

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: P181492

Luminaire Tested: **ICS-F02-LED-E1-T3-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181492
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: ICS-F02-LED-E1-T3-8030
Description: ICON SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3
Light Source: (14) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3867.8 lumens
Efficiency: N/A
Efficacy: 70.3 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: B1 - U0 - G1

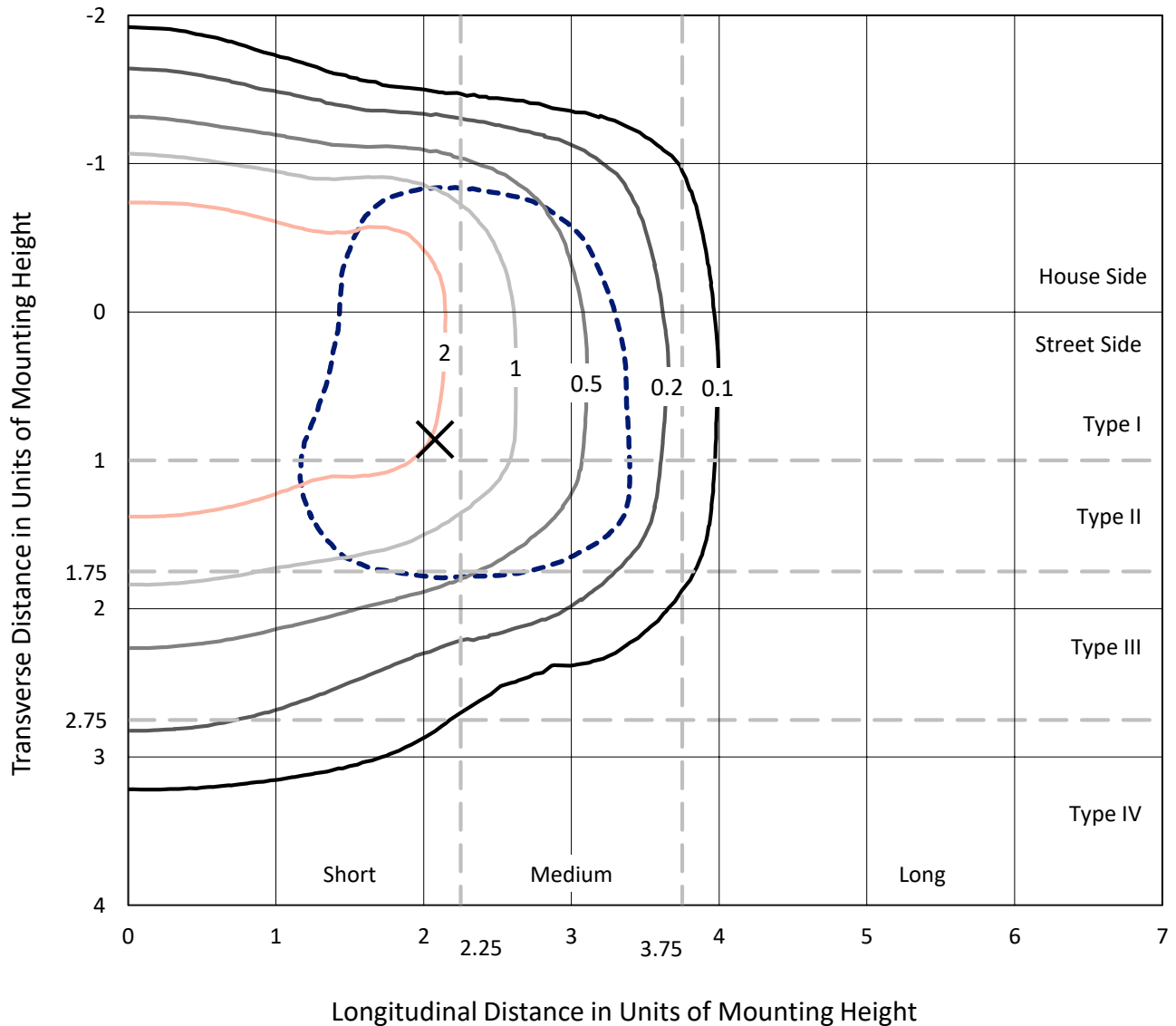
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

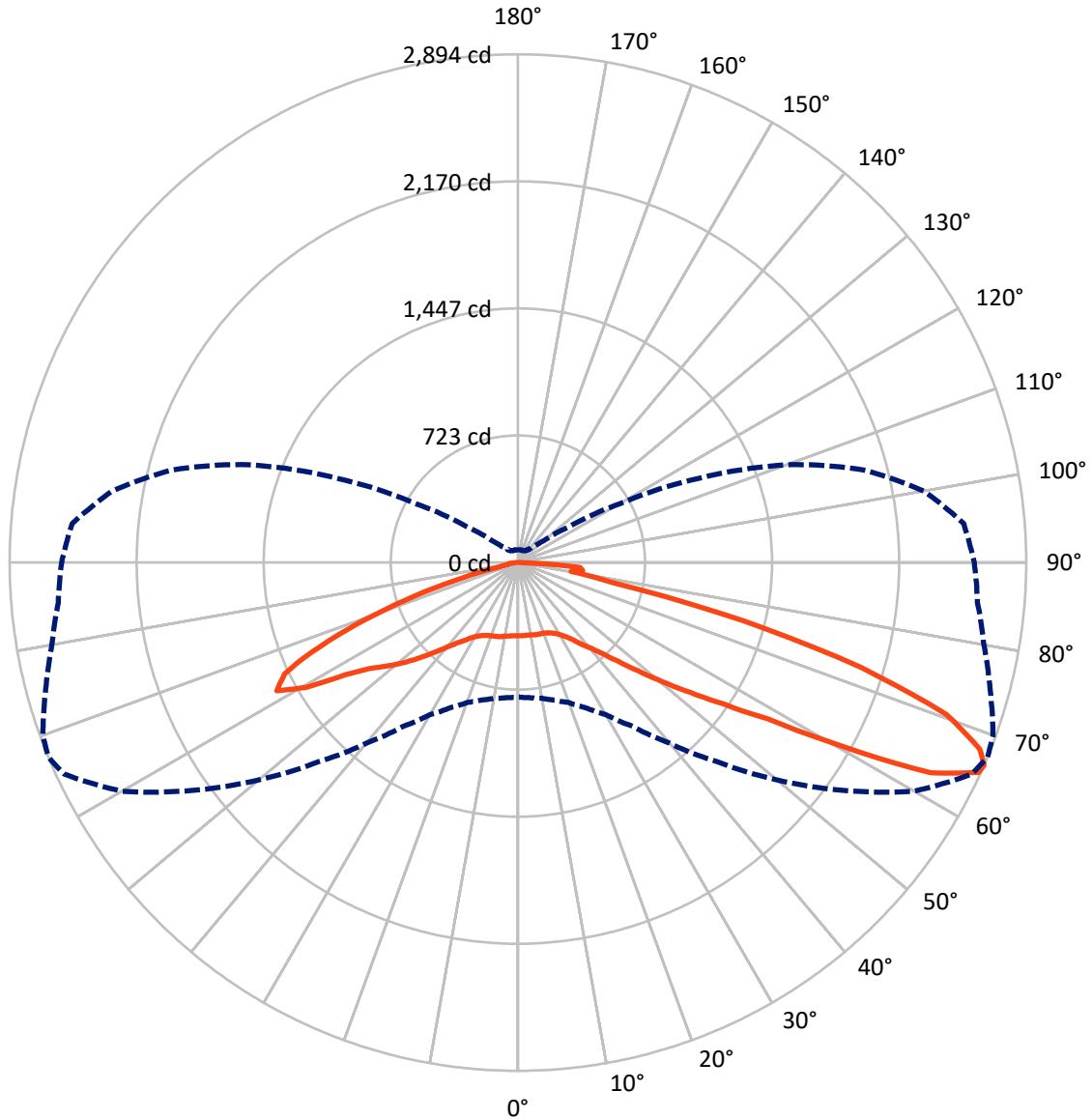
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.2 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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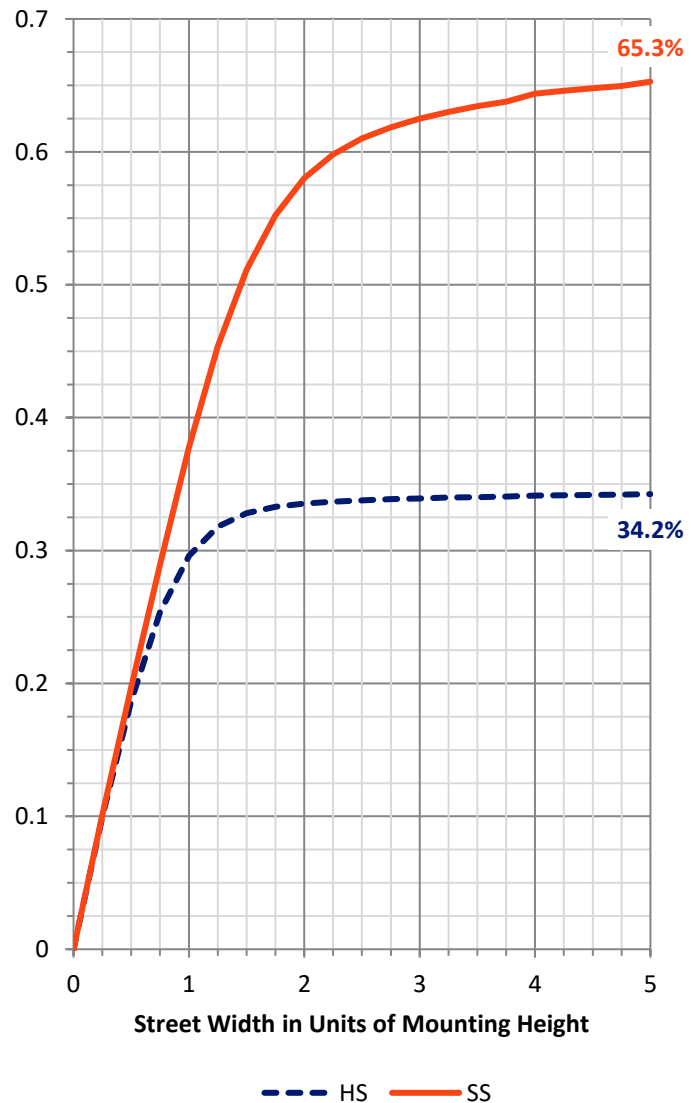
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1335.7	0.0	1335.7
	% Fixture	34.5	0.0	34.5
Street Side	Lumens	2532.2	0.0	2532.2
	% Fixture	65.5	0.0	65.5
Total	Lumens	3867.8	0.0	3867.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.9	1.0
10°-20°	117.8	3.0
20°-30°	202.5	5.2
30°-40°	328.8	8.5
40°-50°	548.9	14.2
50°-60°	864.3	22.3
60°-70°	1178.6	30.5
70°-80°	510.2	13.2
80°-90°	76.7	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°	3867.8	100.0
0°-180°	3867.8	100.0



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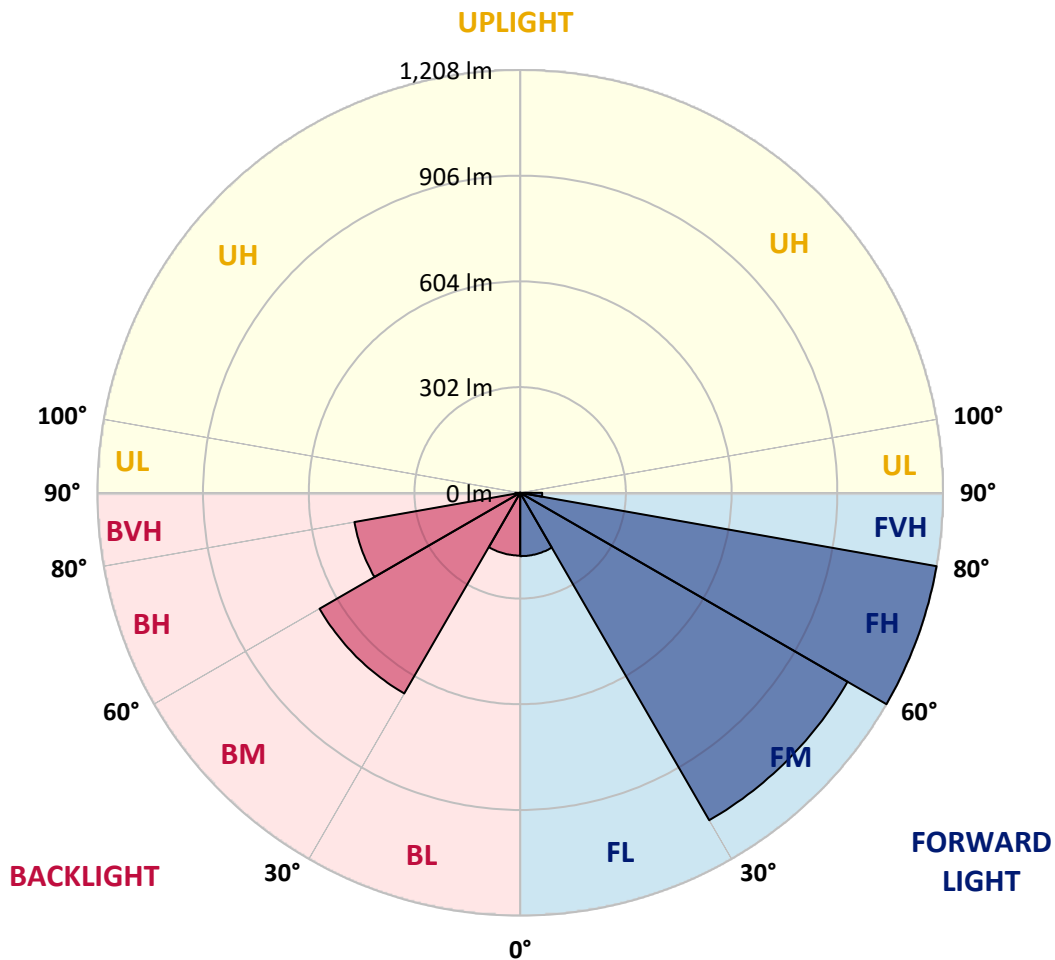
CATALOG NUMBER: ICS-F02-LED-E1-T3-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	180.9	4.7			
FM	(30°-60°)	1080.2	27.9			
FH	(60°-80°)	1208.1	31.2			G1/1800
FVH	(80°-90°)	63.0	1.6			G1/100
BL	(0°-30°)	179.3	4.6	B1/500		
BM	(30°-60°)	661.9	17.1	B1/1000		
BH	(60°-80°)	480.8	12.4	B1/500		G1/500
BVH	(80°-90°)	13.7	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	416.8	416.8	416.8	416.8	416.8	416.8	416.8	416.8	416.8	416.8	416.8
2.5°	418.5	420.2	418.5	418.9	419.3	418.9	418.5	418.5	417.2	418.1	418.9
5°	416.8	418.1	417.6	418.1	418.5	418.1	417.6	418.1	417.2	417.6	418.9
7.5°	414.7	414.3	414.7	415.6	416.4	416.4	416.4	416.8	416.4	416.4	417.6
10°	408.4	408.9	409.7	411.0	411.4	412.6	412.6	413.9	414.3	415.1	416.8
12.5°	400.5	400.9	401.8	402.6	404.7	406.8	406.8	409.7	411.0	413.0	416.0
15°	394.7	395.1	395.9	396.7	398.4	400.5	401.8	405.1	407.2	411.0	415.1
17.5°	398.0	397.6	398.4	398.8	398.8	400.5	400.5	403.0	405.5	408.9	414.3
20°	407.6	407.6	408.4	408.4	408.0	408.9	407.2	407.2	407.6	409.3	413.0
22.5°	417.2	416.8	418.5	419.3	419.7	421.0	419.3	418.9	416.8	415.6	416.8
25°	426.4	426.0	428.1	429.4	431.4	432.7	432.7	432.7	431.0	428.9	427.7
27.5°	440.6	440.6	442.7	444.0	445.7	448.2	449.4	449.4	449.8	446.9	444.8
30°	464.5	464.9	465.3	467.0	468.6	469.5	471.2	472.4	473.7	472.0	468.6
32.5°	492.9	490.4	490.4	492.9	495.0	497.5	498.3	500.0	502.5	501.3	500.8
35°	526.8	525.9	525.1	525.9	528.4	531.4	534.7	537.6	536.0	538.5	537.2
37.5°	576.9	577.8	578.2	578.2	577.8	578.6	580.3	583.2	582.4	583.2	584.9
40°	659.7	656.8	653.9	654.3	650.1	650.9	644.2	647.2	647.6	644.7	645.9
42.5°	742.5	744.2	745.4	748.8	745.8	744.2	737.9	737.9	734.5	731.6	730.8
45°	831.9	835.3	835.7	842.4	839.9	845.3	849.9	848.7	843.2	842.8	837.0
47.5°	903.4	908.9	914.7	922.7	928.9	941.1	955.3	962.4	966.6	969.9	963.2
50°	956.9	959.5	974.5	987.0	1000.8	1020.9	1040.6	1066.1	1086.5	1096.2	1105.4
52.5°	985.8	992.1	1008.4	1028.0	1052.3	1082.4	1114.1	1154.7	1189.8	1213.2	1234.1
55°	992.1	998.3	1016.7	1041.8	1074.8	1115.4	1161.0	1216.1	1268.8	1314.0	1357.9
57.5°	974.5	981.6	1001.3	1030.1	1069.0	1118.3	1175.6	1247.9	1320.7	1393.8	1458.6
60°	942.3	951.1	969.1	997.5	1040.6	1096.2	1164.7	1255.4	1357.5	1469.5	1593.7
62.5°	889.2	898.4	915.1	946.5	990.8	1052.3	1131.7	1244.6	1388.8	1565.2	1785.6
65°	803.9	808.1	828.6	860.4	899.7	967.4	1054.8	1191.1	1378.8	1624.2	1927.7
66°	765.5	772.6	785.1	810.6	848.3	911.8	999.6	1138.0	1340.7	1603.7	1923.9
67.5°	705.3	710.7	719.1	736.2	759.2	806.0	889.2	1020.1	1224.5	1500.0	1844.1
70°	570.2	572.7	584.0	589.9	597.8	613.3	643.4	718.7	877.9	1136.7	1488.3
72.5°	388.8	395.9	408.0	424.8	446.5	467.4	481.6	491.2	525.5	678.1	991.6
75°	285.1	292.6	308.1	330.3	368.3	411.8	456.9	477.8	463.6	444.0	552.3
77.5°	165.6	175.6	188.5	209.9	245.0	302.7	380.0	448.6	495.0	497.9	472.8
80°	69.8	71.1	79.0	89.9	111.6	152.2	212.4	311.0	413.9	483.3	499.6
82.5°	15.9	19.6	25.1	29.7	36.4	50.2	74.4	123.7	223.7	350.8	457.4
85°	5.9	5.9	7.9	11.7	13.4	15.1	19.6	31.4	53.5	98.7	205.7
87.5°	0.0	0.4	0.8	0.8	1.7	2.1	3.3	4.6	4.2	3.8	12.5
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°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	416.8	416.8	416.8	416.8	416.8	416.8	416.8	416.8	416.8	416.8	416.8
2.5°	418.1	417.6	416.8	416.8	416.8	416.8	416.0	416.4	415.6	416.0	416.0
5°	417.6	417.6	417.2	416.4	416.8	416.8	417.2	416.4	416.4	416.8	416.4
7.5°	417.6	417.2	417.2	417.2	417.6	417.2	417.6	417.6	417.6	418.1	418.1
10°	417.6	417.6	418.5	418.9	418.9	419.3	420.6	420.6	421.0	421.4	422.2
12.5°	418.1	419.7	421.0	422.2	422.7	423.5	425.6	425.6	426.4	427.7	428.1
15°	418.5	421.0	423.5	424.3	425.2	426.8	428.9	429.8	431.0	432.3	433.1
17.5°	418.1	421.4	424.3	425.6	426.8	428.9	431.4	432.3	434.0	435.6	437.3
20°	417.6	422.2	426.8	428.5	430.2	433.1	436.5	438.5	440.2	442.7	444.4
22.5°	420.2	425.6	431.9	434.4	437.3	441.1	445.7	448.2	450.3	452.8	454.0
25°	428.1	432.3	439.8	444.0	447.7	454.0	460.3	463.2	465.7	467.8	468.2
27.5°	441.5	442.7	451.9	457.4	462.8	472.8	480.4	482.4	487.0	488.7	488.3
30°	463.2	461.1	468.6	477.0	485.0	498.8	507.9	513.4	517.6	517.6	514.2
32.5°	494.6	491.2	493.3	502.9	512.1	532.2	543.1	550.2	553.1	552.3	545.2
35°	535.5	533.4	532.2	539.7	554.4	577.8	592.0	595.7	600.3	599.5	590.3
37.5°	584.0	582.4	582.4	591.1	605.4	640.1	655.5	658.0	657.6	650.9	633.8
40°	641.3	640.5	636.7	641.7	653.9	699.0	719.9	723.3	718.7	707.8	687.7
42.5°	723.7	718.7	706.9	709.9	719.1	763.0	790.1	799.3	794.7	783.9	751.3
45°	831.1	825.7	806.0	803.5	808.5	847.0	882.1	884.2	883.4	869.6	831.1
47.5°	957.4	949.0	928.1	921.4	919.7	955.3	989.1	992.5	990.4	969.9	918.5
50°	1094.1	1081.9	1068.2	1063.6	1056.9	1082.4	1116.6	1117.1	1108.7	1080.3	1032.2
52.5°	1240.0	1235.8	1233.3	1228.7	1225.8	1247.9	1268.8	1256.3	1243.7	1214.1	1172.3
55°	1387.1	1404.3	1421.8	1423.5	1428.5	1452.4	1451.9	1417.7	1408.5	1392.2	1350.8
57.5°	1543.5	1607.0	1662.2	1679.4	1696.1	1740.4	1736.2	1702.4	1690.7	1670.6	1636.3
60°	1756.3	1927.7	2087.0	2125.0	2151.4	2204.5	2199.4	2147.2	2171.4	2169.8	2125.4
62.5°	2054.4	2339.5	2578.2	2636.7	2655.1	2661.0	2629.2	2572.8	2596.6	2623.4	2487.1
65°	2256.3	2591.6	2836.6	2881.7	2884.2	2814.4	2743.8	2677.3	2671.4	2648.4	2453.6
66°	2260.9	2604.1	2849.9	2893.8	2878.4	2783.1	2693.6	2626.7	2597.9	2547.3	2345.3
67.5°	2179.8	2525.9	2790.6	2837.0	2803.1	2668.1	2544.8	2458.6	2402.2	2320.3	2142.2
70°	1830.7	2173.9	2500.0	2586.6	2597.4	2395.9	2224.9	2123.8	2047.7	1935.2	1781.8
72.5°	1361.2	1671.4	1959.0	2041.8	2084.0	1923.1	1778.9	1701.9	1597.8	1479.5	1370.4
75°	853.3	1072.3	1265.1	1323.2	1283.5	1158.9	1072.3	1040.1	937.7	867.1	817.3
77.5°	487.9	556.4	571.9	549.8	502.9	385.0	273.8	202.8	176.0	194.8	214.9
80°	476.2	436.5	347.8	306.0	277.2	190.6	112.0	76.9	64.0	65.6	71.1
82.5°	515.9	553.5	455.7	371.7	311.9	210.7	116.2	61.9	41.8	49.3	55.6
85°	335.3	466.6	420.2	354.1	286.8	180.2	95.7	32.2	21.3	28.0	38.5
87.5°	33.9	37.2	31.8	43.1	32.2	15.1	7.5	4.6	4.2	5.0	7.5
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	416.8	416.8	416.8	416.8	416.8	416.8	416.8	416.8	416.8	416.8	416.8
2.5°	416.4	416.4	416.8	417.2	417.6	418.1	418.1	418.1	418.1	418.9	418.5
5°	417.2	418.1	418.9	419.3	420.2	420.2	421.4	421.0	421.0	422.2	422.7
7.5°	418.9	420.2	421.8	421.4	423.1	422.7	423.5	423.5	422.2	422.7	421.8
10°	422.7	424.3	425.2	423.9	424.3	422.7	422.2	420.2	417.6	416.4	414.7
12.5°	428.9	430.6	430.6	428.5	426.0	422.2	419.3	414.7	411.0	408.9	406.8
15°	434.4	436.0	435.6	432.3	428.5	422.7	418.5	413.0	407.6	404.3	402.2
17.5°	438.5	439.4	438.1	433.5	429.4	423.9	419.7	413.9	407.6	403.4	399.7
20°	444.8	444.0	441.1	435.2	430.6	425.6	422.2	417.2	410.1	404.7	399.3
22.5°	454.0	450.7	445.2	439.0	434.4	429.8	426.4	421.0	413.9	407.2	400.9
25°	466.1	459.5	451.9	445.2	441.1	436.0	432.3	426.4	418.9	411.4	403.8
27.5°	483.7	472.0	462.4	456.5	451.9	445.7	441.1	433.5	425.6	416.8	408.4
30°	503.3	487.5	478.3	473.7	468.6	462.0	454.9	445.2	436.0	426.4	416.4
32.5°	528.9	509.6	500.8	496.2	489.6	481.2	472.8	462.0	449.0	436.5	424.3
35°	562.3	542.6	533.4	526.3	517.1	506.3	494.2	479.5	462.0	445.2	429.8
37.5°	598.2	576.9	568.1	560.6	546.8	532.6	515.5	494.2	470.3	448.2	428.9
40°	643.8	624.2	612.9	599.9	583.6	559.0	532.2	501.3	470.7	443.6	421.0
42.5°	701.5	681.9	665.1	644.7	616.2	578.2	540.1	500.0	463.2	432.3	408.0
45°	778.0	754.2	725.3	689.4	643.4	590.3	540.6	492.1	449.0	414.7	388.8
47.5°	871.7	835.3	788.1	727.4	661.4	593.7	533.9	476.2	426.8	389.6	360.8
50°	982.9	925.6	847.8	758.8	670.6	588.6	517.1	452.3	395.5	355.8	321.5
52.5°	1110.0	1016.3	901.8	781.4	670.2	571.9	488.7	416.4	354.5	310.2	277.6
55°	1259.2	1120.0	957.4	798.1	658.5	541.0	445.2	365.8	303.9	263.0	232.9
57.5°	1477.9	1288.1	1054.4	824.0	635.0	493.3	386.3	305.2	250.8	212.0	186.5
60°	1877.5	1568.6	1229.1	876.3	599.1	423.5	317.3	240.4	194.8	163.5	146.3
62.5°	2178.5	1785.6	1323.6	864.6	526.8	337.4	235.4	175.2	143.4	122.1	111.2
65°	2135.5	1718.2	1222.8	744.6	413.0	237.9	156.4	119.1	98.7	88.6	82.4
66°	2038.1	1630.4	1135.5	670.2	357.0	197.7	128.8	99.9	84.9	77.8	73.6
67.5°	1853.3	1467.4	979.1	549.3	274.3	143.4	97.0	79.0	69.0	66.1	63.1
70°	1540.6	1170.2	687.3	319.8	140.1	79.9	61.5	55.2	52.7	52.3	51.4
72.5°	1180.6	828.2	404.7	151.3	72.7	53.1	47.7	45.6	44.7	44.7	45.2
75°	723.7	465.3	178.9	74.0	51.0	44.7	42.2	41.4	41.0	41.4	41.0
77.5°	241.6	148.0	76.5	56.0	46.4	41.4	39.7	38.9	38.9	38.9	38.9
80°	74.0	64.4	58.5	51.8	43.9	39.3	36.8	36.4	36.8	37.2	36.0
82.5°	55.6	52.7	49.3	46.0	39.7	35.1	34.3	34.3	34.3	33.0	31.4
85°	41.0	40.6	33.4	31.4	29.3	29.3	29.3	29.3	28.0	25.9	24.2
87.5°	7.5	7.1	7.5	7.9	11.7	12.5	12.5	13.4	14.6	13.8	13.8
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°	416.8	416.8	416.8	416.8	416.8
2.5°	418.5	418.1	419.3	418.5	418.9
5°	422.2	421.8	422.7	421.8	423.1
7.5°	421.0	420.2	419.7	420.2	420.6
10°	412.2	411.4	411.0	410.5	411.0
12.5°	404.7	403.0	403.0	402.2	402.6
15°	399.3	398.0	397.6	396.7	397.2
17.5°	396.7	394.7	393.8	393.0	393.0
20°	395.1	392.6	391.3	390.5	390.1
22.5°	395.1	391.3	389.6	388.8	388.4
25°	396.7	392.1	389.6	388.4	388.0
27.5°	400.1	394.2	391.3	389.6	389.6
30°	405.9	398.4	394.2	392.1	391.7
32.5°	411.8	401.8	395.9	393.4	392.6
35°	414.7	401.8	394.7	390.5	389.6
37.5°	411.4	396.3	387.5	381.3	380.0
40°	400.9	385.0	375.4	369.6	368.7
42.5°	387.1	371.7	360.4	356.2	354.9
45°	368.3	349.9	338.6	332.8	333.2
47.5°	336.1	317.3	307.3	301.8	302.7
50°	298.1	279.7	270.9	265.1	266.3
52.5°	256.3	239.6	231.2	228.3	227.4
55°	212.4	199.4	193.6	190.2	189.0
57.5°	172.2	163.0	158.9	154.7	155.1
60°	135.9	131.3	130.0	125.4	125.0
62.5°	107.0	104.1	102.8	99.5	99.9
65°	81.1	80.3	81.1	79.0	79.9
66°	73.2	73.6	73.6	72.3	73.2
67.5°	63.1	64.0	65.2	64.0	64.8
70°	52.3	53.1	53.9	53.9	53.9
72.5°	45.6	46.4	46.8	46.8	46.8
75°	41.8	42.2	42.6	41.8	41.8
77.5°	39.3	39.3	38.5	38.0	37.6
80°	35.5	35.1	33.9	33.0	33.0
82.5°	29.7	28.8	28.0	26.8	26.8
85°	22.6	21.7	20.9	19.2	18.4
87.5°	11.7	12.1	11.7	9.6	8.4
90°	0.0	0.0	0.0	0.0	0.0

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