

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: P180782

Luminaire Tested: **ICM-F03-LED-E1-SL4-HSS-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180782
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-F03-LED-E1-SL4-HSS-7030
Description: ICON SITE MEDIUM LED LUMINAIRE
(3) 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: 4281.6 lumens
Efficiency: N/A
Efficacy: 54.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G2

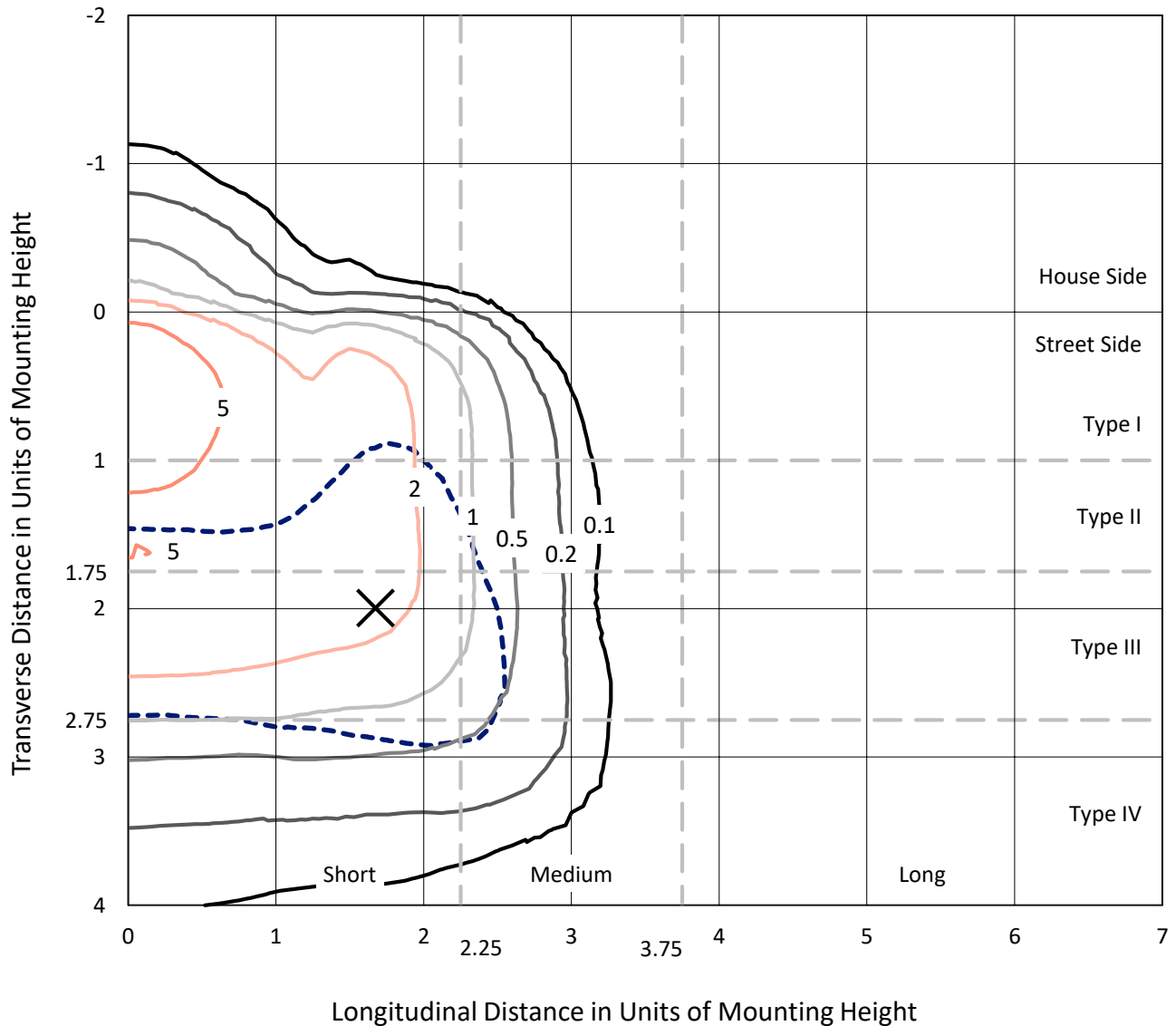
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

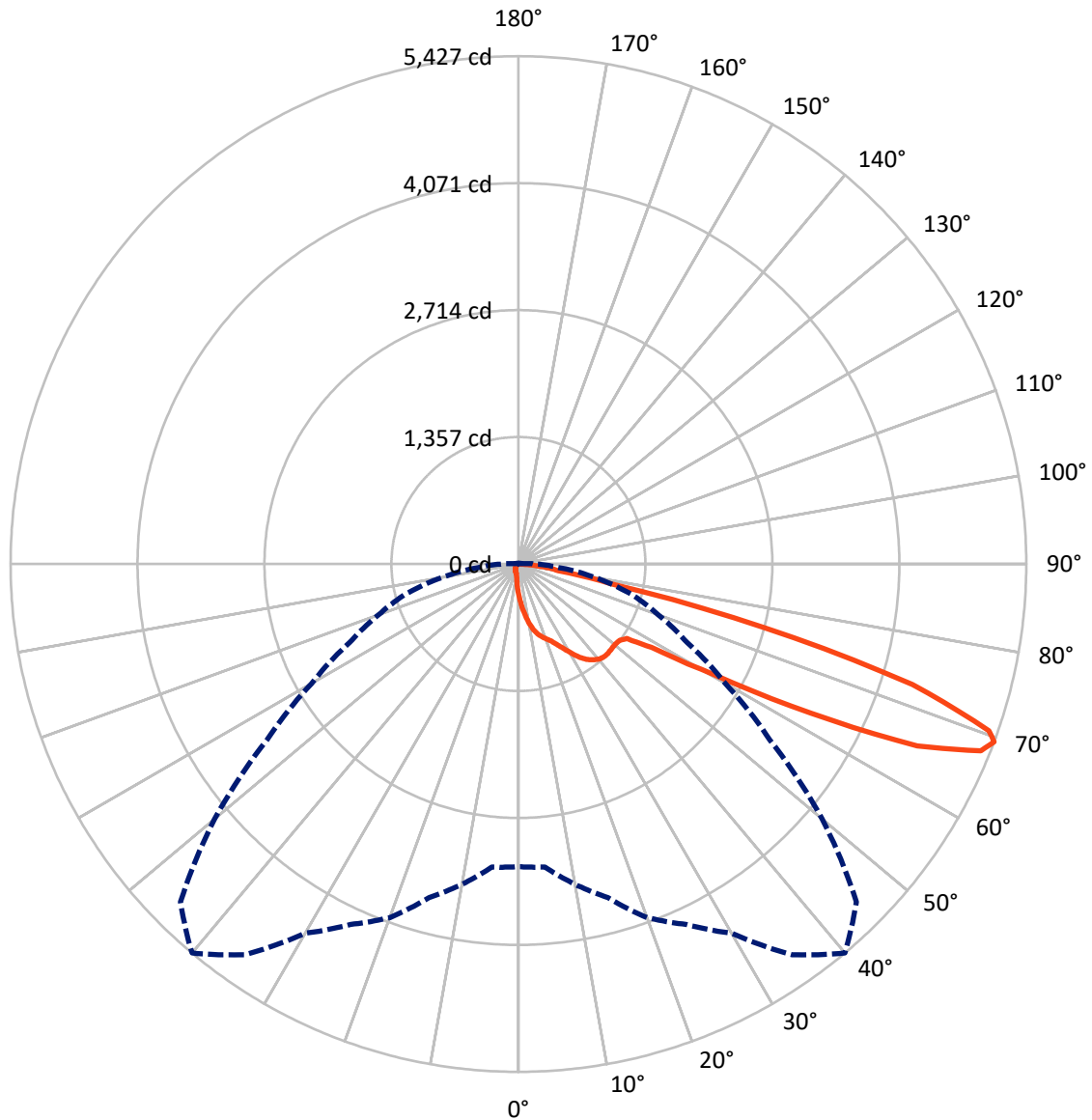


Based on 10 foot mounting height. Maximum calculated value = 9.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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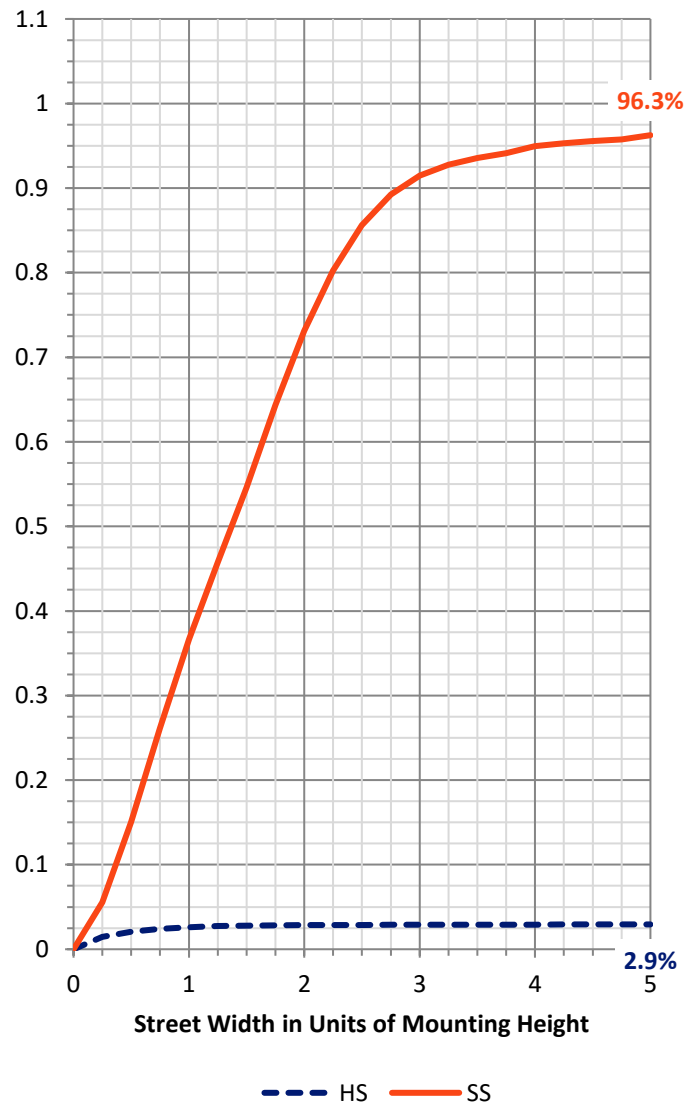
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	127.5	0.0	127.5
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	4154.1	0.0	4154.1
	% Fixture	97.0	0.0	97.0
Total	Lumens	4281.6	0.0	4281.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.2	0.8
10°-20°	114.6	2.7
20°-30°	219.3	5.1
30°-40°	364.7	8.5
40°-50°	493.5	11.5
50°-60°	771.8	18.0
60°-70°	1586.8	37.1
70°-80°	638.5	14.9
80°-90°	59.1	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°	4281.6	100.0
0°-180°	4281.6	100.0



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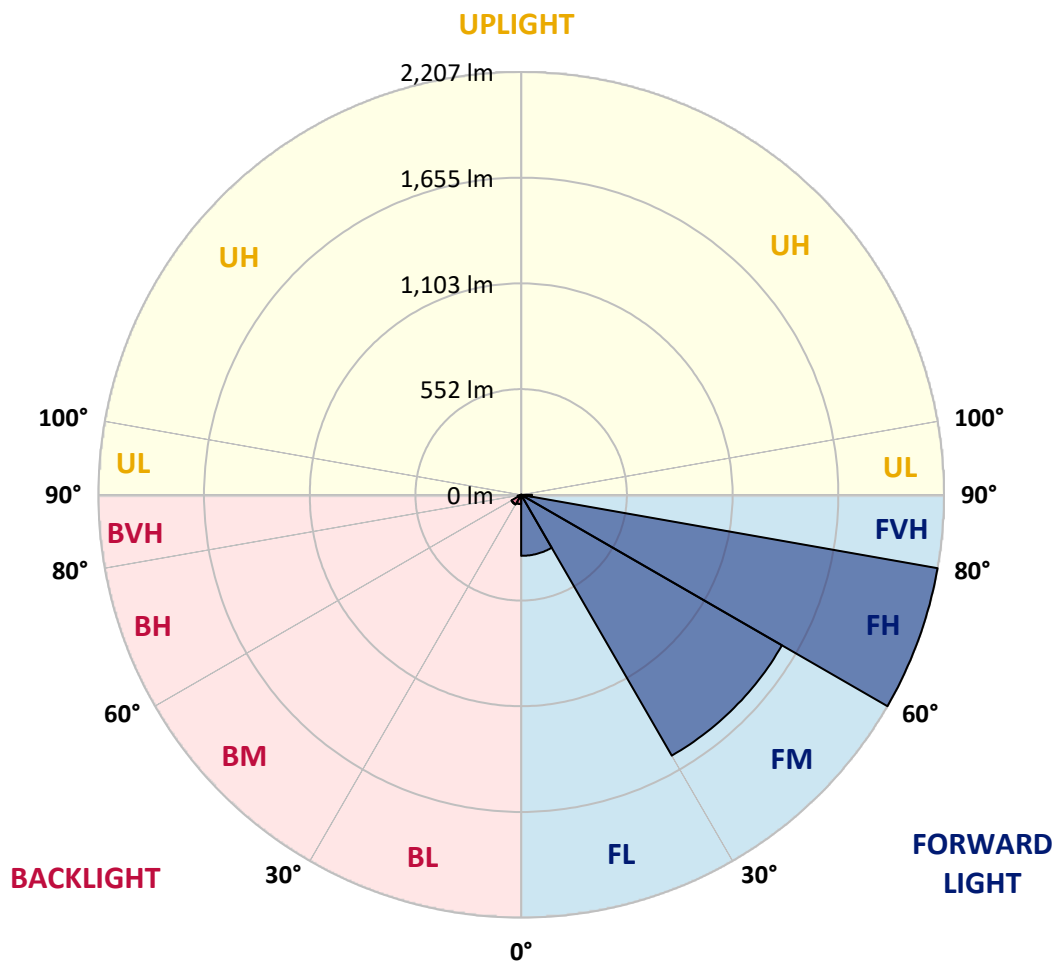
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	318.6	7.4			
FM (30°-60°)	1571.8	36.7			
FH (60°-80°)	2206.8	51.5			G2/5000
FVH (80°-90°)	56.9	1.3			G1/100
BL (0°-30°)	48.5	1.1	B0/110		
BM (30°-60°)	58.2	1.4	B0/220		
BH (60°-80°)	18.6	0.4	B0/110		G0/110
BVH (80°-90°)	2.2	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°	323.4	323.4	323.4	323.4	323.4	323.4	323.4	323.4	323.4	323.4	323.4
2.5°	431.4	426.4	420.8	420.8	413.9	413.9	409.6	398.4	397.0	390.7	384.4
5°	550.6	546.4	539.4	533.0	527.4	517.6	510.6	497.3	482.5	468.6	455.9
7.5°	667.0	664.9	652.3	650.2	641.1	624.9	610.9	591.3	566.0	546.4	523.3
10°	775.1	770.1	767.4	755.4	742.1	724.6	702.8	679.0	649.5	618.6	585.7
12.5°	860.6	857.8	845.2	840.3	826.2	808.7	781.3	750.5	721.0	681.0	642.5
15°	924.5	919.5	911.1	903.4	886.5	871.2	845.9	812.2	776.5	732.9	686.7
17.5°	977.8	968.7	966.5	954.6	937.0	918.8	890.8	859.9	817.9	774.3	723.8
20°	1049.3	1036.7	1032.5	1014.9	994.6	969.3	937.0	898.5	854.3	806.6	754.7
22.5°	1133.5	1124.4	1115.2	1099.8	1073.9	1038.1	991.1	949.0	892.8	840.3	784.2
25°	1252.7	1244.9	1230.2	1209.2	1176.9	1134.1	1077.3	1015.6	949.7	882.3	816.4
27.5°	1368.4	1361.4	1350.9	1334.7	1298.2	1251.3	1181.1	1102.6	1019.2	937.8	864.8
30°	1477.1	1470.8	1460.3	1444.2	1411.9	1365.6	1286.3	1202.1	1098.4	1003.7	916.0
32.5°	1594.2	1592.2	1580.2	1557.1	1529.0	1466.6	1380.4	1289.9	1184.7	1075.3	972.8
35°	1726.8	1710.7	1699.5	1676.3	1628.7	1562.0	1461.0	1362.1	1251.3	1139.1	1024.8
37.5°	1839.1	1823.6	1809.6	1780.1	1722.0	1637.0	1522.7	1414.1	1299.6	1185.3	1068.9
40°	1921.1	1913.4	1896.6	1858.0	1792.8	1691.7	1568.3	1449.8	1334.7	1219.7	1104.7
42.5°	1982.2	1970.2	1951.3	1911.3	1834.2	1719.1	1586.5	1464.5	1350.9	1240.8	1127.8
45°	2004.6	1994.8	1977.2	1933.8	1850.2	1726.8	1585.9	1460.3	1351.5	1247.1	1143.3
47.5°	1991.3	1981.4	1966.0	1925.3	1843.3	1717.7	1573.2	1448.4	1344.6	1249.2	1157.3
50°	1947.1	1941.5	1929.5	1895.2	1821.5	1700.2	1562.0	1442.1	1343.2	1259.7	1176.9
52.5°	1942.9	1939.4	1924.7	1890.2	1815.2	1694.5	1560.6	1445.6	1355.1	1273.0	1191.0
55°	2374.2	2324.4	2212.9	2118.2	1962.5	1777.3	1631.5	1502.4	1405.6	1325.6	1268.1
57.5°	3374.4	3300.0	3153.5	2973.2	2615.5	2264.1	1982.8	1779.5	1679.2	1642.7	1664.4
60°	3842.9	3829.6	3806.4	3720.9	3537.8	3235.6	2898.9	2534.8	2388.9	2376.3	2420.5
62.5°	4065.2	4056.9	4063.8	4053.3	3996.6	3908.2	3811.4	3654.3	3509.8	3416.5	3218.7
65°	4167.7	4173.3	4213.2	4244.9	4251.8	4275.0	4345.8	4541.5	4684.6	4444.0	3894.8
67.5°	3907.5	3940.4	4032.3	4147.4	4282.0	4412.5	4622.9	5035.3	5329.1	5046.5	4266.5
69°	3234.8	3251.0	3475.4	3692.1	4021.0	4251.2	4556.2	5097.1	5427.4	5108.2	4237.1
70°	2546.8	2561.5	2802.1	3096.7	3652.9	3948.9	4347.9	4992.5	5335.5	5026.2	4085.6
72.5°	1148.8	1127.8	1212.8	1370.5	1975.1	2445.0	3142.9	4045.0	4402.0	4026.7	3056.7
75°	802.4	793.3	802.4	803.1	897.1	1157.3	1460.3	2192.6	2711.6	2339.8	1460.3
77.5°	621.4	615.2	608.8	601.8	613.0	686.7	716.1	777.9	1010.1	955.3	556.9
80°	491.6	486.0	501.5	496.6	496.6	505.0	499.4	476.3	432.7	401.2	359.1
82.5°	228.7	230.0	230.0	249.7	300.9	351.4	367.5	344.4	305.8	260.2	209.7
85°	21.8	24.6	41.4	63.8	127.0	143.1	143.8	119.3	119.3	94.0	75.7
87.5°	0.0	0.7	0.7	0.7	6.3	17.5	14.7	4.2	2.1	2.1	3.5
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	323.4	323.4	323.4	323.4	323.4	323.4	323.4	323.4	323.4	323.4	323.4
2.5°	373.1	371.1	362.6	354.2	346.5	338.0	330.3	322.6	314.2	307.9	300.2
5°	436.3	420.8	403.3	386.5	369.7	352.1	333.9	317.8	300.9	285.5	270.7
7.5°	500.1	470.0	446.0	415.9	388.6	361.2	336.0	310.0	286.1	263.7	242.7
10°	554.1	517.6	480.5	441.9	402.6	366.1	331.1	300.2	268.7	241.3	215.4
12.5°	598.3	552.0	506.4	458.0	413.9	367.5	324.0	286.9	249.7	218.8	192.2
15°	638.2	584.9	530.2	474.1	418.0	365.4	317.0	270.7	232.8	197.8	167.6
17.5°	670.5	609.5	547.8	484.7	424.4	362.6	307.9	259.5	215.4	178.9	149.4
20°	698.6	634.8	568.1	497.3	428.6	362.0	300.2	245.5	199.9	161.3	132.6
22.5°	724.6	660.7	589.2	513.4	434.9	361.2	293.2	235.0	186.6	148.0	119.3
25°	754.0	686.7	611.6	530.2	446.0	364.0	288.9	226.5	174.6	135.3	108.7
27.5°	787.0	716.1	638.2	551.3	460.8	369.7	287.5	217.4	164.1	123.4	100.3
30°	833.2	751.2	664.9	572.4	474.1	375.9	286.1	211.8	153.6	114.3	91.9
32.5°	874.0	785.6	694.4	594.1	488.8	382.2	285.5	204.1	143.8	105.2	85.6
35°	916.7	817.1	719.6	615.2	501.5	389.3	284.7	198.5	134.7	96.1	79.3
37.5°	953.9	843.8	739.3	633.4	515.5	395.6	285.5	193.6	126.2	88.4	73.7
40°	985.5	871.2	761.0	650.2	530.2	405.4	286.1	188.7	117.9	81.4	68.7
42.5°	1013.5	897.1	784.2	669.1	547.1	416.7	290.4	184.5	110.8	75.1	63.8
45°	1035.3	920.9	809.4	695.8	574.4	434.9	298.0	181.7	103.8	69.4	59.6
47.5°	1057.7	956.0	852.2	737.9	614.4	463.6	311.4	180.9	98.2	65.2	56.1
50°	1088.6	991.1	890.1	780.7	650.9	493.1	327.5	181.7	91.2	61.0	52.6
52.5°	1111.0	1026.8	939.2	855.0	737.9	582.9	390.0	194.3	87.6	57.5	48.4
55°	1243.5	1228.8	1231.0	1244.9	1154.5	991.7	652.3	280.6	103.1	65.2	47.7
57.5°	1753.5	1805.4	1835.5	1834.8	1685.4	1397.9	876.0	360.6	115.1	75.7	56.8
60°	2424.0	2384.8	2329.3	2192.6	1994.1	1595.6	979.8	387.9	99.6	60.3	51.9
62.5°	3016.7	2786.6	2582.5	2360.9	2100.7	1664.4	1000.8	385.8	87.0	45.6	36.5
65°	3386.3	2972.5	2642.8	2365.1	2058.6	1606.9	946.9	354.2	73.7	37.2	30.1
67.5°	3474.7	2872.2	2405.8	2051.5	1719.8	1250.6	695.1	266.5	57.5	30.9	26.7
69°	3281.8	2553.0	1993.3	1591.5	1251.3	829.8	430.0	168.4	44.2	28.1	24.6
70°	3018.8	2220.6	1623.7	1277.2	926.5	582.9	300.9	118.5	35.8	26.0	22.4
72.5°	1942.2	1166.4	798.1	555.5	382.2	232.2	117.9	53.3	27.3	21.8	18.2
75°	753.3	431.4	312.8	237.8	185.9	129.0	71.5	34.3	23.2	18.2	14.0
77.5°	371.1	284.1	232.2	159.3	92.6	57.5	38.6	26.7	19.0	13.3	9.1
80°	293.2	195.0	116.5	72.3	54.7	41.4	29.5	21.8	14.0	8.4	6.3
82.5°	150.1	82.0	60.3	49.1	40.7	32.3	23.8	15.4	9.1	5.6	4.9
85°	47.0	34.3	30.9	30.1	28.1	23.2	16.8	9.9	5.6	3.5	3.5
87.5°	3.5	4.9	6.3	4.9	5.6	4.9	6.3	4.2	2.8	2.8	2.1
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°	323.4	323.4	323.4	323.4	323.4	323.4	323.4	323.4	323.4	323.4	323.4
2.5°	294.6	286.1	278.4	273.6	264.5	260.9	257.4	256.0	249.7	251.1	245.5
5°	257.4	242.7	231.4	220.3	209.7	202.0	195.7	188.0	181.7	178.9	173.2
7.5°	223.7	204.8	190.0	178.1	165.5	155.7	147.3	141.7	136.1	130.4	127.6
10°	194.3	174.0	157.1	145.2	133.3	124.8	118.5	114.3	110.8	108.7	108.0
12.5°	167.0	147.3	131.9	121.3	112.2	108.0	105.2	103.1	102.4	101.7	101.7
15°	145.9	126.2	114.3	106.6	102.4	100.3	99.6	98.2	96.8	96.1	96.1
17.5°	126.2	111.5	103.1	98.9	96.8	95.3	94.0	92.6	91.2	90.5	90.5
20°	112.9	101.0	96.8	94.0	91.9	90.5	88.4	87.0	86.2	85.6	84.8
22.5°	102.4	94.7	91.9	89.8	87.0	84.8	83.4	82.0	80.7	80.0	79.3
25°	94.7	89.8	87.6	84.8	82.0	80.0	77.9	75.7	74.3	73.7	72.3
27.5°	89.1	85.6	82.8	79.3	76.5	74.3	72.3	70.1	68.7	67.3	66.6
30°	84.2	80.7	77.1	74.3	70.9	68.7	66.0	63.8	63.2	61.8	60.3
32.5°	79.3	75.7	72.3	68.7	65.2	62.4	61.0	58.2	56.8	56.1	54.7
35°	73.7	70.1	66.0	63.2	59.6	56.8	54.7	52.6	51.2	49.8	49.1
37.5°	68.7	64.6	60.3	56.8	54.0	51.2	49.1	47.0	45.6	44.2	43.4
40°	63.2	58.9	54.7	51.2	48.4	46.3	44.2	42.0	40.7	40.0	40.0
42.5°	58.2	53.3	49.1	46.3	44.2	41.4	39.3	37.2	36.5	35.8	36.5
45°	53.3	48.4	44.9	42.0	40.0	37.2	35.1	33.7	32.9	33.7	34.3
47.5°	49.1	44.2	40.7	38.6	36.5	34.3	32.3	30.9	30.9	32.3	33.7
50°	44.9	40.0	37.2	35.8	33.7	31.5	28.7	28.1	28.7	30.1	31.5
52.5°	40.7	35.1	32.9	32.3	30.1	28.1	26.0	25.2	26.0	27.3	26.7
55°	36.5	30.9	30.1	29.5	27.3	24.6	22.4	22.4	22.4	21.8	20.4
57.5°	35.1	27.3	26.7	26.0	23.8	21.0	19.6	18.2	17.5	15.4	14.7
60°	36.5	24.6	24.6	23.2	21.0	18.2	16.1	14.0	12.7	11.3	11.3
62.5°	29.5	22.4	21.8	20.4	17.5	14.7	12.7	10.5	9.9	9.1	9.1
65°	23.8	20.4	19.0	16.8	14.7	11.9	9.9	8.4	7.7	7.7	8.4
67.5°	21.8	18.2	16.1	14.0	11.9	9.1	7.7	7.0	7.0	7.7	7.7
69°	20.4	16.8	14.7	12.7	10.5	8.4	7.0	7.0	7.0	7.0	7.7
70°	19.0	16.1	14.0	11.9	9.1	7.0	6.3	6.3	7.0	7.0	7.7
72.5°	14.7	12.7	11.9	9.9	7.0	6.3	5.6	6.3	6.3	7.0	7.0
75°	11.3	9.1	9.1	7.7	5.6	4.9	4.9	5.6	5.6	6.3	6.3
77.5°	7.7	6.3	6.3	5.6	4.9	4.2	4.2	4.9	5.6	5.6	6.3
80°	5.6	4.9	4.2	4.9	4.2	3.5	4.2	4.9	4.9	5.6	5.6
82.5°	4.2	4.2	4.2	4.2	3.5	3.5	4.2	4.2	4.9	5.6	5.6
85°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.2	4.2	4.9	4.9
87.5°	2.1	2.1	2.1	2.8	2.8	3.5	3.5	3.5	3.5	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):

	165°	170°	175°	180°
0°	323.4	323.4	323.4	323.4
2.5°	244.1	243.4	240.6	241.3
5°	171.2	167.0	169.8	169.0
7.5°	125.6	124.8	124.2	125.6
10°	107.3	107.3	106.6	107.3
12.5°	101.0	101.0	101.0	101.0
15°	96.1	96.1	95.3	95.3
17.5°	90.5	90.5	90.5	89.8
20°	84.8	84.2	84.2	84.2
22.5°	78.5	77.9	77.9	77.9
25°	72.3	71.5	71.5	71.5
27.5°	66.0	65.2	64.6	64.6
30°	59.6	58.9	58.2	58.2
32.5°	53.3	52.6	51.9	51.9
35°	47.7	47.7	47.0	46.3
37.5°	42.8	42.8	42.8	42.8
40°	39.3	40.0	40.0	40.0
42.5°	37.2	37.9	38.6	39.3
45°	35.8	37.2	37.9	37.9
47.5°	35.1	35.8	36.5	36.5
50°	32.3	31.5	31.5	31.5
52.5°	26.0	24.6	23.8	23.2
55°	19.0	18.2	16.8	16.8
57.5°	13.3	13.3	12.7	12.7
60°	10.5	10.5	9.9	10.5
62.5°	9.1	9.1	9.1	9.1
65°	8.4	8.4	8.4	8.4
67.5°	8.4	8.4	8.4	8.4
69°	7.7	7.7	7.7	7.7
70°	7.7	7.7	7.7	7.7
72.5°	7.0	7.0	7.0	7.0
75°	6.3	7.0	7.0	7.0
77.5°	6.3	6.3	6.3	6.3
80°	5.6	5.6	6.3	6.3
82.5°	5.6	5.6	5.6	5.6
85°	4.9	4.9	5.6	5.6
87.5°	4.2	4.2	4.9	4.9
90°	0.0	0.0	0.0	0.0

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