

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: P151569

Luminaire Tested: **VXS-E01-LED-E1-SL4-HSS-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P151569
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-E01-LED-E1-SL4-HSS-7030
Description: VISION SITE SMALL LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1858.5 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G1

Input Watts (W): 24.7
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

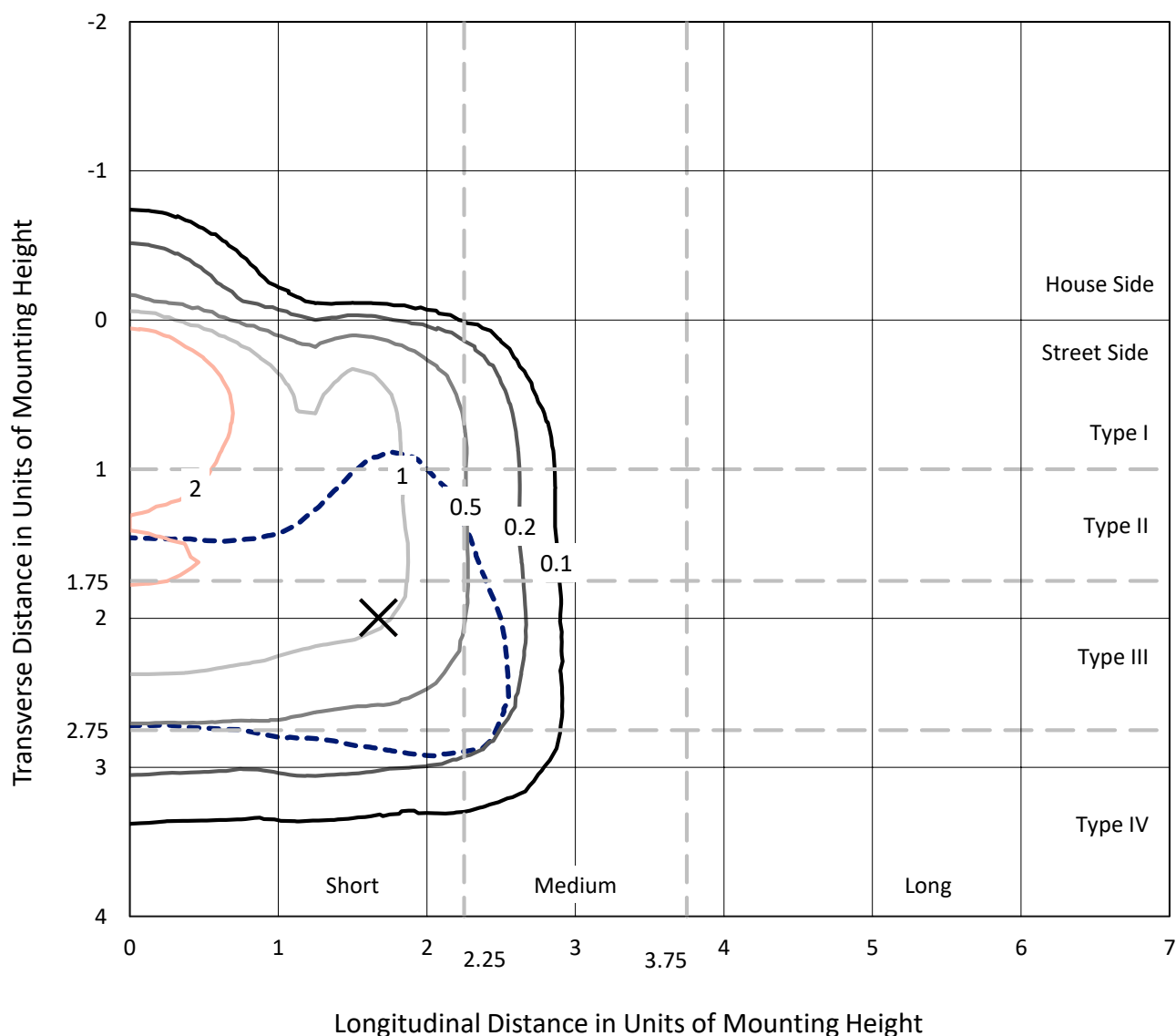


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

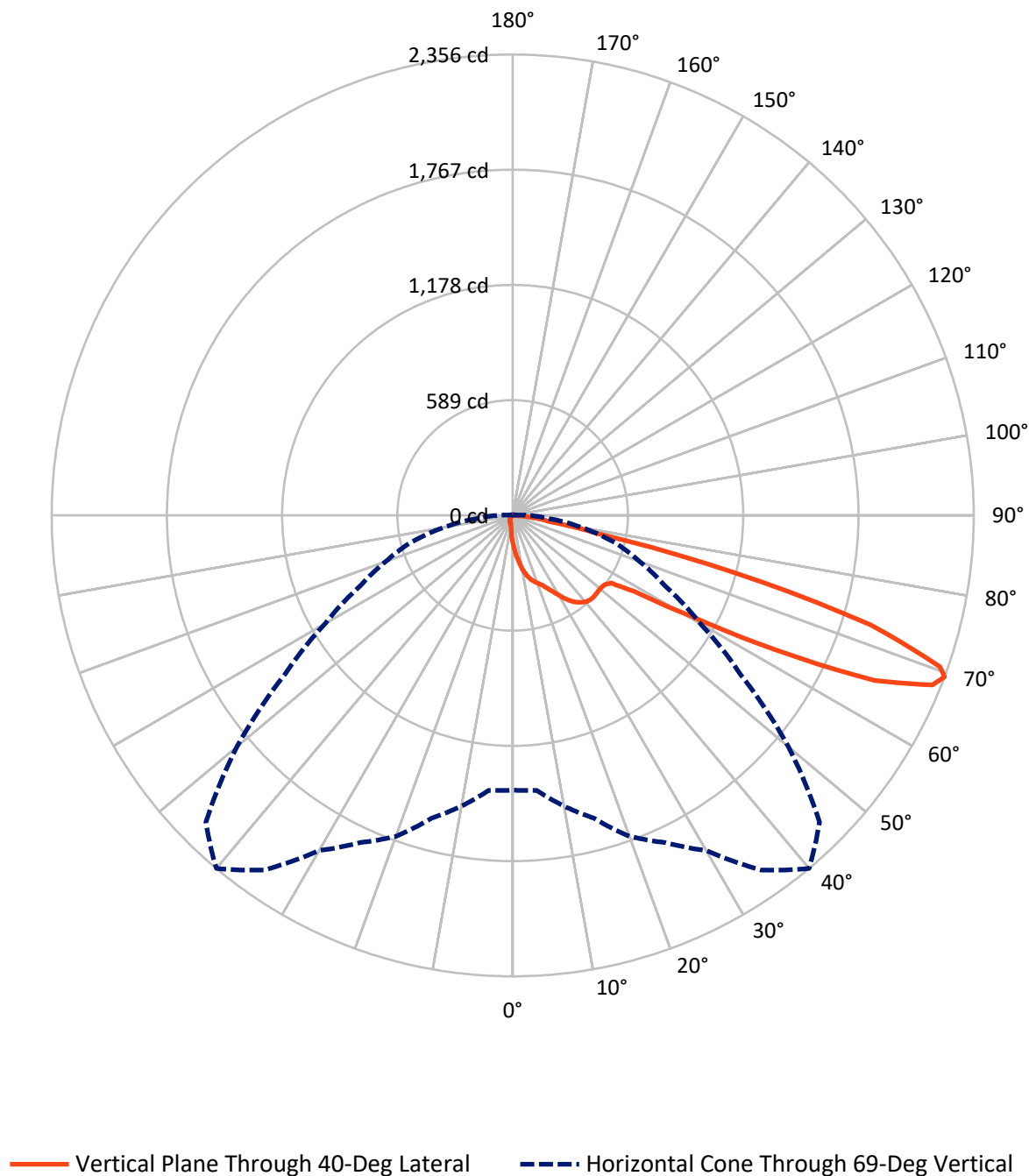


Based on 10 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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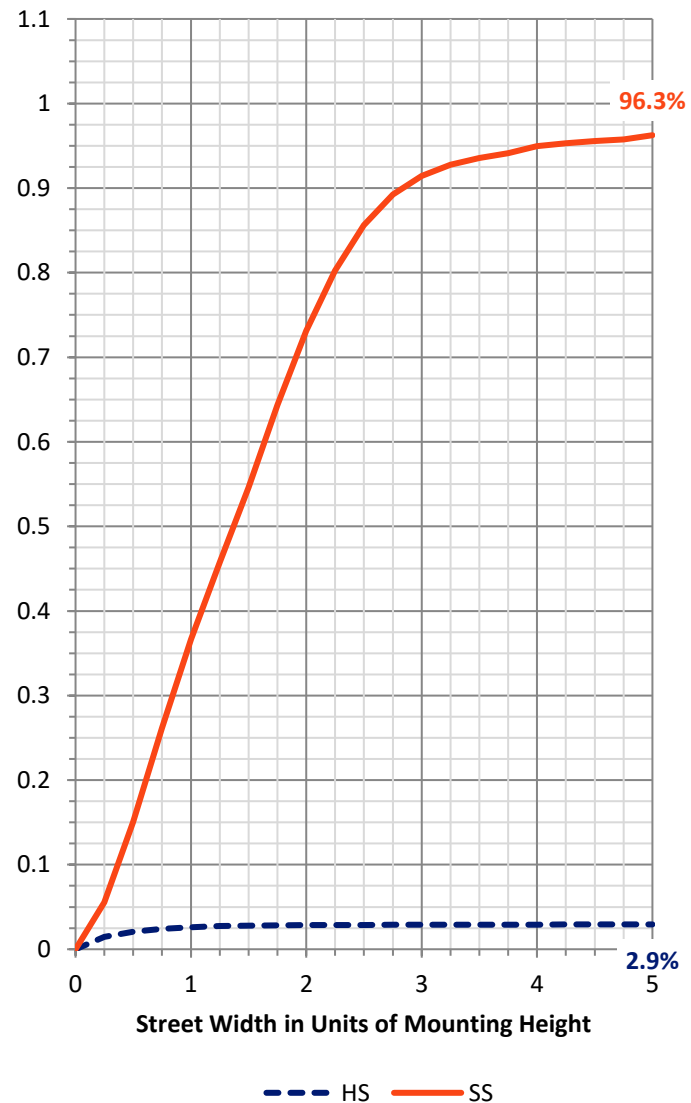
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	55.4	0.0	55.4
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	1803.1	0.0	1803.1
	% Fixture	97.0	0.0	97.0
Total	Lumens	1858.5	0.0	1858.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.4	0.8
10°-20°	49.7	2.7
20°-30°	95.2	5.1
30°-40°	158.3	8.5
40°-50°	214.2	11.5
50°-60°	335.0	18.0
60°-70°	688.8	37.1
70°-80°	277.2	14.9
80°-90°	25.7	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°	1858.5	100.0
0°-180°	1858.5	100.0

Coefficient of Utilization



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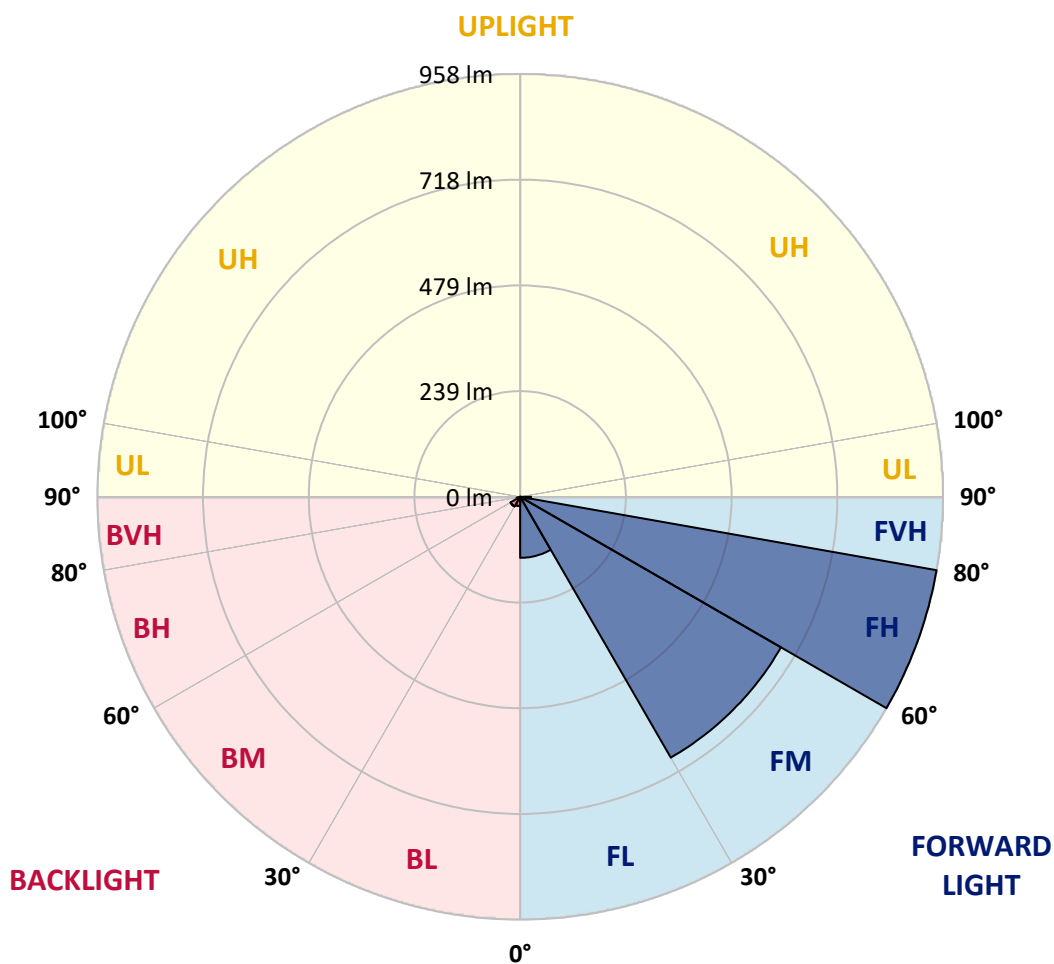
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	138.3	7.4			
FM	(30°-60°)	682.3	36.7			
FH	(60°-80°)	957.9	51.5			G1/1800
FVH	(80°-90°)	24.7	1.3			G1/100
BL	(0°-30°)	21.0	1.1	B0/110		
BM	(30°-60°)	25.3	1.4	B0/220		
BH	(60°-80°)	8.1	0.4	B0/110		G0/110
BVH	(80°-90°)	1.0	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-G1

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	140.3	140.3	140.3	140.3	140.3	140.3	140.3	140.3	140.3	140.3	140.3
2.5°	187.3	185.1	182.7	182.7	179.6	179.6	177.8	173.0	172.3	169.5	166.8
5°	239.0	237.2	234.1	231.4	228.9	224.7	221.7	215.9	209.4	203.4	197.9
7.5°	289.5	288.6	283.1	282.2	278.2	271.3	265.2	256.7	245.7	237.2	227.2
10°	336.4	334.3	333.1	327.9	322.1	314.5	305.1	294.7	282.0	268.5	254.2
12.5°	373.6	372.3	366.8	364.8	358.7	351.0	339.2	325.8	313.0	295.6	278.9
15°	401.2	399.2	395.4	392.1	384.9	378.1	367.2	352.5	337.0	318.1	298.0
17.5°	424.4	420.4	419.5	414.4	406.7	398.9	386.6	373.3	355.0	336.1	314.2
20°	455.4	449.9	448.2	440.5	431.7	420.7	406.7	390.1	370.8	350.2	327.6
22.5°	492.0	488.1	484.0	477.4	466.1	450.6	430.2	411.9	387.6	364.8	340.4
25°	543.7	540.4	534.0	524.9	510.9	492.3	467.7	440.8	412.2	383.0	354.4
27.5°	594.0	591.0	586.3	579.4	563.5	543.1	512.6	478.5	442.4	407.0	375.3
30°	641.1	638.4	633.9	626.8	612.8	592.7	558.3	521.9	476.8	435.6	397.6
32.5°	692.0	691.1	685.9	675.9	663.7	636.6	599.2	559.9	514.2	466.7	422.3
35°	749.5	742.6	737.7	727.7	706.9	678.0	634.2	591.2	543.1	494.4	444.8
37.5°	798.2	791.6	785.5	772.7	747.5	710.6	660.9	613.8	564.1	514.5	463.9
40°	833.9	830.6	823.2	806.5	778.1	734.3	680.7	629.3	579.4	529.4	479.5
42.5°	860.4	855.2	846.9	829.6	796.2	746.2	688.7	635.6	586.3	538.5	489.5
45°	870.2	865.9	858.2	839.4	803.1	749.5	688.4	633.9	586.6	541.3	496.3
47.5°	864.4	860.1	853.4	835.8	800.1	745.6	682.9	628.7	583.6	542.2	502.4
50°	845.2	842.7	837.5	822.6	790.7	738.0	678.0	625.9	583.0	546.8	510.9
52.5°	843.3	841.8	835.4	820.5	787.9	735.5	677.4	627.5	588.2	552.5	517.0
55°	1030.6	1008.9	960.5	919.5	851.8	771.5	708.2	652.1	610.2	575.4	550.5
57.5°	1464.7	1432.4	1368.8	1290.6	1135.3	982.8	860.7	772.4	728.8	713.1	722.5
60°	1668.1	1662.3	1652.2	1615.1	1535.6	1404.5	1258.3	1100.3	1037.0	1031.5	1050.7
62.5°	1764.6	1760.9	1763.9	1759.4	1734.7	1696.4	1654.4	1586.2	1523.4	1483.0	1397.1
65°	1809.0	1811.5	1828.8	1842.5	1845.6	1855.6	1886.3	1971.3	2033.5	1929.0	1690.6
67.5°	1696.1	1710.4	1750.3	1800.2	1858.7	1915.3	2006.6	2185.6	2313.2	2190.6	1852.0
69°	1404.1	1411.1	1508.6	1602.6	1745.4	1845.3	1977.7	2212.4	2355.9	2217.3	1839.2
70°	1105.5	1111.8	1216.3	1344.1	1585.6	1714.1	1887.3	2167.0	2316.0	2181.7	1773.5
72.5°	498.7	489.5	526.4	594.9	857.3	1061.3	1364.2	1755.8	1910.8	1747.9	1326.8
75°	348.3	344.4	348.3	348.6	389.4	502.4	633.9	951.7	1177.0	1015.6	633.9
77.5°	269.7	267.0	264.2	261.2	266.1	298.0	310.9	337.6	438.4	414.6	241.8
80°	213.4	211.0	217.7	215.5	215.5	219.2	216.8	206.7	187.9	174.2	155.9
82.5°	99.3	99.9	99.9	108.4	130.6	152.5	159.5	149.5	132.7	113.0	91.0
85°	9.4	10.7	17.9	27.7	55.1	62.1	62.4	51.7	51.7	40.8	32.8
87.5°	0.0	0.3	0.3	0.3	2.7	7.6	6.4	1.9	0.9	0.9	1.6
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	140.3	140.3	140.3	140.3	140.3	140.3	140.3	140.3	140.3	140.3	140.3
2.5°	162.0	161.0	157.4	153.8	150.4	146.7	143.4	140.0	136.4	133.7	130.3
5°	189.3	182.7	175.0	167.8	160.4	152.8	144.9	137.9	130.6	123.9	117.5
7.5°	217.1	203.9	193.7	180.5	168.7	156.8	145.8	134.6	124.2	114.5	105.4
10°	240.5	224.7	208.5	191.8	174.7	159.0	143.7	130.3	116.6	104.8	93.5
12.5°	259.7	239.6	219.8	198.8	179.6	159.5	140.6	124.6	108.4	95.0	83.4
15°	277.1	253.9	230.2	205.8	181.5	158.7	137.6	117.5	101.0	85.9	72.7
17.5°	291.1	264.6	237.8	210.4	184.1	157.4	133.7	112.6	93.5	77.6	64.9
20°	303.2	275.5	246.6	215.9	186.0	157.1	130.3	106.5	86.7	70.1	57.5
22.5°	314.5	286.8	255.8	222.9	188.8	156.8	127.3	102.0	80.9	64.2	51.7
25°	327.3	298.0	265.5	230.2	193.7	158.0	125.4	98.3	75.9	58.8	47.2
27.5°	341.6	310.9	277.1	239.3	200.0	160.4	124.9	94.4	71.2	53.6	43.5
30°	361.7	326.1	288.6	248.4	205.8	163.2	124.2	91.9	66.6	49.6	39.9
32.5°	379.4	340.9	301.5	257.8	212.2	165.9	123.9	88.6	62.4	45.7	37.1
35°	397.9	354.7	312.3	267.0	217.7	169.0	123.6	86.1	58.4	41.7	34.4
37.5°	414.1	366.2	320.9	274.9	223.7	171.7	123.9	84.0	54.8	38.3	31.9
40°	427.8	378.1	330.4	282.2	230.2	176.0	124.2	81.9	51.2	35.3	29.8
42.5°	439.9	389.4	340.4	290.5	237.5	180.8	126.0	80.1	48.1	32.5	27.7
45°	449.3	399.8	351.3	302.0	249.3	188.8	129.4	78.9	45.1	30.2	25.9
47.5°	459.1	414.9	369.9	320.3	266.7	201.2	135.1	78.5	42.6	28.3	24.4
50°	472.5	430.2	386.3	338.9	282.5	214.0	142.2	78.9	39.6	26.5	22.8
52.5°	482.3	445.7	407.7	371.1	320.3	253.0	169.2	84.4	38.0	25.0	21.0
55°	539.8	533.4	534.3	540.4	501.1	430.5	283.1	121.8	44.8	28.3	20.7
57.5°	761.1	783.6	796.8	796.5	731.6	606.7	380.2	156.5	49.9	32.8	24.7
60°	1052.2	1035.1	1011.1	951.7	865.6	692.6	425.3	168.4	43.2	26.2	22.5
62.5°	1309.4	1209.5	1121.0	1024.8	911.8	722.5	434.4	167.5	37.7	19.8	15.9
65°	1469.8	1290.3	1147.2	1026.6	893.6	697.5	411.0	153.8	31.9	16.2	13.1
67.5°	1508.3	1246.7	1044.2	890.5	746.5	542.8	301.8	115.6	25.0	13.4	11.6
69°	1424.6	1108.2	865.3	690.8	543.1	360.2	186.6	73.1	19.2	12.2	10.7
70°	1310.4	963.9	704.8	554.4	402.2	253.0	130.6	51.5	15.5	11.3	9.7
72.5°	843.0	506.3	346.4	241.1	165.9	100.7	51.2	23.1	11.9	9.4	7.9
75°	326.9	187.3	135.8	103.2	80.7	56.1	31.1	14.9	10.1	7.9	6.1
77.5°	161.0	123.3	100.7	69.1	40.2	25.0	16.8	11.6	8.2	5.8	3.9
80°	127.3	84.7	50.6	31.4	23.7	17.9	12.7	9.4	6.1	3.6	2.7
82.5°	65.2	35.6	26.2	21.3	17.6	14.0	10.4	6.7	3.9	2.5	2.2
85°	20.4	14.9	13.4	13.1	12.2	10.1	7.4	4.2	2.5	1.6	1.6
87.5°	1.6	2.2	2.7	2.2	2.5	2.2	2.7	1.9	1.2	1.2	0.9
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	140.3	140.3	140.3	140.3	140.3	140.3	140.3	140.3	140.3	140.3	140.3
2.5°	127.9	124.2	120.8	118.8	114.8	113.3	111.7	111.1	108.4	109.0	106.5
5°	111.7	105.4	100.5	95.6	91.0	87.7	85.0	81.6	78.9	77.6	75.2
7.5°	97.1	88.9	82.5	77.3	71.8	67.6	63.9	61.5	59.1	56.6	55.4
10°	84.4	75.5	68.2	63.0	57.8	54.2	51.5	49.6	48.1	47.2	46.8
12.5°	72.4	63.9	57.2	52.6	48.7	46.8	45.7	44.8	44.5	44.1	44.1
15°	63.3	54.8	49.6	46.3	44.5	43.5	43.2	42.6	42.0	41.7	41.7
17.5°	54.8	48.4	44.8	42.9	42.0	41.5	40.8	40.2	39.6	39.3	39.3
20°	49.0	43.8	42.0	40.8	39.9	39.3	38.3	37.7	37.4	37.1	36.8
22.5°	44.5	41.1	39.9	39.0	37.7	36.8	36.3	35.6	35.0	34.7	34.4
25°	41.1	39.0	38.0	36.8	35.6	34.7	33.8	32.8	32.2	31.9	31.4
27.5°	38.7	37.1	36.0	34.4	33.2	32.2	31.4	30.5	29.8	29.2	28.9
30°	36.6	35.0	33.5	32.2	30.8	29.8	28.6	27.7	27.4	26.8	26.2
32.5°	34.4	32.8	31.4	29.8	28.3	27.0	26.5	25.3	24.7	24.4	23.7
35°	31.9	30.5	28.6	27.4	25.9	24.7	23.7	22.8	22.2	21.7	21.3
37.5°	29.8	28.0	26.2	24.7	23.4	22.2	21.3	20.4	19.8	19.2	18.9
40°	27.4	25.6	23.7	22.2	21.0	20.1	19.2	18.2	17.6	17.3	17.3
42.5°	25.3	23.1	21.3	20.1	19.2	17.9	17.1	16.2	15.9	15.5	15.9
45°	23.1	21.0	19.5	18.2	17.3	16.2	15.2	14.6	14.3	14.6	14.9
47.5°	21.3	19.2	17.6	16.8	15.9	14.9	14.0	13.4	13.4	14.0	14.6
50°	19.5	17.3	16.2	15.5	14.6	13.7	12.4	12.2	12.4	13.1	13.7
52.5°	17.6	15.2	14.3	14.0	13.1	12.2	11.3	11.0	11.3	11.9	11.6
55°	15.9	13.4	13.1	12.7	11.9	10.7	9.7	9.7	9.7	9.4	8.8
57.5°	15.2	11.9	11.6	11.3	10.4	9.1	8.5	7.9	7.6	6.7	6.4
60°	15.9	10.7	10.7	10.1	9.1	7.9	7.0	6.1	5.5	4.9	4.9
62.5°	12.7	9.7	9.4	8.8	7.6	6.4	5.5	4.6	4.2	3.9	3.9
65°	10.4	8.8	8.2	7.4	6.4	5.2	4.2	3.6	3.3	3.3	3.6
67.5°	9.4	7.9	7.0	6.1	5.2	3.9	3.3	3.0	3.0	3.3	3.3
69°	8.8	7.4	6.4	5.5	4.6	3.6	3.0	3.0	3.0	3.0	3.3
70°	8.2	7.0	6.1	5.2	3.9	3.0	2.7	2.7	3.0	3.0	3.3
72.5°	6.4	5.5	5.2	4.2	3.0	2.7	2.5	2.7	2.7	3.0	3.0
75°	4.9	3.9	3.9	3.3	2.5	2.2	2.2	2.5	2.5	2.7	2.7
77.5°	3.3	2.7	2.7	2.5	2.2	1.9	1.9	2.2	2.5	2.5	2.7
80°	2.5	2.2	1.9	2.2	1.9	1.6	1.9	2.2	2.2	2.5	2.5
82.5°	1.9	1.9	1.9	1.9	1.6	1.6	1.9	1.9	2.2	2.5	2.5
85°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.9	1.9	2.2	2.2
87.5°	0.9	0.9	0.9	1.2	1.2	1.6	1.6	1.6	1.6	1.9	1.9
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):

	165°	170°	175°	180°
0°	140.3	140.3	140.3	140.3
2.5°	105.9	105.6	104.5	104.8
5°	74.3	72.4	73.7	73.4
7.5°	54.5	54.2	53.9	54.5
10°	46.6	46.6	46.3	46.6
12.5°	43.8	43.8	43.8	43.8
15°	41.7	41.7	41.5	41.5
17.5°	39.3	39.3	39.3	39.0
20°	36.8	36.6	36.6	36.6
22.5°	34.1	33.8	33.8	33.8
25°	31.4	31.1	31.1	31.1
27.5°	28.6	28.3	28.0	28.0
30°	25.9	25.6	25.3	25.3
32.5°	23.1	22.8	22.5	22.5
35°	20.7	20.7	20.4	20.1
37.5°	18.5	18.5	18.5	18.5
40°	17.1	17.3	17.3	17.3
42.5°	16.2	16.5	16.8	17.1
45°	15.5	16.2	16.5	16.5
47.5°	15.2	15.5	15.9	15.9
50°	14.0	13.7	13.7	13.7
52.5°	11.3	10.7	10.4	10.1
55°	8.2	7.9	7.4	7.4
57.5°	5.8	5.8	5.5	5.5
60°	4.6	4.6	4.2	4.6
62.5°	3.9	3.9	3.9	3.9
65°	3.6	3.6	3.6	3.6
67.5°	3.6	3.6	3.6	3.6
69°	3.3	3.3	3.3	3.3
70°	3.3	3.3	3.3	3.3
72.5°	3.0	3.0	3.0	3.0
75°	2.7	3.0	3.0	3.0
77.5°	2.7	2.7	2.7	2.7
80°	2.5	2.5	2.7	2.7
82.5°	2.5	2.5	2.5	2.5
85°	2.2	2.2	2.5	2.5
87.5°	1.9	1.9	2.2	2.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)