

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: P151588

Luminaire Tested: **VXS-E03-LED-E1-SL4-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P151588
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-8030
Description: VISION SITE SMALL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (63) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5152.1 lumens
Efficiency: N/A
Efficacy: 68.5 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

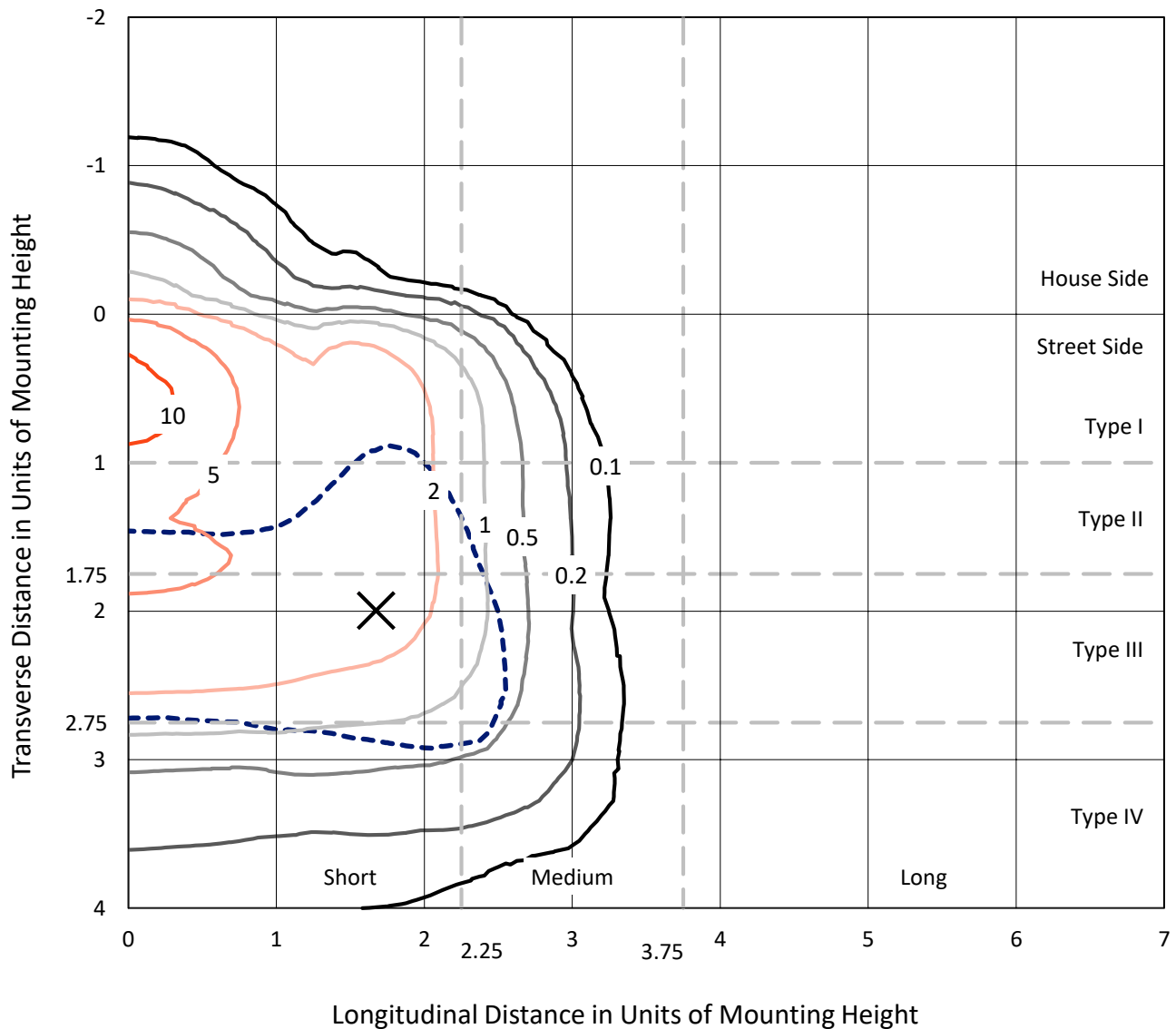


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

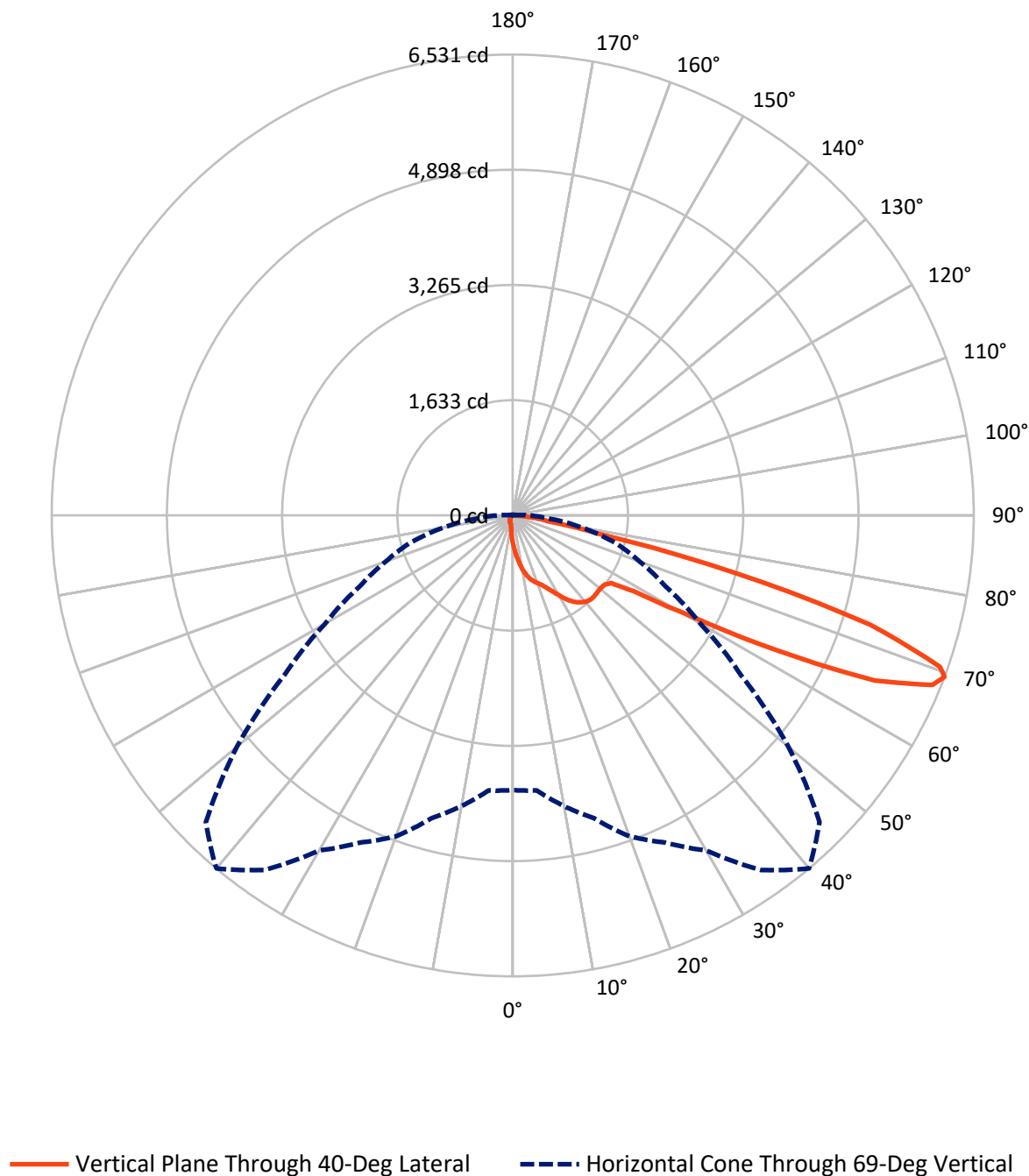


Based on 10 foot mounting height. Maximum calculated value = 11.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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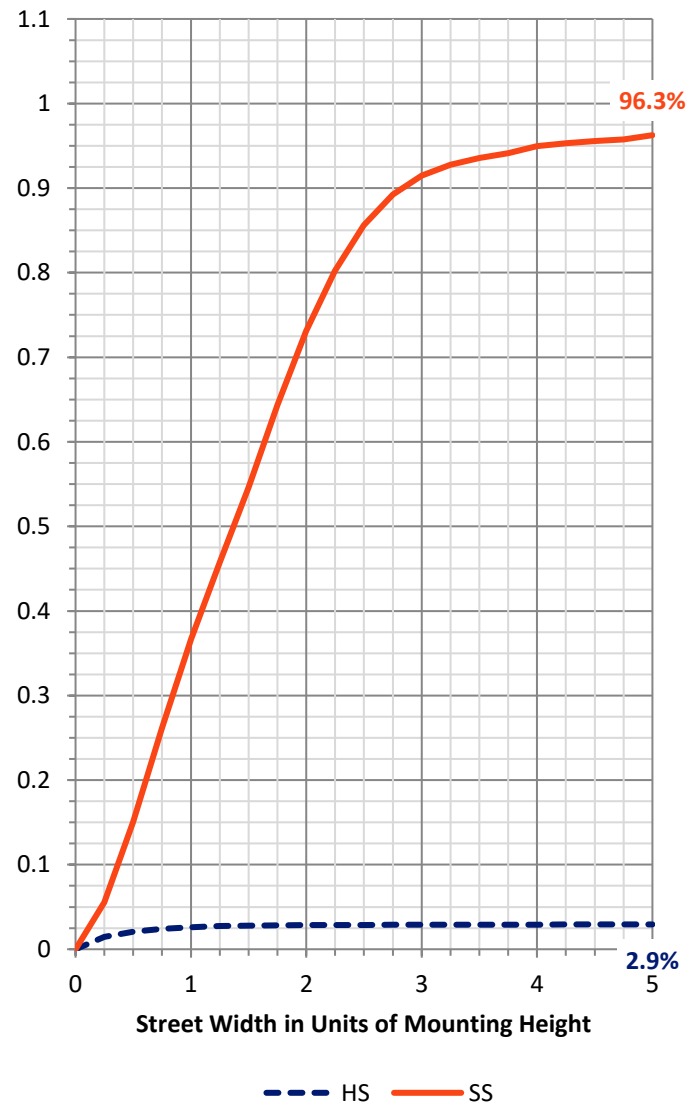
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	153.4	0.0	153.4
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	4998.6	0.0	4998.6
	% Fixture	97.0	0.0	97.0
Total	Lumens	5152.1	0.0	5152.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.0	0.8
10°-20°	137.9	2.7
20°-30°	263.9	5.1
30°-40°	438.9	8.5
40°-50°	593.9	11.5
50°-60°	928.7	18.0
60°-70°	1909.5	37.1
70°-80°	768.3	14.9
80°-90°	71.1	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°	5152.1	100.0
0°-180°	5152.1	100.0

Coefficient of Utilization



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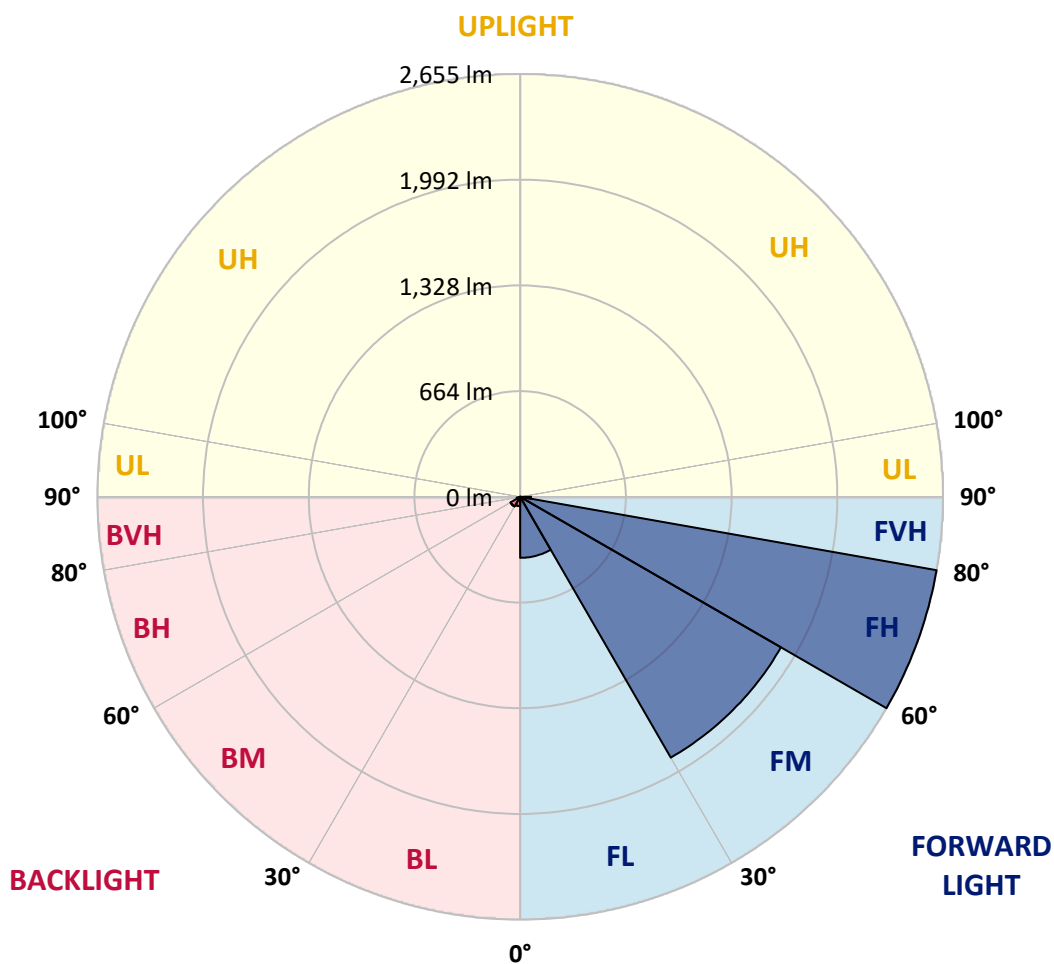
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	383.4	7.4			
FM	(30°-60°)	1891.4	36.7			
FH	(60°-80°)	2655.4	51.5			G2/5000
FVH	(80°-90°)	68.4	1.3			G1/100
BL	(0°-30°)	58.4	1.1	B0/110		
BM	(30°-60°)	70.1	1.4	B0/220		
BH	(60°-80°)	22.4	0.4	B0/110		G0/110
BVH	(80°-90°)	2.6	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°	389.1	389.1	389.1	389.1	389.1	389.1	389.1	389.1	389.1	389.1	389.1
2.5°	519.1	513.2	506.4	506.4	497.9	497.9	492.8	479.4	477.7	470.1	462.5
5°	662.5	657.5	649.0	641.5	634.7	622.9	614.4	598.3	580.6	563.8	548.6
7.5°	802.6	800.1	784.9	782.4	771.4	752.0	735.1	711.5	681.1	657.5	629.6
10°	932.6	926.7	923.3	909.0	893.0	871.8	845.7	817.0	781.6	744.4	704.8
12.5°	1035.5	1032.2	1017.0	1011.1	994.2	973.2	940.2	903.1	867.7	819.5	773.1
15°	1112.3	1106.4	1096.4	1087.0	1066.8	1048.2	1017.8	977.3	934.3	882.0	826.2
17.5°	1176.5	1165.6	1163.0	1148.7	1127.6	1105.6	1071.9	1034.7	984.1	931.8	871.0
20°	1262.6	1247.5	1242.4	1221.2	1196.8	1166.4	1127.6	1081.1	1028.0	970.6	908.1
22.5°	1363.9	1353.0	1342.0	1323.4	1292.1	1249.1	1192.5	1142.0	1074.4	1011.1	943.6
25°	1507.4	1498.1	1480.3	1455.0	1416.2	1364.8	1296.4	1222.1	1142.8	1061.8	982.4
27.5°	1646.6	1638.1	1625.5	1606.1	1562.2	1505.7	1421.2	1326.7	1226.3	1128.4	1040.6
30°	1777.4	1769.8	1757.2	1737.8	1699.0	1643.2	1547.9	1446.6	1321.7	1207.8	1102.3
32.5°	1918.3	1915.9	1901.6	1873.7	1839.9	1764.8	1660.9	1552.1	1425.5	1293.9	1170.6
35°	2077.9	2058.4	2045.0	2017.1	1959.8	1879.6	1758.0	1639.1	1505.7	1370.7	1233.1
37.5°	2213.0	2194.4	2177.5	2142.1	2072.0	1969.8	1832.3	1701.5	1563.9	1426.3	1286.2
40°	2311.7	2302.4	2282.2	2235.8	2157.2	2035.8	1887.2	1744.6	1606.1	1467.7	1329.3
42.5°	2385.1	2370.8	2348.0	2299.9	2207.0	2068.6	1909.1	1762.3	1625.5	1493.1	1357.1
45°	2412.1	2400.3	2379.2	2326.8	2226.4	2077.9	1908.3	1757.2	1626.3	1500.6	1375.8
47.5°	2396.1	2384.2	2365.7	2316.8	2218.0	2066.9	1893.1	1742.8	1617.9	1503.1	1392.5
50°	2342.9	2336.2	2321.9	2280.4	2191.8	2045.8	1879.6	1735.2	1616.3	1515.9	1416.2
52.5°	2337.8	2333.7	2316.0	2274.5	2184.2	2039.1	1877.9	1739.5	1630.6	1531.8	1433.1
55°	2856.9	2797.0	2662.8	2548.8	2361.5	2138.7	1963.1	1807.9	1691.4	1595.1	1525.9
57.5°	4060.4	3971.0	3794.6	3577.7	3147.3	2724.4	2386.0	2141.2	2020.5	1976.6	2002.8
60°	4624.2	4608.2	4580.3	4477.4	4257.1	3893.4	3488.2	3050.2	2874.6	2859.5	2912.6
62.5°	4891.8	4881.7	4890.1	4877.4	4809.0	4702.7	4586.2	4397.2	4223.3	4111.1	3873.1
65°	5015.0	5021.8	5069.8	5107.9	5116.3	5144.1	5229.3	5464.9	5637.0	5347.6	4686.6
67.5°	4701.9	4741.6	4852.1	4990.6	5152.5	5309.5	5562.7	6059.0	6412.6	6072.5	5134.0
69°	3892.4	3911.9	4182.0	4442.8	4838.5	5115.4	5482.6	6133.3	6530.8	6146.7	5098.5
70°	3064.6	3082.3	3371.7	3726.2	4395.5	4751.7	5231.9	6007.6	6420.2	6048.1	4916.3
72.5°	1382.5	1357.1	1459.3	1649.1	2376.7	2942.2	3782.0	4867.3	5296.9	4845.4	3678.1
75°	965.5	954.5	965.5	966.3	1079.5	1392.5	1757.2	2638.3	3262.9	2815.5	1757.2
77.5°	747.8	740.2	732.5	724.1	737.6	826.2	861.8	936.0	1215.3	1149.5	670.2
80°	591.6	584.9	603.4	597.5	597.5	607.7	600.9	573.1	520.7	482.8	432.1
82.5°	275.1	276.8	276.8	300.4	362.1	422.8	442.3	414.4	368.0	313.2	252.3
85°	26.1	29.5	49.8	76.8	152.7	172.1	173.1	143.5	143.5	113.1	91.2
87.5°	0.0	0.8	0.8	0.8	7.6	21.1	17.7	5.1	2.5	2.5	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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	389.1	389.1	389.1	389.1	389.1	389.1	389.1	389.1	389.1	389.1	389.1
2.5°	449.0	446.4	436.4	426.2	416.9	406.8	397.5	388.2	378.1	370.5	361.2
5°	525.0	506.4	485.3	465.1	444.8	423.7	401.8	382.3	362.1	343.5	325.8
7.5°	601.8	565.5	536.8	500.5	467.6	434.6	404.2	373.1	344.4	317.3	292.0
10°	666.7	622.9	578.1	531.7	484.5	440.5	398.3	361.2	323.2	290.4	259.1
12.5°	719.9	664.2	609.3	551.1	497.9	442.3	389.9	345.2	300.4	263.3	231.3
15°	768.1	703.9	638.0	570.6	503.0	439.7	381.5	325.8	280.2	238.0	201.8
17.5°	806.8	733.5	659.2	583.2	510.6	436.4	370.5	312.2	259.1	215.2	179.8
20°	840.6	763.8	683.6	598.3	515.6	435.5	361.2	295.4	240.5	194.1	159.5
22.5°	871.8	795.0	708.9	617.8	523.3	434.6	352.7	282.7	224.5	178.0	143.5
25°	907.3	826.2	736.0	638.0	536.8	438.0	347.8	272.6	210.2	162.9	130.8
27.5°	946.9	861.8	768.1	663.4	554.5	444.8	346.0	261.7	197.5	148.5	120.7
30°	1002.7	903.9	800.1	688.7	570.6	452.3	344.4	254.9	184.9	137.6	110.6
32.5°	1051.6	945.3	835.5	714.8	588.3	460.0	343.5	245.6	173.1	126.6	103.0
35°	1103.1	983.2	865.9	740.2	603.4	468.4	342.7	238.9	162.1	115.6	95.3
37.5°	1147.9	1015.3	889.5	762.1	620.3	476.1	343.5	233.0	151.9	106.3	88.6
40°	1185.8	1048.2	915.8	782.4	638.0	487.9	344.4	227.0	141.8	97.9	82.7
42.5°	1219.6	1079.5	943.6	805.2	658.3	501.3	349.4	222.0	133.4	90.3	76.8
45°	1245.7	1108.2	974.0	837.2	691.2	523.3	358.7	218.5	124.9	83.5	71.7
47.5°	1272.7	1150.4	1025.5	887.9	739.4	557.9	374.7	217.7	118.1	78.4	67.6
50°	1309.8	1192.5	1071.0	939.4	783.2	593.4	394.1	218.5	109.7	73.5	63.3
52.5°	1336.9	1235.6	1130.2	1028.8	887.9	701.3	469.2	233.8	105.5	69.2	58.2
55°	1496.4	1478.7	1481.2	1498.1	1389.2	1193.4	784.9	337.6	124.0	78.4	57.4
57.5°	2109.9	2172.4	2208.7	2207.9	2028.1	1682.1	1054.1	433.8	138.4	91.2	68.4
60°	2916.8	2869.5	2802.9	2638.3	2399.5	1920.1	1179.1	466.7	119.9	72.5	62.5
62.5°	3630.1	3353.2	3107.6	2840.8	2527.8	2002.8	1204.4	464.1	104.7	54.8	43.9
65°	4074.8	3576.8	3180.2	2845.9	2477.1	1933.6	1139.4	426.2	88.6	44.8	36.3
67.5°	4181.1	3456.2	2894.9	2468.7	2069.4	1504.9	836.4	320.7	69.2	37.1	32.0
69°	3949.0	3072.1	2398.7	1915.0	1505.7	998.4	517.4	202.6	53.2	33.8	29.5
70°	3632.5	2672.1	1953.9	1536.9	1114.9	701.3	362.1	142.6	43.0	31.2	27.0
72.5°	2337.0	1403.5	960.4	668.4	460.0	279.4	141.8	64.1	33.0	26.1	22.0
75°	906.4	519.1	376.4	286.1	223.6	155.3	86.1	41.3	27.9	22.0	16.9
77.5°	446.4	341.9	279.4	191.6	111.4	69.2	46.4	32.0	22.8	16.1	11.0
80°	352.7	234.6	140.1	86.9	65.8	49.8	35.4	26.1	16.9	10.2	7.6
82.5°	180.6	98.8	72.5	59.1	48.9	38.9	28.7	18.5	11.0	6.7	5.9
85°	56.6	41.3	37.1	36.3	33.8	27.9	20.2	11.8	6.7	4.2	4.2
87.5°	4.2	5.9	7.6	5.9	6.7	5.9	7.6	5.1	3.4	3.4	2.5
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°	389.1	389.1	389.1	389.1	389.1	389.1	389.1	389.1	389.1	389.1	389.1
2.5°	354.5	344.4	335.0	329.1	318.1	314.0	309.7	308.1	300.4	302.2	295.4
5°	309.7	292.0	278.5	265.0	252.3	243.1	235.4	226.2	218.5	215.2	208.5
7.5°	269.2	246.4	228.7	214.4	199.2	187.4	177.2	170.5	163.7	157.0	153.6
10°	233.8	209.3	189.0	174.7	160.3	150.3	142.6	137.6	133.4	130.8	129.9
12.5°	200.8	177.2	158.7	146.0	135.0	129.9	126.6	124.0	123.2	122.4	122.4
15°	175.5	151.9	137.6	128.3	123.2	120.7	119.9	118.1	116.5	115.6	115.6
17.5°	151.9	134.2	124.0	119.0	116.5	114.8	113.1	111.4	109.7	108.9	108.9
20°	135.9	121.6	116.5	113.1	110.6	108.9	106.3	104.7	103.8	103.0	102.1
22.5°	123.2	114.0	110.6	108.0	104.7	102.1	100.4	98.8	97.1	96.2	95.3
25°	114.0	108.0	105.5	102.1	98.8	96.2	93.7	91.2	89.4	88.6	86.9
27.5°	107.2	103.0	99.6	95.3	92.0	89.4	86.9	84.4	82.7	81.0	80.2
30°	101.2	97.1	92.8	89.4	85.3	82.7	79.4	76.8	76.0	74.3	72.5
32.5°	95.3	91.2	86.9	82.7	78.4	75.1	73.5	70.1	68.4	67.6	65.8
35°	88.6	84.4	79.4	76.0	71.7	68.4	65.8	63.3	61.7	59.9	59.1
37.5°	82.7	77.6	72.5	68.4	65.0	61.7	59.1	56.6	54.8	53.2	52.3
40°	76.0	70.9	65.8	61.7	58.2	55.8	53.2	50.7	48.9	48.1	48.1
42.5°	70.1	64.1	59.1	55.8	53.2	49.8	47.3	44.8	43.9	43.0	43.9
45°	64.1	58.2	54.0	50.7	48.1	44.8	42.2	40.5	39.7	40.5	41.3
47.5°	59.1	53.2	48.9	46.4	43.9	41.3	38.9	37.1	37.1	38.9	40.5
50°	54.0	48.1	44.8	43.0	40.5	38.0	34.6	33.8	34.6	36.3	38.0
52.5°	48.9	42.2	39.7	38.9	36.3	33.8	31.2	30.4	31.2	33.0	32.0
55°	43.9	37.1	36.3	35.4	33.0	29.5	27.0	27.0	27.0	26.1	24.5
57.5°	42.2	33.0	32.0	31.2	28.7	25.3	23.6	22.0	21.1	18.5	17.7
60°	43.9	29.5	29.5	27.9	25.3	22.0	19.4	16.9	15.2	13.5	13.5
62.5°	35.4	27.0	26.1	24.5	21.1	17.7	15.2	12.6	11.8	11.0	11.0
65°	28.7	24.5	22.8	20.2	17.7	14.3	11.8	10.2	9.3	9.3	10.2
67.5°	26.1	22.0	19.4	16.9	14.3	11.0	9.3	8.4	8.4	9.3	9.3
69°	24.5	20.2	17.7	15.2	12.6	10.2	8.4	8.4	8.4	8.4	9.3
70°	22.8	19.4	16.9	14.3	11.0	8.4	7.6	7.6	8.4	8.4	9.3
72.5°	17.7	15.2	14.3	11.8	8.4	7.6	6.7	7.6	7.6	8.4	8.4
75°	13.5	11.0	11.0	9.3	6.7	5.9	5.9	6.7	6.7	7.6	7.6
77.5°	9.3	7.6	7.6	6.7	5.9	5.1	5.1	5.9	6.7	6.7	7.6
80°	6.7	5.9	5.1	5.9	5.1	4.2	5.1	5.9	5.9	6.7	6.7
82.5°	5.1	5.1	5.1	5.1	4.2	4.2	5.1	5.1	5.9	6.7	6.7
85°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	5.1	5.1	5.9	5.9
87.5°	2.5	2.5	2.5	3.4	3.4	4.2	4.2	4.2	4.2	5.1	5.1
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°	389.1	389.1	389.1	389.1
2.5°	293.7	292.8	289.5	290.4
5°	205.9	200.8	204.2	203.4
7.5°	151.1	150.3	149.4	151.1
10°	129.1	129.1	128.3	129.1
12.5°	121.6	121.6	121.6	121.6
15°	115.6	115.6	114.8	114.8
17.5°	108.9	108.9	108.9	108.0
20°	102.1	101.2	101.2	101.2
22.5°	94.5	93.7	93.7	93.7
25°	86.9	86.1	86.1	86.1
27.5°	79.4	78.4	77.6	77.6
30°	71.7	70.9	70.1	70.1
32.5°	64.1	63.3	62.5	62.5
35°	57.4	57.4	56.6	55.8
37.5°	51.5	51.5	51.5	51.5
40°	47.3	48.1	48.1	48.1
42.5°	44.8	45.6	46.4	47.3
45°	43.0	44.8	45.6	45.6
47.5°	42.2	43.0	43.9	43.9
50°	38.9	38.0	38.0	38.0
52.5°	31.2	29.5	28.7	27.9
55°	22.8	22.0	20.2	20.2
57.5°	16.1	16.1	15.2	15.2
60°	12.6	12.6	11.8	12.6
62.5°	11.0	11.0	11.0	11.0
65°	10.2	10.2	10.2	10.2
67.5°	10.2	10.2	10.2	10.2
69°	9.3	9.3	9.3	9.3
70°	9.3	9.3	9.3	9.3
72.5°	8.4	8.4	8.4	8.4
75°	7.6	8.4	8.4	8.4
77.5°	7.6	7.6	7.6	7.6
80°	6.7	6.7	7.6	7.6
82.5°	6.7	6.7	6.7	6.7
85°	5.9	5.9	6.7	6.7
87.5°	5.1	5.1	5.9	5.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)