

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: P180532

Luminaire Tested: **ICS-F02-LED-E1-SL2-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180532
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33678)
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-SL2-7030
Description: ICON SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (14) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4146.6 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-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

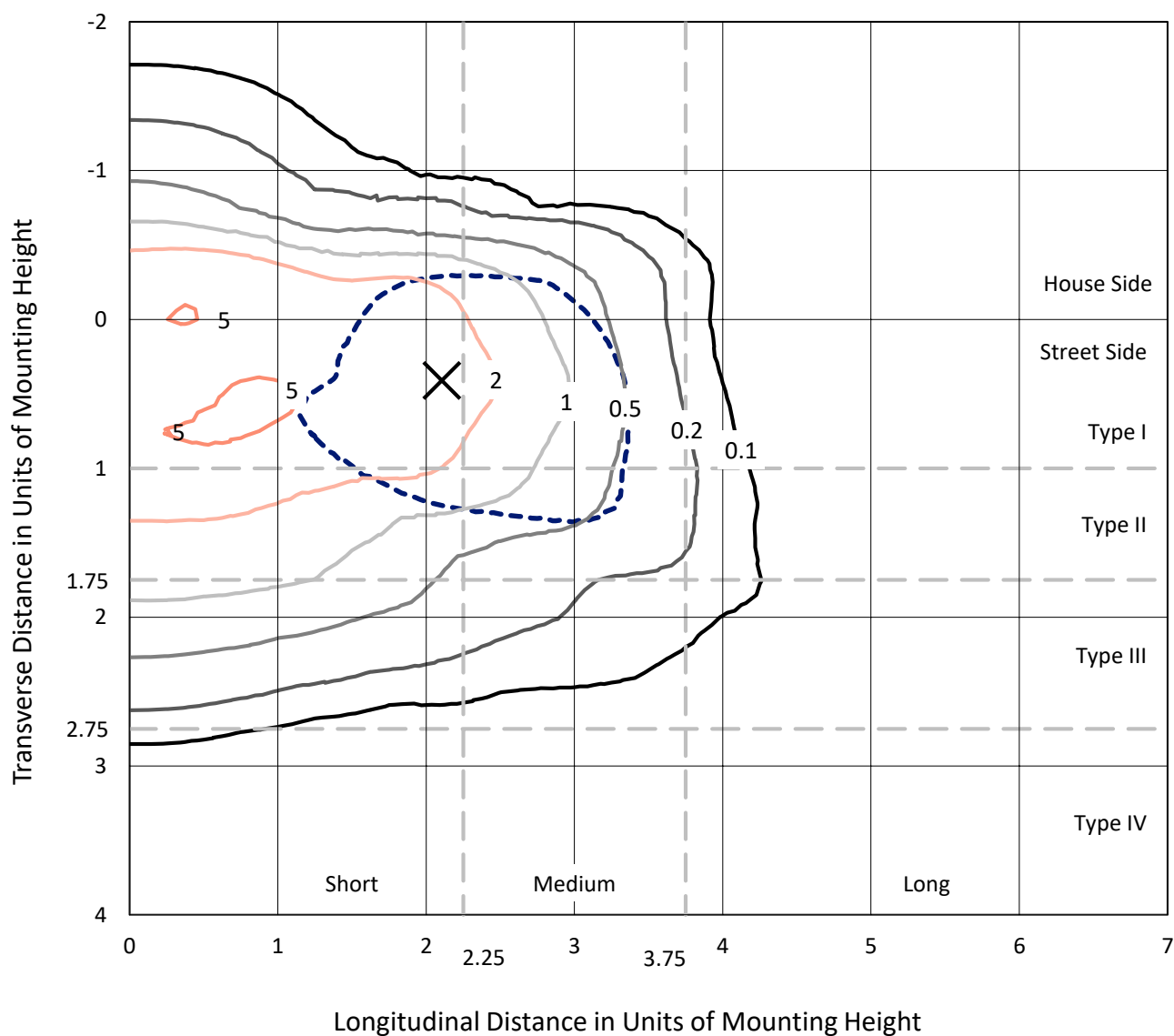


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

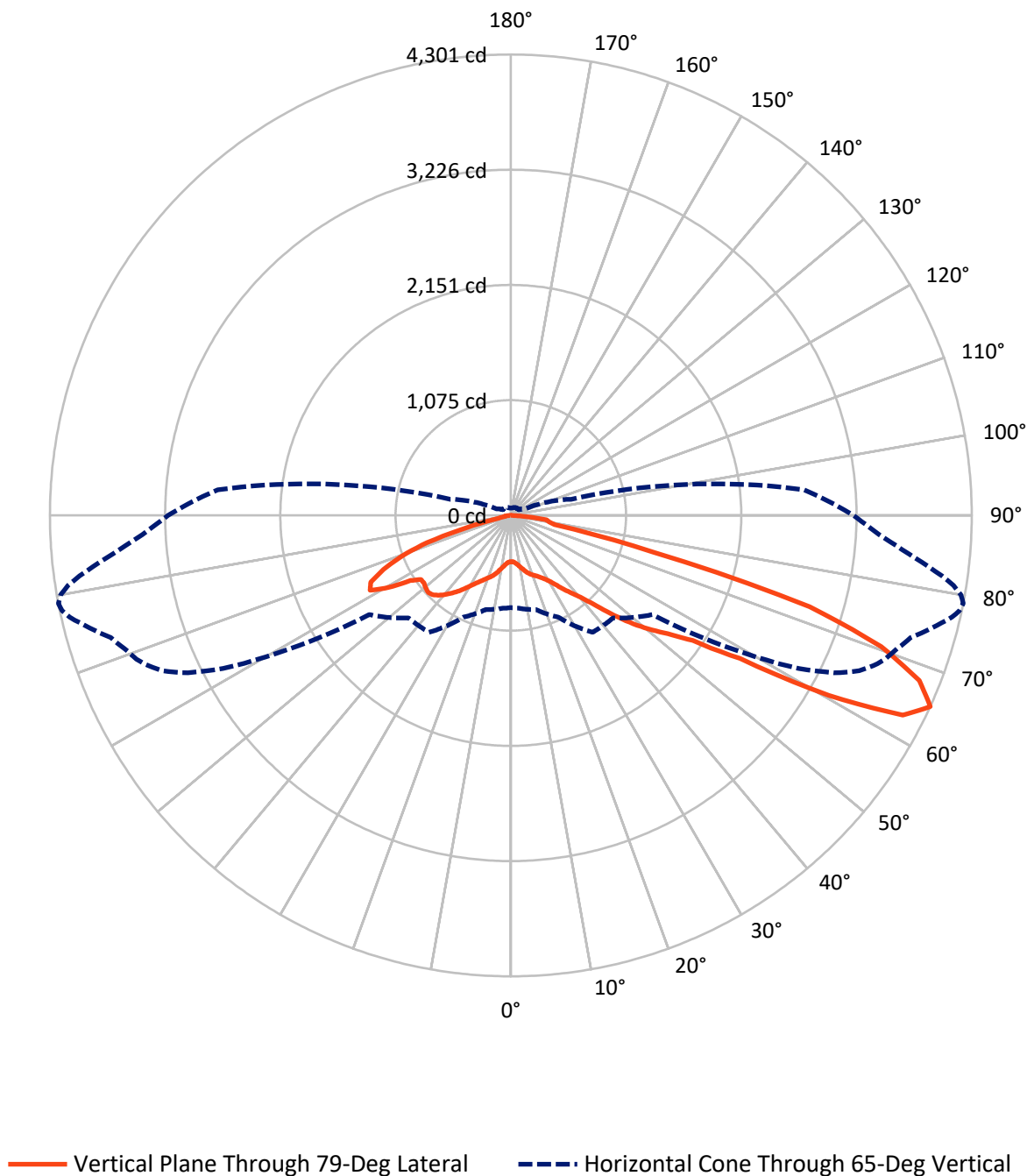


Based on 10 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	980.2	0.0	980.2
	% Fixture	23.6	0.0	23.6
Street Side	Lumens	3166.3	0.0	3166.3
	% Fixture	76.4	0.0	76.4
Total	Lumens	4146.6	0.0	4146.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.9	1.0
10°-20°	140.3	3.4
20°-30°	242.3	5.8
30°-40°	401.1	9.7
40°-50°	680.3	16.4
50°-60°	903.8	21.8
60°-70°	1167.5	28.2
70°-80°	489.7	11.8
80°-90°	78.7	1.9
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°	4146.6	100.0
0°-180°	4146.6	100.0

Coefficient of Utilization



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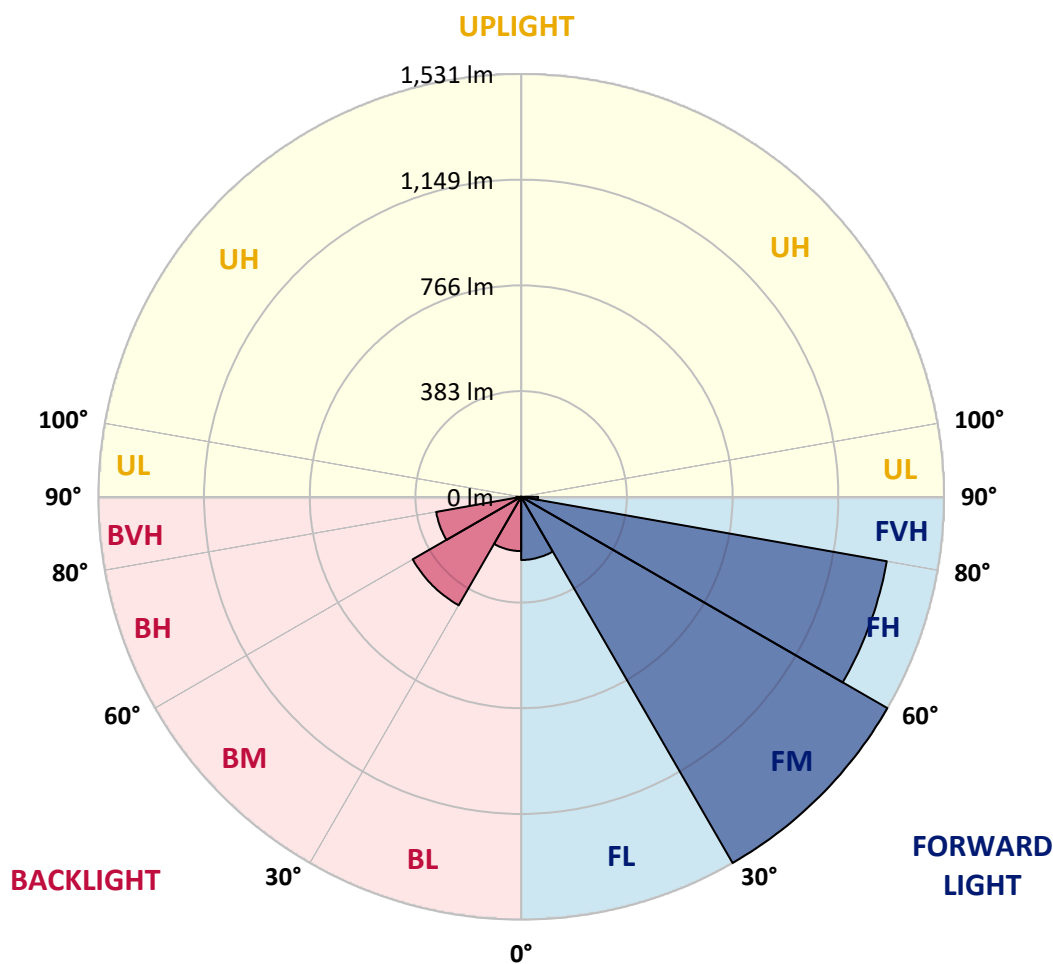
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	228.8	5.5			
FM	(30°-60°)	1531.5	36.9			
FH	(60°-80°)	1344.6	32.4			G1/1800
FVH	(80°-90°)	61.5	1.5			G1/100
BL	(0°-30°)	196.7	4.7	B1/500		
BM	(30°-60°)	453.7	10.9	B1/1000		
BH	(60°-80°)	312.6	7.5	B1/500		G1/500
BVH	(80°-90°)	17.2	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°	431.6	431.6	431.6	431.6	431.6	431.6	431.6	431.6	431.6	431.6	431.6
2.5°	430.3	431.6	430.7	431.6	432.5	433.0	433.9	433.4	433.4	433.9	433.0
5°	430.3	430.3	431.6	433.9	434.8	437.5	440.7	440.2	440.7	440.2	441.1
7.5°	439.3	438.8	440.2	442.9	443.8	447.9	453.3	454.2	455.1	455.1	456.5
10°	455.1	454.7	456.0	457.4	458.8	461.9	469.6	472.8	473.2	473.7	475.5
12.5°	475.0	474.6	472.8	472.8	472.3	478.2	488.6	494.5	495.4	497.2	498.6
15°	489.1	487.7	485.0	483.2	485.4	494.9	510.3	517.1	518.0	519.4	523.0
17.5°	502.6	501.3	495.4	490.9	494.0	509.4	530.2	537.5	539.3	540.6	544.7
20°	521.6	520.7	512.1	501.3	500.4	520.3	545.6	555.1	556.5	558.3	562.4
22.5°	550.6	546.5	536.6	516.2	506.3	526.6	556.5	569.6	571.4	573.2	578.6
25°	586.8	585.0	567.8	536.6	515.8	533.0	568.2	584.5	587.2	589.5	596.7
27.5°	624.3	621.6	603.1	562.4	532.5	545.6	586.8	605.3	609.0	612.6	619.4
30°	657.8	656.9	641.5	597.2	559.6	569.6	616.6	639.3	643.3	647.9	654.2
32.5°	736.5	737.0	721.2	675.9	625.2	613.0	659.6	693.6	695.4	700.8	712.1
35°	887.2	889.0	883.1	847.4	790.4	740.2	744.7	778.2	780.0	784.5	795.4
37.5°	988.1	991.7	1009.8	1021.1	992.2	969.1	911.6	898.5	899.9	897.2	894.9
40°	1043.7	1049.2	1096.7	1155.5	1187.2	1187.6	1162.7	1104.8	1082.6	1076.3	1049.2
42.5°	1075.4	1084.5	1151.9	1252.3	1343.2	1405.7	1421.1	1356.8	1340.5	1311.6	1259.5
45°	1096.2	1107.1	1186.7	1324.2	1458.2	1564.5	1644.5	1616.0	1605.2	1587.5	1539.6
47.5°	1092.6	1101.2	1184.0	1348.7	1518.3	1669.4	1811.5	1840.9	1827.8	1823.3	1790.7
50°	1026.5	1034.2	1118.4	1288.0	1485.3	1709.2	1917.4	2000.6	2000.6	2009.2	1999.2
52.5°	956.0	962.3	1038.8	1191.2	1378.5	1670.3	1976.2	2114.2	2132.3	2147.2	2170.7
55°	929.3	937.0	994.9	1125.2	1287.6	1559.0	1996.1	2199.2	2232.7	2258.0	2311.4
57.5°	941.9	949.6	990.8	1089.4	1234.2	1445.5	1997.0	2313.7	2378.4	2430.4	2538.5
60°	996.7	1003.9	1038.3	1122.5	1220.2	1379.9	1958.5	2496.0	2599.2	2696.9	2876.9
62.5°	971.3	980.4	1030.6	1177.2	1324.7	1330.1	1819.6	2637.2	2803.2	2947.5	3233.9
65°	860.5	870.0	909.4	1046.4	1331.0	1351.8	1613.8	2639.9	2846.2	3041.2	3350.2
67.5°	653.3	656.9	688.1	798.1	1064.5	1375.8	1402.1	2327.3	2523.6	2741.2	3060.2
70°	333.9	340.2	349.3	440.7	685.4	1136.9	1204.8	1715.1	1965.3	2190.2	2573.4
72.5°	115.8	118.1	127.1	168.3	333.9	746.0	1054.6	1175.4	1326.5	1536.9	1980.7
75°	69.7	69.7	72.8	85.1	152.5	388.6	938.3	960.0	980.4	1051.0	1341.4
77.5°	55.2	56.1	56.1	58.4	84.6	199.5	712.6	892.6	895.3	902.1	951.0
80°	39.4	41.2	44.8	46.6	54.7	109.5	399.9	783.6	837.0	862.8	898.5
82.5°	29.4	31.2	38.0	40.3	42.5	61.1	179.6	540.6	637.9	689.5	815.3
85°	13.1	15.4	25.8	28.5	29.9	32.6	84.2	153.8	176.9	198.6	262.0
87.5°	2.3	2.3	4.1	5.9	8.6	8.1	18.5	26.2	26.7	31.2	34.8
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	431.6	431.6	431.6	431.6	431.6	431.6	431.6	431.6	431.6	431.6	431.6
2.5°	433.0	433.0	433.0	432.5	433.0	433.0	433.0	433.0	433.4	433.4	433.4
5°	442.5	441.6	442.0	442.0	442.0	441.6	442.5	442.0	442.5	443.8	443.4
7.5°	456.5	457.4	457.8	458.3	458.3	458.3	458.8	459.7	459.7	461.0	460.6
10°	477.3	476.9	477.3	478.7	480.0	480.5	481.8	481.4	482.3	484.1	485.9
12.5°	499.5	500.4	501.7	503.1	505.4	505.8	507.2	507.6	510.3	510.3	512.1
15°	524.4	524.8	527.5	528.0	530.7	531.6	533.9	534.8	537.9	538.4	540.2
17.5°	547.0	547.9	549.2	550.6	553.8	555.1	556.9	558.7	561.5	562.4	565.5
20°	565.1	566.9	567.3	570.1	572.8	574.6	576.4	578.2	580.9	582.3	585.4
22.5°	581.4	583.2	584.5	586.8	588.6	591.3	592.2	595.4	598.1	600.4	603.1
25°	599.0	601.7	603.1	607.1	608.5	611.2	613.5	616.6	620.3	623.0	626.6
27.5°	623.9	628.0	629.8	634.3	637.5	638.8	642.4	647.0	650.1	653.3	656.9
30°	658.3	666.0	667.3	670.5	676.4	677.3	681.8	685.4	690.4	693.6	696.7
32.5°	711.7	721.2	722.1	725.7	730.7	732.5	736.1	740.2	747.9	749.2	754.2
35°	793.5	797.6	801.2	802.6	806.7	808.9	811.6	816.2	823.9	823.0	828.4
37.5°	891.7	893.1	893.5	889.0	889.9	885.8	890.8	891.7	894.4	896.7	902.1
40°	1032.0	1017.9	1016.1	1005.3	994.4	988.5	986.3	977.2	979.5	980.4	984.9
42.5°	1236.9	1209.8	1187.2	1171.8	1145.1	1132.0	1114.3	1100.3	1089.4	1093.5	1095.3
45°	1496.6	1457.7	1421.5	1374.5	1339.6	1314.7	1283.5	1255.5	1242.8	1236.9	1244.2
47.5°	1755.8	1721.5	1678.9	1630.5	1575.3	1534.2	1482.1	1436.4	1404.8	1393.0	1399.3
50°	1979.8	1948.1	1916.0	1887.5	1823.3	1778.5	1707.4	1648.2	1598.4	1573.1	1566.3
52.5°	2165.7	2149.0	2131.8	2107.8	2056.3	2011.5	1954.9	1896.5	1830.5	1778.9	1761.3
55°	2331.8	2341.7	2333.1	2333.6	2313.2	2284.7	2236.8	2193.3	2147.2	2088.8	2064.4
57.5°	2573.8	2632.6	2644.4	2673.8	2688.3	2703.7	2717.2	2691.5	2679.7	2636.3	2636.7
60°	2955.2	3041.2	3115.8	3183.7	3239.3	3293.6	3350.6	3376.0	3404.0	3417.1	3461.9
62.5°	3361.0	3442.9	3554.2	3645.2	3696.3	3766.9	3828.8	3869.1	3918.4	3970.9	4039.2
65°	3461.5	3560.1	3630.2	3690.8	3741.5	3779.1	3813.0	3861.0	3902.1	3985.4	4065.9
67.5°	3204.0	3282.8	3347.0	3406.7	3446.1	3477.8	3508.1	3539.7	3610.3	3685.9	3766.9
70°	2750.3	2845.3	2951.6	3029.0	3048.4	3075.6	3104.5	3145.7	3181.0	3260.1	3321.7
72.5°	2209.6	2346.3	2436.3	2543.5	2566.6	2607.8	2624.0	2656.2	2662.5	2705.5	2721.8
75°	1540.0	1696.6	1787.1	1865.8	1881.2	1858.5	1867.6	1754.0	1725.1	1701.6	1682.6
77.5°	1016.6	1058.7	1073.1	1060.5	999.8	952.3	901.7	851.9	857.3	817.1	746.5
80°	903.9	913.4	900.3	887.6	852.8	803.0	757.4	710.8	687.7	663.2	627.1
82.5°	879.5	916.2	920.2	904.8	877.2	823.0	767.8	698.5	639.7	585.4	530.2
85°	294.1	357.9	386.4	413.1	421.2	430.7	398.1	353.8	300.4	264.7	207.2
87.5°	37.6	46.6	53.8	46.1	53.8	63.3	45.7	51.1	51.6	32.1	24.0
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°	431.6	431.6	431.6	431.6	431.6	431.6	431.6	431.6	431.6	431.6	431.6
2.5°	433.9	433.4	433.4	433.4	433.0	433.4	433.4	433.4	433.4	433.4	433.0
5°	443.8	443.8	445.2	445.6	444.7	444.3	444.7	445.2	445.2	444.7	445.2
7.5°	462.4	462.8	463.7	465.1	464.2	464.6	465.1	464.6	466.0	466.4	466.0
10°	485.9	486.8	489.1	489.5	489.1	490.9	491.3	490.4	491.3	491.3	493.1
12.5°	513.0	513.9	516.7	517.6	518.5	518.9	520.3	520.7	522.1	523.0	524.4
15°	542.5	543.4	545.2	548.3	549.2	550.1	551.0	553.8	554.2	556.0	557.4
17.5°	567.3	568.7	571.4	573.7	575.0	577.3	578.2	581.4	582.3	585.0	587.2
20°	587.2	589.5	591.8	594.5	596.7	599.5	600.4	603.5	605.3	606.7	609.4
22.5°	605.3	608.1	611.2	614.4	616.2	619.8	621.2	622.5	626.6	628.4	631.1
25°	628.9	631.6	635.2	639.3	641.1	645.6	647.0	649.2	653.7	655.6	659.6
27.5°	661.0	664.6	667.3	671.4	673.7	676.8	680.0	682.7	686.8	689.5	694.0
30°	701.3	704.0	708.5	711.7	715.3	719.8	723.4	726.1	728.4	732.5	737.4
32.5°	760.5	761.0	762.3	770.0	773.6	777.3	782.2	784.5	788.1	792.2	797.6
35°	834.3	838.3	841.5	845.1	849.2	853.3	855.1	861.9	865.0	870.5	875.9
37.5°	907.6	908.0	915.2	917.5	921.1	925.2	931.5	938.3	946.5	951.9	960.5
40°	986.3	989.9	998.9	1003.5	1008.0	1017.9	1022.9	1033.8	1047.4	1055.0	1069.5
42.5°	1100.3	1105.7	1122.0	1129.2	1140.1	1156.4	1166.8	1181.7	1187.2	1205.7	1212.5
45°	1249.6	1266.3	1289.9	1305.2	1324.7	1342.3	1351.4	1358.2	1366.3	1380.8	1379.0
47.5°	1411.1	1432.8	1459.1	1490.7	1503.4	1524.2	1536.0	1549.1	1541.8	1538.2	1534.6
50°	1576.7	1602.0	1636.9	1665.4	1684.8	1697.5	1707.4	1705.6	1690.2	1682.1	1659.5
52.5°	1760.8	1775.8	1808.8	1833.2	1845.0	1847.7	1845.4	1831.9	1817.4	1791.6	1764.9
55°	2043.1	2036.3	2049.5	2060.8	2057.2	2069.8	2037.3	2024.6	1988.8	1955.4	1919.6
57.5°	2616.8	2625.8	2552.6	2519.5	2513.6	2525.4	2468.0	2460.7	2374.3	2363.4	2303.3
60°	3455.6	3499.9	3442.5	3410.3	3323.5	3295.0	3230.7	3204.0	3121.3	3054.3	2969.7
62.5°	4086.3	4126.5	4150.5	4104.8	4054.1	3979.5	3882.2	3774.5	3686.8	3584.1	3494.5
65°	4143.3	4224.7	4279.9	4301.2	4265.4	4183.5	4063.6	3927.9	3793.5	3664.6	3551.5
67.5°	3876.8	3949.6	4035.1	4111.6	4116.1	4062.7	3960.5	3822.5	3667.3	3508.1	3375.5
70°	3418.9	3510.3	3585.0	3665.5	3721.6	3690.8	3639.7	3513.0	3352.0	3228.0	3075.6
72.5°	2780.6	2819.0	2837.1	2916.3	2917.2	2861.1	2824.9	2754.8	2624.9	2537.2	2420.9
75°	1623.7	1539.1	1449.1	1370.8	1307.0	1280.4	1161.8	1141.9	1062.3	1013.0	940.6
77.5°	669.6	594.0	496.8	415.8	335.7	299.5	247.0	223.9	194.1	181.0	172.4
80°	574.1	502.6	429.3	359.2	296.8	234.4	182.3	141.6	111.3	94.6	87.8
82.5°	468.7	425.7	374.6	336.6	287.7	241.1	203.6	157.9	118.1	86.9	66.5
85°	169.2	138.9	111.7	102.7	81.9	67.4	56.6	48.4	39.8	31.7	28.1
87.5°	19.0	18.1	10.4	10.0	11.3	8.1	9.5	8.6	7.2	6.3	6.8
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):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	431.6	431.6	431.6	431.6	431.6	431.6	431.6	431.6	431.6	431.6	431.6
2.5°	433.0	433.0	433.4	433.4	433.9	434.3	435.2	434.8	434.8	435.2	435.2
5°	445.2	446.5	446.1	446.1	446.1	446.5	447.0	445.2	443.4	441.6	440.7
7.5°	466.4	467.4	468.3	467.4	468.3	467.8	466.9	461.9	456.0	448.8	443.8
10°	494.0	494.0	494.9	494.5	496.3	494.9	492.2	480.9	468.3	452.9	441.6
12.5°	523.9	527.1	525.7	526.2	529.8	526.2	519.8	503.1	480.5	455.6	435.7
15°	559.2	560.5	561.5	560.1	562.4	559.2	547.9	521.2	488.2	453.3	423.9
17.5°	588.1	588.6	589.1	590.0	593.1	589.5	570.1	533.9	490.0	442.9	404.0
20°	610.8	613.0	614.8	614.8	619.4	613.9	588.1	540.2	484.1	425.7	378.7
22.5°	634.3	636.1	638.4	638.8	644.7	639.3	603.1	538.8	468.7	401.3	349.3
25°	663.2	665.1	666.9	669.1	677.3	669.6	618.0	533.4	447.4	372.3	317.6
27.5°	696.7	700.8	702.2	705.8	715.3	703.5	630.7	525.3	423.9	338.9	284.1
30°	741.5	746.5	748.3	753.3	766.4	740.6	637.9	511.2	394.1	304.9	248.4
32.5°	801.7	808.5	813.9	819.3	834.3	777.7	638.8	490.9	359.2	266.9	214.0
35°	880.4	890.8	894.9	898.5	912.5	818.0	634.7	460.6	316.7	228.0	186.8
37.5°	968.6	979.0	981.8	983.6	986.3	852.4	624.8	414.4	268.7	194.1	165.1
40°	1077.2	1086.3	1089.9	1087.2	1072.7	879.1	602.6	360.6	222.1	171.0	151.6
42.5°	1209.8	1223.3	1224.7	1212.5	1164.5	894.0	558.3	297.2	185.5	154.3	141.2
45°	1374.0	1373.1	1365.4	1356.8	1264.5	888.1	496.3	242.0	162.4	141.2	131.7
47.5°	1521.5	1506.1	1494.3	1469.0	1352.7	853.7	416.2	200.4	148.4	131.2	123.5
50°	1642.3	1614.2	1589.4	1561.8	1418.3	792.6	336.6	170.1	135.3	122.6	115.8
52.5°	1737.7	1703.8	1674.9	1647.7	1481.7	724.8	276.0	147.9	122.6	114.0	107.2
55°	1887.0	1853.1	1807.0	1777.1	1578.5	662.3	236.6	130.3	110.4	105.0	98.2
57.5°	2264.8	2235.0	2179.8	2102.4	1827.3	638.8	214.4	116.7	100.4	97.3	91.8
60°	2924.4	2876.0	2804.1	2725.4	2333.1	654.7	196.8	107.2	93.7	90.9	86.9
62.5°	3422.1	3337.1	3255.6	3182.8	2737.6	654.2	173.7	100.0	88.7	87.3	83.2
65°	3442.5	3356.1	3274.2	3197.7	2746.6	582.3	146.6	93.7	87.8	87.3	80.5
67.5°	3259.7	3166.0	3086.9	2990.5	2542.6	455.1	117.6	89.6	91.4	90.5	79.6
70°	2961.1	2838.9	2773.8	2678.8	2237.7	318.5	96.8	90.9	99.1	96.4	81.0
72.5°	2324.1	2231.8	2132.7	2066.7	1751.8	201.3	81.4	91.8	102.2	97.7	84.6
75°	865.0	889.9	849.2	834.7	889.9	118.1	72.4	85.5	91.4	84.6	76.9
77.5°	174.6	166.9	158.3	156.5	202.2	72.8	66.5	74.2	70.1	62.0	62.4
80°	83.7	81.4	78.7	78.3	75.1	60.6	61.5	63.3	52.9	48.0	51.1
82.5°	55.6	52.5	51.6	49.8	50.7	54.3	58.4	54.3	40.7	38.0	46.1
85°	25.8	24.9	24.4	24.4	27.1	48.9	48.4	39.8	28.1	27.1	46.1
87.5°	6.3	6.3	6.8	6.3	7.2	14.5	12.7	12.2	10.4	11.8	21.7
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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	165°	175°	180°
0°	431.6	431.6	431.6
2.5°	434.8	435.2	434.8
5°	438.8	438.8	438.8
7.5°	438.8	437.5	437.0
10°	432.5	428.4	428.4
12.5°	421.7	414.9	414.0
15°	401.3	392.2	390.9
17.5°	375.5	363.3	361.0
20°	346.6	331.2	328.5
22.5°	314.9	297.2	295.9
25°	283.7	265.6	262.0
27.5°	248.8	231.2	229.4
30°	214.0	198.6	197.7
32.5°	184.6	175.1	173.3
35°	163.8	158.3	156.1
37.5°	150.2	146.1	145.7
40°	139.8	136.2	135.7
42.5°	131.2	128.0	127.6
45°	122.6	119.9	119.0
47.5°	114.0	111.3	110.8
50°	106.3	102.7	102.2
52.5°	99.1	95.5	94.6
55°	92.3	88.7	88.7
57.5°	86.4	82.8	82.3
60°	81.0	77.4	76.9
62.5°	76.9	72.4	71.9
65°	73.7	69.2	68.3
67.5°	71.9	66.5	65.1
70°	75.1	65.1	62.9
72.5°	75.6	63.8	60.6
75°	72.8	60.2	57.9
77.5°	63.8	53.8	51.6
80°	55.2	41.6	38.5
82.5°	52.5	33.9	29.4
85°	40.7	22.2	20.8
87.5°	23.1	12.2	10.0
90°	0.0	0.0	0.0

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