	628.8	607.7	597.8	588.0	576.7	565.5	554.2	547.2	537.3
15°	749.7	731.5	725.8	706.1	689.2	676.6	661.1	647.0	638.7	624.6	614.7
17.5°	852.4	834.1	829.9	800.4	782.1	773.7	756.8	738.4	723.0	708.9	693.5
20°	955.1	942.5	931.2	903.1	883.4	869.3	846.8	828.5	815.9	796.2	776.5
22.5°	1057.8	1045.2	1036.7	1007.2	988.9	969.2	949.5	929.8	911.5	887.6	865.1
25°	1163.3	1154.8	1150.7	1123.9	1107.0	1088.7	1069.0	1046.5	1024.0	997.3	973.4
27.5°	1273.1	1275.9	1267.4	1261.8	1243.5	1230.8	1199.9	1184.4	1167.6	1135.1	1105.6
30°	1412.2	1420.7	1417.9	1422.2	1410.9	1402.4	1378.5	1358.9	1339.2	1308.2	1274.4
32.5°	1588.1	1599.4	1605.0	1620.4	1614.8	1612.0	1605.0	1576.9	1562.8	1509.3	1495.2
35°	1859.6	1854.0	1877.9	1890.6	1884.9	1882.1	1873.7	1858.2	1841.3	1803.3	1768.2
37.5°	2212.6	2218.2	2226.7	2201.5	2184.6	2183.1	2157.8	2142.3	2118.4	2076.3	2034.0
40°	2859.7	2824.6	2785.2	2678.2	2631.8	2605.1	2530.6	2509.4	2468.7	2411.0	2367.4
42.5°	3700.9	3665.7	3547.6	3368.9	3273.3	3141.0	3080.5	3006.0	2948.3	2854.1	2803.4
45°	4536.5	4435.1	4421.1	4213.0	4094.7	3920.3	3812.0	3686.8	3556.1	3432.2	3342.2
47.5°	5241.1	5218.7	5149.7	5023.1	4913.5	4767.2	4627.9	4435.1	4300.1	4124.4	3962.5
50°	5805.3	5803.8	5778.5	5705.4	5614.0	5495.8	5373.4	5210.3	5056.9	4841.7	4668.7
52.5°	6227.3	6249.7	6258.2	6235.6	6200.5	6096.5	6034.5	5898.1	5768.7	5585.8	5398.8
55°	6536.7	6619.7	6661.9	6709.7	6699.9	6663.3	6660.5	6571.9	6512.7	6367.9	6235.6
57.5°	6919.3	7055.8	7186.6	7418.7	7427.2	7508.7	7550.9	7593.1	7604.4	7546.7	7503.1
60°	7406.0	7684.6	7932.1	8417.4	8544.0	8743.7	8873.2	9013.8	9133.4	9143.2	9140.4
62.5°	7749.2	8178.2	8577.7	9297.9	9544.1	9774.8	9947.9	10084.2	10167.3	10251.7	10291.1
63°	7759.1	8228.9	8653.7	9396.5	9655.2	9874.7	10039.3	10165.9	10253.1	10303.7	10329.0
65°	7521.3	8091.1	8597.4	9337.3	9580.7	9801.6	9887.4	9970.4	10012.5	10032.2	9957.7
67.5°	6374.9	6932.0	7522.8	8349.8	8558.0	8822.5	8892.8	8935.0	8954.7	8950.6	8887.3
70°	4767.2	5234.2	5891.1	6836.4	7112.0	7370.9	7531.2	7600.1	7622.7	7615.6	7521.3
72.5°	3328.2	3602.4	4144.0	5196.2	5571.7	5903.7	6102.1	6204.8	6225.8	6183.6	6096.5
75°	2795.0	2809.1	2931.5	3506.7	3858.4	4213.0	4436.6	4501.2	4459.1	4331.1	4108.8
77.5°	2495.4	2526.3	2526.3	2612.1	2681.0	2779.6	2800.6	2643.1	2460.2	2223.9	2032.6
80°	2093.1	2201.5	2277.4	2340.6	2347.7	2328.0	2276.0	2187.4	2046.6	1866.6	1666.8
82.5°	1271.6	1485.4	1572.6	1899.0	2059.4	2167.7	2159.2	2041.0	1934.2	1747.0	1576.9
85°	320.7	346.0	375.5	488.1	547.2	668.2	744.1	779.3	791.9	727.3	658.3
87.5°	31.0	21.1	35.1	26.7	38.0	28.1	38.0	35.1	43.6	46.4	50.7
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	296.8	296.8	296.8	296.8	296.8	296.8	296.8	296.8	296.8	296.8	296.8
2.5°	327.8	326.3	325.0	323.5	322.1	320.7	317.9	317.9	315.1	313.7	312.2
5°	364.4	361.6	360.1	357.3	353.1	350.3	346.0	340.4	336.2	334.8	332.0
7.5°	410.8	403.7	400.9	396.7	391.1	382.6	377.0	372.7	365.7	361.6	353.1
10°	462.8	455.8	447.4	438.9	430.5	420.6	413.6	408.0	396.7	391.1	381.2
12.5°	528.9	516.3	506.4	495.1	483.9	472.6	464.1	447.4	437.5	424.8	416.4
15°	596.4	585.2	573.9	559.9	543.0	524.7	516.3	500.7	488.1	468.4	457.2
17.5°	678.0	656.9	640.0	623.1	607.7	590.8	573.9	550.1	531.7	514.8	492.3
20°	758.1	732.8	714.6	692.1	669.5	642.8	623.1	606.2	580.9	558.4	534.5
22.5°	844.0	818.7	789.1	766.6	735.6	714.6	687.9	659.7	634.4	604.9	575.3
25°	948.1	921.3	887.6	858.0	822.9	793.4	761.0	728.6	697.7	663.9	626.0
27.5°	1076.1	1048.0	1011.4	976.2	929.8	893.3	862.3	818.7	779.3	737.1	693.5
30°	1237.8	1206.9	1161.9	1111.3	1064.9	1024.0	980.4	922.8	879.2	828.5	772.2
32.5°	1448.8	1412.2	1351.8	1303.9	1246.3	1192.8	1132.3	1074.7	1012.7	946.6	882.0
35°	1714.7	1680.9	1610.6	1540.3	1477.0	1413.7	1337.7	1271.6	1184.4	1104.2	1021.2
37.5°	1990.4	1929.9	1865.2	1789.2	1710.5	1634.5	1541.7	1450.3	1350.4	1263.2	1159.1
40°	2305.5	2232.3	2178.9	2097.3	1986.2	1877.9	1792.1	1678.1	1553.0	1436.2	1313.8
42.5°	2737.3	2655.8	2560.1	2436.3	2356.2	2229.5	2118.4	1983.4	1818.8	1688.0	1540.3
45°	3236.7	3125.6	3032.7	2913.2	2816.2	2658.5	2529.1	2349.1	2184.6	2013.0	1832.8
47.5°	3806.4	3668.5	3533.5	3415.3	3260.6	3105.9	2941.3	2750.1	2539.0	2350.5	2136.7
50°	4460.5	4265.0	4077.9	3926.0	3713.6	3534.9	3356.3	3141.0	2907.6	2690.9	2447.6
52.5°	5187.8	4961.2	4713.7	4480.2	4234.0	4004.8	3789.5	3542.0	3281.8	3017.3	2745.8
55°	6065.5	5895.2	5604.1	5307.3	4978.1	4671.5	4394.4	4087.8	3771.2	3423.8	3138.2
57.5°	7439.8	7356.8	7113.5	6816.7	6387.6	6014.8	5545.0	5169.4	4710.9	4232.6	3864.0
60°	9302.2	9199.5	9063.0	8822.5	8482.1	7975.8	7458.0	6874.3	6176.6	5514.1	4885.3
62.5°	10295.2	10258.8	10147.6	9981.6	9663.7	9264.2	8742.4	8100.9	7313.2	6508.6	5706.7
63°	10324.9	10278.4	10182.8	10014.0	9734.0	9347.2	8835.1	8212.0	7441.1	6621.1	5802.5
65°	9925.3	9907.0	9809.9	9625.7	9434.4	9139.0	8742.4	8206.4	7559.4	6784.2	5969.8
67.5°	8802.8	8748.0	8598.9	8542.6	8408.9	8203.6	7901.1	7532.6	7069.8	6460.7	5757.4
70°	7445.4	7363.8	7176.8	7076.9	6913.7	6784.2	6600.0	6337.0	6051.4	5626.6	5102.0
72.5°	6006.4	5837.6	5666.0	5405.8	5177.9	4947.2	4743.2	4557.5	4243.8	4072.2	3674.2
75°	3900.6	3594.0	3300.0	2906.1	2551.7	2238.0	1932.7	1778.0	1455.9	1325.1	1138.0
77.5°	1851.2	1679.6	1448.8	1270.2	1042.3	851.0	694.9	521.9	409.3	320.7	244.8
80°	1493.9	1349.0	1209.7	1048.0	876.4	699.1	536.0	400.9	284.1	196.9	139.3
82.5°	1332.1	1174.5	1002.9	891.8	775.0	634.4	520.4	424.8	313.7	229.3	156.2
85°	517.6	436.1	336.2	274.3	213.8	175.9	159.0	109.7	85.8	67.6	52.0
87.5°	45.0	36.6	29.5	19.7	21.1	11.3	12.6	8.4	7.0	7.0	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°	296.8	296.8	296.8	296.8	296.8	296.8	296.8	296.8	296.8	296.8	296.8
2.5°	310.9	309.4	308.1	305.3	305.3	302.4	301.0	299.6	292.5	277.1	264.5
5°	326.3	323.5	320.7	316.5	313.7	309.4	306.6	302.4	286.9	257.4	232.1
7.5°	348.8	343.2	339.0	330.6	326.3	320.7	316.5	309.4	284.1	239.2	203.9
10°	375.5	365.7	358.7	348.8	340.4	333.4	326.3	316.5	281.3	219.5	178.7
12.5°	408.0	396.7	382.6	371.4	360.1	350.3	340.4	327.8	277.1	202.6	159.0
15°	440.3	423.4	413.6	398.0	382.6	368.5	354.5	343.2	278.5	184.2	142.1
17.5°	476.9	460.0	438.9	422.0	405.1	386.8	369.9	347.5	271.5	170.2	129.4
20°	512.0	488.1	468.4	447.4	423.4	400.9	379.8	360.1	265.9	156.2	118.1
22.5°	550.1	521.9	496.6	469.8	440.3	414.9	389.6	364.4	256.1	143.5	108.3
25°	596.4	564.0	527.5	495.1	464.1	433.3	400.9	369.9	246.1	132.2	101.2
27.5°	652.6	610.5	573.9	533.2	489.5	450.2	414.9	381.2	236.3	123.8	94.2
30°	724.5	675.2	623.1	571.1	524.7	479.7	430.5	388.2	226.4	115.3	87.3
32.5°	820.1	758.1	694.9	634.4	572.5	514.8	462.8	408.0	220.8	108.3	80.2
35°	946.6	866.5	789.1	713.2	638.7	568.3	500.7	438.9	220.8	99.9	71.7
37.5°	1066.2	973.4	874.9	780.7	692.1	610.5	530.3	455.8	209.6	92.8	64.7
40°	1195.6	1084.6	969.2	858.0	751.2	649.8	558.4	472.6	199.8	84.4	57.7
42.5°	1394.0	1253.4	1102.8	973.4	845.4	720.2	606.2	505.0	187.0	76.0	50.7
45°	1654.2	1475.5	1298.3	1140.8	977.6	824.2	689.2	564.0	184.2	68.9	43.6
47.5°	1932.7	1721.8	1513.6	1312.4	1121.1	942.5	780.7	630.2	184.2	61.9	38.0
50°	2209.8	1945.4	1723.1	1489.6	1274.4	1063.4	870.7	699.1	185.7	56.3	31.0
52.5°	2460.2	2177.5	1928.5	1658.4	1420.7	1176.0	966.3	766.6	182.9	49.2	25.3
55°	2807.7	2475.8	2187.4	1889.1	1610.6	1334.9	1097.2	867.9	184.2	43.6	21.1
57.5°	3447.7	3058.0	2710.6	2319.6	1998.9	1643.0	1354.6	1076.1	201.1	36.6	15.4
60°	4366.2	3859.9	3371.7	2894.9	2486.9	2063.5	1689.4	1361.7	236.3	29.5	11.3
62.5°	4983.7	4321.2	3738.9	3212.7	2738.8	2295.6	1887.8	1514.9	260.2	23.9	7.0
63°	5047.0	4362.1	3776.9	3233.9	2750.1	2306.9	1896.2	1526.2	261.7	22.5	7.0
65°	5166.6	4432.3	3797.9	3238.1	2738.8	2291.4	1890.6	1524.8	264.5	18.2	5.6
67.5°	5030.2	4324.0	3675.5	3117.1	2640.3	2200.0	1820.2	1468.5	263.0	12.6	4.2
70°	4498.4	3913.3	3343.6	2823.1	2389.9	1991.8	1657.0	1339.2	242.0	8.4	2.8
72.5°	3302.8	2904.8	2463.0	2087.5	1800.5	1495.2	1275.9	1005.8	187.0	5.6	1.5
75°	979.1	891.8	749.7	661.1	583.7	482.5	429.0	334.8	95.6	2.8	0.0
77.5°	195.5	177.2	159.0	144.9	136.5	116.8	111.1	91.4	39.4	1.5	0.0
80°	102.7	84.4	71.7	63.3	54.8	45.0	38.0	31.0	7.0	0.0	0.0
82.5°	98.4	66.1	47.9	39.4	33.8	26.7	21.1	15.4	4.2	0.0	0.0
85°	36.6	28.1	21.1	16.9	14.1	12.6	9.8	8.4	0.0	0.0	0.0
87.5°	5.6	4.2	4.2	2.8	2.8	1.5	1.5	1.5	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: VXS-E05-LED-E1-SL2-HSS-8030

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	296.8	296.8	296.8	296.8	296.8	296.8	296.8
2.5°	251.8	240.5	234.9	227.9	227.9	226.4	229.3
5°	209.6	194.1	182.9	174.4	175.9	171.6	173.1
7.5°	177.2	161.8	151.9	146.3	144.9	143.5	143.5
10°	153.4	139.3	130.8	126.6	125.2	125.2	125.2
12.5°	136.5	122.4	115.3	112.5	112.5	111.1	111.1
15°	122.4	111.1	104.0	101.2	101.2	99.9	101.2
17.5°	111.1	99.9	94.2	91.4	91.4	90.1	90.1
20°	101.2	91.4	85.8	81.6	81.6	80.2	81.6
22.5°	92.8	83.0	76.0	73.2	71.7	70.4	71.7
25°	84.4	74.5	67.6	63.3	61.9	61.9	60.5
27.5°	77.4	67.6	59.1	54.8	53.5	53.5	52.0
30°	70.4	59.1	50.7	46.4	45.0	45.0	45.0
32.5°	63.3	50.7	43.6	39.4	38.0	38.0	38.0
35°	56.3	43.6	36.6	32.3	31.0	31.0	31.0
37.5°	47.9	36.6	28.1	25.3	23.9	22.5	22.5
40°	40.8	28.1	21.1	18.2	15.4	15.4	15.4
42.5°	33.8	22.5	15.4	11.3	9.8	8.4	9.8
45°	28.1	16.9	9.8	5.6	4.2	4.2	4.2
47.5°	22.5	11.3	4.2	1.5	1.5	1.5	1.5
50°	16.9	7.0	1.5	0.0	0.0	1.5	1.5
52.5°	12.6	4.2	0.0	0.0	0.0	0.0	0.0
55°	7.0	1.5	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°	1.5	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.5	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.5	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)