

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: P181293

Luminaire Tested: **ICS-F02-LED-E1-T2-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181293
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33671)
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-T2-7030
Description: ICON SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (14) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4158.5 lumens
Efficiency: N/A
Efficacy: 75.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type II - 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



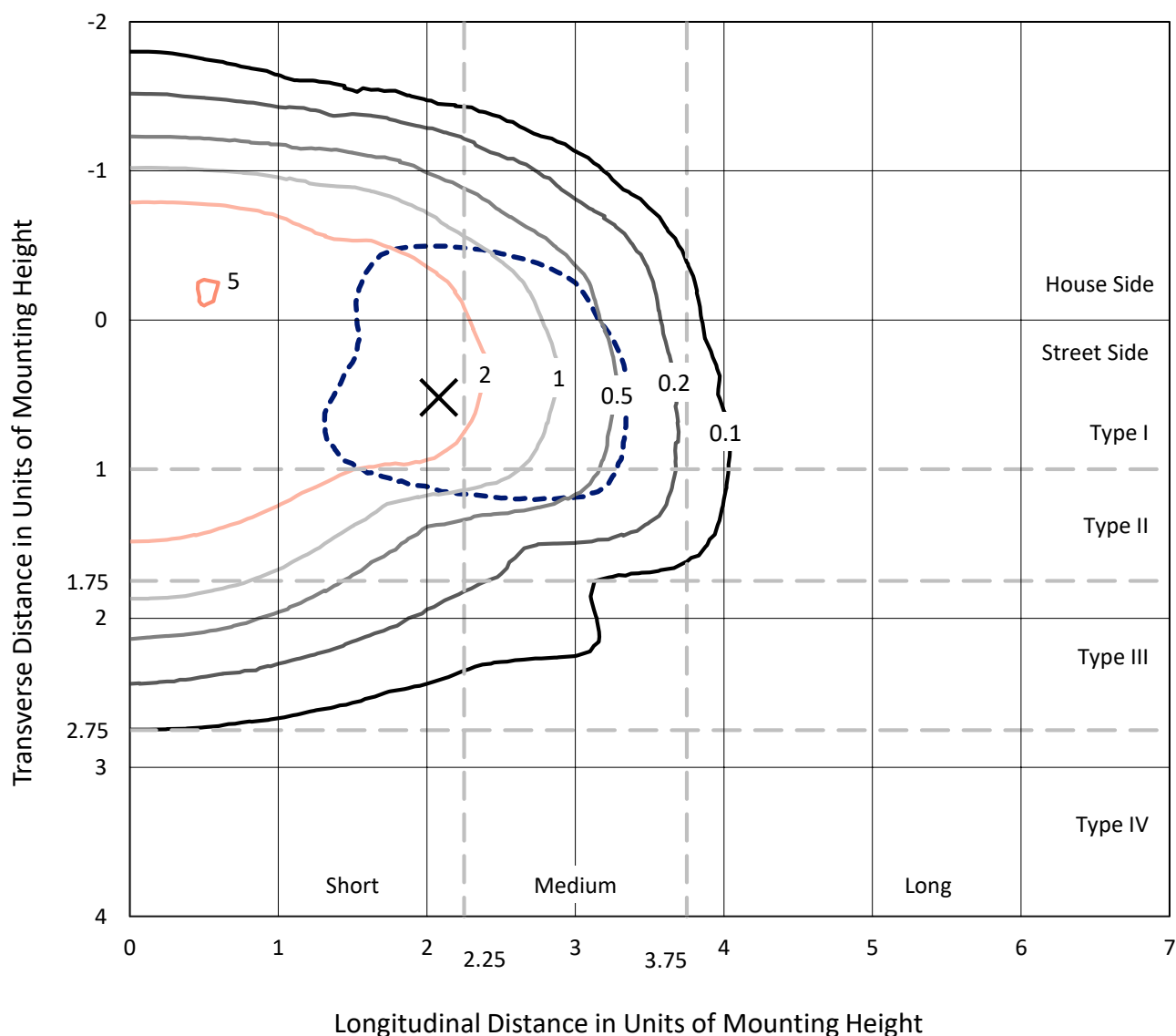
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

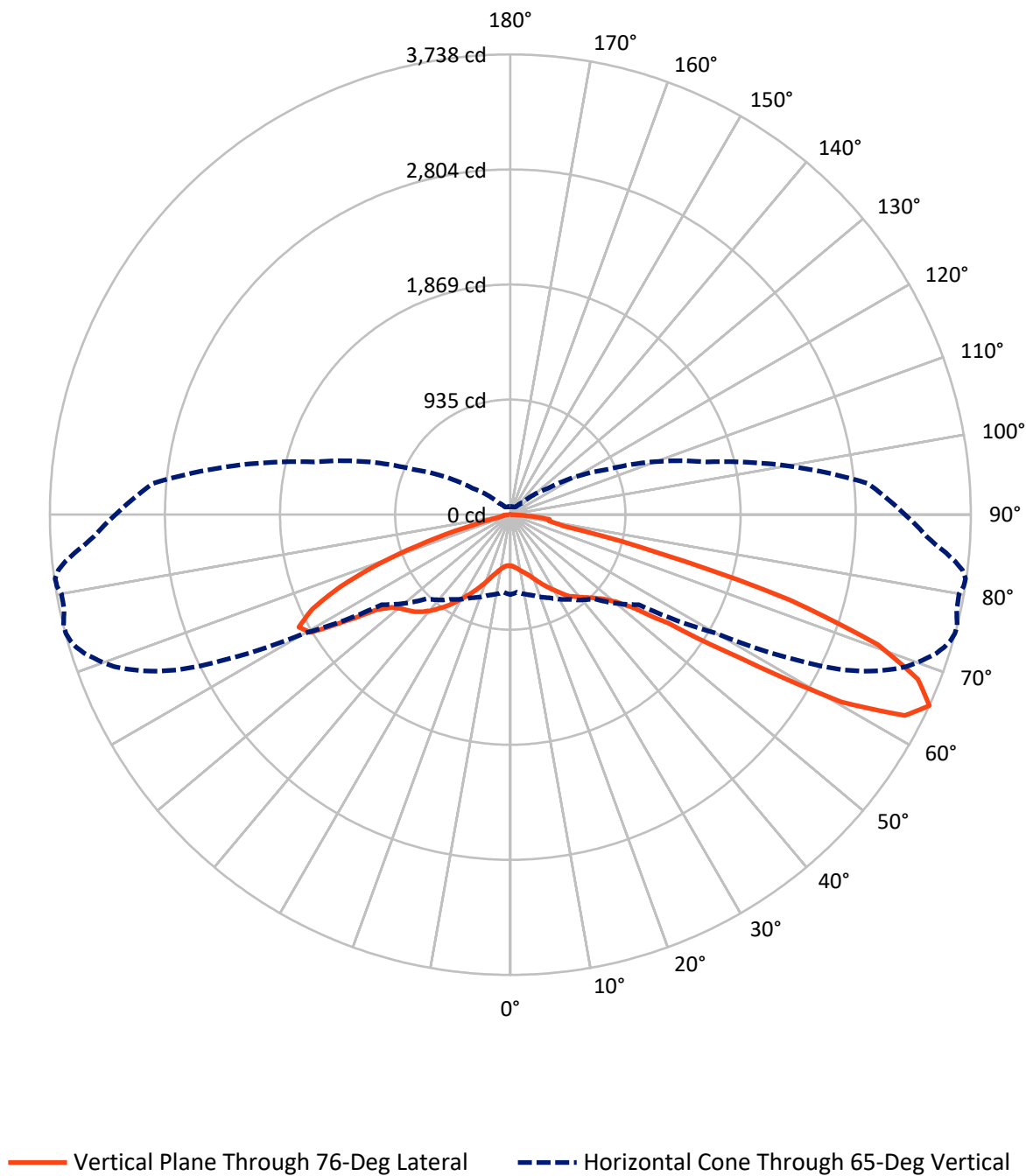


Based on 10 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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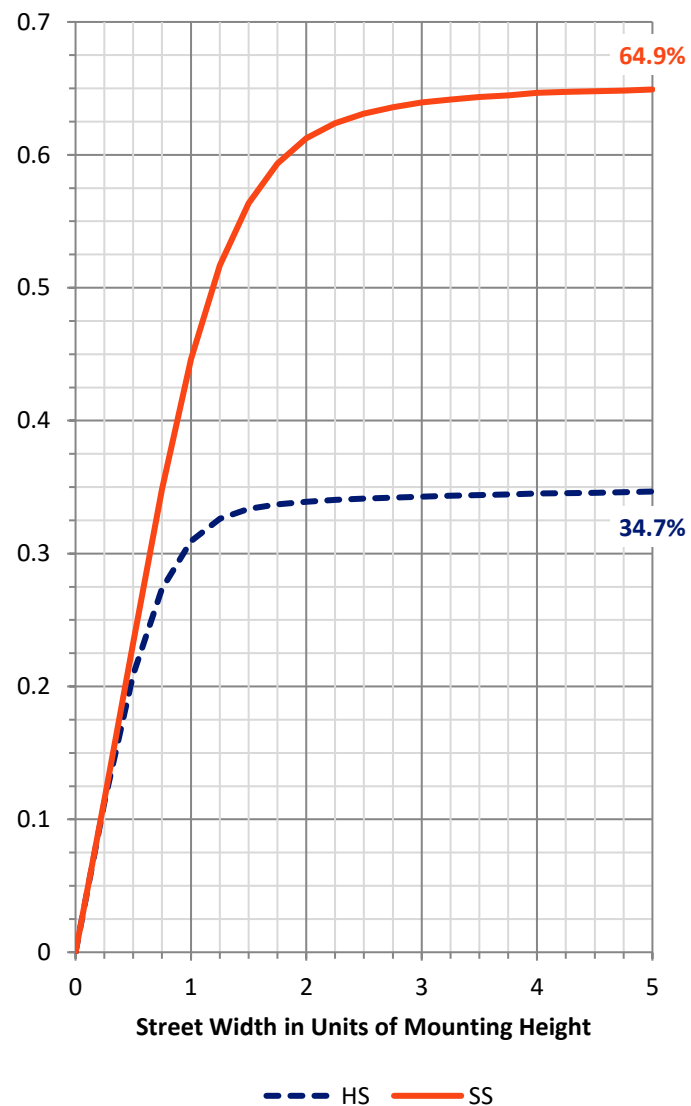
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1456.2	0.0	1456.2
	% Fixture	35.0	0.0	35.0
Street Side	Lumens	2702.3	0.0	2702.3
	% Fixture	65.0	0.0	65.0
Total	Lumens	4158.5	0.0	4158.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.6	1.0
10°-20°	143.0	3.4
20°-30°	281.0	6.8
30°-40°	466.8	11.2
40°-50°	685.9	16.5
50°-60°	949.7	22.8
60°-70°	1133.5	27.3
70°-80°	400.9	9.6
80°-90°	56.0	1.3
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°	4158.5	100.0
0°-180°	4158.5	100.0

Coefficient of Utilization



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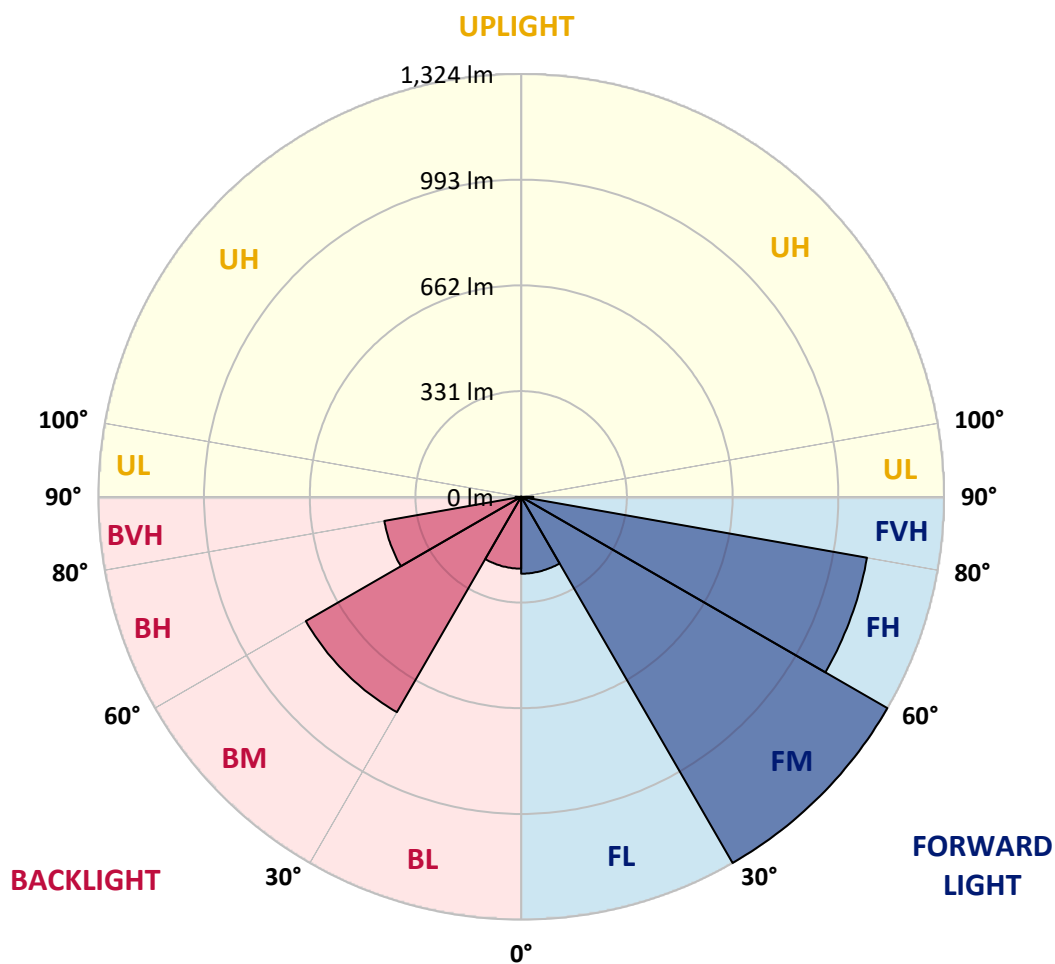
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	240.6	5.8			
FM	(30°-60°)	1323.9	31.8			
FH	(60°-80°)	1099.4	26.4			G1/1800
FVH	(80°-90°)	38.3	0.9			G1/100
BL	(0°-30°)	225.0	5.4	B1/500		
BM	(30°-60°)	778.5	18.7	B1/1000		
BH	(60°-80°)	435.0	10.5	B1/500		G1/500
BVH	(80°-90°)	17.7	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	415.8	415.8	415.8	415.8	415.8	415.8	415.8	415.8	415.8	415.8	415.8
2.5°	433.9	434.3	433.4	433.0	431.6	429.3	427.5	425.7	425.7	425.7	424.4
5°	452.9	453.8	452.0	450.6	446.5	444.3	441.1	438.8	437.9	437.5	436.1
7.5°	476.9	475.5	472.8	471.9	468.7	463.7	457.8	453.3	453.3	452.9	453.3
10°	500.8	497.2	495.9	494.5	489.5	483.2	476.4	471.4	471.0	470.5	469.2
12.5°	524.8	523.5	522.1	517.1	512.1	502.2	494.5	489.5	489.1	489.5	487.7
15°	556.5	553.3	552.0	543.4	532.5	521.6	512.1	507.6	506.3	506.7	505.4
17.5°	580.9	580.9	577.7	568.2	554.2	539.3	529.3	526.6	526.2	526.2	526.6
20°	600.4	599.9	596.7	589.1	572.3	557.4	552.4	551.5	551.0	551.0	552.4
22.5°	611.2	610.3	609.0	600.4	587.2	577.3	577.7	580.5	581.4	582.3	584.1
25°	616.6	615.3	614.8	609.0	599.5	598.1	606.2	613.5	615.3	617.1	619.4
27.5°	625.7	623.4	624.3	622.1	619.8	623.9	640.6	648.3	649.7	651.9	653.3
30°	650.6	649.7	653.3	654.2	656.0	661.9	677.3	684.5	687.7	687.7	694.0
32.5°	698.1	698.5	699.4	708.9	712.1	716.2	724.3	730.2	730.7	731.1	737.0
35°	761.9	764.6	772.3	780.4	788.1	787.7	782.7	785.9	783.6	786.3	786.8
37.5°	842.4	838.8	850.1	868.6	880.4	877.2	855.1	840.6	844.7	842.9	841.5
40°	904.4	908.5	930.2	954.6	963.7	973.6	944.7	919.8	916.2	909.4	905.3
42.5°	989.9	990.3	1008.0	1026.1	1052.3	1074.0	1055.5	1019.8	1008.9	1000.8	983.1
45°	1069.1	1067.7	1082.2	1104.4	1135.6	1166.8	1173.6	1134.7	1130.6	1116.1	1093.0
47.5°	1122.0	1120.2	1130.1	1159.1	1209.8	1260.9	1288.9	1277.2	1269.5	1263.6	1227.4
50°	1157.7	1154.1	1165.4	1196.2	1252.8	1331.5	1404.8	1414.7	1411.6	1411.6	1388.5
52.5°	1184.4	1184.4	1192.6	1217.5	1274.9	1373.1	1504.3	1554.5	1558.6	1563.1	1561.8
55°	1169.5	1171.8	1192.1	1228.3	1288.9	1402.1	1586.6	1696.6	1719.2	1738.2	1759.9
57.5°	1118.4	1126.1	1153.2	1212.5	1292.6	1423.8	1678.0	1895.6	1959.4	2014.6	2100.6
60°	1043.7	1053.7	1093.0	1168.6	1265.9	1388.5	1710.2	2063.9	2165.3	2285.6	2510.0
62.5°	915.7	925.7	964.1	1039.7	1122.9	1253.2	1577.1	2088.8	2250.8	2421.4	2760.7
65°	648.8	632.9	677.3	745.1	840.6	966.8	1274.5	1921.9	2154.9	2386.1	2805.0
67.5°	361.5	360.1	387.3	437.9	529.3	665.1	878.1	1474.0	1688.4	1950.4	2464.8
70°	249.3	252.0	269.2	323.9	399.5	516.7	625.7	925.7	1079.9	1257.7	1763.5
72.5°	175.1	181.0	190.5	223.0	300.4	435.2	639.3	553.3	630.2	751.5	1060.5
75°	102.7	106.8	113.6	129.4	171.0	290.9	661.9	486.4	486.4	514.9	641.5
77.5°	63.3	63.3	67.4	73.7	90.9	142.5	471.4	546.5	531.1	514.9	516.2
80°	32.6	34.8	40.7	43.9	50.7	65.1	211.7	509.9	559.2	592.2	569.1
82.5°	14.9	16.7	24.9	26.7	29.4	34.4	72.8	290.0	388.6	511.7	639.3
85°	7.7	7.7	13.1	16.3	17.6	15.8	26.7	117.2	177.3	270.5	423.5
87.5°	1.4	1.4	2.3	2.7	4.1	3.6	4.5	6.8	11.3	12.2	12.7
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	415.8	415.8	415.8	415.8	415.8	415.8	415.8	415.8	415.8	415.8	415.8
2.5°	423.9	424.4	423.9	423.5	422.6	422.6	422.6	422.1	422.1	422.1	421.7
5°	436.1	434.3	434.8	433.9	433.4	433.0	433.4	432.5	431.6	432.1	431.6
7.5°	451.5	450.6	448.8	448.8	448.3	447.4	447.4	446.1	445.6	444.7	444.3
10°	468.7	466.4	467.4	466.4	466.9	465.1	464.2	463.3	462.4	462.4	462.8
12.5°	486.4	485.9	484.5	483.6	483.6	482.3	482.7	482.3	480.9	480.5	479.1
15°	504.4	504.4	503.1	503.5	503.1	502.2	501.3	501.3	500.4	499.5	499.9
17.5°	525.7	525.7	525.7	525.7	526.2	524.8	525.3	524.4	523.5	525.3	525.3
20°	553.3	555.1	555.1	554.7	556.9	555.6	555.1	557.4	555.1	558.3	557.8
22.5°	585.0	586.8	586.8	588.6	589.1	590.4	591.3	590.4	592.2	594.0	594.0
25°	620.3	622.1	623.4	626.2	627.5	626.6	627.1	629.3	630.2	632.0	633.8
27.5°	657.4	657.8	659.6	662.8	665.1	666.0	666.4	670.0	670.5	671.4	673.2
30°	693.6	698.1	697.2	701.3	702.6	704.0	706.7	708.0	711.2	713.0	713.0
32.5°	736.1	735.2	738.8	742.0	744.2	746.5	748.8	750.6	752.4	753.3	757.8
35°	789.0	790.8	790.8	791.3	796.7	797.2	799.0	803.0	804.4	807.1	808.9
37.5°	841.5	838.3	837.9	837.9	836.1	837.4	837.9	838.3	840.1	840.6	842.4
40°	900.3	896.2	892.6	890.4	886.7	881.8	880.9	878.6	880.0	879.5	880.0
42.5°	980.8	969.5	960.9	954.6	947.4	941.9	937.9	932.0	927.9	922.9	922.0
45°	1083.5	1062.3	1047.8	1037.4	1027.0	1012.1	1003.5	994.4	986.3	978.1	971.3
47.5°	1218.4	1195.7	1172.7	1153.7	1137.4	1113.4	1089.0	1075.4	1059.6	1045.5	1035.6
50°	1377.2	1350.0	1339.2	1312.5	1292.1	1255.9	1225.6	1203.4	1171.8	1150.5	1132.0
52.5°	1539.6	1532.8	1526.9	1504.3	1480.3	1459.5	1432.8	1393.9	1361.8	1337.4	1299.4
55°	1760.8	1764.0	1761.7	1749.5	1740.9	1721.0	1710.2	1676.2	1661.7	1626.5	1586.6
57.5°	2133.2	2158.5	2190.6	2203.3	2220.5	2204.2	2223.2	2246.3	2188.8	2208.7	2173.0
60°	2608.7	2724.9	2794.2	2879.2	2934.9	3012.7	3026.7	3047.1	3041.2	3052.5	3075.6
62.5°	2899.1	3037.1	3169.7	3266.0	3369.2	3426.2	3494.9	3542.9	3592.7	3626.2	3616.7
65°	2984.6	3126.7	3247.0	3352.4	3444.7	3514.4	3578.2	3638.4	3684.1	3716.2	3735.2
67.5°	2670.6	2856.1	2982.8	3106.3	3225.3	3298.6	3352.0	3410.3	3477.3	3533.0	3543.8
70°	2009.7	2287.9	2467.5	2615.4	2755.2	2853.9	2928.5	2982.8	3034.8	3074.7	3118.1
72.5°	1256.8	1500.2	1705.6	1897.5	2045.8	2181.6	2244.5	2364.8	2349.0	2379.3	2411.9
75°	753.3	871.8	984.9	1120.2	1198.0	1311.1	1331.5	1351.4	1341.0	1307.0	1332.4
77.5°	523.5	542.9	542.0	534.3	526.2	506.3	480.5	466.4	456.9	443.4	448.8
80°	526.6	484.5	420.3	353.3	291.8	251.1	234.8	234.8	251.5	275.5	299.5
82.5°	629.3	584.5	521.2	436.1	345.6	281.4	238.4	221.2	224.4	248.8	279.6
85°	424.4	434.3	380.9	348.4	276.0	214.9	180.1	146.1	129.4	133.5	151.1
87.5°	15.4	18.5	6.8	9.0	6.3	5.4	5.4	5.9	4.1	5.0	4.5
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	415.8	415.8	415.8	415.8	415.8	415.8	415.8	415.8	415.8	415.8	415.8
2.5°	421.2	420.8	420.8	419.8	419.8	419.4	419.4	418.9	418.5	418.5	418.0
5°	431.2	430.7	429.8	429.3	428.4	428.4	428.0	427.1	427.1	426.2	425.7
7.5°	445.2	444.3	443.4	442.9	442.5	441.1	441.1	440.2	440.2	439.3	438.8
10°	461.9	461.0	460.1	460.6	459.2	458.8	457.8	457.8	456.5	456.0	456.0
12.5°	480.0	479.6	479.6	478.2	477.8	477.3	475.5	475.5	475.5	474.6	475.0
15°	499.5	499.9	498.6	499.9	499.5	498.1	498.1	498.1	496.3	498.6	496.8
17.5°	525.7	527.1	526.2	526.6	525.7	525.7	526.2	525.7	526.6	526.6	529.3
20°	558.3	558.7	561.0	560.1	560.1	559.6	560.5	561.0	562.8	561.9	563.7
22.5°	594.0	596.3	596.7	598.6	598.6	598.1	599.0	600.8	601.7	603.1	602.6
25°	634.7	636.1	637.9	635.7	639.3	639.3	640.2	642.4	642.9	642.9	646.1
27.5°	672.7	676.4	676.8	679.1	677.7	678.6	681.8	683.2	685.0	685.0	685.9
30°	715.7	717.1	718.0	720.7	720.3	720.7	721.2	723.4	723.4	725.7	727.9
32.5°	760.1	761.0	761.9	764.6	765.5	767.3	766.4	768.2	770.5	770.9	772.3
35°	813.0	813.9	814.8	818.9	819.3	822.5	823.4	822.5	826.1	823.9	826.1
37.5°	843.8	847.8	848.7	851.5	850.6	852.8	854.2	856.0	856.9	858.7	862.3
40°	881.3	882.7	885.4	886.7	888.6	889.0	890.8	892.2	893.5	897.6	901.7
42.5°	919.8	921.6	922.9	924.7	927.0	928.8	930.2	934.2	935.2	937.9	945.6
45°	966.4	965.5	965.9	966.4	967.3	969.5	973.6	977.7	980.4	986.7	993.1
47.5°	1024.3	1018.4	1016.1	1012.5	1013.4	1018.4	1019.3	1026.1	1031.5	1037.4	1045.1
50°	1112.1	1096.2	1086.7	1077.2	1076.3	1079.0	1082.6	1089.9	1096.2	1103.9	1114.8
52.5°	1259.5	1229.2	1210.2	1184.0	1176.7	1175.4	1172.7	1176.7	1178.6	1189.0	1209.3
55°	1558.1	1502.0	1465.8	1425.1	1387.1	1375.8	1354.1	1358.6	1354.1	1360.4	1390.7
57.5°	2181.6	2136.8	2101.5	2049.5	1984.3	1915.1	1897.9	1826.9	1840.9	1881.6	1855.4
60°	3086.9	3070.6	3045.2	3020.4	2931.2	2881.0	2799.1	2790.1	2732.6	2733.1	2695.5
62.5°	3593.6	3614.4	3599.0	3591.8	3586.8	3571.0	3530.2	3481.4	3408.1	3355.2	3277.3
65°	3738.4	3720.7	3704.0	3701.7	3700.3	3726.1	3732.0	3697.6	3631.1	3548.8	3459.2
67.5°	3569.6	3559.6	3560.6	3541.5	3553.3	3598.1	3629.3	3619.8	3558.7	3459.2	3345.2
70°	3167.8	3148.4	3168.3	3193.2	3210.8	3236.6	3267.8	3275.5	3219.9	3117.6	3001.4
72.5°	2372.0	2375.2	2394.2	2401.0	2472.0	2464.8	2492.8	2401.4	2361.2	2263.9	2204.2
75°	1248.2	1227.9	1280.8	1168.6	1122.5	1154.6	1064.5	978.1	996.2	1011.2	903.5
77.5°	441.1	412.6	364.2	344.7	286.8	242.9	198.6	179.2	168.8	163.3	156.5
80°	316.7	325.7	315.8	292.3	248.4	199.1	157.0	124.0	106.3	96.8	90.5
82.5°	320.3	356.1	371.9	365.1	325.3	246.1	162.4	103.6	76.9	64.2	59.7
85°	171.9	188.2	181.0	152.5	137.1	81.9	56.1	37.6	31.7	29.0	26.7
87.5°	6.8	5.4	4.5	4.5	5.0	5.4	4.5	5.0	4.5	4.5	4.5
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):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	415.8	415.8	415.8	415.8	415.8	415.8	415.8	415.8	415.8	415.8	415.8
2.5°	417.1	417.1	417.1	416.7	415.8	413.5	411.3	409.4	408.1	406.7	404.9
5°	425.3	424.4	424.4	424.4	420.8	417.1	414.0	410.8	408.1	405.8	404.0
7.5°	438.8	438.4	436.6	436.1	433.4	427.5	423.9	418.5	415.3	412.2	411.3
10°	455.1	454.7	454.2	453.8	450.2	444.3	439.8	434.8	430.3	425.7	421.2
12.5°	474.1	473.7	473.2	471.9	470.5	467.4	462.4	456.9	451.5	442.0	437.0
15°	497.7	498.6	497.7	497.2	496.3	496.8	493.6	485.9	477.3	465.1	454.7
17.5°	528.9	528.0	527.5	529.3	528.9	531.1	530.2	520.3	507.2	487.7	469.6
20°	563.3	563.3	565.1	566.4	570.5	576.4	573.7	561.5	537.5	510.3	486.8
22.5°	604.4	605.3	607.1	606.2	612.6	622.1	623.0	605.8	574.6	537.0	504.0
25°	647.4	648.3	646.5	649.2	659.6	673.2	675.9	651.5	610.3	561.5	518.5
27.5°	688.1	689.0	689.0	692.7	702.6	725.7	728.4	701.3	646.5	582.7	528.9
30°	727.9	731.6	732.5	733.4	748.3	780.4	786.3	746.9	678.2	598.6	536.1
32.5°	778.2	779.5	781.3	783.6	800.8	840.1	840.1	786.3	698.5	608.5	537.5
35°	832.0	832.5	836.5	837.0	861.4	900.8	893.1	818.9	713.0	606.2	527.5
37.5°	864.6	866.4	870.5	875.9	901.7	957.3	939.7	846.9	715.7	591.3	504.9
40°	904.8	908.5	912.5	918.0	956.4	1014.8	979.0	864.6	704.4	561.9	471.0
42.5°	948.3	953.3	959.6	969.5	1015.2	1065.5	1008.9	867.3	678.6	528.9	430.7
45°	997.1	1006.2	1013.4	1025.2	1076.8	1109.3	1027.0	851.5	646.1	485.4	387.7
47.5°	1053.7	1060.9	1073.6	1086.3	1137.8	1139.2	1028.8	820.7	601.7	442.0	342.0
50°	1123.4	1127.9	1146.9	1154.6	1203.0	1170.4	1015.7	779.1	555.1	393.2	291.4
52.5°	1216.1	1222.4	1246.9	1258.6	1293.0	1212.9	997.1	733.8	501.7	338.4	239.3
55°	1399.3	1426.9	1444.1	1464.5	1486.7	1309.3	989.0	685.4	441.6	275.1	189.6
57.5°	1913.7	1904.7	1942.7	1988.8	1988.4	1529.6	1037.9	643.8	370.5	210.4	145.7
60°	2680.1	2688.7	2669.3	2696.9	2609.1	1802.9	1104.8	599.9	290.5	156.5	111.3
62.5°	3249.7	3200.0	3172.4	3139.8	2946.6	1832.8	1055.9	509.9	211.3	109.9	85.5
65°	3384.6	3326.2	3266.9	3204.9	2913.6	1652.2	866.4	374.2	136.6	75.6	67.9
67.5°	3251.5	3157.9	3082.3	3018.6	2669.7	1369.5	633.4	229.8	78.3	61.1	57.9
70°	2906.8	2803.2	2681.0	2609.6	2248.1	1009.4	405.8	124.0	60.2	54.3	52.9
72.5°	2127.7	2042.7	1909.2	1827.3	1614.2	613.5	226.7	69.7	56.1	52.0	50.2
75°	828.8	784.5	728.8	733.4	654.7	271.5	102.7	60.2	54.7	51.1	49.3
77.5°	142.5	138.9	128.5	128.5	146.1	99.1	68.3	60.6	54.3	50.2	47.1
80°	85.5	83.7	79.6	78.7	76.0	69.7	65.6	61.5	53.4	47.5	43.4
82.5°	56.1	53.8	52.5	52.0	56.6	61.1	61.5	61.1	50.7	41.2	35.3
85°	24.0	24.0	24.0	24.4	32.6	49.3	50.7	54.3	41.6	32.1	25.3
87.5°	4.1	5.0	5.0	5.4	5.9	10.9	13.6	17.6	14.0	13.6	12.2
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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	165°	175°	180°
0°	415.8	415.8	415.8
2.5°	404.5	403.6	403.6
5°	403.1	402.2	402.7
7.5°	408.5	406.7	407.2
10°	418.5	416.7	415.8
12.5°	431.2	428.9	428.9
15°	444.3	438.8	438.4
17.5°	455.1	448.3	447.4
20°	467.4	458.3	456.9
22.5°	478.7	466.4	464.6
25°	486.8	471.9	469.6
27.5°	490.4	472.8	471.0
30°	493.1	473.2	470.5
32.5°	490.4	469.2	466.9
35°	475.5	452.4	451.1
37.5°	449.7	423.9	422.1
40°	415.8	388.6	384.1
42.5°	372.3	347.0	342.0
45°	330.3	301.3	299.1
47.5°	285.0	257.4	258.8
50°	237.5	212.6	212.2
52.5°	192.3	170.6	169.2
55°	151.6	136.2	134.8
57.5°	119.9	111.7	110.4
60°	97.7	93.7	92.3
62.5°	78.7	77.4	76.9
65°	65.6	65.6	65.6
67.5°	57.0	57.5	57.5
70°	52.5	52.9	52.5
72.5°	50.7	52.0	52.0
75°	49.3	50.2	48.4
77.5°	48.4	48.9	45.7
80°	48.0	47.5	41.6
82.5°	41.6	40.3	35.3
85°	38.0	29.0	24.4
87.5°	19.5	13.6	10.4
90°	0.0	0.0	0.0

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