

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: P151613

Luminaire Tested: **VXS-F05-LED-E1-SL4-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P151613
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33728)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: VXS-F05-LED-E1-SL4-HSS-8030
Description: VISION SITE SMALL LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (35) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7088.6 lumens
Efficiency: N/A
Efficacy: 53.2 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-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

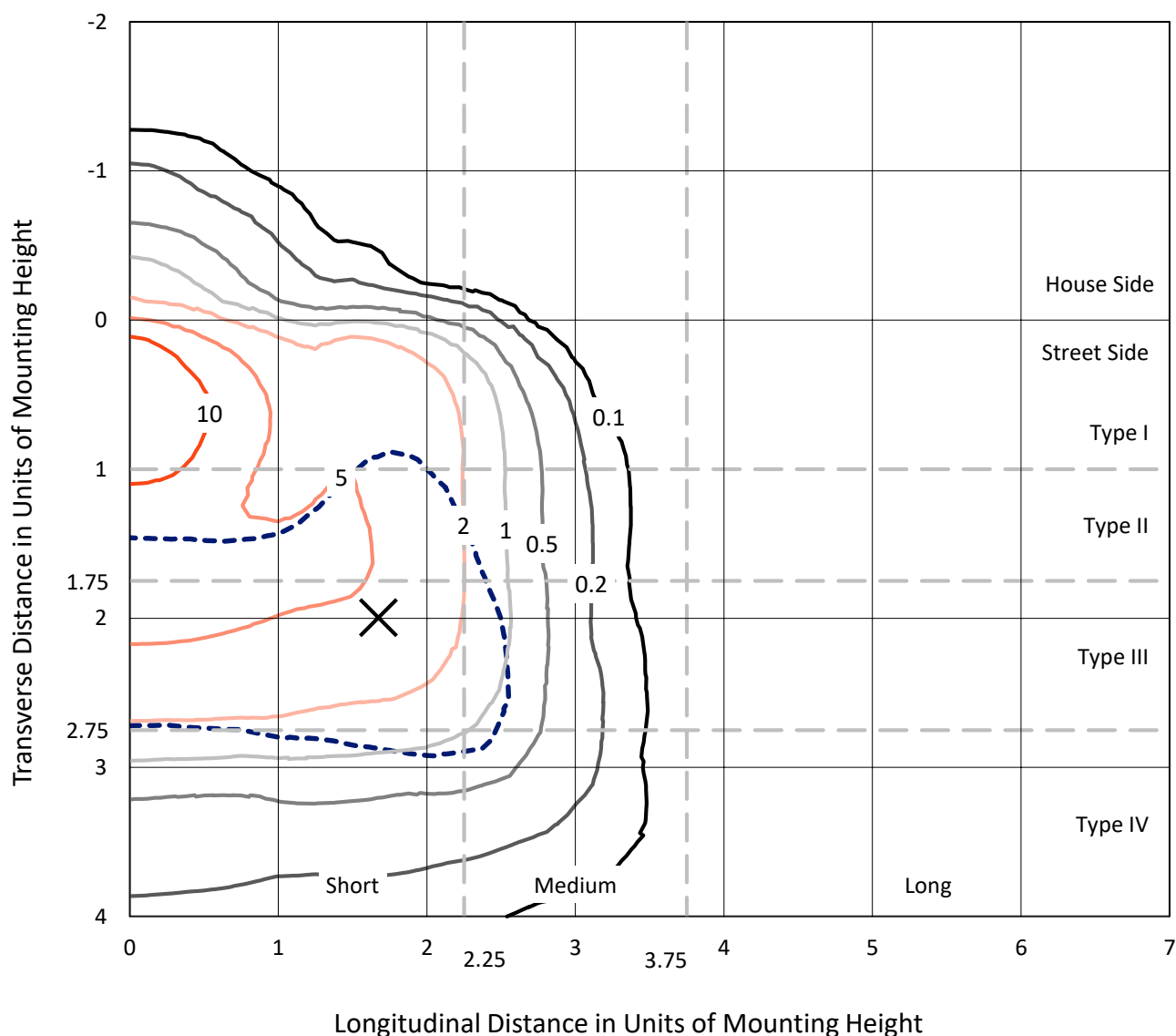


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

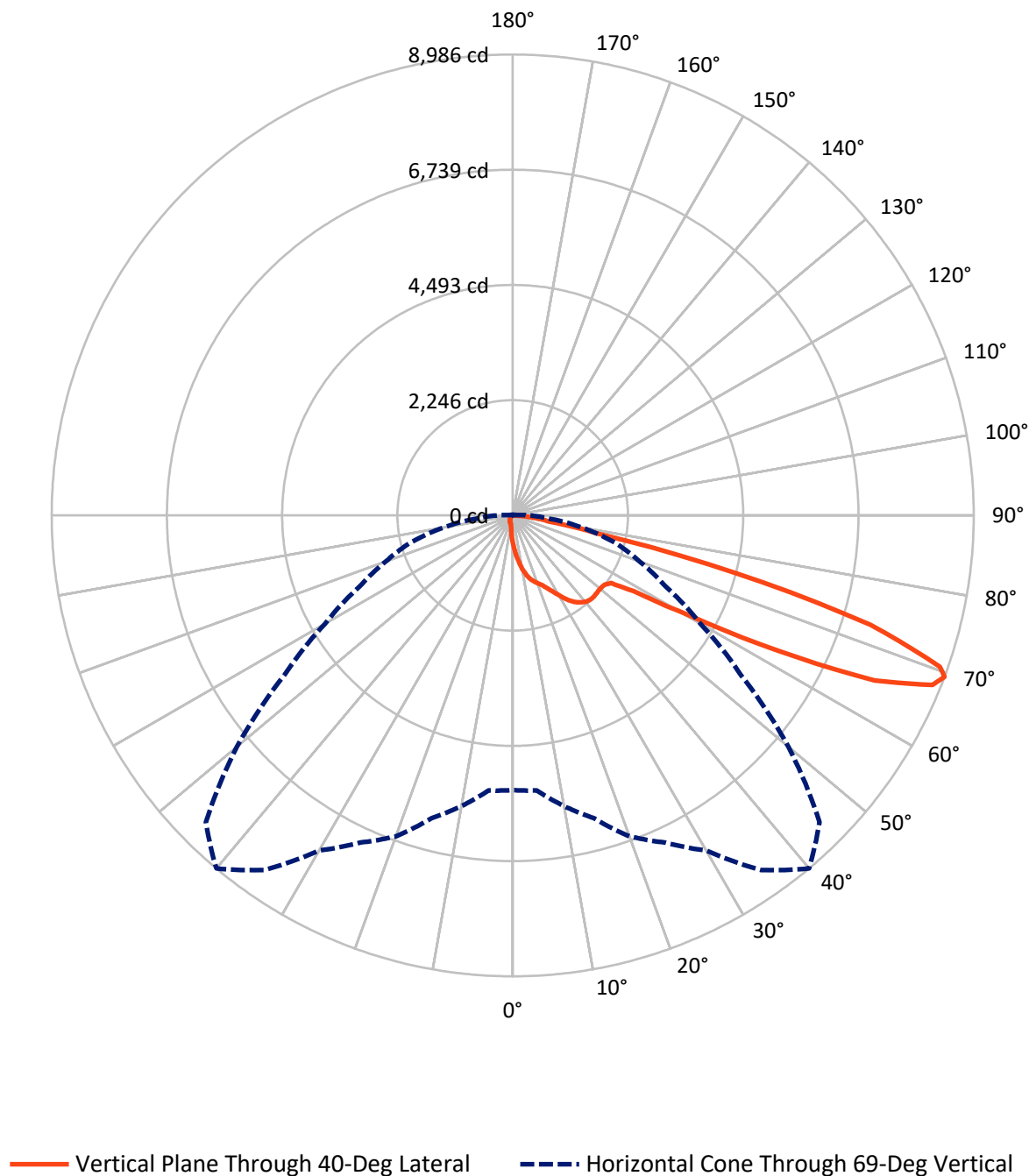


Based on 10 foot mounting height. Maximum calculated value = 15.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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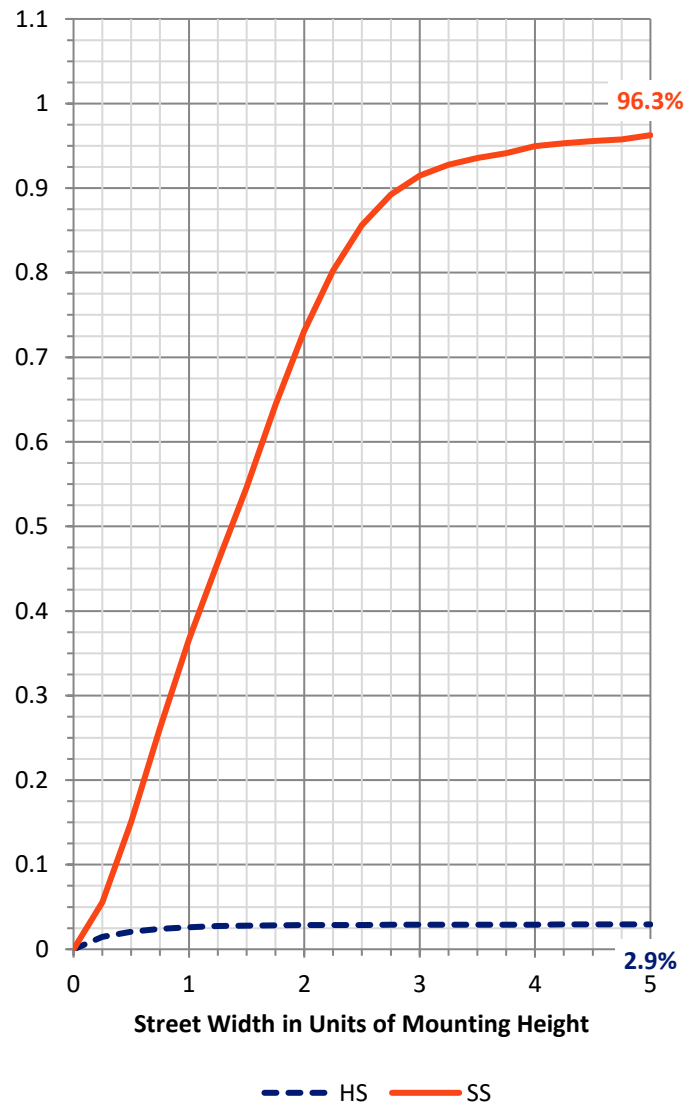
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	211.1	0.0	211.1
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	6877.5	0.0	6877.5
	% Fixture	97.0	0.0	97.0
Total	Lumens	7088.6	0.0	7088.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.0	0.8
10°-20°	189.7	2.7
20°-30°	363.1	5.1
30°-40°	603.8	8.5
40°-50°	817.1	11.5
50°-60°	1277.8	18.0
60°-70°	2627.2	37.1
70°-80°	1057.1	14.9
80°-90°	97.8	1.4
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°	7088.6	100.0
0°-180°	7088.6	100.0

Coefficient of Utilization



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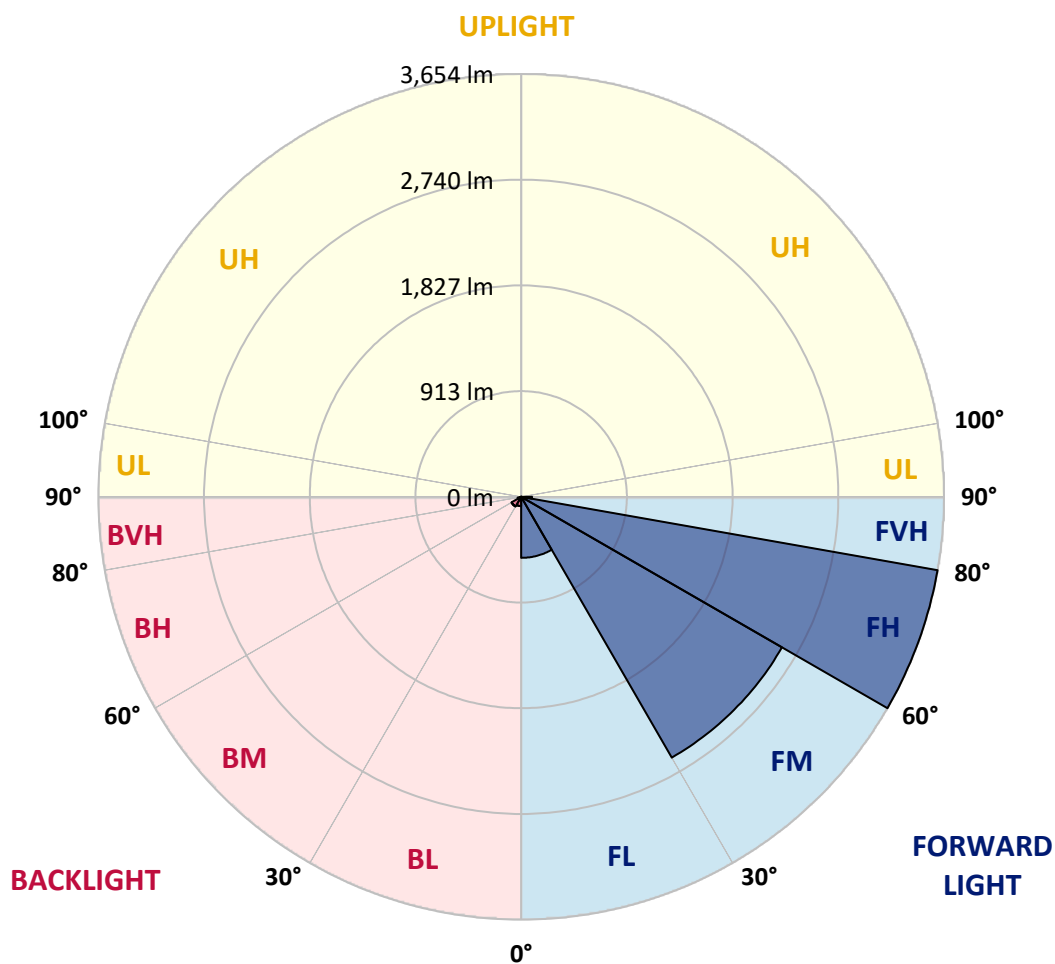
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	527.5	7.4			
FM	(30°-60°)	2602.3	36.7			
FH	(60°-80°)	3653.5	51.5			G2/5000
FVH	(80°-90°)	94.1	1.3			G1/100
BL	(0°-30°)	80.3	1.1	B0/110		
BM	(30°-60°)	96.4	1.4	B0/220		
BH	(60°-80°)	30.8	0.4	B0/110		G0/110
BVH	(80°-90°)	3.6	0.1			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3
2.5°	714.2	706.0	696.7	696.7	685.1	685.1	678.1	659.6	657.2	646.8	636.4
5°	911.6	904.6	893.0	882.5	873.3	857.0	845.4	823.3	799.0	775.6	754.8
7.5°	1104.4	1100.8	1079.9	1076.5	1061.3	1034.6	1011.4	979.0	937.1	904.6	866.3
10°	1283.1	1275.0	1270.4	1250.7	1228.6	1199.6	1163.5	1124.0	1075.3	1024.2	969.6
12.5°	1424.9	1420.2	1399.3	1391.2	1367.9	1338.9	1293.6	1242.5	1193.8	1127.6	1063.7
15°	1530.5	1522.4	1508.4	1495.6	1467.8	1442.3	1400.4	1344.7	1285.5	1213.5	1136.9
17.5°	1618.8	1603.6	1600.2	1580.4	1551.4	1521.2	1474.7	1423.6	1354.0	1282.0	1198.3
20°	1737.2	1716.3	1709.3	1680.3	1646.6	1604.8	1551.4	1487.6	1414.4	1335.4	1249.4
22.5°	1876.6	1861.5	1846.3	1820.8	1777.8	1718.7	1640.8	1571.1	1478.2	1391.2	1298.2
25°	2074.0	2061.1	2036.8	2002.0	1948.5	1877.7	1783.6	1681.5	1572.3	1460.8	1351.7
27.5°	2265.6	2254.0	2236.5	2209.8	2149.4	2071.6	1955.5	1825.5	1687.3	1552.5	1431.8
30°	2445.5	2435.1	2417.7	2391.0	2337.5	2260.9	2129.6	1990.4	1818.4	1661.8	1516.6
32.5°	2639.5	2636.0	2616.3	2577.9	2531.5	2428.1	2285.3	2135.5	1961.3	1780.2	1610.6
35°	2859.0	2832.2	2813.7	2775.3	2696.4	2586.0	2418.9	2255.1	2071.6	1885.8	1696.6
37.5°	3044.8	3019.2	2996.0	2947.2	2850.8	2710.3	2521.0	2341.0	2151.7	1962.5	1769.7
40°	3180.6	3167.9	3140.0	3076.1	2968.1	2800.8	2596.5	2400.2	2209.8	2019.4	1828.9
42.5°	3281.7	3261.9	3230.6	3164.4	3036.6	2846.1	2626.7	2424.7	2236.5	2054.2	1867.3
45°	3318.8	3302.5	3273.5	3201.5	3063.3	2859.0	2625.5	2417.7	2237.7	2064.7	1892.8
47.5°	3296.7	3280.4	3254.9	3187.6	3051.7	2843.8	2604.7	2397.9	2226.1	2068.2	1916.1
50°	3223.5	3214.3	3194.5	3137.6	3015.8	2814.8	2586.0	2387.5	2223.7	2085.6	1948.5
52.5°	3216.6	3210.8	3186.4	3129.5	3005.3	2805.5	2583.7	2393.3	2243.5	2107.7	1971.7
55°	3930.8	3848.3	3663.6	3506.9	3249.1	2942.6	2701.0	2487.4	2327.0	2194.7	2099.5
57.5°	5586.6	5463.5	5220.8	4922.5	4330.3	3748.4	3282.8	2946.0	2780.0	2719.6	2755.5
60°	6362.4	6340.3	6302.0	6160.3	5857.2	5356.7	4799.4	4196.7	3955.1	3934.2	4007.4
62.5°	6730.5	6716.6	6728.2	6710.7	6616.7	6470.4	6310.1	6049.9	5810.8	5656.4	5328.9
65°	6900.0	6909.3	6975.4	7027.8	7039.4	7077.7	7194.9	7519.0	7755.9	7357.5	6448.3
67.5°	6469.2	6523.7	6675.9	6866.3	7089.3	7305.3	7653.7	8336.5	8823.0	8355.0	7063.7
69°	5355.5	5382.3	5753.9	6112.6	6657.3	7038.2	7543.3	8438.7	8985.6	8457.2	7014.9
70°	4216.4	4240.8	4639.1	5126.8	6047.7	6537.7	7198.4	8265.6	8833.5	8321.3	6764.1
72.5°	1902.1	1867.3	2007.8	2269.0	3270.1	4048.1	5203.4	6696.8	7287.9	6666.6	5060.6
75°	1328.4	1313.4	1328.4	1329.6	1485.2	1916.1	2417.7	3629.9	4489.3	3873.9	2417.7
77.5°	1028.8	1018.4	1008.0	996.4	1014.9	1136.9	1185.6	1287.8	1672.1	1581.6	922.0
80°	814.0	804.8	830.3	822.2	822.2	836.1	826.8	788.5	716.5	664.2	594.5
82.5°	378.5	380.9	380.9	413.4	498.1	581.8	608.5	570.2	506.3	430.8	347.3
85°	36.0	40.6	68.5	105.7	210.2	236.9	238.0	197.4	197.4	155.6	125.4
87.5°	0.0	1.1	1.1	1.1	10.5	29.0	24.4	6.9	3.5	3.5	5.8
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3
2.5°	617.8	614.3	600.3	586.4	573.7	559.7	546.9	534.2	520.2	509.7	497.0
5°	722.3	696.7	667.7	639.8	611.9	582.9	552.7	526.0	498.1	472.6	448.2
7.5°	828.0	778.0	738.5	688.6	643.3	598.0	556.3	513.3	473.8	436.6	401.8
10°	917.4	857.0	795.4	731.6	666.5	606.1	548.1	497.0	444.8	399.5	356.5
12.5°	990.6	913.9	838.4	758.2	685.1	608.5	536.5	474.9	413.4	362.3	318.1
15°	1056.7	968.5	877.9	785.0	692.1	605.0	524.9	448.2	385.5	327.5	277.5
17.5°	1110.2	1009.1	906.9	802.4	702.6	600.3	509.7	429.6	356.5	296.1	247.4
20°	1156.6	1050.9	940.6	823.3	709.5	599.2	497.0	406.4	331.0	267.0	219.5
22.5°	1199.6	1093.9	975.4	850.1	720.0	598.0	485.4	389.0	308.9	245.0	197.4
25°	1248.3	1136.9	1012.5	877.9	738.5	602.7	478.4	375.0	289.1	224.1	180.0
27.5°	1302.9	1185.6	1056.7	912.7	762.9	611.9	476.1	360.0	271.7	204.4	166.0
30°	1379.6	1243.6	1100.8	947.6	785.0	622.4	473.8	350.7	254.3	189.3	152.1
32.5°	1446.8	1300.6	1149.6	983.5	809.3	632.8	472.6	337.9	238.0	174.2	141.7
35°	1517.7	1352.8	1191.4	1018.4	830.3	644.5	471.5	328.6	223.0	159.1	131.2
37.5°	1579.3	1397.0	1223.9	1048.6	853.5	654.9	472.6	320.5	209.0	146.3	122.0
40°	1631.5	1442.3	1259.9	1076.5	877.9	671.2	473.8	312.3	195.1	134.7	113.8
42.5°	1677.9	1485.2	1298.2	1107.8	905.8	689.7	480.7	305.4	183.5	124.2	105.7
45°	1714.0	1524.7	1340.1	1151.9	951.1	720.0	493.5	300.7	171.8	114.9	98.7
47.5°	1751.1	1582.8	1410.9	1221.7	1017.2	767.6	515.5	299.6	162.6	108.0	92.8
50°	1802.2	1640.8	1473.6	1292.4	1077.6	816.4	542.3	300.7	151.0	101.0	87.0
52.5°	1839.4	1700.0	1554.9	1415.5	1221.7	965.0	645.6	321.7	145.2	95.2	80.1
55°	2058.9	2034.5	2037.9	2061.1	1911.4	1642.0	1079.9	464.5	170.7	108.0	79.0
57.5°	2903.1	2989.0	3039.0	3037.7	2790.5	2314.3	1450.4	596.9	190.5	125.4	94.1
60°	4013.2	3948.2	3856.5	3629.9	3301.3	2641.8	1622.3	642.2	164.9	99.9	85.9
62.5°	4994.4	4613.6	4275.6	3908.7	3477.8	2755.5	1657.1	638.7	144.0	75.4	60.4
65°	5606.4	4921.2	4375.5	3915.6	3408.2	2660.4	1567.7	586.4	122.0	61.6	49.9
67.5°	5752.7	4755.2	3983.0	3396.6	2847.4	2070.5	1150.8	441.2	95.2	51.1	44.1
69°	5433.4	4226.8	3300.2	2634.8	2071.6	1373.7	711.8	278.7	73.2	46.4	40.6
70°	4997.9	3676.5	2688.2	2114.6	1534.0	965.0	498.1	196.3	59.2	43.0	37.2
72.5°	3215.4	1931.1	1321.5	919.7	632.8	384.4	195.1	88.3	45.3	36.0	30.2
75°	1247.2	714.2	517.9	393.7	307.8	213.7	118.4	56.9	38.3	30.2	23.2
77.5°	614.3	470.3	384.4	263.6	153.3	95.2	63.8	44.1	31.4	22.1	15.1
80°	485.4	322.8	192.7	119.6	90.6	68.5	48.8	36.0	23.2	13.9	10.5
82.5°	248.5	135.9	99.9	81.2	67.4	53.4	39.5	25.6	15.1	9.3	8.1
85°	77.8	56.9	51.1	49.9	46.4	38.3	27.9	16.3	9.3	5.8	5.8
87.5°	5.8	8.1	10.5	8.1	9.3	8.1	10.5	6.9	4.7	4.7	3.5
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3
2.5°	487.7	473.8	461.0	452.8	437.8	432.0	426.2	423.8	413.4	415.8	406.4
5°	426.2	401.8	383.2	364.7	347.3	334.4	323.9	311.2	300.7	296.1	286.8
7.5°	370.5	339.1	314.7	294.9	274.1	257.8	243.8	234.6	225.3	216.0	211.3
10°	321.7	288.0	260.1	240.4	220.6	206.7	196.3	189.3	183.5	180.0	178.9
12.5°	276.4	243.8	218.3	200.9	185.8	178.9	174.2	170.7	169.5	168.4	168.4
15°	241.6	209.0	189.3	176.5	169.5	166.0	164.9	162.6	160.2	159.1	159.1
17.5°	209.0	184.7	170.7	163.7	160.2	157.9	155.6	153.3	151.0	149.8	149.8
20°	186.9	167.3	160.2	155.6	152.1	149.8	146.3	144.0	142.8	141.7	140.5
22.5°	169.5	156.8	152.1	148.6	144.0	140.5	138.1	135.9	133.6	132.3	131.2
25°	156.8	148.6	145.2	140.5	135.9	132.3	128.9	125.4	123.1	122.0	119.6
27.5°	147.5	141.7	137.0	131.2	126.5	123.1	119.6	116.2	113.8	111.5	110.4
30°	139.4	133.6	127.8	123.1	117.3	113.8	109.1	105.7	104.6	102.2	99.9
32.5°	131.2	125.4	119.6	113.8	108.0	103.3	101.0	96.4	94.1	92.8	90.6
35°	122.0	116.2	109.1	104.6	98.7	94.1	90.6	87.0	84.8	82.5	81.2
37.5°	113.8	106.8	99.9	94.1	89.4	84.8	81.2	77.8	75.4	73.2	72.0
40°	104.6	97.5	90.6	84.8	80.1	76.7	73.2	69.6	67.4	66.2	66.2
42.5°	96.4	88.3	81.2	76.7	73.2	68.5	65.1	61.6	60.4	59.2	60.4
45°	88.3	80.1	74.3	69.6	66.2	61.6	58.0	55.8	54.6	55.8	56.9
47.5°	81.2	73.2	67.4	63.8	60.4	56.9	53.4	51.1	51.1	53.4	55.8
50°	74.3	66.2	61.6	59.2	55.8	52.2	47.6	46.4	47.6	49.9	52.2
52.5°	67.4	58.0	54.6	53.4	49.9	46.4	43.0	41.8	43.0	45.3	44.1
55°	60.4	51.1	49.9	48.8	45.3	40.6	37.2	37.2	37.2	36.0	33.7
57.5°	58.0	45.3	44.1	43.0	39.5	34.8	32.5	30.2	29.0	25.6	24.4
60°	60.4	40.6	40.6	38.3	34.8	30.2	26.7	23.2	20.9	18.5	18.5
62.5°	48.8	37.2	36.0	33.7	29.0	24.4	20.9	17.4	16.3	15.1	15.1
65°	39.5	33.7	31.4	27.9	24.4	19.7	16.3	13.9	12.7	12.7	13.9
67.5°	36.0	30.2	26.7	23.2	19.7	15.1	12.7	11.6	11.6	12.7	12.7
69°	33.7	27.9	24.4	20.9	17.4	13.9	11.6	11.6	11.6	11.6	12.7
70°	31.4	26.7	23.2	19.7	15.1	11.6	10.5	10.5	11.6	11.6	12.7
72.5°	24.4	20.9	19.7	16.3	11.6	10.5	9.3	10.5	10.5	11.6	11.6
75°	18.5	15.1	15.1	12.7	9.3	8.1	8.1	9.3	9.3	10.5	10.5
77.5°	12.7	10.5	10.5	9.3	8.1	6.9	6.9	8.1	9.3	9.3	10.5
80°	9.3	8.1	6.9	8.1	6.9	5.8	6.9	8.1	8.1	9.3	9.3
82.5°	6.9	6.9	6.9	6.9	5.8	5.8	6.9	6.9	8.1	9.3	9.3
85°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	6.9	6.9	8.1	8.1
87.5°	3.5	3.5	3.5	4.7	4.7	5.8	5.8	5.8	5.8	6.9	6.9
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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CATALOG NUMBER: VXS-F05-LED-E1-SL4-HSS-8030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	535.3	535.3	535.3	535.3
2.5°	404.1	402.9	398.3	399.5
5°	283.3	276.4	281.0	279.9
7.5°	207.9	206.7	205.5	207.9
10°	177.6	177.6	176.5	177.6
12.5°	167.3	167.3	167.3	167.3
15°	159.1	159.1	157.9	157.9
17.5°	149.8	149.8	149.8	148.6
20°	140.5	139.4	139.4	139.4
22.5°	130.1	128.9	128.9	128.9
25°	119.6	118.4	118.4	118.4
27.5°	109.1	108.0	106.8	106.8
30°	98.7	97.5	96.4	96.4
32.5°	88.3	87.0	85.9	85.9
35°	79.0	79.0	77.8	76.7
37.5°	70.9	70.9	70.9	70.9
40°	65.1	66.2	66.2	66.2
42.5°	61.6	62.7	63.8	65.1
45°	59.2	61.6	62.7	62.7
47.5°	58.0	59.2	60.4	60.4
50°	53.4	52.2	52.2	52.2
52.5°	43.0	40.6	39.5	38.3
55°	31.4	30.2	27.9	27.9
57.5°	22.1	22.1	20.9	20.9
60°	17.4	17.4	16.3	17.4
62.5°	15.1	15.1	15.1	15.1
65°	13.9	13.9	13.9	13.9
67.5°	13.9	13.9	13.9	13.9
69°	12.7	12.7	12.7	12.7
70°	12.7	12.7	12.7	12.7
72.5°	11.6	11.6	11.6	11.6
75°	10.5	11.6	11.6	11.6
77.5°	10.5	10.5	10.5	10.5
80°	9.3	9.3	10.5	10.5
82.5°	9.3	9.3	9.3	9.3
85°	8.1	8.1	9.3	9.3
87.5°	6.9	6.9	8.1	8.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)