

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: P181434

Luminaire Tested: **ICM-F02-LED-E1-T3**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181434
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33672)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-F02-LED-E1-T3
Description: ICON SITE MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3
Light Source: (14) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4736.5 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

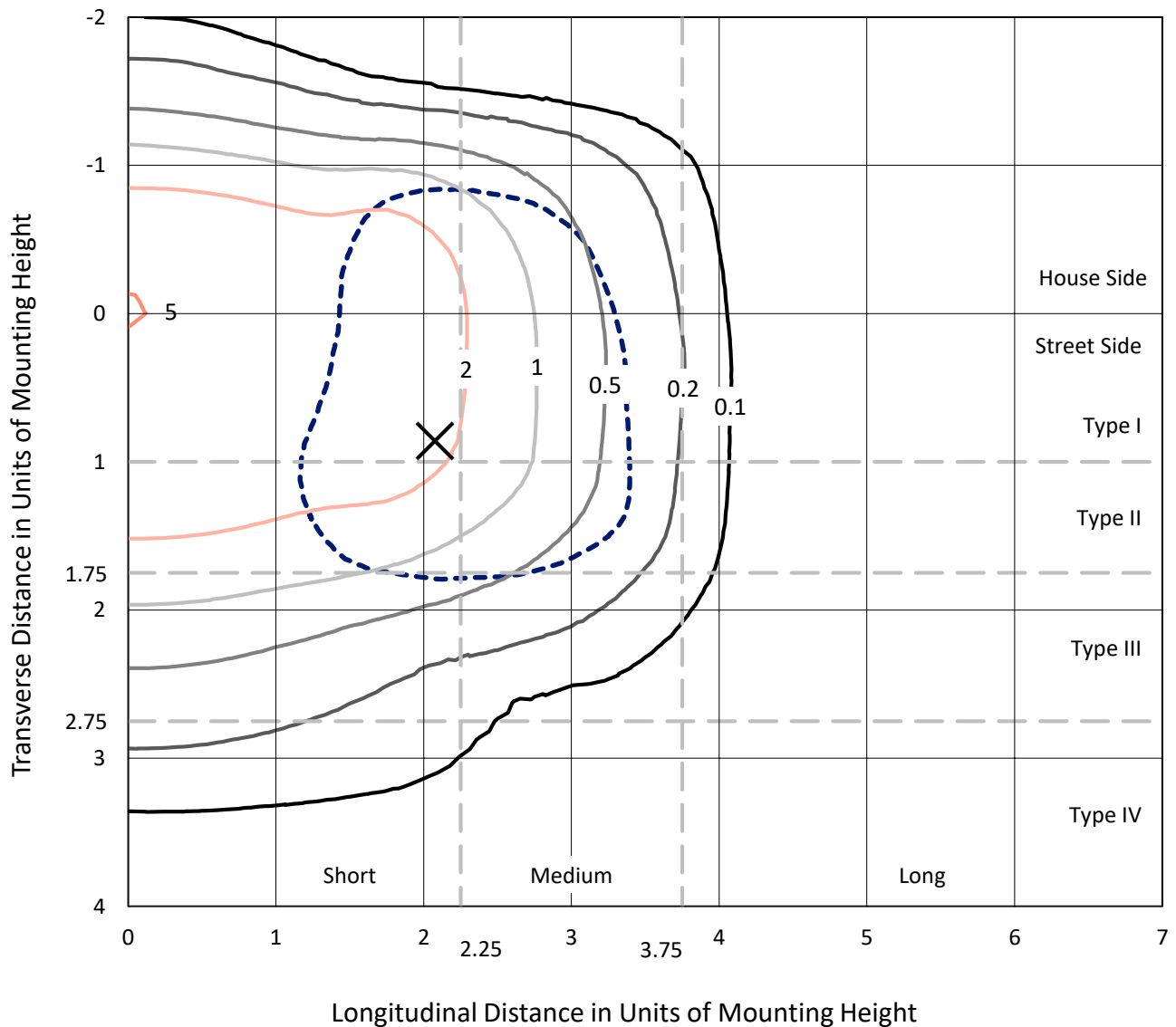
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

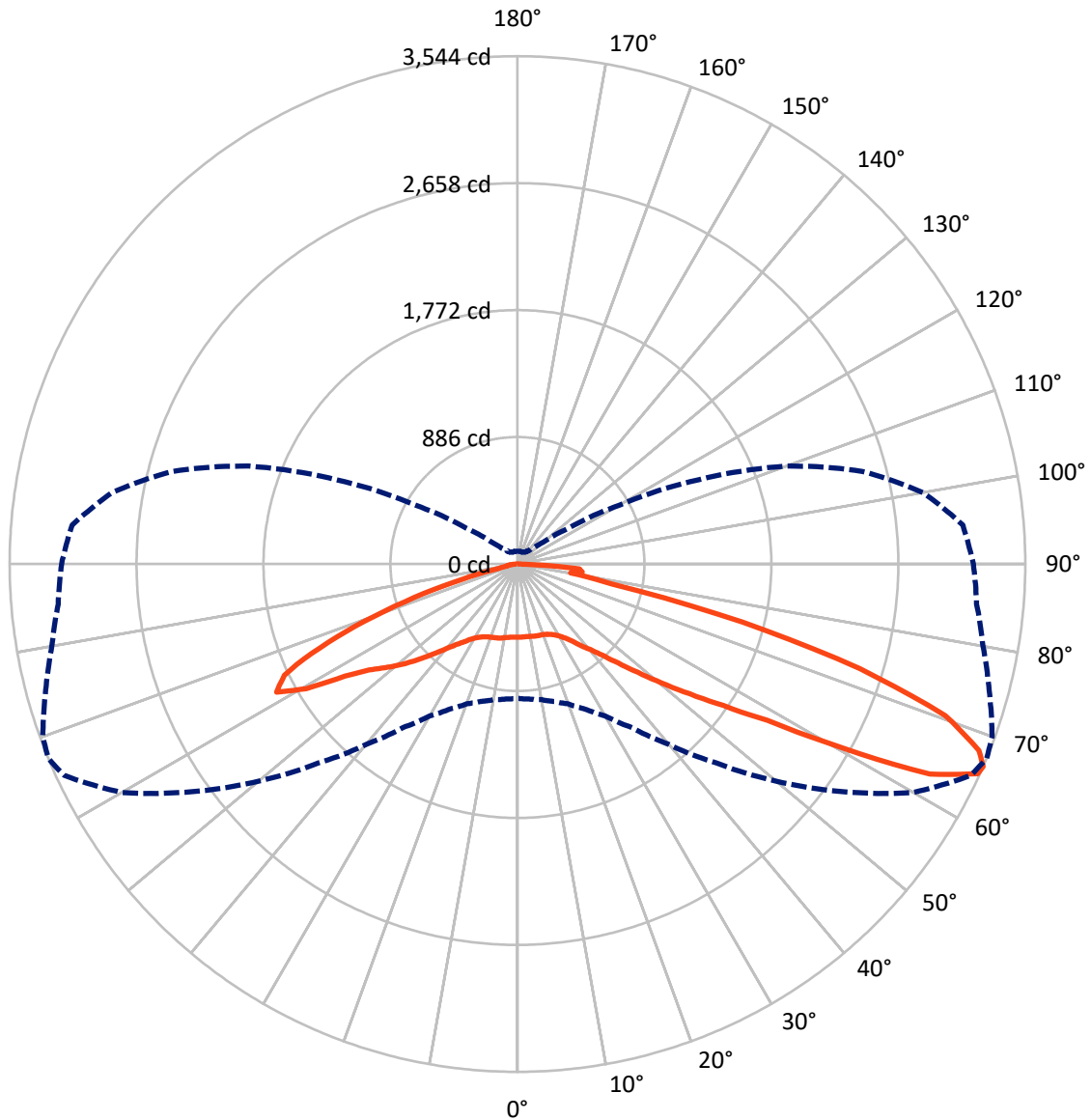
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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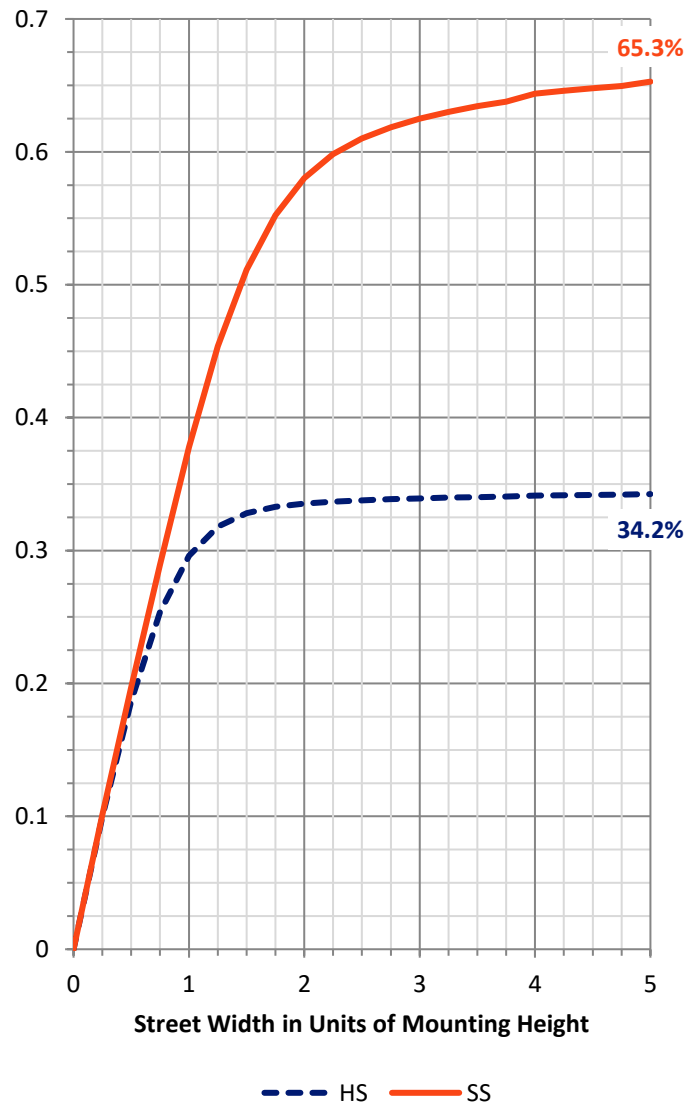
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1635.6	0.0	1635.6
	% Fixture	34.5	0.0	34.5
Street Side	Lumens	3100.8	0.0	3100.8
	% Fixture	65.5	0.0	65.5
Total	Lumens	4736.5	0.0	4736.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.9	1.0
10°-20°	144.3	3.0
20°-30°	248.0	5.2
30°-40°	402.6	8.5
40°-50°	672.2	14.2
50°-60°	1058.5	22.3
60°-70°	1443.3	30.5
70°-80°	624.8	13.2
80°-90°	93.9	2.0
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°	4736.5	100.0
0°-180°	4736.5	100.0



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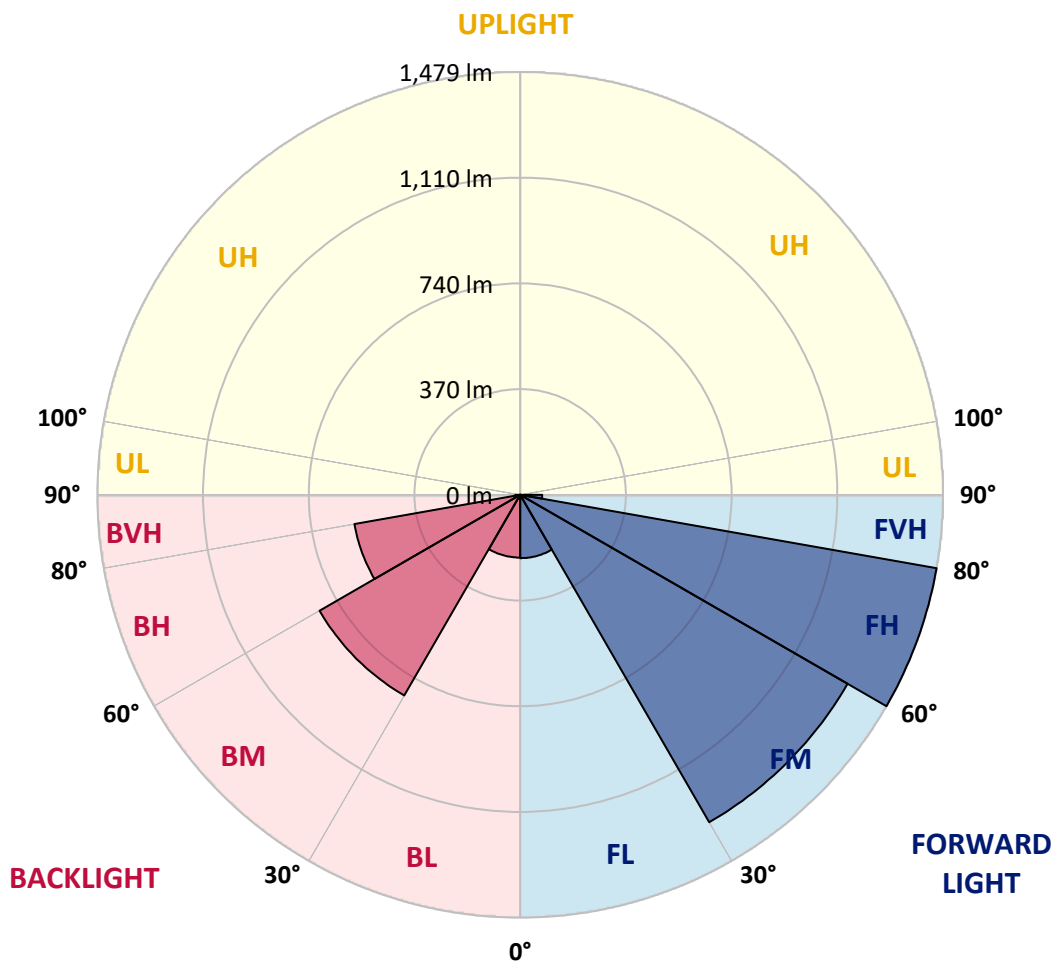
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	221.6	4.7			
FM	(30°-60°)	1322.7	27.9			
FH	(60°-80°)	1479.4	31.2			G1/1800
FVH	(80°-90°)	77.1	1.6			G1/100
BL	(0°-30°)	219.6	4.6	B1/500		
BM	(30°-60°)	810.5	17.1	B1/1000		
BH	(60°-80°)	588.8	12.4	B2/1000		G2/1000
BVH	(80°-90°)	16.8	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	510.4	510.4	510.4	510.4	510.4	510.4	510.4	510.4	510.4	510.4	510.4
2.5°	512.5	514.5	512.5	513.0	513.5	513.0	512.5	512.5	510.9	511.9	513.0
5°	510.4	511.9	511.4	511.9	512.5	511.9	511.4	511.9	510.9	511.4	513.0
7.5°	507.8	507.4	507.8	508.8	509.9	509.9	509.9	510.4	509.9	509.9	511.4
10°	500.2	500.7	501.7	503.3	503.7	505.3	505.3	506.8	507.4	508.4	510.4
12.5°	490.4	491.0	492.0	493.0	495.5	498.1	498.1	501.7	503.3	505.8	509.4
15°	483.3	483.8	484.8	485.9	487.9	490.4	492.0	496.1	498.6	503.3	508.4
17.5°	487.4	486.9	487.9	488.4	488.4	490.4	490.4	493.5	496.6	500.7	507.4
20°	499.2	499.2	500.2	500.2	499.6	500.7	498.6	498.6	499.2	501.2	505.8
22.5°	510.9	510.4	512.5	513.5	514.0	515.5	513.5	513.0	510.4	508.8	510.4
25°	522.2	521.7	524.3	525.8	528.4	529.9	529.9	529.9	527.8	525.3	523.7
27.5°	539.6	539.6	542.1	543.7	545.8	548.8	550.3	550.3	550.9	547.3	544.7
30°	568.7	569.3	569.8	571.8	573.9	574.9	576.9	578.5	580.0	578.0	573.9
32.5°	603.6	600.6	600.6	603.6	606.1	609.2	610.2	612.3	615.4	613.9	613.3
35°	645.0	644.0	643.0	644.0	647.1	650.7	654.8	658.4	656.3	659.4	657.9
37.5°	706.5	707.5	708.0	708.0	707.5	708.6	710.6	714.1	713.1	714.1	716.2
40°	807.9	804.3	800.7	801.2	796.1	797.1	788.9	792.5	793.0	789.4	791.0
42.5°	909.2	911.3	912.8	916.9	913.3	911.3	903.6	903.6	899.5	895.9	894.9
45°	1018.8	1022.9	1023.4	1031.6	1028.6	1035.2	1040.8	1039.3	1032.7	1032.1	1024.9
47.5°	1106.3	1113.0	1120.2	1129.9	1137.6	1152.4	1169.8	1178.5	1183.6	1187.7	1179.5
50°	1171.9	1175.0	1193.4	1208.8	1225.6	1250.2	1274.2	1305.5	1330.6	1342.3	1353.6
52.5°	1207.2	1214.9	1234.8	1258.9	1288.6	1325.5	1364.4	1414.1	1457.0	1485.7	1511.3
55°	1214.9	1222.5	1245.1	1275.8	1316.2	1365.9	1421.7	1489.3	1553.8	1609.0	1662.8
57.5°	1193.4	1202.1	1226.1	1261.5	1309.0	1369.5	1439.6	1528.2	1617.3	1706.9	1786.2
60°	1154.0	1164.7	1186.7	1221.5	1274.2	1342.3	1426.3	1537.4	1662.3	1799.5	1951.5
62.5°	1088.9	1100.2	1120.7	1159.1	1213.3	1288.6	1385.9	1524.1	1700.8	1916.8	2186.5
65°	984.5	989.6	1014.7	1053.6	1101.8	1184.7	1291.6	1458.5	1688.5	1988.9	2360.7
66°	937.4	946.1	961.5	992.7	1038.8	1116.6	1224.1	1393.6	1641.9	1963.8	2356.0
67.5°	863.6	870.3	880.6	901.6	929.7	987.1	1088.9	1249.2	1499.5	1836.9	2258.2
70°	698.3	701.4	715.2	722.3	732.1	751.1	787.9	880.1	1075.1	1392.0	1822.5
72.5°	476.1	484.8	499.6	520.2	546.8	572.4	589.8	601.6	643.5	830.4	1214.3
75°	349.1	358.3	377.3	404.5	451.1	504.3	559.5	585.1	567.7	543.7	676.3
77.5°	202.7	215.0	230.9	257.0	300.0	370.7	465.4	549.3	606.1	609.8	579.0
80°	85.5	87.1	96.7	110.0	136.7	186.3	260.1	380.9	506.8	591.8	611.8
82.5°	19.4	24.1	30.7	36.4	44.6	61.4	91.2	151.5	273.9	429.5	560.1
85°	7.2	7.2	9.8	14.3	16.4	18.4	24.1	38.4	65.5	120.8	251.9
87.5°	0.0	0.6	1.0	1.0	2.0	2.6	4.1	5.7	5.1	4.7	15.3
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°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	510.4	510.4	510.4	510.4	510.4	510.4	510.4	510.4	510.4	510.4	510.4
2.5°	511.9	511.4	510.4	510.4	510.4	510.4	509.4	509.9	508.8	509.4	509.4
5°	511.4	511.4	510.9	509.9	510.4	510.4	510.9	509.9	509.9	510.4	509.9
7.5°	511.4	510.9	510.9	510.9	511.4	510.9	511.4	511.4	511.4	511.9	511.9
10°	511.4	511.4	512.5	513.0	513.0	513.5	515.1	515.1	515.5	516.1	517.1
12.5°	511.9	514.0	515.5	517.1	517.6	518.6	521.2	521.2	522.2	523.7	524.3
15°	512.5	515.5	518.6	519.6	520.7	522.7	525.3	526.3	527.8	529.4	530.4
17.5°	511.9	516.1	519.6	521.2	522.7	525.3	528.4	529.4	531.4	533.5	535.5
20°	511.4	517.1	522.7	524.7	526.8	530.4	534.5	537.0	539.1	542.1	544.2
22.5°	514.5	521.2	528.8	531.9	535.5	540.1	545.8	548.8	551.4	554.4	556.0
25°	524.3	529.4	538.6	543.7	548.3	556.0	563.6	567.3	570.3	572.8	573.4
27.5°	540.7	542.1	553.4	560.1	566.7	579.0	588.3	590.8	596.5	598.5	598.0
30°	567.3	564.7	573.9	584.1	593.9	610.8	622.1	628.7	633.8	633.8	629.7
32.5°	605.7	601.6	604.1	615.9	627.2	651.7	665.0	673.8	677.3	676.3	667.6
35°	655.8	653.2	651.7	660.9	678.9	707.5	724.9	729.5	735.2	734.1	722.9
37.5°	715.2	713.1	713.1	723.9	741.3	783.8	802.7	805.9	805.3	797.1	776.1
40°	785.3	784.3	779.7	785.9	800.7	856.0	881.6	885.7	880.1	866.7	842.1
42.5°	886.2	880.1	865.7	869.3	880.6	934.3	967.6	978.9	973.2	959.9	920.0
45°	1017.8	1011.1	987.1	984.0	990.1	1037.2	1080.2	1082.8	1081.8	1064.8	1017.8
47.5°	1172.4	1162.1	1136.6	1128.4	1126.3	1169.8	1211.3	1215.4	1212.8	1187.7	1124.8
50°	1339.8	1324.9	1308.0	1302.4	1294.2	1325.5	1367.5	1367.9	1357.7	1322.9	1264.0
52.5°	1518.4	1513.3	1510.2	1504.7	1501.0	1528.2	1553.8	1538.4	1523.1	1486.7	1435.5
55°	1698.7	1719.6	1741.1	1743.2	1749.3	1778.5	1778.1	1736.0	1724.8	1704.8	1654.1
57.5°	1890.2	1967.9	2035.5	2056.6	2077.0	2131.3	2126.2	2084.7	2070.3	2045.8	2003.8
60°	2150.7	2360.7	2555.6	2602.2	2634.5	2699.6	2693.4	2629.4	2659.1	2657.0	2602.8
62.5°	2515.7	2864.9	3157.2	3228.9	3251.5	3258.6	3219.7	3150.6	3179.7	3212.5	3045.6
65°	2763.0	3173.6	3473.6	3529.0	3532.0	3446.5	3359.9	3278.5	3271.4	3243.3	3004.7
66°	2768.7	3188.9	3490.0	3543.7	3524.9	3408.1	3298.5	3216.6	3181.3	3119.4	2872.1
67.5°	2669.3	3093.2	3417.3	3474.2	3432.7	3267.3	3116.3	3010.8	2941.7	2841.3	2623.3
70°	2241.9	2662.2	3061.5	3167.5	3180.8	2934.1	2724.7	2600.8	2507.6	2369.9	2182.0
72.5°	1666.9	2046.8	2399.0	2500.4	2552.1	2355.0	2178.3	2084.2	1956.7	1811.8	1678.1
75°	1044.9	1313.1	1549.2	1620.4	1571.7	1419.2	1313.1	1273.8	1148.3	1061.8	1000.8
77.5°	597.5	681.4	700.4	673.2	615.9	471.5	335.4	248.3	215.5	238.6	263.2
80°	583.1	534.5	426.0	374.8	339.4	233.5	137.2	94.2	78.3	80.4	87.1
82.5°	631.7	677.9	558.0	455.2	382.0	258.0	142.3	75.8	51.2	60.4	68.1
85°	410.6	571.4	514.5	433.6	351.2	220.7	117.2	39.4	26.1	34.3	47.1
87.5°	41.5	45.6	38.9	52.7	39.4	18.4	9.2	5.7	5.1	6.1	9.2
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	510.4	510.4	510.4	510.4	510.4	510.4	510.4	510.4	510.4	510.4	510.4
2.5°	509.9	509.9	510.4	510.9	511.4	511.9	511.9	511.9	511.9	513.0	512.5
5°	510.9	511.9	513.0	513.5	514.5	514.5	516.1	515.5	515.5	517.1	517.6
7.5°	513.0	514.5	516.6	516.1	518.1	517.6	518.6	518.6	517.1	517.6	516.6
10°	517.6	519.6	520.7	519.2	519.6	517.6	517.1	514.5	511.4	509.9	507.8
12.5°	525.3	527.4	527.4	524.7	521.7	517.1	513.5	507.8	503.3	500.7	498.1
15°	531.9	534.0	533.5	529.4	524.7	517.6	512.5	505.8	499.2	495.1	492.5
17.5°	537.0	538.0	536.6	530.9	525.8	519.2	514.0	506.8	499.2	494.0	489.4
20°	544.7	543.7	540.1	532.9	527.4	521.2	517.1	510.9	502.2	495.5	488.9
22.5°	556.0	551.9	545.2	537.6	531.9	526.3	522.2	515.5	506.8	498.6	491.0
25°	570.8	562.6	553.4	545.2	540.1	534.0	529.4	522.2	513.0	503.7	494.5
27.5°	592.4	578.0	566.2	559.1	553.4	545.8	540.1	530.9	521.2	510.4	500.2
30°	616.4	596.9	585.7	580.0	573.9	565.7	557.0	545.2	534.0	522.2	509.9
32.5°	647.6	624.1	613.3	607.7	599.5	589.3	579.0	565.7	549.9	534.5	519.6
35°	688.6	664.6	653.2	644.6	633.3	620.0	605.1	587.3	565.7	545.2	526.3
37.5°	732.7	706.5	695.7	686.5	669.7	652.2	631.3	605.1	575.9	548.8	525.3
40°	788.4	764.4	750.5	734.7	714.7	684.5	651.7	613.9	576.5	543.2	515.5
42.5°	859.1	835.0	814.5	789.4	754.6	708.0	661.5	612.3	567.3	529.4	499.6
45°	952.8	923.5	888.3	844.2	787.9	722.9	662.0	602.6	549.9	507.8	476.1
47.5°	1067.4	1022.9	965.0	890.8	810.0	727.0	653.8	583.1	522.7	477.1	441.9
50°	1203.6	1133.5	1038.2	929.2	821.2	720.8	633.3	554.0	484.3	435.6	393.7
52.5°	1359.3	1244.6	1104.3	956.8	820.7	700.4	598.5	509.9	434.1	379.9	339.9
55°	1542.1	1371.5	1172.4	977.3	806.3	662.5	545.2	448.0	372.2	322.0	285.1
57.5°	1809.8	1577.3	1291.2	1009.0	777.7	604.1	473.0	373.8	307.2	259.5	228.4
60°	2299.2	1920.8	1505.1	1073.0	733.7	518.6	388.6	294.4	238.6	200.2	179.2
62.5°	2667.8	2186.5	1620.8	1058.7	645.0	413.1	288.2	214.5	175.6	149.5	136.2
65°	2615.1	2104.1	1497.5	911.8	505.8	291.3	191.4	145.9	120.8	108.6	100.8
66°	2495.8	1996.7	1390.5	820.7	437.2	242.1	157.7	122.3	103.9	95.3	90.1
67.5°	2269.5	1796.9	1199.0	672.7	335.8	175.6	118.8	96.7	84.5	80.9	77.3
70°	1886.5	1432.9	841.7	391.6	171.5	97.8	75.3	67.5	64.5	64.0	63.0
72.5°	1445.8	1014.1	495.5	185.3	89.1	65.0	58.3	55.8	54.8	54.8	55.3
75°	886.2	569.8	219.1	90.6	62.4	54.8	51.7	50.7	50.1	50.7	50.1
77.5°	295.9	181.2	93.7	68.6	56.8	50.7	48.7	47.6	47.6	47.6	47.6
80°	90.6	78.9	71.6	63.4	53.8	48.1	45.0	44.6	45.0	45.6	44.0
82.5°	68.1	64.5	60.4	56.3	48.7	43.0	42.0	42.0	42.0	40.5	38.4
85°	50.1	49.7	40.9	38.4	35.8	35.8	35.8	35.8	34.3	31.7	29.7
87.5°	9.2	8.7	9.2	9.8	14.3	15.3	15.3	16.4	18.0	16.9	16.9
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):

	160°	165°	170°	175°	180°
0°	510.4	510.4	510.4	510.4	510.4
2.5°	512.5	511.9	513.5	512.5	513.0
5°	517.1	516.6	517.6	516.6	518.1
7.5°	515.5	514.5	514.0	514.5	515.1
10°	504.7	503.7	503.3	502.7	503.3
12.5°	495.5	493.5	493.5	492.5	493.0
15°	488.9	487.4	486.9	485.9	486.3
17.5°	485.9	483.3	482.2	481.2	481.2
20°	483.8	480.7	479.2	478.1	477.7
22.5°	483.8	479.2	477.1	476.1	475.6
25°	485.9	480.2	477.1	475.6	475.1
27.5°	490.0	482.8	479.2	477.1	477.1
30°	497.1	487.9	482.8	480.2	479.7
32.5°	504.3	492.0	484.8	481.8	480.7
35°	507.8	492.0	483.3	478.1	477.1
37.5°	503.7	485.3	474.6	466.9	465.4
40°	491.0	471.5	459.7	452.6	451.5
42.5°	474.0	455.2	441.3	436.2	434.6
45°	451.1	428.5	414.7	407.5	408.0
47.5°	411.6	388.6	376.3	369.7	370.7
50°	365.0	342.5	331.7	324.6	326.1
52.5°	313.9	293.4	283.1	279.5	278.5
55°	260.1	244.2	237.0	232.9	231.4
57.5°	210.9	199.6	194.5	189.4	190.0
60°	166.4	160.7	159.3	153.6	153.1
62.5°	131.1	127.4	126.0	121.9	122.3
65°	99.3	98.3	99.3	96.7	97.8
66°	89.6	90.1	90.1	88.6	89.6
67.5°	77.3	78.3	79.9	78.3	79.3
70°	64.0	65.0	66.0	66.0	66.0
72.5°	55.8	56.8	57.3	57.3	57.3
75°	51.2	51.7	52.2	51.2	51.2
77.5°	48.1	48.1	47.1	46.6	46.0
80°	43.5	43.0	41.5	40.5	40.5
82.5°	36.4	35.3	34.3	32.7	32.7
85°	27.6	26.6	25.6	23.5	22.5
87.5°	14.3	14.9	14.3	11.8	10.2
90°	0.0	0.0	0.0	0.0	0.0

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