

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: P180758

Luminaire Tested: **ICM-E01-LED-E1-SL4-HSS**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180758
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: ICM-E01-LED-E1-SL4-HSS
Description: ICON SITE MEDIUM LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1892.8 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 1' x H: 0.1')
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

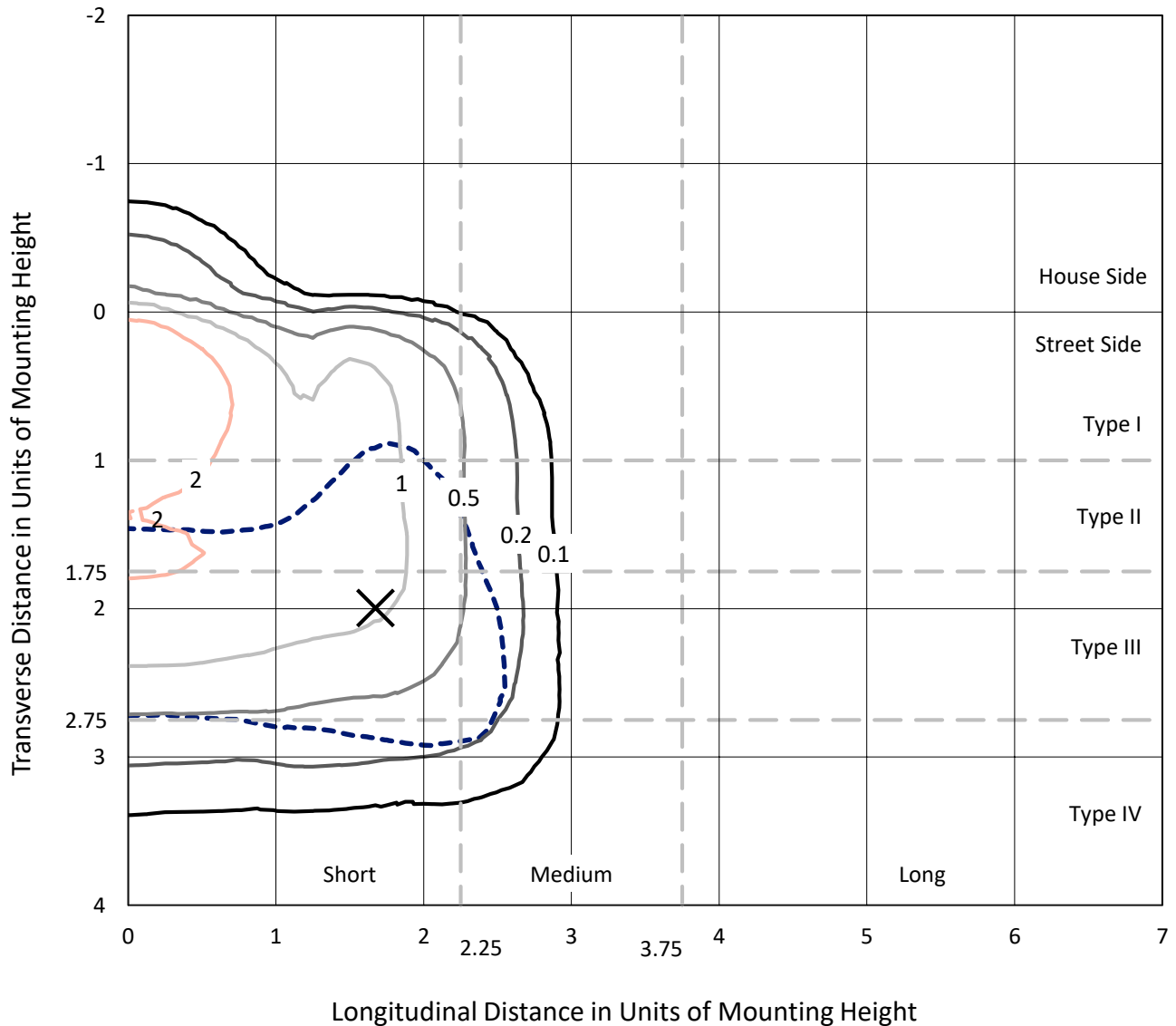


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

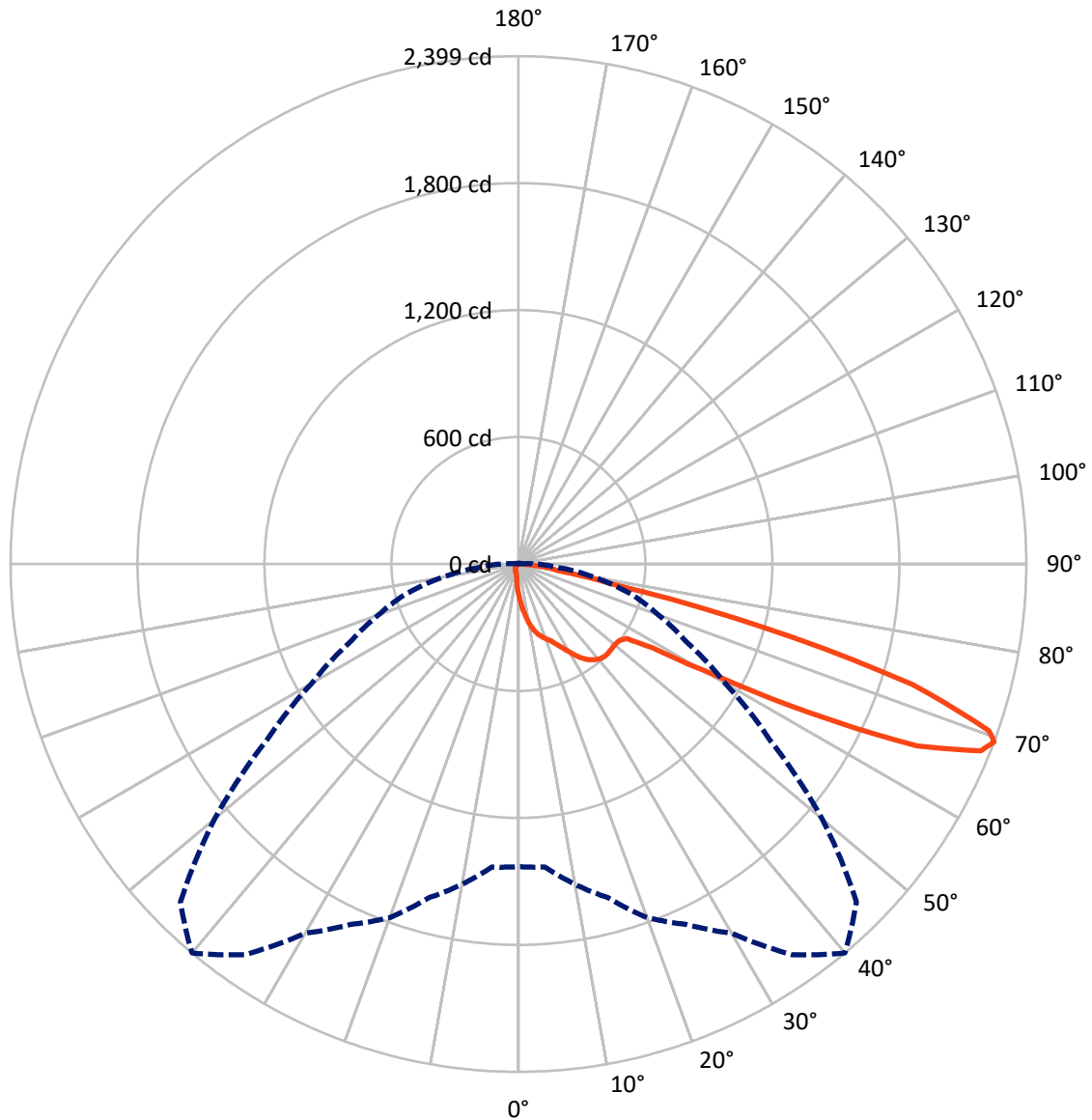


Based on 10 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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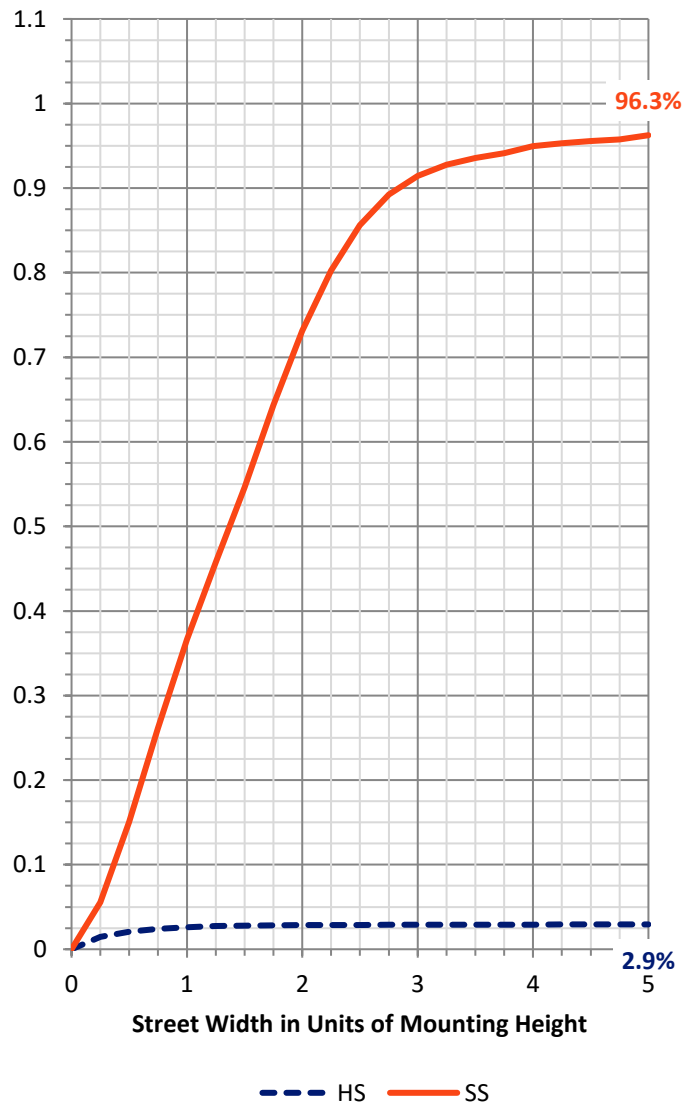
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	56.4	0.0	56.4
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	1836.5	0.0	1836.5
	% Fixture	97.0	0.0	97.0
Total	Lumens	1892.8	0.0	1892.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.7	0.8
10°-20°	50.7	2.7
20°-30°	97.0	5.1
30°-40°	161.2	8.5
40°-50°	218.2	11.5
50°-60°	341.2	18.0
60°-70°	701.5	37.1
70°-80°	282.3	14.9
80°-90°	26.1	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°	1892.8	100.0
0°-180°	1892.8	100.0



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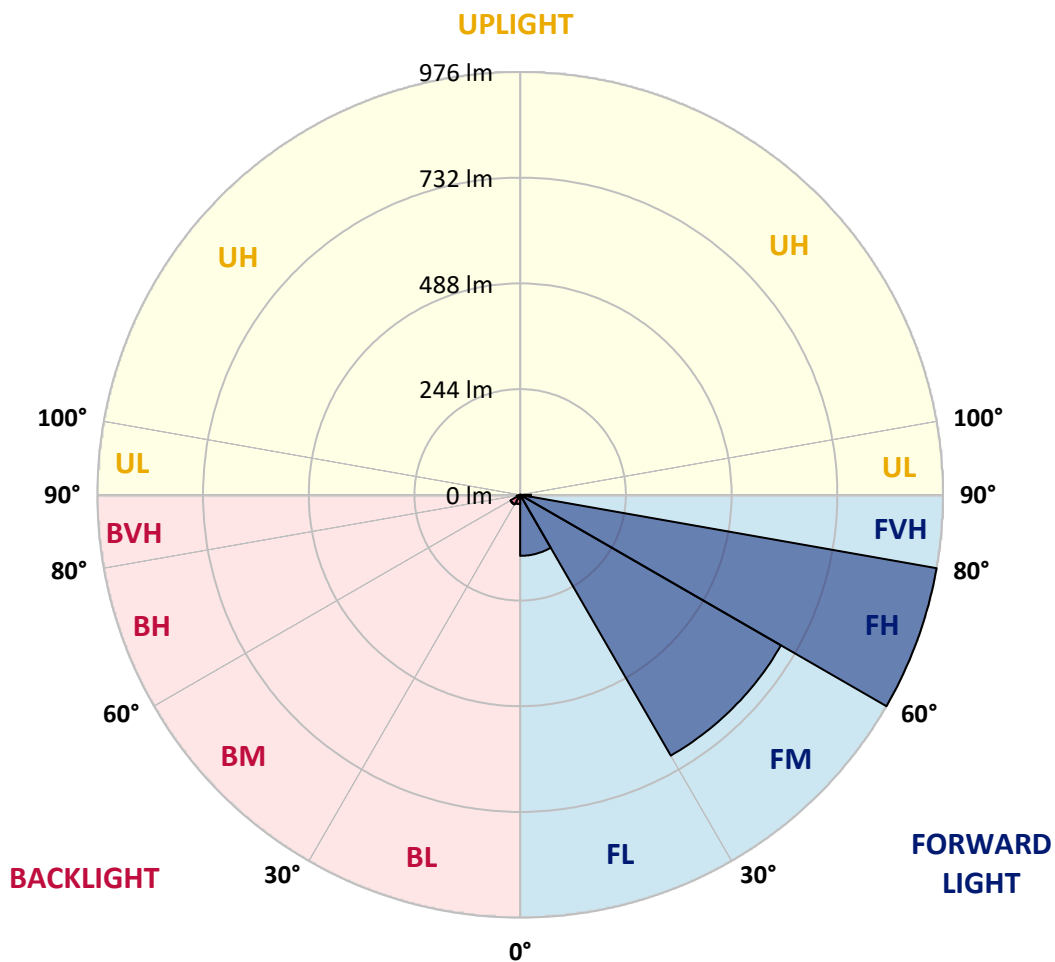
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	140.9	7.4			
FM (30°-60°)	694.9	36.7			
FH (60°-80°)	975.6	51.5			G1/1800
FVH (80°-90°)	25.1	1.3			G1/100
BL (0°-30°)	21.4	1.1	B0/110		
BM (30°-60°)	25.7	1.4	B0/220		
BH (60°-80°)	8.2	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°	143.0	143.0	143.0	143.0	143.0	143.0	143.0	143.0	143.0	143.0	143.0
2.5°	190.7	188.6	186.0	186.0	183.0	183.0	181.1	176.1	175.5	172.7	170.0
5°	243.4	241.6	238.4	235.6	233.2	228.8	225.8	219.8	213.3	207.2	201.6
7.5°	294.9	294.0	288.4	287.4	283.4	276.3	270.0	261.4	250.2	241.6	231.4
10°	342.6	340.5	339.3	334.0	328.1	320.3	310.7	300.2	287.2	273.5	258.9
12.5°	380.5	379.3	373.7	371.4	365.3	357.5	345.4	331.8	318.8	301.1	284.0
15°	408.7	406.5	402.8	399.4	391.9	385.1	374.0	359.1	343.3	324.0	303.5
17.5°	432.3	428.2	427.3	422.0	414.2	406.2	393.8	380.2	361.6	342.3	320.0
20°	463.9	458.3	456.5	448.7	439.7	428.6	414.2	397.2	377.7	356.6	333.7
22.5°	501.1	497.0	493.0	486.2	474.7	458.9	438.1	419.5	394.7	371.4	346.7
25°	553.8	550.4	543.9	534.6	520.3	501.4	476.3	449.0	419.8	390.0	360.9
27.5°	604.9	601.9	597.2	590.1	574.0	553.2	522.1	487.4	450.5	414.6	382.3
30°	653.0	650.2	645.6	638.4	624.2	603.7	568.7	531.4	485.6	443.7	404.9
32.5°	704.8	703.9	698.6	688.4	676.0	648.4	610.2	570.2	523.7	475.4	430.0
35°	763.4	756.3	751.4	741.1	720.0	690.5	645.9	602.1	553.2	503.5	453.0
37.5°	813.0	806.2	800.0	787.0	761.2	723.7	673.2	625.1	574.6	524.0	472.6
40°	849.3	845.9	838.4	821.4	792.6	747.9	693.3	640.9	590.1	539.3	488.4
42.5°	876.3	871.0	862.6	844.9	810.9	760.0	701.4	647.4	597.2	548.6	498.6
45°	886.2	881.9	874.1	854.9	818.0	763.4	701.1	645.6	597.5	551.4	505.4
47.5°	880.3	876.0	869.1	851.2	814.9	759.4	695.5	640.3	594.4	552.3	511.6
50°	860.7	858.3	853.0	837.9	805.3	751.6	690.5	637.5	593.8	556.9	520.3
52.5°	858.9	857.4	850.9	835.6	802.5	749.1	690.0	639.1	599.1	562.8	526.5
55°	1049.6	1027.6	978.3	936.5	867.6	785.8	721.2	664.2	621.4	586.1	560.7
57.5°	1491.8	1458.9	1394.1	1314.4	1156.3	1000.9	876.6	786.7	742.3	726.2	735.8
60°	1698.9	1693.0	1682.8	1644.9	1564.0	1430.4	1281.6	1120.7	1056.1	1050.5	1070.1
62.5°	1797.2	1793.5	1796.6	1791.9	1766.8	1727.7	1684.9	1615.5	1551.6	1510.4	1423.0
65°	1842.5	1844.9	1862.6	1876.6	1879.7	1890.0	1921.2	2007.7	2071.0	1964.7	1721.9
67.5°	1727.5	1742.1	1782.6	1833.5	1893.0	1950.7	2043.7	2226.1	2356.0	2231.0	1886.2
69°	1430.1	1437.2	1536.5	1632.3	1777.7	1879.4	2014.2	2253.3	2399.4	2258.3	1873.2
70°	1125.9	1132.4	1238.8	1369.0	1614.9	1745.8	1922.2	2207.2	2358.8	2222.1	1806.2
72.5°	507.9	498.6	536.1	605.9	873.2	1080.9	1389.5	1788.2	1946.1	1780.2	1351.4
75°	354.7	350.7	354.7	355.1	396.6	511.6	645.6	969.3	1198.8	1034.4	645.6
77.5°	274.7	271.9	269.1	266.0	271.0	303.5	316.6	343.9	446.5	422.3	246.2
80°	217.4	214.9	221.7	219.5	219.5	223.3	220.7	210.5	191.4	177.4	158.8
82.5°	101.1	101.7	101.7	110.4	133.0	155.3	162.5	152.3	135.2	115.1	92.7
85°	9.6	10.9	18.3	28.2	56.1	63.3	63.5	52.7	52.7	41.6	33.5
87.5°	0.0	0.3	0.3	0.3	2.8	7.7	6.5	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°	143.0	143.0	143.0	143.0	143.0	143.0	143.0	143.0	143.0	143.0	143.0
2.5°	164.9	164.0	160.3	156.6	153.2	149.5	146.0	142.6	138.9	136.1	132.7
5°	192.8	186.0	178.3	170.9	163.4	155.6	147.6	140.5	133.0	126.2	119.7
7.5°	221.1	207.7	197.2	183.9	171.8	159.7	148.6	137.0	126.5	116.6	107.3
10°	244.9	228.8	212.4	195.4	178.0	161.9	146.3	132.7	118.8	106.7	95.2
12.5°	264.5	244.0	223.9	202.5	183.0	162.5	143.3	126.8	110.4	96.7	84.9
15°	282.1	258.6	234.4	209.6	184.8	161.6	140.2	119.7	103.0	87.4	74.1
17.5°	296.5	269.5	242.1	214.2	187.6	160.3	136.1	114.7	95.2	79.1	66.0
20°	308.8	280.7	251.2	219.8	189.5	160.0	132.7	108.6	88.4	71.3	58.6
22.5°	320.3	292.1	260.5	227.0	192.3	159.7	129.6	103.9	82.5	65.4	52.7
25°	333.3	303.5	270.4	234.4	197.2	160.9	127.7	100.2	77.2	59.8	48.1
27.5°	347.9	316.6	282.1	243.7	203.7	163.4	127.2	96.1	72.6	54.6	44.4
30°	368.4	332.1	294.0	253.0	209.6	166.2	126.5	93.7	67.9	50.5	40.7
32.5°	386.3	347.3	307.0	262.6	216.1	169.0	126.2	90.2	63.5	46.5	37.9
35°	405.3	361.2	318.1	271.9	221.7	172.1	125.9	87.7	59.5	42.5	35.1
37.5°	421.7	373.0	326.8	280.0	227.9	174.9	126.2	85.6	55.8	39.1	32.6
40°	435.6	385.1	336.5	287.4	234.4	179.3	126.5	83.4	52.1	36.0	30.4
42.5°	448.1	396.6	346.7	295.8	241.9	184.2	128.4	81.6	49.0	33.2	28.2
45°	457.7	407.2	357.9	307.6	254.0	192.3	131.8	80.3	45.9	30.7	26.3
47.5°	467.6	422.6	376.7	326.2	271.6	204.9	137.7	80.0	43.4	28.8	24.8
50°	481.2	438.1	393.5	345.1	287.7	218.0	144.8	80.3	40.3	27.0	23.3
52.5°	491.2	454.0	415.2	378.0	326.2	257.7	172.4	85.9	38.8	25.4	21.4
55°	549.8	543.3	544.2	550.4	510.4	438.4	288.4	124.0	45.6	28.8	21.1
57.5°	775.2	798.1	811.4	811.2	745.1	618.0	387.3	159.3	50.9	33.5	25.1
60°	1071.6	1054.2	1029.8	969.3	881.6	705.4	433.2	171.4	44.0	26.7	23.0
62.5°	1333.7	1231.9	1141.7	1043.7	928.7	735.8	442.5	170.5	38.4	20.2	16.1
65°	1497.0	1314.1	1168.4	1045.6	910.1	710.4	418.6	156.6	32.6	16.5	13.3
67.5°	1536.1	1269.8	1063.5	907.0	760.3	552.8	307.3	117.9	25.4	13.7	11.8
69°	1450.9	1128.7	881.2	703.5	553.2	366.8	190.0	74.4	19.5	12.4	10.9
70°	1334.6	981.7	717.9	564.7	409.6	257.7	133.0	52.4	15.8	11.4	10.0
72.5°	858.6	515.6	352.8	245.6	169.0	102.6	52.1	23.5	12.1	9.6	8.1
75°	333.0	190.7	138.3	105.1	82.1	57.0	31.6	15.2	10.2	8.1	6.2
77.5°	164.0	125.6	102.6	70.4	40.9	25.4	17.0	11.8	8.4	5.9	4.0
80°	129.6	86.2	51.4	31.9	24.2	18.3	13.0	9.6	6.2	3.7	2.8
82.5°	66.3	36.3	26.7	21.7	18.0	14.2	10.5	6.8	4.0	2.5	2.1
85°	20.7	15.2	13.7	13.3	12.4	10.2	7.4	4.4	2.5	1.6	1.6
87.5°	1.6	2.1	2.8	2.1	2.5	2.1	2.8	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°	143.0	143.0	143.0	143.0	143.0	143.0	143.0	143.0	143.0	143.0	143.0
2.5°	130.2	126.5	123.1	120.9	116.9	115.3	113.8	113.2	110.4	111.0	108.6
5°	113.8	107.3	102.3	97.4	92.7	89.3	86.5	83.1	80.3	79.1	76.6
7.5°	98.9	90.5	84.0	78.8	73.2	68.8	65.1	62.6	60.2	57.7	56.5
10°	85.9	76.9	69.5	64.2	58.9	55.2	52.4	50.5	49.0	48.1	47.7
12.5°	73.8	65.1	58.3	53.7	49.6	47.7	46.5	45.6	45.3	44.9	44.9
15°	64.5	55.8	50.5	47.2	45.3	44.4	44.0	43.4	42.8	42.5	42.5
17.5°	55.8	49.3	45.6	43.7	42.8	42.1	41.6	40.9	40.3	40.0	40.0
20°	50.0	44.7	42.8	41.6	40.7	40.0	39.1	38.4	38.1	37.9	37.5
22.5°	45.3	41.9	40.7	39.7	38.4	37.5	36.9	36.3	35.6	35.3	35.1
25°	41.9	39.7	38.8	37.5	36.3	35.3	34.4	33.5	32.8	32.6	31.9
27.5°	39.3	37.9	36.6	35.1	33.8	32.8	31.9	31.0	30.4	29.8	29.5
30°	37.2	35.6	34.1	32.8	31.3	30.4	29.1	28.2	27.9	27.3	26.7
32.5°	35.1	33.5	31.9	30.4	28.8	27.6	27.0	25.8	25.1	24.8	24.2
35°	32.6	31.0	29.1	27.9	26.3	25.1	24.2	23.3	22.6	22.0	21.7
37.5°	30.4	28.6	26.7	25.1	23.9	22.6	21.7	20.7	20.2	19.5	19.3
40°	27.9	26.0	24.2	22.6	21.4	20.5	19.5	18.6	18.0	17.7	17.7
42.5°	25.8	23.5	21.7	20.5	19.5	18.3	17.4	16.5	16.1	15.8	16.1
45°	23.5	21.4	19.8	18.6	17.7	16.5	15.5	14.9	14.6	14.9	15.2
47.5°	21.7	19.5	18.0	17.0	16.1	15.2	14.2	13.7	13.7	14.2	14.9
50°	19.8	17.7	16.5	15.8	14.9	14.0	12.7	12.4	12.7	13.3	14.0
52.5°	18.0	15.5	14.6	14.2	13.3	12.4	11.4	11.2	11.4	12.1	11.8
55°	16.1	13.7	13.3	13.0	12.1	10.9	10.0	10.0	10.0	9.6	9.0
57.5°	15.5	12.1	11.8	11.4	10.5	9.3	8.7	8.1	7.7	6.8	6.5
60°	16.1	10.9	10.9	10.2	9.3	8.1	7.2	6.2	5.6	4.9	4.9
62.5°	13.0	10.0	9.6	9.0	7.7	6.5	5.6	4.7	4.4	4.0	4.0
65°	10.5	9.0	8.4	7.4	6.5	5.3	4.4	3.7	3.4	3.4	3.7
67.5°	9.6	8.1	7.2	6.2	5.3	4.0	3.4	3.1	3.1	3.4	3.4
69°	9.0	7.4	6.5	5.6	4.7	3.7	3.1	3.1	3.1	3.1	3.4
70°	8.4	7.2	6.2	5.3	4.0	3.1	2.8	2.8	3.1	3.1	3.4
72.5°	6.5	5.6	5.3	4.4	3.1	2.8	2.5	2.8	2.8	3.1	3.1
75°	4.9	4.0	4.0	3.4	2.5	2.1	2.1	2.5	2.5	2.8	2.8
77.5°	3.4	2.8	2.8	2.5	2.1	1.9	1.9	2.1	2.5	2.5	2.8
80°	2.5	2.1	1.9	2.1	1.9	1.6	1.9	2.1	2.1	2.5	2.5
82.5°	1.9	1.9	1.9	1.9	1.6	1.6	1.9	1.9	2.1	2.5	2.5
85°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.9	1.9	2.1	2.1
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°	143.0	143.0	143.0	143.0
2.5°	107.9	107.6	106.3	106.7
5°	75.6	73.8	75.1	74.7
7.5°	55.5	55.2	54.9	55.5
10°	47.4	47.4	47.2	47.4
12.5°	44.7	44.7	44.7	44.7
15°	42.5	42.5	42.1	42.1
17.5°	40.0	40.0	40.0	39.7
20°	37.5	37.2	37.2	37.2
22.5°	34.7	34.4	34.4	34.4
25°	31.9	31.6	31.6	31.6
27.5°	29.1	28.8	28.6	28.6
30°	26.3	26.0	25.8	25.8
32.5°	23.5	23.3	23.0	23.0
35°	21.1	21.1	20.7	20.5
37.5°	18.9	18.9	18.9	18.9
40°	17.4	17.7	17.7	17.7
42.5°	16.5	16.7	17.0	17.4
45°	15.8	16.5	16.7	16.7
47.5°	15.5	15.8	16.1	16.1
50°	14.2	14.0	14.0	14.0
52.5°	11.4	10.9	10.5	10.2
55°	8.4	8.1	7.4	7.4
57.5°	5.9	5.9	5.6	5.6
60°	4.7	4.7	4.4	4.7
62.5°	4.0	4.0	4.0	4.0
65°	3.7	3.7	3.7	3.7
67.5°	3.7	3.7	3.7	3.7
69°	3.4	3.4	3.4	3.4
70°	3.4	3.4	3.4	3.4
72.5°	3.1	3.1	3.1	3.1
75°	2.8	3.1	3.1	3.1
77.5°	2.8	2.8	2.8	2.8
80°	2.5	2.5	2.8	2.8
82.5°	2.5	2.5	2.5	2.5
85°	2.1	2.1	2.5	2.5
87.5°	1.9	1.9	2.1	2.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)