

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: P149325

Luminaire Tested: **VXS-F04-LED-E1-SL2-HSS**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P149325
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-F04-LED-E1-SL2-HSS
Description: VISION SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (28) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6054.6 lumens
Efficiency: N/A
Efficacy: 59.2 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 102.2
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



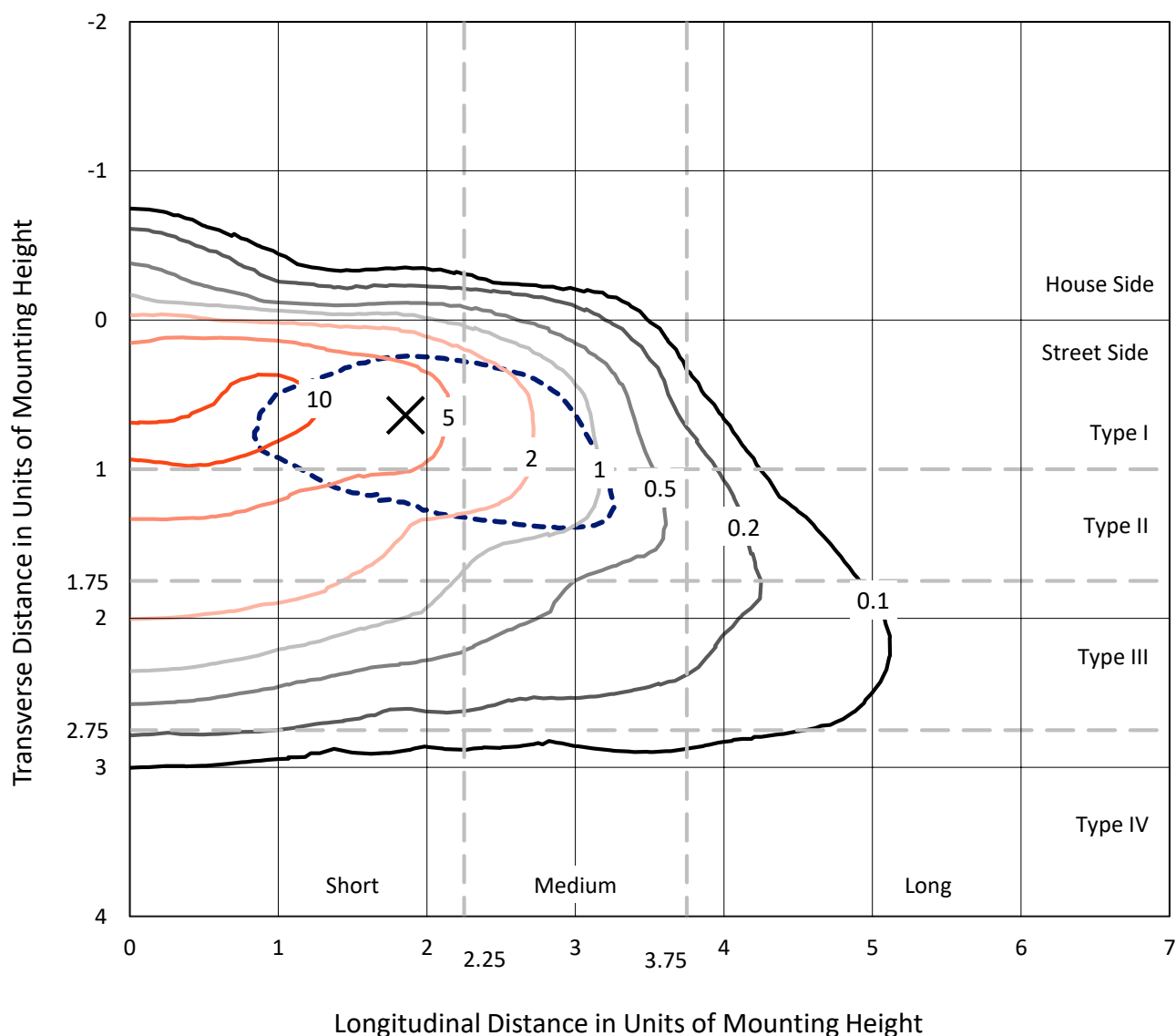
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

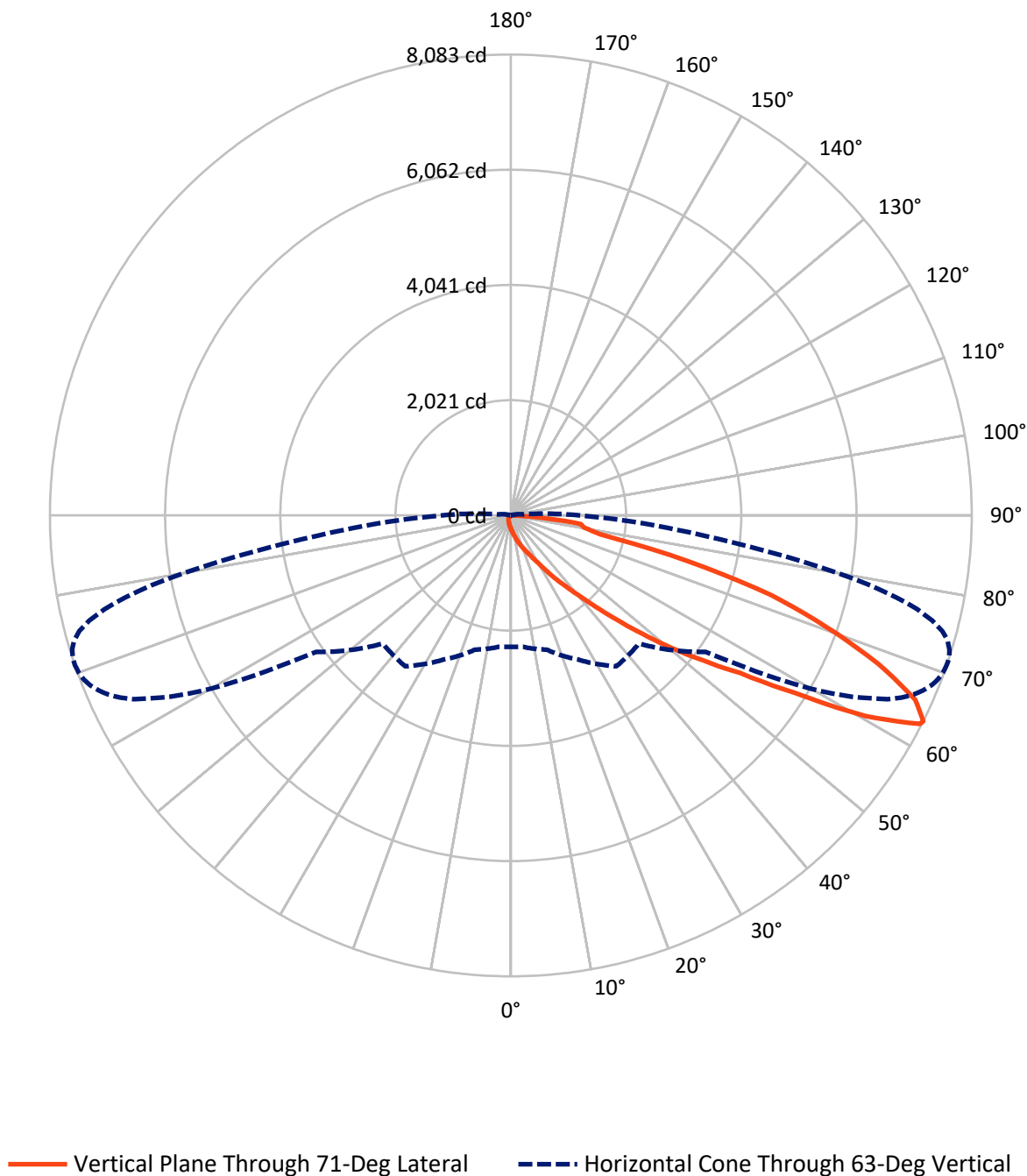


Based on 10 foot mounting height. Maximum calculated value = 12.7 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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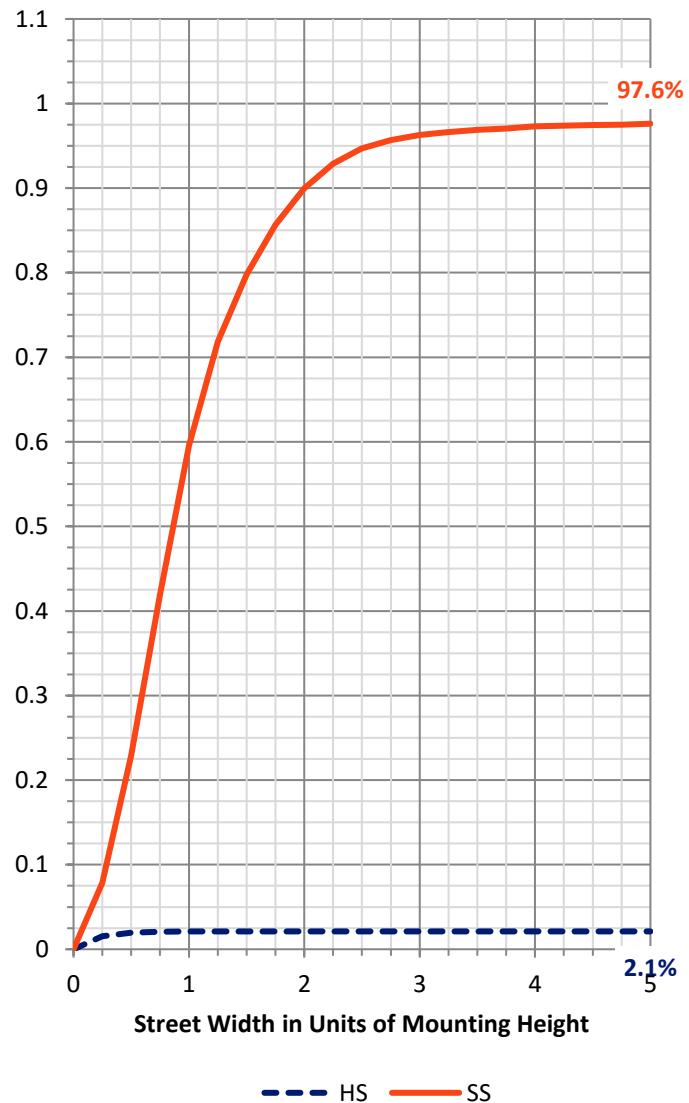
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	128.5	0.0	128.5
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	5926.1	0.0	5926.1
	% Fixture	97.9	0.0	97.9
Total	Lumens	6054.6	0.0	6054.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.7	0.4
10°-20°	99.6	1.6
20°-30°	202.2	3.3
30°-40°	494.0	8.2
40°-50°	1104.9	18.2
50°-60°	1553.6	25.7
60°-70°	1826.9	30.2
70°-80°	659.7	10.9
80°-90°	88.2	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°	6054.6	100.0
0°-180°	6054.6	100.0

Coefficient of Utilization



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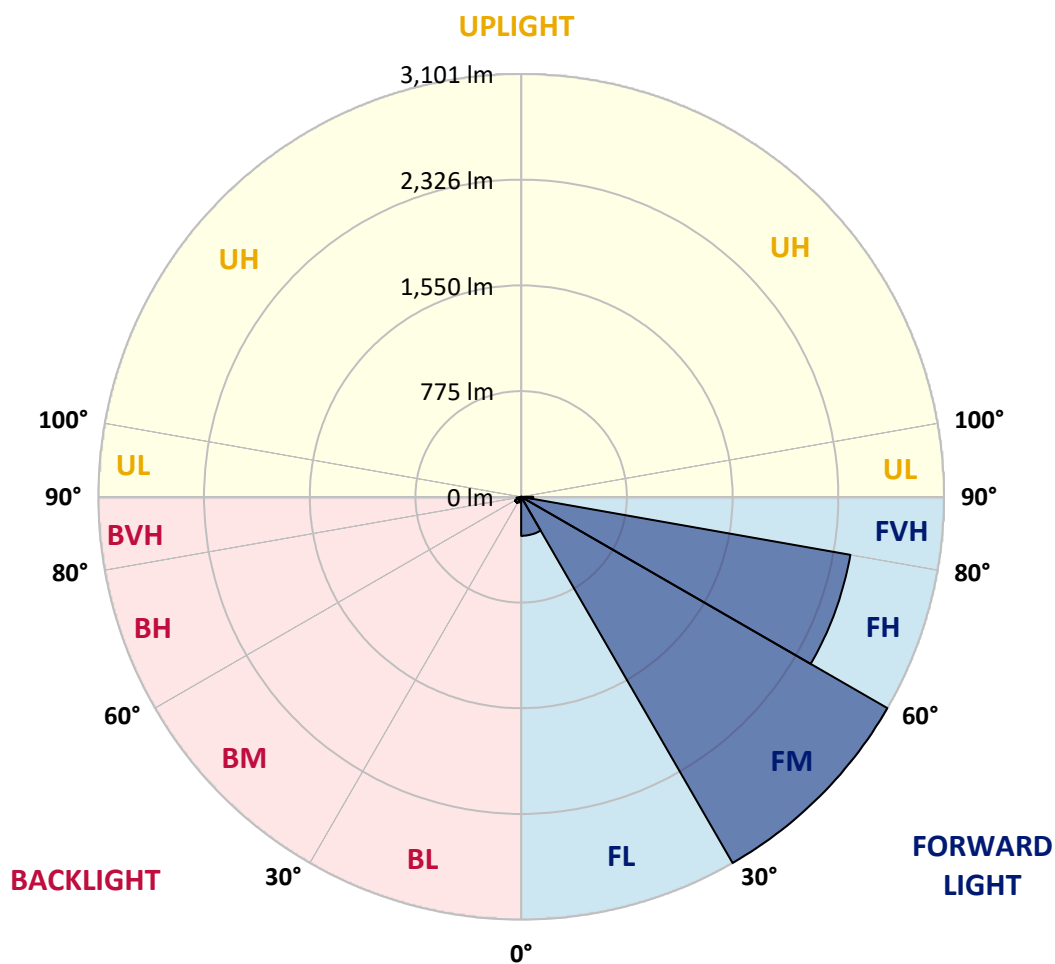
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	286.1	4.7			
FM	(30°-60°)	3100.7	51.2			
FH	(60°-80°)	2451.3	40.5			G2/5000
FVH	(80°-90°)	88.0	1.5			G1/100
BL	(0°-30°)	41.3	0.7	B0/110		
BM	(30°-60°)	51.8	0.9	B0/220		
BH	(60°-80°)	35.2	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°	232.2	232.2	232.2	232.2	232.2	232.2	232.2	232.2	232.2	232.2	232.2
2.5°	303.8	307.0	304.9	299.4	292.7	283.9	276.3	276.3	275.1	271.9	273.0
5°	398.4	399.6	395.1	382.0	369.8	351.1	330.3	328.0	325.8	322.5	321.5
7.5°	490.9	495.3	490.9	476.6	452.4	423.7	390.8	387.5	380.8	380.8	376.5
10°	585.6	585.6	581.1	564.7	542.7	502.0	460.1	454.6	446.8	444.7	438.0
12.5°	652.7	652.7	650.5	641.7	624.1	587.8	537.1	531.6	521.8	518.4	510.7
15°	679.2	679.2	680.2	688.0	689.0	672.5	619.7	615.3	605.4	596.6	593.3
17.5°	695.6	694.5	694.5	705.6	725.4	736.4	702.3	697.8	686.8	682.4	671.4
20°	731.9	729.7	723.1	723.1	741.9	780.4	780.4	779.3	767.2	763.8	758.3
22.5°	785.9	783.7	763.8	747.4	756.2	804.7	849.7	847.6	843.1	838.8	835.4
25°	874.0	866.2	832.1	783.7	776.0	827.8	902.6	908.1	911.4	911.4	913.6
27.5°	1007.2	997.2	936.7	846.4	812.3	865.2	960.9	971.9	981.9	984.0	993.9
30°	1192.0	1174.4	1087.5	955.4	877.3	920.2	1046.7	1058.9	1073.2	1077.6	1093.0
32.5°	1495.9	1485.9	1402.3	1204.1	1036.9	1028.1	1166.7	1182.2	1200.8	1208.6	1227.3
35°	1958.1	1960.3	1892.1	1713.8	1482.7	1361.6	1381.3	1394.6	1401.1	1424.4	1434.2
37.5°	2271.8	2277.3	2292.7	2222.3	2057.2	1933.9	1778.8	1793.1	1759.0	1762.2	1763.3
40°	2443.5	2461.1	2551.4	2619.7	2606.4	2534.9	2410.6	2418.2	2354.4	2340.1	2270.8
42.5°	2558.0	2581.1	2725.3	2936.7	3044.6	3109.4	3080.8	3077.5	3028.0	3009.3	2951.0
45°	2629.5	2650.5	2832.1	3143.6	3392.3	3581.7	3659.8	3668.6	3626.8	3608.1	3559.7
47.5°	2626.3	2650.5	2845.3	3220.6	3587.2	3889.8	4110.1	4121.0	4146.3	4129.8	4133.2
50°	2480.9	2504.0	2700.0	3089.6	3529.9	4030.8	4433.6	4468.8	4509.5	4537.1	4550.3
52.5°	2304.9	2321.3	2495.3	2865.1	3285.6	3972.4	4625.2	4685.7	4746.2	4797.9	4834.3
55°	2239.9	2258.7	2395.1	2702.2	3089.6	3728.1	4714.3	4803.4	4889.3	4974.1	5043.4
57.5°	2274.1	2291.6	2389.6	2625.2	2973.0	3470.5	4739.6	4878.3	5019.2	5156.8	5293.3
60°	2399.5	2418.2	2501.9	2696.7	2942.2	3321.9	4640.5	4870.6	5105.1	5345.0	5570.7
62.5°	2349.9	2357.7	2480.9	2822.2	3162.3	3195.3	4280.6	4602.1	4959.8	5329.6	5693.9
63°	2302.7	2311.5	2437.0	2788.1	3229.4	3176.6	4169.4	4508.5	4886.0	5284.5	5680.7
65°	2088.0	2089.1	2184.9	2462.3	3154.6	3209.6	3674.1	3997.7	4431.4	4909.1	5409.9
67.5°	1558.5	1550.9	1643.3	1854.7	2476.6	3210.8	3153.5	3335.1	3636.7	4060.5	4509.5
70°	552.5	540.4	690.2	982.9	1543.2	2626.3	2709.9	2722.1	2805.7	3034.6	3316.4
72.5°	179.4	182.7	220.1	359.9	711.1	1767.8	2453.5	2416.1	2394.0	2393.0	2430.4
75°	71.5	72.6	88.1	159.6	319.2	851.9	2148.6	2169.4	2177.2	2188.2	2200.3
77.5°	34.1	37.4	49.5	89.1	158.5	421.6	1537.7	1714.9	1816.2	1894.3	1941.7
80°	12.1	14.3	27.6	55.0	73.8	193.7	810.2	977.4	1126.0	1317.5	1482.7
82.5°	0.0	0.0	5.5	38.5	40.7	78.1	332.4	389.6	445.8	577.8	741.9
85°	0.0	0.0	0.0	11.0	12.1	13.2	112.2	135.3	151.9	177.2	204.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.3	6.6	16.5	25.3
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°	232.2	232.2	232.2	232.2	232.2	232.2	232.2	232.2	232.2	232.2	232.2
2.5°	270.8	269.6	269.6	267.5	266.3	264.1	263.1	259.8	258.7	258.7	258.7
5°	320.3	315.9	313.7	308.2	304.9	303.8	298.2	296.1	292.7	293.9	288.4
7.5°	375.3	367.7	364.4	356.6	354.4	346.7	344.6	339.1	335.8	329.1	326.9
10°	435.9	426.0	420.5	408.4	405.1	399.6	393.0	386.3	380.8	374.2	371.0
12.5°	505.2	496.4	492.0	475.5	467.8	460.1	451.3	442.5	433.7	428.2	420.5
15°	586.6	572.3	568.0	552.5	539.4	529.4	517.3	506.3	499.7	488.7	481.0
17.5°	667.0	652.7	649.4	626.3	612.0	605.4	592.2	577.8	565.8	554.7	542.7
20°	747.4	737.5	728.7	706.6	691.2	680.2	662.6	648.3	638.4	623.0	607.6
22.5°	827.8	817.8	811.2	788.1	773.8	758.3	743.0	727.6	713.3	694.5	676.9
25°	910.3	903.6	900.4	879.5	866.2	851.9	836.6	819.0	801.3	780.4	761.7
27.5°	996.2	998.3	991.7	987.4	973.1	963.1	938.9	926.8	913.6	888.3	865.2
30°	1105.1	1111.7	1109.5	1112.8	1104.0	1097.4	1078.7	1063.3	1047.9	1023.6	997.2
32.5°	1242.7	1251.5	1255.9	1268.0	1263.6	1261.5	1255.9	1233.9	1222.9	1181.0	1170.1
35°	1455.1	1450.7	1469.4	1479.4	1474.9	1472.7	1466.1	1454.0	1440.8	1411.1	1383.6
37.5°	1731.4	1735.9	1742.4	1722.6	1709.4	1708.3	1688.5	1676.4	1657.6	1624.7	1591.6
40°	2237.7	2210.2	2179.4	2095.8	2059.4	2038.4	1980.2	1963.6	1931.7	1886.6	1852.4
42.5°	2896.0	2868.4	2776.0	2636.2	2561.3	2457.8	2410.6	2352.2	2307.0	2233.4	2193.7
45°	3549.7	3470.5	3459.5	3296.6	3204.1	3067.7	2982.9	2885.0	2782.6	2685.7	2615.2
47.5°	4101.2	4083.6	4029.6	3930.6	3844.8	3730.3	3621.3	3470.5	3364.9	3227.3	3100.6
50°	4542.6	4541.5	4521.7	4464.5	4392.8	4300.4	4204.7	4077.0	3957.0	3788.6	3653.3
52.5°	4872.8	4890.4	4897.0	4879.4	4851.9	4770.5	4722.0	4615.2	4514.0	4370.9	4224.5
55°	5114.9	5179.9	5213.0	5250.4	5242.6	5214.0	5211.8	5142.5	5096.3	4982.9	4879.4
57.5°	5414.3	5521.1	5623.5	5805.1	5811.7	5875.5	5908.6	5941.6	5950.4	5905.3	5871.1
60°	5795.2	6013.2	6206.8	6586.6	6685.7	6842.0	6943.2	7053.3	7146.8	7154.5	7152.3
62.5°	6063.7	6399.5	6712.0	7275.6	7468.3	7648.8	7784.1	7890.9	7955.9	8021.9	8052.7
63°	6071.5	6439.1	6771.5	7352.6	7555.2	7726.9	7855.6	7954.7	8023.0	8062.6	8082.5
65°	5885.5	6331.2	6727.5	7306.4	7496.9	7669.6	7736.8	7801.8	7834.8	7850.2	7791.8
67.5°	4988.4	5424.2	5886.5	6533.8	6696.7	6903.6	6958.7	6991.6	7007.0	7003.7	6954.2
70°	3730.3	4095.8	4609.7	5349.4	5565.2	5767.7	5893.2	5947.0	5964.7	5959.2	5885.5
72.5°	2604.2	2818.9	3242.7	4066.0	4359.9	4619.7	4774.8	4855.2	4871.7	4838.7	4770.5
75°	2187.0	2198.1	2293.9	2744.0	3019.2	3296.6	3471.6	3522.3	3489.2	3389.0	3215.1
77.5°	1952.6	1976.9	1976.9	2044.0	2097.9	2175.0	2191.5	2068.2	1925.1	1740.2	1590.5
80°	1637.8	1722.6	1782.1	1831.6	1837.1	1821.7	1780.9	1711.6	1601.6	1460.6	1304.4
82.5°	995.0	1162.4	1230.6	1485.9	1611.4	1696.2	1689.5	1597.1	1513.5	1367.0	1233.9
85°	251.0	270.8	293.9	382.0	428.2	522.8	582.3	609.7	619.7	569.0	515.1
87.5°	24.2	16.5	27.6	20.9	29.7	22.0	29.7	27.6	34.1	36.4	39.6
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	232.2	232.2	232.2	232.2	232.2	232.2	232.2	232.2	232.2	232.2	232.2
2.5°	256.5	255.3	254.3	253.2	252.0	251.0	248.8	248.8	246.5	245.5	244.4
5°	285.1	282.9	281.8	279.6	276.3	274.1	270.8	266.3	263.1	262.0	259.8
7.5°	321.5	315.9	313.7	310.4	306.0	299.4	295.0	291.7	286.2	282.9	276.3
10°	362.2	356.6	350.1	343.4	336.8	329.1	323.6	319.2	310.4	306.0	298.2
12.5°	413.9	403.9	396.3	387.5	378.7	369.8	363.2	350.1	342.3	332.4	325.8
15°	466.7	457.9	449.1	438.0	424.9	410.6	403.9	391.8	382.0	366.5	357.7
17.5°	530.6	514.0	500.8	487.6	475.5	462.3	449.1	430.4	416.1	402.9	385.3
20°	593.3	573.5	559.2	541.6	523.9	503.0	487.6	474.4	454.6	437.0	418.2
22.5°	660.4	640.6	617.5	599.9	575.6	559.2	538.2	516.3	496.4	473.3	450.2
25°	741.9	720.9	694.5	671.4	643.9	620.8	595.4	570.2	545.9	519.5	489.8
27.5°	842.1	820.0	791.4	763.8	727.6	699.0	674.7	640.6	609.7	576.8	542.7
30°	968.6	944.4	909.2	869.5	833.3	801.3	767.2	722.1	688.0	648.3	604.2
32.5°	1133.7	1105.1	1057.8	1020.3	975.2	933.4	886.1	840.9	792.5	740.7	690.2
35°	1341.8	1315.3	1260.3	1205.3	1155.8	1106.2	1046.7	995.0	926.8	864.0	799.1
37.5°	1557.5	1510.2	1459.5	1400.1	1338.4	1279.0	1206.3	1134.8	1056.7	988.4	906.9
40°	1804.0	1746.8	1705.0	1641.1	1554.2	1469.4	1402.3	1313.2	1215.1	1123.8	1028.1
42.5°	2142.0	2078.1	2003.3	1906.4	1843.6	1744.6	1657.6	1552.0	1423.2	1320.8	1205.3
45°	2532.7	2445.8	2373.2	2279.6	2203.6	2080.3	1979.1	1838.1	1709.4	1575.1	1434.2
47.5°	2978.4	2870.7	2765.0	2672.5	2551.4	2430.4	2301.6	2151.9	1986.7	1839.3	1671.9
50°	3490.4	3337.3	3190.9	3072.0	2905.8	2766.0	2626.3	2457.8	2275.1	2105.6	1915.2
52.5°	4059.4	3882.2	3688.4	3505.7	3313.1	3133.7	2965.3	2771.6	2568.0	2361.0	2148.6
55°	4746.2	4613.1	4385.2	4153.0	3895.3	3655.4	3438.5	3198.7	2951.0	2679.1	2455.6
57.5°	5821.6	5756.7	5566.2	5334.0	4998.2	4706.6	4339.0	4045.1	3686.2	3312.0	3023.6
60°	7279.0	7198.5	7091.8	6903.6	6637.2	6240.9	5836.0	5379.2	4833.2	4314.7	3822.7
62.5°	8056.1	8027.4	7940.4	7810.6	7561.8	7249.2	6840.8	6339.0	5722.5	5093.0	4465.5
63°	8079.2	8042.8	7968.0	7835.9	7616.9	7314.2	6913.5	6425.9	5822.7	5181.0	4540.4
65°	7766.5	7752.2	7676.3	7532.1	7382.4	7151.3	6840.8	6421.5	5915.1	5308.7	4671.4
67.5°	6888.2	6845.3	6728.6	6684.6	6580.0	6419.3	6182.6	5894.2	5532.1	5055.5	4505.2
70°	5826.0	5762.2	5615.8	5537.6	5409.9	5308.7	5164.5	4958.7	4735.2	4402.8	3992.2
72.5°	4700.0	4567.9	4433.6	4229.9	4051.7	3871.2	3711.6	3566.2	3320.8	3186.5	2875.0
75°	3052.2	2812.3	2582.3	2274.1	1996.7	1751.2	1512.3	1391.3	1139.3	1036.9	890.5
77.5°	1448.5	1314.2	1133.7	993.9	815.6	665.9	543.7	408.4	320.3	251.0	191.5
80°	1168.9	1055.5	946.6	820.0	685.7	547.0	419.4	313.7	222.4	154.1	109.0
82.5°	1042.4	919.1	784.8	697.8	606.5	496.4	407.3	332.4	245.5	179.4	122.2
85°	405.1	341.2	263.1	214.6	167.4	137.6	124.4	85.8	67.2	52.8	40.7
87.5°	35.2	28.6	23.1	15.4	16.5	8.8	9.9	6.6	5.5	5.5	4.4
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°	232.2	232.2	232.2	232.2	232.2	232.2	232.2	232.2	232.2	232.2	232.2
2.5°	243.2	242.2	241.0	238.9	238.9	236.7	235.5	234.4	228.9	216.8	206.9
5°	255.3	253.2	251.0	247.7	245.5	242.2	240.0	236.7	224.6	201.5	181.7
7.5°	273.0	268.6	265.3	258.7	255.3	251.0	247.7	242.2	222.4	187.2	159.6
10°	293.9	286.2	280.7	273.0	266.3	260.8	255.3	247.7	220.1	171.7	139.8
12.5°	319.2	310.4	299.4	290.6	281.8	274.1	266.3	256.5	216.8	158.5	124.4
15°	344.6	331.3	323.6	311.5	299.4	288.4	277.4	268.6	217.9	144.1	111.2
17.5°	373.2	359.9	343.4	330.3	317.0	302.7	289.5	271.9	212.4	133.2	101.2
20°	400.6	382.0	366.5	350.1	331.3	313.7	297.2	281.8	208.1	122.2	92.4
22.5°	430.4	408.4	388.5	367.7	344.6	324.7	304.9	285.1	200.3	112.2	84.8
25°	466.7	441.3	412.7	387.5	363.2	339.1	313.7	289.5	192.6	103.4	79.3
27.5°	510.7	477.7	449.1	417.2	383.0	352.2	324.7	298.2	184.9	96.9	73.8
30°	566.8	528.3	487.6	446.8	410.6	375.3	336.8	303.8	177.2	90.3	68.3
32.5°	641.7	593.3	543.7	496.4	448.0	402.9	362.2	319.2	172.8	84.8	62.7
35°	740.7	678.0	617.5	558.0	499.7	444.7	391.8	343.4	172.8	78.1	56.2
37.5°	834.3	761.7	684.7	610.9	541.6	477.7	414.9	356.6	164.0	72.6	50.7
40°	935.5	848.6	758.3	671.4	587.8	508.5	437.0	369.8	156.3	66.0	45.1
42.5°	1090.8	980.7	862.9	761.7	661.6	563.5	474.4	395.1	146.4	59.5	39.6
45°	1294.4	1154.6	1016.0	892.6	765.0	645.0	539.4	441.3	144.1	53.9	34.1
47.5°	1512.3	1347.3	1184.4	1026.9	877.3	737.5	610.9	493.2	144.1	48.4	29.7
50°	1729.2	1522.3	1348.4	1165.6	997.2	832.1	681.3	547.0	145.3	44.0	24.2
52.5°	1925.1	1703.8	1509.0	1297.7	1111.7	920.2	756.2	599.9	143.1	38.5	19.8
55°	2197.0	1937.2	1711.6	1478.2	1260.3	1044.6	858.5	679.2	144.1	34.1	16.5
57.5°	2697.8	2393.0	2121.0	1815.0	1564.1	1285.6	1060.0	842.1	157.4	28.6	12.1
60°	3416.6	3020.3	2638.3	2265.3	1946.0	1614.7	1322.0	1065.5	184.9	23.1	8.8
62.5°	3899.8	3381.3	2925.7	2514.0	2143.1	1796.4	1477.1	1185.5	203.6	18.8	5.5
63°	3949.3	3413.3	2955.3	2530.5	2151.9	1805.2	1483.7	1194.3	204.8	17.6	5.5
65°	4042.9	3468.3	2971.9	2533.8	2143.1	1793.1	1479.4	1193.2	206.9	14.3	4.4
67.5°	3936.1	3383.5	2876.2	2439.2	2066.0	1721.5	1424.4	1149.1	205.8	9.9	3.3
70°	3520.0	3062.2	2616.4	2209.1	1870.1	1558.5	1296.6	1047.9	189.3	6.6	2.2
72.5°	2584.5	2273.0	1927.4	1633.5	1408.9	1170.1	998.3	787.0	146.4	4.4	1.1
75°	766.1	697.8	586.6	517.3	456.8	377.5	335.8	262.0	74.8	2.2	0.0
77.5°	153.0	138.7	124.4	113.4	106.7	91.4	86.9	71.5	30.8	1.1	0.0
80°	80.3	66.0	56.2	49.5	42.9	35.2	29.7	24.2	5.5	0.0	0.0
82.5°	77.1	51.7	37.4	30.8	26.4	20.9	16.5	12.1	3.3	0.0	0.0
85°	28.6	22.0	16.5	13.2	11.0	9.9	7.7	6.6	0.0	0.0	0.0
87.5°	4.4	3.3	3.3	2.2	2.2	1.1	1.1	1.1	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-F04-LED-E1-SL2-HSS

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	232.2	232.2	232.2	232.2	232.2	232.2	232.2
2.5°	197.0	188.2	183.8	178.3	178.3	177.2	179.4
5°	164.0	151.9	143.1	136.5	137.6	134.3	135.3
7.5°	138.7	126.6	118.9	114.5	113.4	112.2	112.2
10°	120.0	109.0	102.4	99.1	97.9	97.9	97.9
12.5°	106.7	95.8	90.3	88.1	88.1	86.9	86.9
15°	95.8	86.9	81.5	79.3	79.3	78.1	79.3
17.5°	86.9	78.1	73.8	71.5	71.5	70.5	70.5
20°	79.3	71.5	67.2	63.8	63.8	62.7	63.8
22.5°	72.6	65.0	59.5	57.2	56.2	55.0	56.2
25°	66.0	58.3	52.8	49.5	48.4	48.4	47.4
27.5°	60.5	52.8	46.2	42.9	41.9	41.9	40.7
30°	55.0	46.2	39.6	36.4	35.2	35.2	35.2
32.5°	49.5	39.6	34.1	30.8	29.7	29.7	29.7
35°	44.0	34.1	28.6	25.3	24.2	24.2	24.2
37.5°	37.4	28.6	22.0	19.8	18.8	17.6	17.6
40°	31.9	22.0	16.5	14.3	12.1	12.1	12.1
42.5°	26.4	17.6	12.1	8.8	7.7	6.6	7.7
45°	22.0	13.2	7.7	4.4	3.3	3.3	3.3
47.5°	17.6	8.8	3.3	1.1	1.1	1.1	1.1
50°	13.2	5.5	1.1	0.0	0.0	1.1	1.1
52.5°	9.9	3.3	0.0	0.0	0.0	0.0	0.0
55°	5.5	1.1	0.0	0.0	0.0	0.0	0.0
57.5°	3.3	0.0	0.0	0.0	0.0	0.0	0.0
60°	2.2	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.1	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.1	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.1	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)