

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: P151591

Luminaire Tested: **VXS-E03-LED-E1-SL4-HSS-7050**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P151591
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-E03-LED-E1-SL4-HSS-7050
Description: VISION SITE SMALL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (63) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6263.8 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 75.2
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



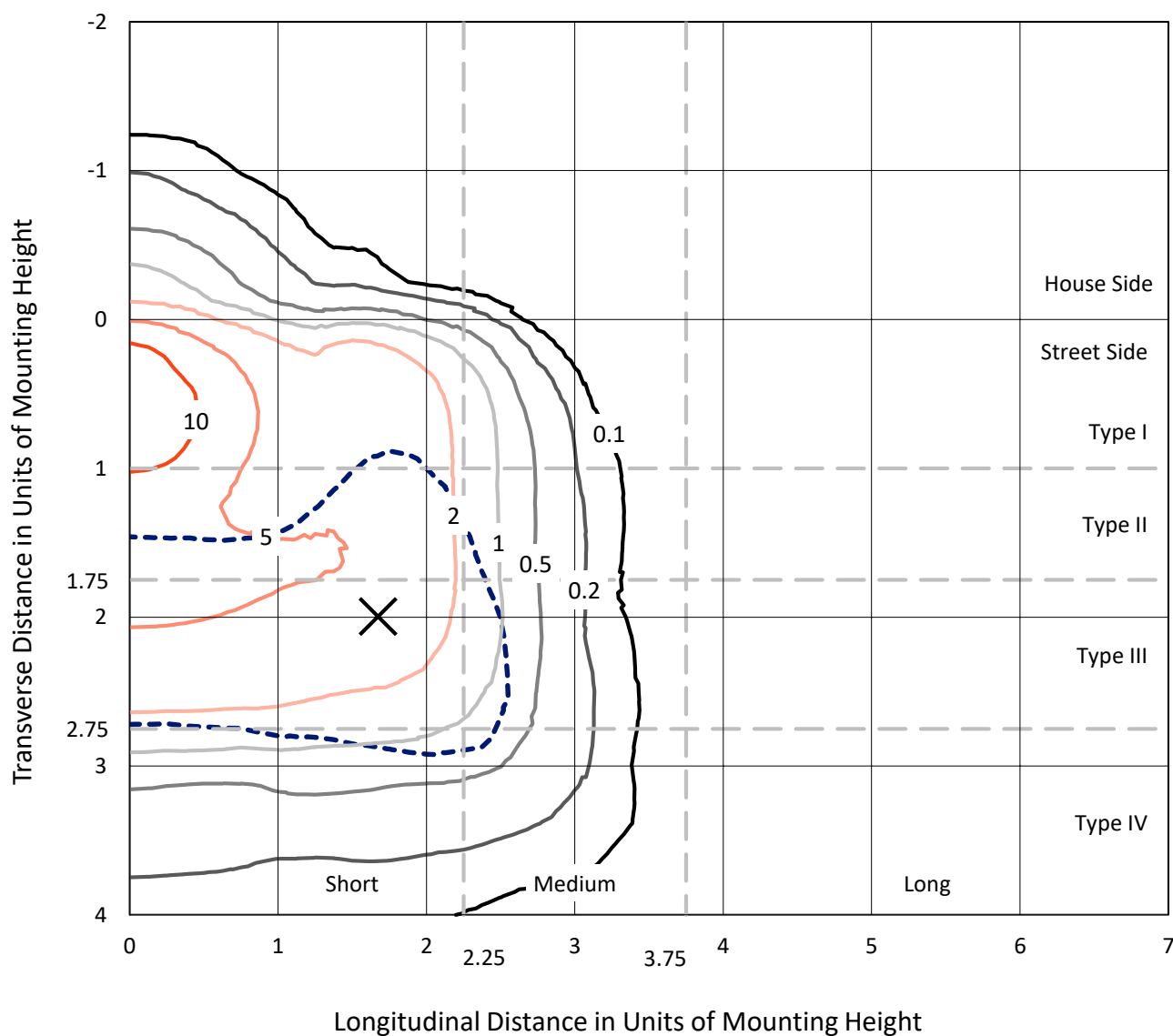
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

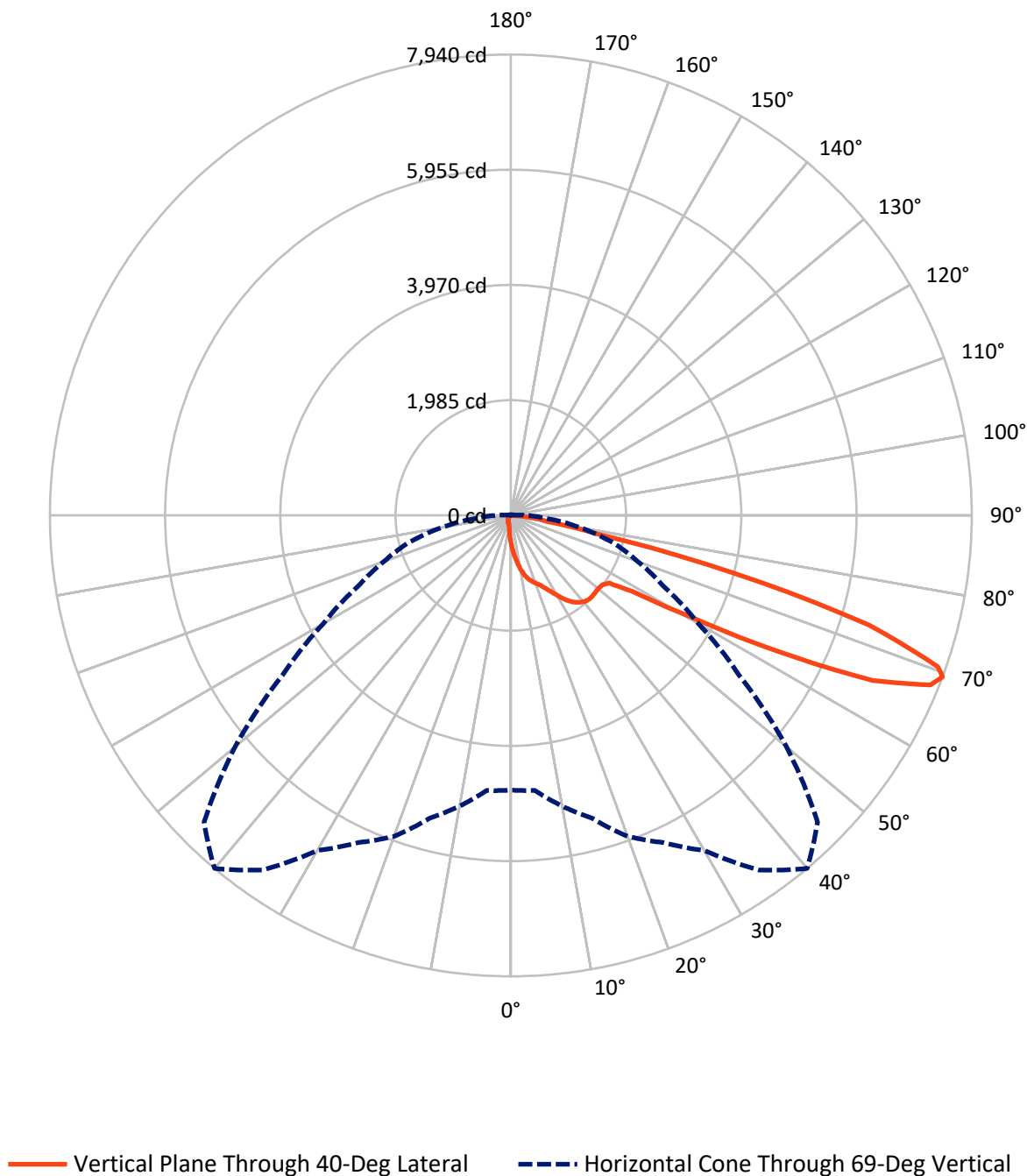


Based on 10 foot mounting height. Maximum calculated value = 14 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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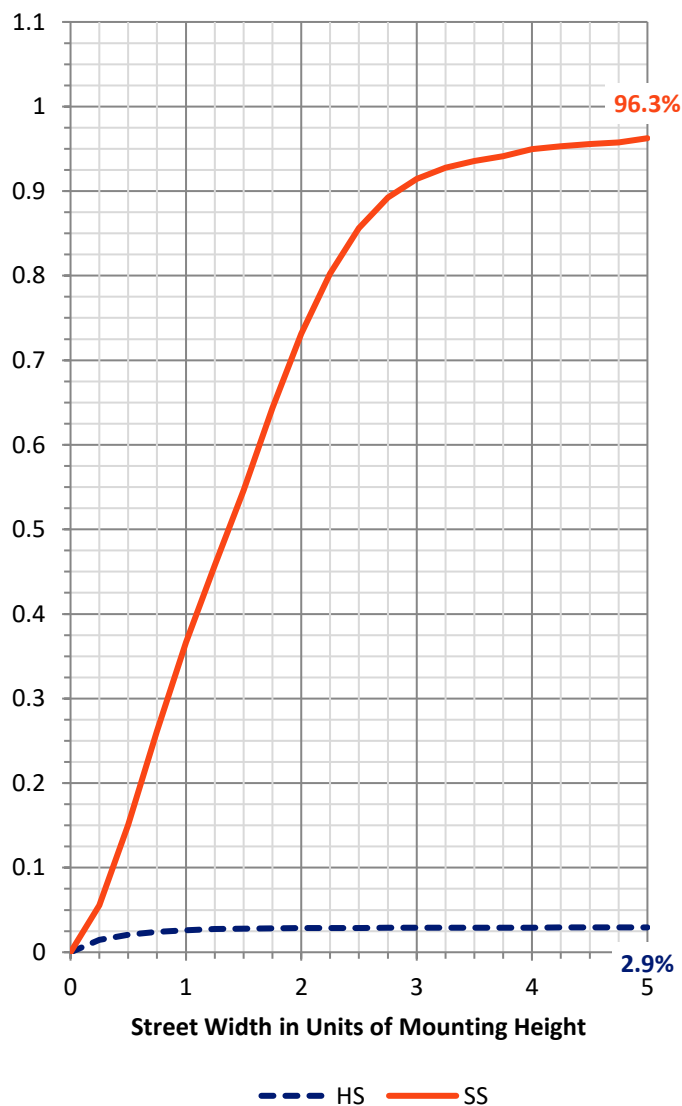
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	186.5	0.0	186.5
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	6077.3	0.0	6077.3
	% Fixture	97.0	0.0	97.0
Total	Lumens	6263.8	0.0	6263.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.6	0.8
10°-20°	167.6	2.7
20°-30°	320.8	5.1
30°-40°	533.6	8.5
40°-50°	722.0	11.5
50°-60°	1129.1	18.0
60°-70°	2321.5	37.1
70°-80°	934.1	14.9
80°-90°	86.4	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°	6263.8	100.0
0°-180°	6263.8	100.0

Coefficient of Utilization



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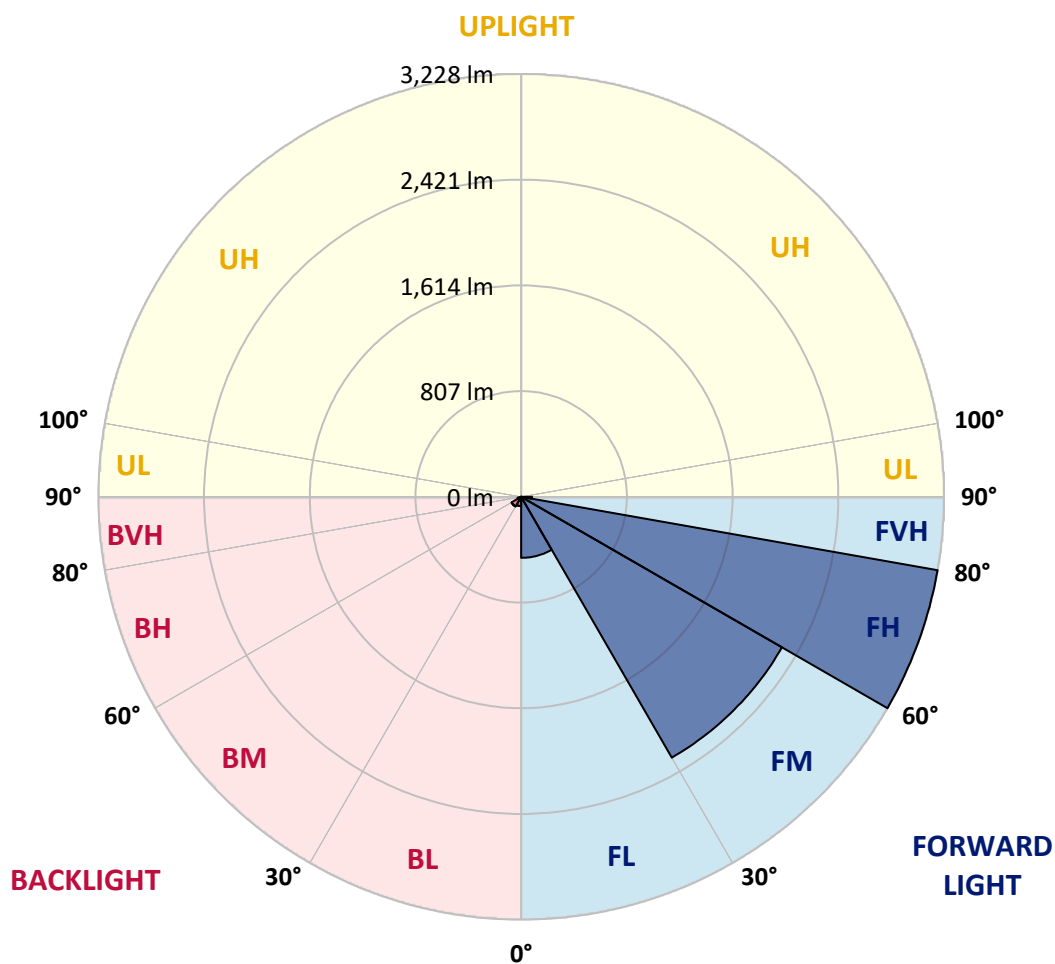
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	466.1	7.4			
FM	(30°-60°)	2299.5	36.7			
FH	(60°-80°)	3228.4	51.5			G2/5000
FVH	(80°-90°)	83.2	1.3			G1/100
BL	(0°-30°)	70.9	1.1	B0/110		
BM	(30°-60°)	85.2	1.4	B0/220		
BH	(60°-80°)	27.2	0.4	B0/110		G0/110
BVH	(80°-90°)	3.2	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°	473.1	473.1	473.1	473.1	473.1	473.1	473.1	473.1	473.1	473.1	473.1
2.5°	631.1	623.8	615.6	615.6	605.4	605.4	599.3	582.8	580.7	571.5	562.3
5°	805.5	799.4	789.1	779.8	771.6	757.3	747.0	727.5	706.0	685.4	666.9
7.5°	975.9	972.7	954.3	951.2	937.8	914.3	893.8	865.0	828.1	799.4	765.5
10°	1133.9	1126.6	1122.6	1105.1	1085.6	1060.0	1028.2	993.3	950.2	905.0	856.8
12.5°	1259.1	1254.9	1236.5	1229.2	1208.7	1183.1	1143.1	1097.9	1054.8	996.4	939.9
15°	1352.4	1345.2	1333.0	1321.7	1297.0	1274.4	1237.5	1188.2	1135.9	1072.3	1004.6
17.5°	1430.4	1417.1	1414.0	1396.6	1370.9	1344.2	1303.1	1258.0	1196.5	1132.8	1059.0
20°	1535.0	1516.6	1510.5	1484.8	1455.0	1418.0	1370.9	1314.4	1249.8	1180.0	1104.0
22.5°	1658.1	1644.9	1631.5	1608.9	1571.0	1518.7	1449.8	1388.3	1306.2	1229.2	1147.2
25°	1832.6	1821.3	1799.8	1769.0	1721.8	1659.2	1576.1	1485.8	1389.3	1290.9	1194.4
27.5°	2002.0	1991.7	1976.3	1952.6	1899.3	1830.6	1728.0	1613.1	1490.9	1371.9	1265.2
30°	2160.9	2151.7	2136.4	2112.7	2065.6	1997.8	1881.9	1758.8	1606.8	1468.4	1340.1
32.5°	2332.3	2329.2	2311.8	2277.9	2236.9	2145.6	2019.4	1887.0	1733.1	1573.1	1423.2
35°	2526.3	2502.7	2486.2	2452.4	2382.6	2285.2	2137.4	1992.7	1830.6	1666.4	1499.2
37.5°	2690.5	2667.9	2647.4	2604.2	2519.1	2394.9	2227.7	2068.6	1901.3	1734.1	1563.8
40°	2810.5	2799.2	2774.6	2718.1	2622.7	2474.9	2294.4	2120.9	1952.6	1784.4	1616.2
42.5°	2899.8	2882.3	2854.6	2796.2	2683.3	2515.0	2321.0	2142.5	1976.3	1815.1	1649.9
45°	2932.6	2918.2	2892.6	2829.0	2706.8	2526.3	2320.0	2136.4	1977.3	1824.5	1672.5
47.5°	2913.2	2898.8	2876.2	2816.7	2696.6	2513.0	2301.6	2118.9	1967.0	1827.5	1693.1
50°	2848.5	2840.3	2822.8	2772.5	2664.8	2487.3	2285.2	2109.6	1965.0	1842.9	1721.8
52.5°	2842.3	2837.2	2815.6	2765.4	2655.5	2479.1	2283.1	2114.8	1982.5	1862.4	1742.3
55°	3473.4	3400.5	3237.4	3098.9	2871.1	2600.1	2386.7	2197.9	2056.3	1939.4	1855.2
57.5°	4936.6	4827.9	4613.4	4349.6	3826.3	3312.2	2900.8	2603.2	2456.5	2403.1	2434.9
60°	5622.1	5602.5	5568.7	5443.5	5175.6	4733.5	4240.9	3708.4	3494.9	3476.5	3541.1
62.5°	5947.4	5935.0	5945.3	5929.8	5846.7	5717.4	5575.9	5346.0	5134.6	4998.1	4708.8
65°	6097.1	6105.3	6163.8	6209.9	6220.2	6254.1	6357.7	6644.0	6853.4	6501.5	5697.9
67.5°	5716.5	5764.7	5899.1	6067.4	6264.4	6455.2	6763.1	7366.4	7796.4	7382.8	6241.8
69°	4732.4	4756.0	5084.4	5401.5	5882.7	6219.3	6665.6	7456.7	7940.0	7473.2	6198.7
70°	3725.8	3747.4	4099.3	4530.3	5343.9	5777.0	6360.8	7303.8	7805.6	7353.1	5977.1
72.5°	1680.7	1649.9	1774.1	2005.0	2889.5	3577.0	4597.9	5917.5	6439.8	5890.9	4471.8
75°	1173.9	1160.5	1173.9	1174.9	1312.4	1693.1	2136.4	3207.6	3966.9	3423.1	2136.4
77.5°	909.1	899.9	890.7	880.4	896.8	1004.6	1047.7	1137.9	1477.6	1397.5	814.7
80°	719.3	711.1	733.7	726.5	726.5	738.8	730.6	696.7	633.1	586.9	525.4
82.5°	334.5	336.6	336.6	365.3	440.2	514.1	537.7	503.8	447.4	380.7	306.8
85°	31.8	36.0	60.5	93.4	185.7	209.3	210.4	174.4	174.4	137.5	110.8
87.5°	0.0	1.0	1.0	1.0	9.2	25.7	21.6	6.1	3.1	3.1	5.2
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	473.1	473.1	473.1	473.1	473.1	473.1	473.1	473.1	473.1	473.1	473.1
2.5°	545.9	542.8	530.5	518.1	506.9	494.6	483.3	472.0	459.7	450.5	439.2
5°	638.2	615.6	590.1	565.4	540.7	515.1	488.4	464.9	440.2	417.6	396.1
7.5°	731.6	687.5	652.6	608.5	568.5	528.4	491.5	453.6	418.7	385.8	355.0
10°	810.7	757.3	702.9	646.4	589.0	535.6	484.4	439.2	393.0	353.0	315.0
12.5°	875.2	807.6	740.8	670.1	605.4	537.7	474.1	419.7	365.3	320.1	281.1
15°	933.8	855.8	775.8	693.7	611.6	534.6	463.8	396.1	340.6	289.3	245.3
17.5°	980.9	891.7	801.3	709.0	620.8	530.5	450.5	379.7	315.0	261.7	218.5
20°	1022.0	928.6	831.2	727.5	626.9	529.4	439.2	359.2	292.4	236.0	193.9
22.5°	1060.0	966.6	862.0	751.1	636.2	528.4	428.9	343.7	273.0	216.5	174.4
25°	1103.1	1004.6	894.7	775.8	652.6	532.5	422.8	331.4	255.5	198.0	159.1
27.5°	1151.3	1047.7	933.8	806.5	674.2	540.7	420.7	318.1	240.1	180.6	146.7
30°	1219.0	1099.0	972.7	837.3	693.7	549.9	418.7	309.8	224.8	167.3	134.4
32.5°	1278.5	1149.2	1015.9	869.1	715.2	559.3	417.6	298.5	210.4	153.9	125.2
35°	1341.1	1195.4	1052.7	899.9	733.7	569.5	416.6	290.4	197.0	140.6	116.0
37.5°	1395.5	1234.4	1081.6	926.5	754.2	578.8	417.6	283.2	184.7	129.3	107.8
40°	1441.7	1274.4	1113.4	951.2	775.8	593.1	418.7	276.1	172.4	119.1	100.5
42.5°	1482.7	1312.4	1147.2	978.9	800.3	609.5	424.8	269.8	162.2	109.8	93.4
45°	1514.5	1347.3	1184.1	1017.9	840.4	636.2	436.1	265.8	151.8	101.6	87.3
47.5°	1547.4	1398.5	1246.7	1079.5	898.9	678.2	455.5	264.8	143.6	95.4	82.1
50°	1592.5	1449.8	1302.2	1142.1	952.2	721.3	479.2	265.8	133.4	89.2	77.0
52.5°	1625.4	1502.2	1374.0	1250.8	1079.5	852.6	570.5	284.2	128.3	84.1	70.8
55°	1819.3	1797.7	1800.8	1821.3	1689.0	1450.9	954.3	410.5	150.9	95.4	69.7
57.5°	2565.3	2641.2	2685.3	2684.2	2465.7	2045.1	1281.6	527.5	168.3	110.8	83.1
60°	3546.2	3488.8	3407.7	3207.6	2917.2	2334.4	1433.5	567.5	145.7	88.3	76.0
62.5°	4413.3	4076.7	3778.1	3453.9	3073.2	2434.9	1464.2	564.4	127.3	66.7	53.4
65°	4954.0	4348.6	3866.3	3460.0	3011.6	2350.8	1385.3	518.1	107.8	54.4	44.1
67.5°	5083.3	4201.9	3519.6	3001.3	2516.1	1829.5	1016.9	389.9	84.1	45.2	39.0
69°	4801.1	3735.0	2916.2	2328.2	1830.6	1213.9	629.0	246.2	64.7	41.0	36.0
70°	4416.4	3248.6	2375.4	1868.5	1355.4	852.6	440.2	173.4	52.3	37.9	32.8
72.5°	2841.2	1706.4	1167.7	812.6	559.3	339.7	172.4	78.0	40.0	31.8	26.6
75°	1102.1	631.1	457.6	347.9	271.9	188.8	104.7	50.3	33.9	26.6	20.5
77.5°	542.8	415.5	339.7	233.0	135.4	84.1	56.5	39.0	27.7	19.5	13.4
80°	428.9	285.3	170.4	105.7	80.0	60.5	43.1	31.8	20.5	12.3	9.2
82.5°	219.6	120.1	88.3	71.8	59.5	47.2	34.9	22.6	13.4	8.2	7.2
85°	68.7	50.3	45.2	44.1	41.0	33.9	24.7	14.4	8.2	5.2	5.2
87.5°	5.2	7.2	9.2	7.2	8.2	7.2	9.2	6.1	4.1	4.1	3.1
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°	473.1	473.1	473.1	473.1	473.1	473.1	473.1	473.1	473.1	473.1	473.1
2.5°	431.0	418.7	407.4	400.2	386.8	381.8	376.6	374.5	365.3	367.4	359.2
5°	376.6	355.0	338.7	322.2	306.8	295.5	286.3	275.0	265.8	261.7	253.5
7.5°	327.4	299.6	278.0	260.6	242.2	227.8	215.4	207.3	199.1	190.9	186.7
10°	284.2	254.5	229.8	212.4	194.9	182.7	173.4	167.3	162.2	159.1	158.0
12.5°	244.2	215.4	193.0	177.5	164.1	158.0	153.9	150.9	149.8	148.8	148.8
15°	213.5	184.7	167.3	156.0	149.8	146.7	145.7	143.6	141.6	140.6	140.6
17.5°	184.7	163.1	150.9	144.7	141.6	139.6	137.5	135.4	133.4	132.3	132.3
20°	165.2	147.8	141.6	137.5	134.4	132.3	129.3	127.3	126.2	125.2	124.1
22.5°	149.8	138.5	134.4	131.3	127.3	124.1	122.1	120.1	118.0	117.0	116.0
25°	138.5	131.3	128.3	124.1	120.1	117.0	113.9	110.8	108.8	107.8	105.7
27.5°	130.4	125.2	121.0	116.0	111.8	108.8	105.7	102.6	100.5	98.5	97.5
30°	123.1	118.0	112.8	108.8	103.6	100.5	96.5	93.4	92.3	90.3	88.3
32.5°	116.0	110.8	105.7	100.5	95.4	91.3	89.2	85.2	83.1	82.1	80.0
35°	107.8	102.6	96.5	92.3	87.3	83.1	80.0	77.0	74.9	72.8	71.8
37.5°	100.5	94.4	88.3	83.1	79.0	74.9	71.8	68.7	66.7	64.7	63.6
40°	92.3	86.2	80.0	74.9	70.8	67.8	64.7	61.6	59.5	58.4	58.4
42.5°	85.2	78.0	71.8	67.8	64.7	60.5	57.5	54.4	53.4	52.3	53.4
45°	78.0	70.8	65.7	61.6	58.4	54.4	51.3	49.2	48.2	49.2	50.3
47.5°	71.8	64.7	59.5	56.5	53.4	50.3	47.2	45.2	45.2	47.2	49.2
50°	65.7	58.4	54.4	52.3	49.2	46.2	42.1	41.0	42.1	44.1	46.2
52.5°	59.5	51.3	48.2	47.2	44.1	41.0	37.9	36.9	37.9	40.0	39.0
55°	53.4	45.2	44.1	43.1	40.0	36.0	32.8	32.8	32.8	31.8	29.7
57.5°	51.3	40.0	39.0	37.9	34.9	30.8	28.7	26.6	25.7	22.6	21.6
60°	53.4	36.0	36.0	33.9	30.8	26.6	23.6	20.5	18.4	16.4	16.4
62.5°	43.1	32.8	31.8	29.7	25.7	21.6	18.4	15.4	14.4	13.4	13.4
65°	34.9	29.7	27.7	24.7	21.6	17.4	14.4	12.3	11.3	11.3	12.3
67.5°	31.8	26.6	23.6	20.5	17.4	13.4	11.3	10.3	10.3	11.3	11.3
69°	29.7	24.7	21.6	18.4	15.4	12.3	10.3	10.3	10.3	10.3	11.3
70°	27.7	23.6	20.5	17.4	13.4	10.3	9.2	9.2	10.3	10.3	11.3
72.5°	21.6	18.4	17.4	14.4	10.3	9.2	8.2	9.2	9.2	10.3	10.3
75°	16.4	13.4	13.4	11.3	8.2	7.2	7.2	8.2	8.2	9.2	9.2
77.5°	11.3	9.2	9.2	8.2	7.2	6.1	6.1	7.2	8.2	8.2	9.2
80°	8.2	7.2	6.1	7.2	6.1	5.2	6.1	7.2	7.2	8.2	8.2
82.5°	6.1	6.1	6.1	6.1	5.2	5.2	6.1	6.1	7.2	8.2	8.2
85°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	6.1	6.1	7.2	7.2
87.5°	3.1	3.1	3.1	4.1	4.1	5.2	5.2	5.2	5.2	6.1	6.1
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):

	165°	170°	175°	180°
0°	473.1	473.1	473.1	473.1
2.5°	357.1	356.1	351.9	353.0
5°	250.4	244.2	248.3	247.3
7.5°	183.6	182.7	181.7	183.6
10°	157.0	157.0	156.0	157.0
12.5°	147.8	147.8	147.8	147.8
15°	140.6	140.6	139.6	139.6
17.5°	132.3	132.3	132.3	131.3
20°	124.1	123.1	123.1	123.1
22.5°	114.9	113.9	113.9	113.9
25°	105.7	104.7	104.7	104.7
27.5°	96.5	95.4	94.4	94.4
30°	87.3	86.2	85.2	85.2
32.5°	78.0	77.0	76.0	76.0
35°	69.7	69.7	68.7	67.8
37.5°	62.6	62.6	62.6	62.6
40°	57.5	58.4	58.4	58.4
42.5°	54.4	55.4	56.5	57.5
45°	52.3	54.4	55.4	55.4
47.5°	51.3	52.3	53.4	53.4
50°	47.2	46.2	46.2	46.2
52.5°	37.9	36.0	34.9	33.9
55°	27.7	26.6	24.7	24.7
57.5°	19.5	19.5	18.4	18.4
60°	15.4	15.4	14.4	15.4
62.5°	13.4	13.4	13.4	13.4
65°	12.3	12.3	12.3	12.3
67.5°	12.3	12.3	12.3	12.3
69°	11.3	11.3	11.3	11.3
70°	11.3	11.3	11.3	11.3
72.5°	10.3	10.3	10.3	10.3
75°	9.2	10.3	10.3	10.3
77.5°	9.2	9.2	9.2	9.2
80°	8.2	8.2	9.2	9.2
82.5°	8.2	8.2	8.2	8.2
85°	7.2	7.2	8.2	8.2
87.5°	6.1	6.1	7.2	7.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)