

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: P150457

Luminaire Tested: **VXS-F03-LED-E1-SL3-HSS-7060**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P150457
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33727)
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-SL3-HSS-7060
Description: VISION SITE SMALL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (21) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4406 lumens
Efficiency: N/A
Efficacy: 56.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - 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



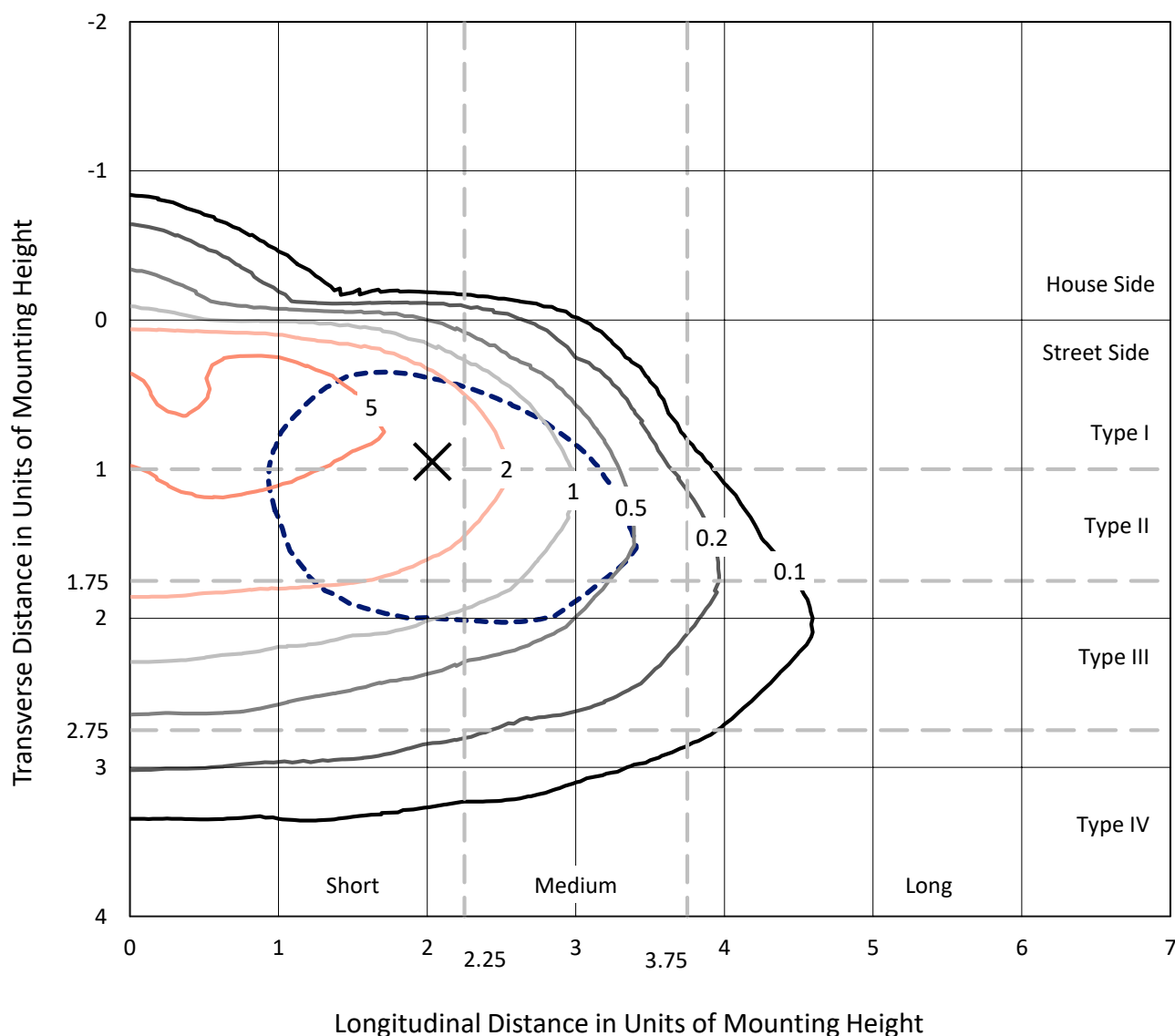
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

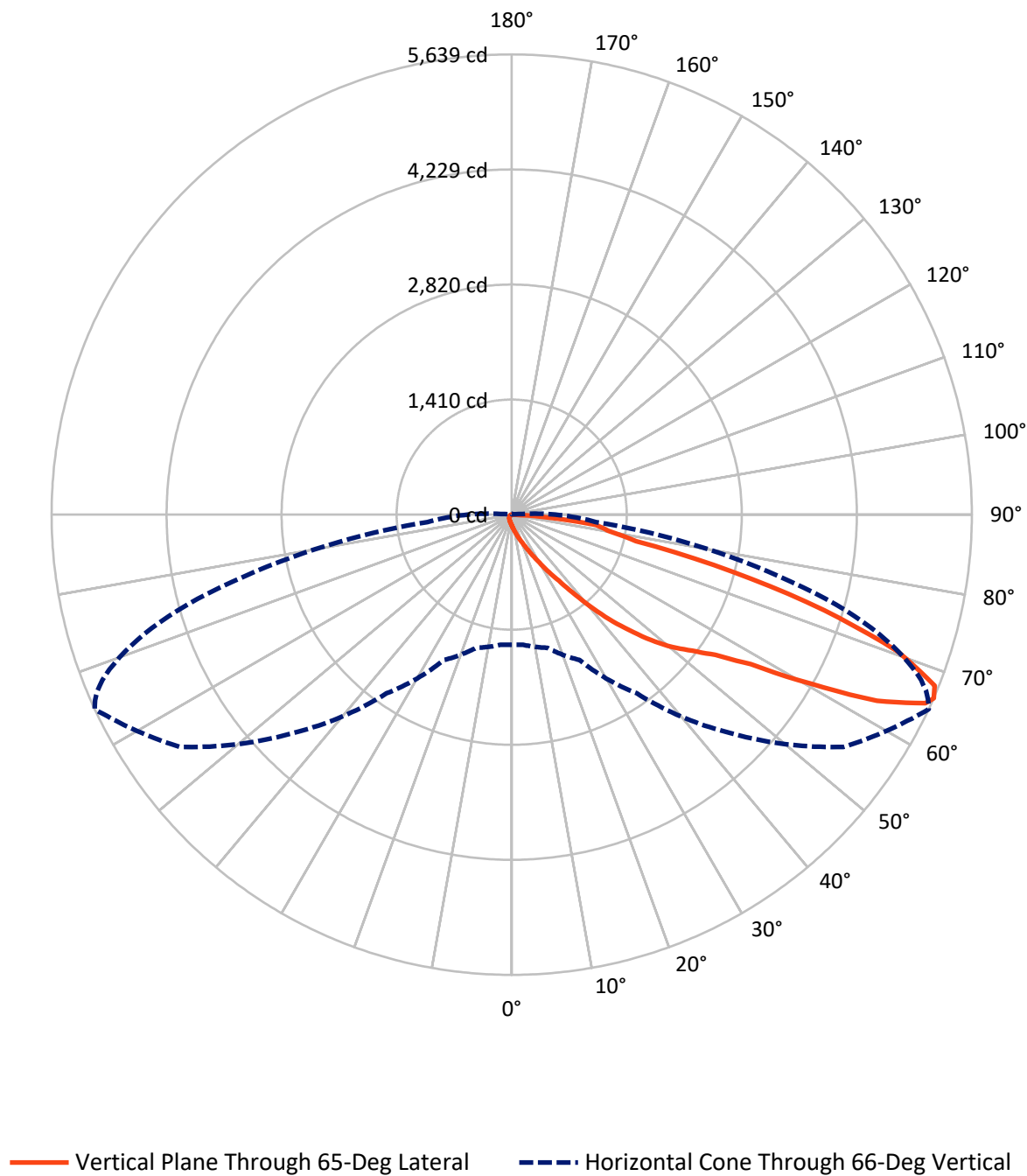


Based on 10 foot mounting height. Maximum calculated value = 7.3 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	95.5	0.0	95.5
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	4310.6	0.0	4310.6
	% Fixture	97.8	0.0	97.8
Total	Lumens	4406.0	0.0	4406.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.9	0.3
10°-20°	63.1	1.4
20°-30°	136.2	3.1
30°-40°	290.8	6.6
40°-50°	643.0	14.6
50°-60°	1089.7	24.7
60°-70°	1454.1	33.0
70°-80°	640.5	14.5
80°-90°	73.8	1.7
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°	4406.0	100.0
0°-180°	4406.0	100.0

Coefficient of Utilization



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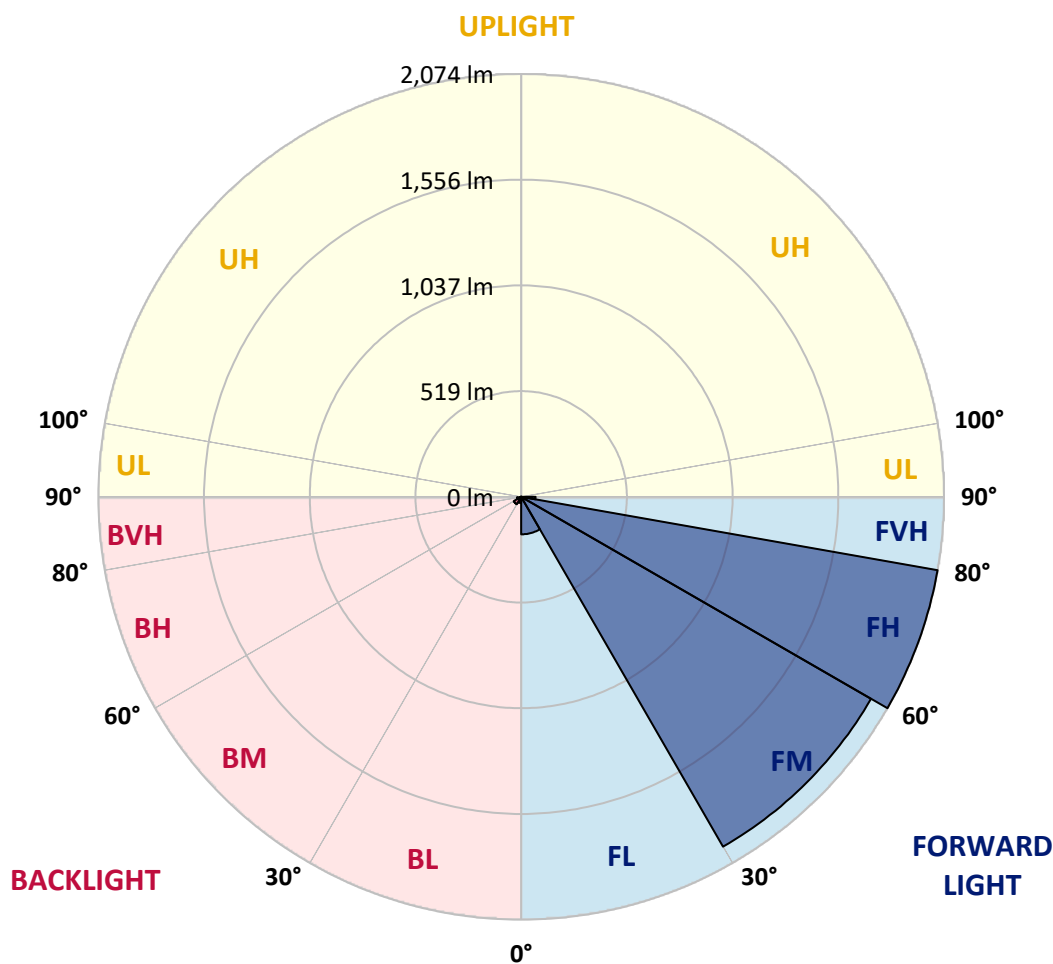
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	184.0	4.2			
FM	(30°-60°)	1981.5	45.0			
FH	(60°-80°)	2074.1	47.1			G2/5000
FVH	(80°-90°)	70.8	1.6			G1/100
BL	(0°-30°)	30.1	0.7	B0/110		
BM	(30°-60°)	41.9	1.0	B0/220		
BH	(60°-80°)	20.5	0.5	B0/110		G0/110
BVH	(80°-90°)	2.9	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	133.0	133.0	133.0	133.0	133.0	133.0	133.0	133.0	133.0	133.0	133.0
2.5°	167.8	166.8	163.5	163.5	158.4	155.0	150.8	146.5	146.5	145.7	144.9
5°	222.0	216.9	216.0	206.7	199.1	188.1	177.9	164.4	162.6	160.9	160.1
7.5°	282.1	281.2	273.6	262.6	247.4	227.0	206.7	184.7	181.2	179.6	176.2
10°	360.0	355.8	345.6	326.9	304.1	277.0	243.9	209.2	205.0	201.6	199.9
12.5°	434.5	426.9	421.0	397.3	368.5	328.7	288.8	238.9	235.4	231.3	224.5
15°	504.0	497.2	487.0	466.7	434.5	384.6	338.0	277.0	268.5	262.6	257.5
17.5°	558.2	554.0	542.2	519.3	484.6	440.5	384.6	316.0	309.2	301.6	292.2
20°	609.8	603.9	585.3	554.0	516.7	482.8	439.6	366.7	357.5	348.2	338.0
22.5°	659.1	653.1	622.6	570.9	531.1	516.7	501.5	424.4	409.9	402.4	392.2
25°	727.7	714.9	667.5	585.3	531.9	543.0	569.2	499.0	485.4	474.4	458.2
27.5°	820.0	803.0	728.5	606.5	535.3	571.8	647.2	589.5	575.1	562.5	544.7
30°	924.1	913.2	824.2	657.3	559.9	614.1	734.4	704.8	687.9	672.5	651.4
32.5°	1029.2	1014.0	925.8	753.9	626.0	696.3	843.7	838.7	816.6	802.2	779.3
35°	1121.6	1113.9	1048.7	912.3	776.8	840.3	989.4	995.3	975.9	960.6	935.1
37.5°	1184.2	1184.2	1171.5	1082.6	1016.5	1063.9	1203.7	1204.6	1185.1	1150.4	1137.6
40°	1216.4	1225.7	1271.5	1288.4	1285.0	1346.0	1485.0	1469.6	1453.6	1435.8	1393.5
42.5°	1282.5	1291.0	1388.4	1505.3	1581.5	1662.0	1757.7	1752.6	1733.2	1700.9	1662.0
45°	1394.3	1405.3	1521.3	1706.8	1863.5	1977.9	2038.9	2015.2	1995.8	1965.2	1944.9
47.5°	1536.6	1557.8	1689.1	1918.7	2107.6	2296.4	2360.0	2297.3	2280.3	2256.6	2223.5
50°	1688.2	1708.6	1848.3	2110.9	2324.4	2549.7	2655.5	2549.7	2525.2	2517.5	2480.2
52.5°	1819.5	1836.5	1971.2	2259.2	2490.4	2754.7	2908.8	2769.1	2751.3	2725.9	2698.8
55°	1897.4	1911.0	2037.2	2330.3	2603.1	2939.4	3153.7	3030.9	3004.6	2994.4	2955.4
57.5°	1923.7	1937.3	2050.8	2339.6	2664.0	3107.9	3451.0	3455.2	3423.8	3387.5	3375.6
60°	1923.7	1939.0	2034.7	2316.8	2723.3	3287.5	3847.5	4200.6	4132.8	4126.1	4082.9
62.5°	1844.0	1858.4	1955.0	2246.4	2803.0	3529.7	4399.7	5023.1	5003.6	4959.6	4888.5
65°	1671.3	1679.8	1774.6	2066.8	2772.4	3752.5	4878.3	5570.4	5539.1	5452.6	5361.1
66°	1593.4	1600.1	1689.1	1964.4	2672.5	3783.0	4963.0	5639.0	5587.4	5514.5	5411.1
67.5°	1480.7	1492.5	1555.2	1773.8	2432.8	3677.2	4909.6	5590.7	5545.8	5457.7	5354.4
70°	988.5	980.1	1201.1	1361.2	1853.4	2996.1	4404.8	5019.8	5020.6	4979.1	4937.6
72.5°	469.3	474.4	538.8	837.7	1213.1	2001.7	3506.0	4006.6	4064.2	3989.7	3938.0
75°	337.1	344.8	383.7	512.4	723.4	1201.1	2272.7	2802.2	2803.8	2671.7	2553.9
77.5°	98.2	102.5	144.0	316.0	542.2	810.7	1305.4	1557.8	1521.3	1426.4	1337.5
80°	40.6	40.6	42.4	100.8	217.7	550.6	913.2	1199.5	1195.2	1158.8	1106.3
82.5°	15.2	16.1	20.3	41.6	51.7	135.5	609.0	1041.0	1038.5	986.8	949.5
85°	1.7	1.7	5.1	17.8	19.5	25.4	122.0	459.1	456.6	459.1	402.4
87.5°	0.0	0.0	0.8	1.7	2.6	3.4	5.1	17.8	19.5	18.7	16.9
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):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	133.0	133.0	133.0	133.0	133.0	133.0	133.0	133.0	133.0	133.0	133.0
2.5°	144.9	143.1	143.1	142.3	142.3	142.3	141.5	140.6	140.6	139.8	139.0
5°	158.4	156.7	155.9	154.2	153.4	152.4	150.8	149.9	148.2	147.4	146.5
7.5°	174.5	171.1	170.3	167.8	165.2	163.5	161.8	159.3	157.5	154.2	153.4
10°	194.8	190.6	187.3	183.8	181.2	177.0	174.5	171.1	167.8	165.2	162.6
12.5°	221.0	215.1	210.1	206.7	200.7	195.6	190.6	188.1	181.2	177.9	173.7
15°	249.8	243.1	237.2	230.4	226.2	217.7	210.9	203.3	199.9	194.0	187.3
17.5°	287.2	276.2	266.8	260.1	251.6	243.1	235.4	227.9	217.7	210.9	202.5
20°	326.9	317.6	305.0	293.1	282.9	272.7	261.8	251.6	242.3	231.3	221.0
22.5°	377.8	364.2	349.0	337.1	323.6	312.5	297.3	283.7	268.5	254.1	242.3
25°	442.2	424.4	409.9	393.1	377.0	360.0	341.3	324.5	305.0	291.4	271.1
27.5°	521.8	504.9	485.4	463.3	447.3	421.9	397.3	376.1	353.3	332.0	309.2
30°	623.4	598.9	578.5	557.4	525.2	500.6	471.8	443.0	411.7	390.5	355.8
32.5°	745.4	719.2	688.7	658.1	628.5	593.8	558.2	522.7	487.9	448.9	413.4
35°	894.5	863.2	828.4	795.4	749.6	712.4	667.5	618.3	579.4	534.5	489.6
37.5°	1091.9	1040.2	1009.7	975.0	913.2	862.3	812.3	763.2	694.6	647.2	583.6
40°	1339.3	1308.7	1258.8	1202.8	1146.9	1080.0	1012.2	947.0	867.4	801.3	727.7
42.5°	1629.7	1584.9	1534.1	1453.6	1396.8	1318.0	1240.9	1154.6	1057.2	972.4	886.0
45°	1902.5	1849.1	1810.2	1729.7	1670.5	1577.3	1484.0	1392.6	1279.9	1170.7	1070.7
47.5°	2197.3	2153.3	2088.9	2023.6	1963.5	1858.4	1757.7	1646.7	1528.1	1398.5	1268.9
50°	2456.5	2421.8	2377.7	2299.0	2232.0	2143.9	2025.4	1904.2	1754.3	1625.5	1478.1
52.5°	2676.8	2649.6	2587.8	2531.9	2471.8	2388.7	2282.9	2166.8	2005.1	1863.5	1695.9
55°	2936.8	2917.3	2863.1	2828.4	2775.0	2695.4	2596.3	2488.7	2317.6	2163.4	1973.7
57.5°	3362.9	3347.7	3300.2	3285.8	3233.3	3163.8	3041.9	2926.6	2726.7	2535.3	2318.4
60°	4068.5	4038.0	3968.6	3933.0	3822.0	3728.8	3570.5	3412.0	3170.6	2926.6	2665.7
62.5°	4824.1	4738.5	4606.4	4492.8	4335.3	4173.6	3961.8	3719.5	3436.6	3146.8	2847.0
65°	5231.5	5085.8	4919.0	4738.5	4534.4	4296.4	4029.5	3739.0	3434.9	3129.1	2812.3
66°	5278.1	5113.8	4936.8	4736.0	4509.0	4255.8	3984.7	3679.7	3363.7	3065.6	2748.8
67.5°	5219.7	5047.8	4860.5	4637.7	4392.1	4129.5	3844.9	3528.1	3223.9	2921.6	2613.3
70°	4810.6	4639.5	4472.5	4237.9	3976.2	3711.9	3442.5	3088.4	2800.4	2522.6	2248.2
72.5°	3841.5	3725.4	3560.2	3359.5	3104.6	2794.5	2570.1	2253.3	2003.3	1734.0	1521.3
75°	2400.6	2237.1	2033.0	1777.2	1582.4	1330.8	1199.5	958.9	816.6	692.0	571.8
77.5°	1227.5	1104.6	961.5	817.4	679.4	542.2	419.3	296.5	199.9	139.0	103.3
80°	1014.0	905.5	786.9	655.6	533.7	414.2	298.1	203.3	129.6	84.7	66.1
82.5°	837.7	746.3	640.4	518.4	412.5	325.3	226.2	147.4	91.5	59.3	46.6
85°	356.6	323.6	249.8	198.2	149.1	110.2	77.1	51.7	36.4	29.6	27.2
87.5°	15.2	16.9	16.1	12.7	9.3	9.3	8.5	6.7	6.7	6.7	6.7
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):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	133.0	133.0	133.0	133.0	133.0	133.0	133.0	133.0	133.0	133.0	133.0
2.5°	139.0	138.0	137.2	137.2	136.4	135.5	130.5	126.2	121.1	117.7	114.4
5°	144.9	144.0	142.3	141.5	139.8	139.0	127.9	118.5	111.0	105.1	100.8
7.5°	150.8	149.9	147.4	144.9	144.0	142.3	124.6	112.6	102.5	95.8	91.5
10°	158.4	155.9	153.4	149.9	147.4	144.9	121.1	105.9	94.9	88.9	84.7
12.5°	169.4	165.2	160.9	156.7	153.4	149.1	119.5	100.0	88.9	82.2	77.9
15°	182.1	176.2	171.1	166.0	160.1	155.9	116.1	94.9	83.8	77.1	72.0
17.5°	194.0	187.3	179.6	171.9	166.0	160.1	112.6	89.7	78.8	72.0	66.9
20°	210.9	200.7	191.4	182.1	173.7	166.0	107.6	84.7	74.5	66.9	61.9
22.5°	229.5	217.7	205.8	193.2	182.1	171.9	103.3	80.5	70.3	62.7	56.8
25°	253.3	238.9	222.8	206.7	194.0	180.4	99.1	76.3	66.1	58.4	52.5
27.5°	286.3	266.0	248.2	227.9	208.4	193.2	95.8	72.8	61.9	54.2	48.3
30°	331.2	301.6	273.6	251.6	228.7	206.7	92.3	68.6	58.4	49.9	43.2
32.5°	381.1	346.4	314.3	281.2	252.4	227.0	88.9	65.2	54.2	45.7	39.8
35°	443.0	399.0	355.8	317.6	282.9	249.0	85.6	61.9	50.8	41.6	35.5
37.5°	531.9	476.9	420.1	371.0	326.1	281.2	83.0	58.4	46.6	37.3	31.3
40°	654.0	582.8	513.4	446.4	388.0	332.0	79.6	55.0	43.2	33.9	28.0
42.5°	786.1	699.7	608.2	532.8	452.3	382.1	76.3	51.7	39.8	30.5	24.6
45°	950.5	842.8	731.9	629.3	531.1	440.5	72.8	48.3	35.5	27.2	21.1
47.5°	1129.9	992.7	867.4	738.7	621.8	513.4	68.6	45.7	32.2	23.7	18.7
50°	1314.6	1169.8	1011.4	864.9	725.9	586.2	64.4	41.6	28.8	21.1	15.2
52.5°	1513.7	1342.6	1180.8	998.7	836.9	681.9	60.1	38.1	26.2	18.7	12.7
55°	1767.0	1575.5	1385.8	1181.7	986.8	792.8	56.0	33.9	22.9	16.1	10.2
57.5°	2085.5	1858.4	1625.5	1395.1	1158.8	938.5	52.5	29.6	19.5	13.6	8.5
60°	2386.2	2121.0	1839.0	1573.9	1307.0	1050.4	47.5	26.2	16.9	11.0	8.5
62.5°	2542.1	2239.7	1935.5	1643.3	1358.8	1090.2	42.4	22.1	14.4	9.3	7.7
65°	2503.9	2195.6	1900.8	1606.0	1327.4	1064.8	37.3	19.5	12.7	8.5	7.7
66°	2448.9	2143.9	1847.5	1567.0	1301.1	1037.6	34.7	18.7	11.8	8.5	6.7
67.5°	2328.6	2033.8	1750.9	1490.1	1229.1	986.0	31.3	16.9	11.0	7.7	6.7
70°	1988.9	1721.2	1495.1	1263.0	1050.4	831.0	25.4	14.4	9.3	6.7	6.7
72.5°	1316.4	1134.2	983.4	846.2	707.4	548.9	21.1	11.8	7.7	6.7	5.9
75°	496.4	448.9	385.4	346.4	302.4	265.2	16.9	7.7	5.9	5.9	5.9
77.5°	88.1	81.3	72.0	66.1	61.0	56.0	13.6	5.1	5.1	5.9	5.9
80°	59.3	55.0	49.9	45.7	42.4	38.1	9.3	4.2	5.1	5.1	5.9
82.5°	42.4	39.8	37.3	33.9	31.3	28.0	5.9	4.2	5.1	5.1	5.1
85°	25.4	23.7	22.1	20.3	17.8	16.9	4.2	4.2	4.2	5.1	5.1
87.5°	6.7	5.9	6.7	6.7	5.1	5.9	3.4	3.4	3.4	4.2	4.2
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):

	145°	155°	165°	175°	180°
0°	133.0	133.0	133.0	133.0	133.0
2.5°	112.6	112.6	111.0	113.5	113.5
5°	97.4	97.4	96.6	97.4	97.4
7.5°	88.9	88.1	88.1	88.1	88.9
10°	81.3	80.5	80.5	80.5	80.5
12.5°	74.5	73.7	72.8	73.7	73.7
15°	68.6	66.9	66.9	66.9	66.9
17.5°	63.5	61.9	61.0	61.0	61.0
20°	58.4	56.0	56.0	56.0	56.0
22.5°	53.4	50.8	50.8	50.8	50.8
25°	48.3	45.7	45.7	45.7	45.7
27.5°	44.0	41.6	41.6	41.6	41.6
30°	39.0	37.3	37.3	38.1	37.3
32.5°	35.5	33.1	33.1	33.9	33.9
35°	31.3	29.6	29.6	29.6	29.6
37.5°	27.2	25.4	25.4	25.4	25.4
40°	23.7	22.1	21.1	22.1	22.1
42.5°	20.3	18.7	17.8	17.8	17.8
45°	17.8	15.2	14.4	15.2	15.2
47.5°	14.4	12.7	12.7	13.6	13.6
50°	11.0	11.0	11.8	13.6	13.6
52.5°	10.2	10.2	11.8	13.6	13.6
55°	9.3	10.2	11.8	12.7	13.6
57.5°	8.5	10.2	11.8	12.7	12.7
60°	8.5	9.3	11.0	12.7	12.7
62.5°	7.7	8.5	10.2	11.8	11.8
65°	7.7	8.5	10.2	11.8	11.8
66°	7.7	8.5	10.2	11.8	11.8
67.5°	7.7	8.5	10.2	11.8	11.8
70°	7.7	8.5	10.2	11.0	11.0
72.5°	6.7	7.7	9.3	11.0	11.0
75°	6.7	7.7	9.3	11.0	11.0
77.5°	6.7	7.7	9.3	11.0	11.0
80°	6.7	7.7	9.3	10.2	11.0
82.5°	5.9	7.7	8.5	10.2	10.2
85°	5.9	6.7	8.5	9.3	10.2
87.5°	5.1	5.9	6.7	8.5	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)