

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: P181244

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P181244  
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: ICM-F02-LED-E1-T2-7030  
Description: ICON SITE MEDIUM 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: 4297.9 lumens  
Efficiency: N/A  
Efficacy: 78.1 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

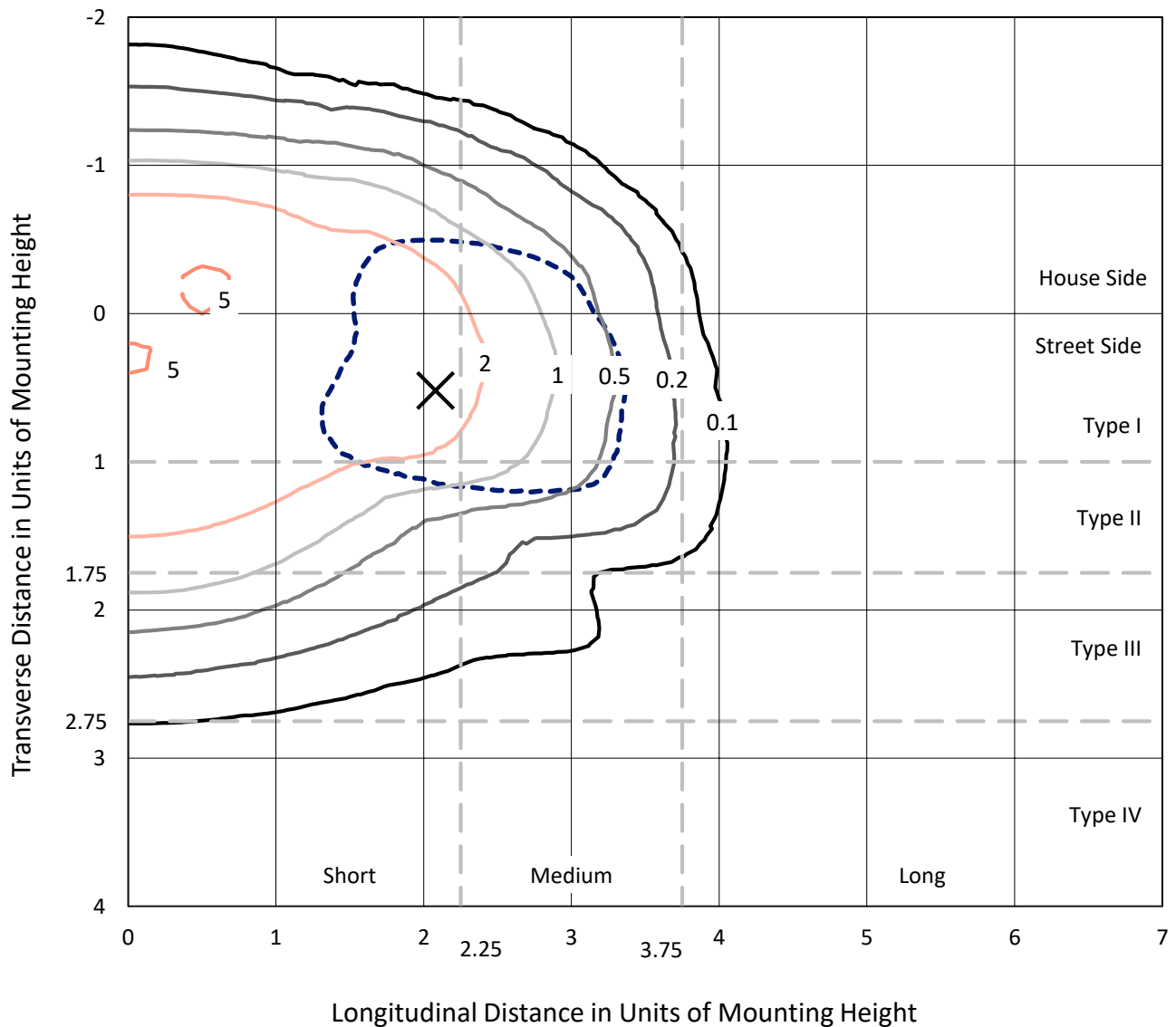


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

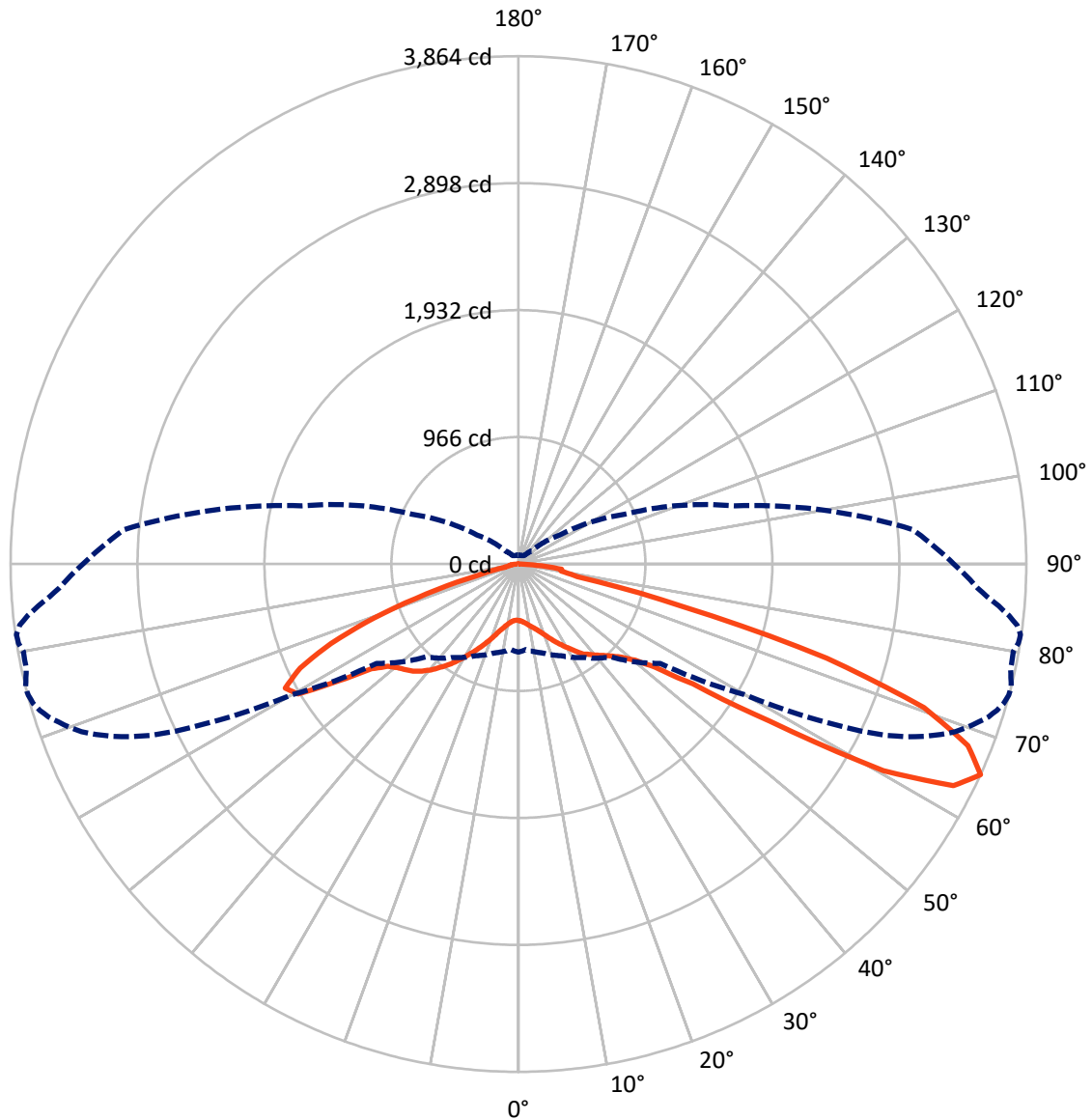


Based on 10 foot mounting height. Maximum calculated value = 5.2 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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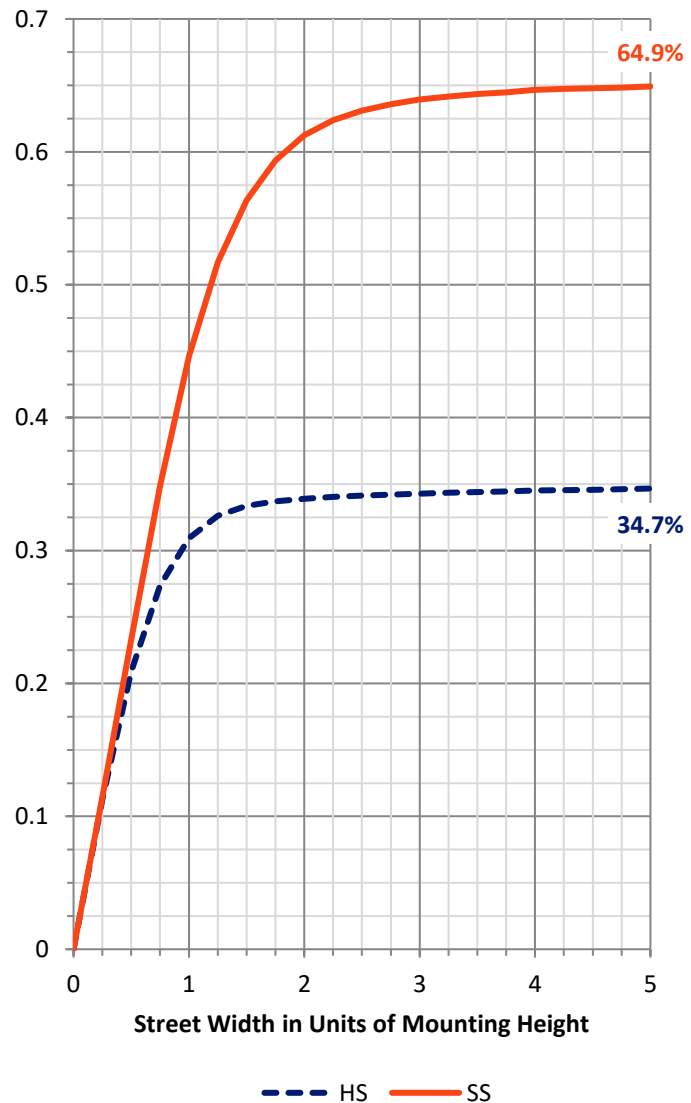
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1505.0	0.0	1505.0
	% Fixture	35.0	0.0	35.0
<b>Street Side</b>	Lumens	2792.9	0.0	2792.9
	% Fixture	65.0	0.0	65.0
<b>Total</b>	Lumens	4297.9	0.0	4297.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.0	1.0
10°-20°	147.8	3.4
20°-30°	290.4	6.8
30°-40°	482.5	11.2
40°-50°	708.9	16.5
50°-60°	981.5	22.8
60°-70°	1171.6	27.3
70°-80°	414.3	9.6
80°-90°	57.9	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°	4297.9	100.0
0°-180°	4297.9	100.0



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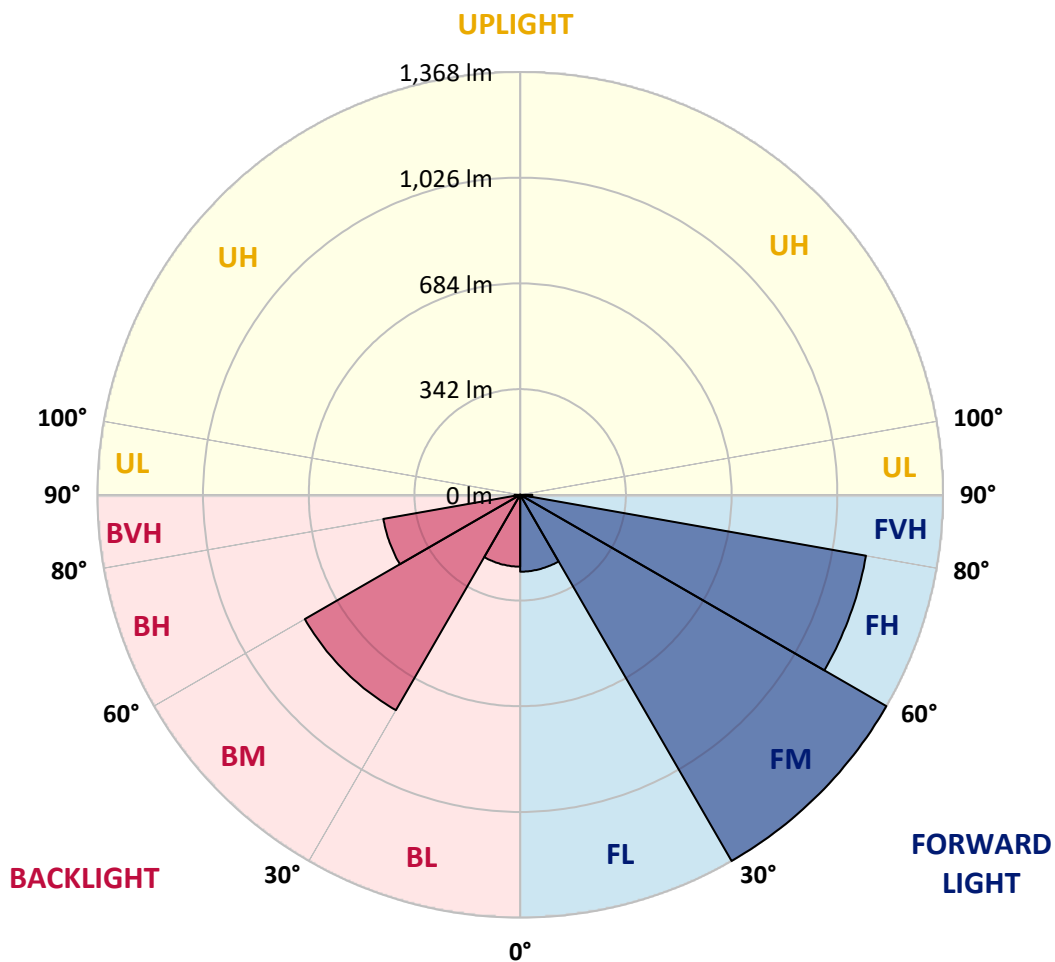
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	248.7	5.8			
FM	(30°-60°)	1368.3	31.8			
FH	(60°-80°)	1136.3	26.4			G1/1800
FVH	(80°-90°)	39.6	0.9			G1/100
BL	(0°-30°)	232.5	5.4	B1/500		
BM	(30°-60°)	804.6	18.7	B1/1000		
BH	(60°-80°)	449.6	10.5	B1/500		G1/500
BVH	(80°-90°)	18.3	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°	429.7	429.7	429.7	429.7	429.7	429.7	429.7	429.7	429.7	429.7	429.7
2.5°	448.5	448.9	448.0	447.4	446.0	443.7	441.9	440.0	440.0	440.0	438.6
5°	468.1	469.0	467.2	465.8	461.5	459.2	455.9	453.6	452.7	452.2	450.8
7.5°	492.8	491.4	488.7	487.7	484.5	479.3	473.2	468.6	468.6	468.1	468.6
10°	517.6	513.9	512.5	511.1	506.0	499.4	492.4	487.3	486.8	486.3	484.9
12.5°	542.4	541.0	539.6	534.4	529.3	519.1	511.1	506.0	505.5	506.0	504.1
15°	575.2	571.9	570.4	561.6	550.3	539.2	529.3	524.7	523.3	523.7	522.3
17.5°	600.4	600.4	597.1	587.3	572.8	557.4	547.1	544.3	543.8	543.8	544.3
20°	620.5	620.0	616.7	608.8	591.5	576.1	571.0	570.0	569.5	569.5	571.0
22.5°	631.7	630.8	629.4	620.5	607.0	596.7	597.1	599.9	600.8	601.8	603.6
25°	637.3	635.9	635.4	629.4	619.5	618.1	626.6	634.1	635.9	637.8	640.1
27.5°	646.7	644.4	645.3	643.0	640.6	644.8	662.1	670.1	671.4	673.8	675.2
30°	672.4	671.4	675.2	676.1	678.1	684.1	700.0	707.4	710.7	710.7	717.3
32.5°	721.5	722.0	722.9	732.7	736.0	740.2	748.7	754.7	755.2	755.6	761.7
35°	787.4	790.2	798.1	806.6	814.5	814.1	808.9	812.2	809.9	812.7	813.1
37.5°	870.7	866.9	878.6	897.8	910.0	906.7	883.7	868.7	873.0	871.2	869.8
40°	934.7	938.9	961.4	986.6	996.0	1006.2	976.4	950.6	946.9	939.9	935.6
42.5°	1023.1	1023.5	1041.8	1060.5	1087.6	1110.1	1090.9	1054.0	1042.7	1034.3	1016.1
45°	1104.9	1103.5	1118.5	1141.4	1173.7	1206.0	1212.9	1172.8	1168.6	1153.6	1129.7
47.5°	1159.6	1157.8	1168.1	1198.0	1250.3	1303.2	1332.2	1320.0	1312.1	1306.0	1268.6
50°	1196.6	1192.8	1204.6	1236.3	1294.8	1376.1	1451.9	1462.1	1458.9	1458.9	1435.1
52.5°	1224.2	1224.2	1232.6	1258.3	1317.7	1419.2	1554.8	1606.6	1610.9	1615.5	1614.1
55°	1208.8	1211.1	1232.1	1269.5	1332.2	1449.1	1639.8	1753.5	1776.8	1796.5	1819.0
57.5°	1155.9	1163.8	1191.9	1253.1	1335.9	1471.5	1734.3	1959.3	2025.1	2082.2	2171.1
60°	1078.7	1089.0	1129.7	1207.8	1308.3	1435.1	1767.5	2133.1	2237.9	2362.3	2594.2
62.5°	946.4	956.7	996.5	1074.5	1160.6	1295.3	1630.1	2158.9	2326.2	2502.5	2853.2
65°	670.5	654.1	700.0	770.1	868.7	999.3	1317.2	1986.3	2227.2	2466.1	2899.1
67.5°	373.6	372.2	400.3	452.7	547.1	687.4	907.6	1523.5	1745.0	2015.8	2547.5
70°	257.7	260.5	278.2	334.8	412.9	534.0	646.7	956.7	1116.2	1299.9	1822.7
72.5°	180.9	187.1	196.8	230.5	310.5	449.9	660.7	571.9	651.4	776.7	1096.0
75°	106.1	110.3	117.4	133.8	176.7	300.7	684.1	502.7	502.7	532.1	663.1
77.5°	65.5	65.5	69.7	76.2	94.0	147.3	487.3	564.8	548.9	532.1	533.5
80°	33.7	36.0	42.0	45.4	52.4	67.3	218.8	527.0	578.0	612.1	588.2
82.5°	15.4	17.3	25.7	27.6	30.4	35.5	75.3	299.7	401.7	528.8	660.7
85°	7.9	7.9	13.6	16.8	18.2	16.4	27.6	121.1	183.3	279.6	437.7
87.5°	1.4	1.4	2.3	2.8	4.2	3.7	4.7	7.0	11.7	12.7	13.1
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):**

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	429.7	429.7	429.7	429.7	429.7	429.7	429.7	429.7	429.7	429.7	429.7
2.5°	438.1	438.6	438.1	437.7	436.7	436.7	436.7	436.3	436.3	436.3	435.8
5°	450.8	448.9	449.4	448.5	448.0	447.4	448.0	447.0	446.0	446.5	446.0
7.5°	466.7	465.8	463.8	463.8	463.4	462.4	462.4	461.0	460.6	459.6	459.2
10°	484.5	482.0	483.1	482.0	482.5	480.7	479.7	478.8	477.9	477.9	478.3
12.5°	502.7	502.2	500.8	499.8	499.8	498.4	498.9	498.4	497.0	496.6	495.2
15°	521.4	521.4	520.0	520.5	520.0	519.1	518.0	518.0	517.1	516.2	516.7
17.5°	543.4	543.4	543.4	543.4	543.8	542.4	542.9	542.0	541.0	542.9	542.9
20°	571.9	573.8	573.8	573.3	575.6	574.2	573.8	576.1	573.8	577.0	576.6
22.5°	604.6	606.5	606.5	608.4	608.8	610.2	611.2	610.2	612.1	614.0	614.0
25°	641.1	643.0	644.4	647.2	648.6	647.6	648.1	650.4	651.4	653.2	655.1
27.5°	679.4	679.9	681.8	685.0	687.4	688.3	688.7	692.5	692.9	694.0	695.8
30°	716.8	721.5	720.6	724.7	726.1	727.5	730.4	731.8	735.1	736.9	736.9
32.5°	760.7	759.8	763.5	766.9	769.2	771.5	773.9	775.7	777.6	778.5	783.3
35°	815.4	817.4	817.4	817.9	823.4	823.9	825.8	830.0	831.4	834.1	836.1
37.5°	869.8	866.4	866.0	866.0	864.1	865.5	866.0	866.4	868.3	868.7	870.7
40°	930.5	926.3	922.6	920.2	916.5	911.4	910.4	908.1	909.5	909.0	909.5
42.5°	1013.8	1002.1	993.2	986.6	979.2	973.5	969.3	963.3	959.1	953.9	952.9
45°	1119.9	1098.0	1083.0	1072.2	1061.4	1046.1	1037.1	1027.8	1019.4	1011.0	1003.9
47.5°	1259.3	1235.8	1212.0	1192.4	1175.5	1150.8	1125.5	1111.4	1095.1	1080.7	1070.3
50°	1423.4	1395.3	1384.1	1356.5	1335.5	1298.1	1266.7	1243.8	1211.1	1189.1	1170.0
52.5°	1591.3	1584.2	1578.1	1554.8	1530.0	1508.5	1480.8	1440.7	1407.5	1382.2	1342.9
55°	1819.9	1823.2	1820.8	1808.2	1799.3	1778.7	1767.5	1732.5	1717.5	1681.0	1639.8
57.5°	2204.8	2230.9	2264.1	2277.2	2295.0	2278.2	2297.8	2321.6	2262.2	2282.8	2245.9
60°	2696.2	2816.3	2887.8	2975.7	3033.3	3113.7	3128.2	3149.2	3143.2	3154.9	3178.7
62.5°	2996.4	3139.0	3276.0	3375.6	3482.2	3541.1	3612.2	3661.7	3713.1	3747.7	3738.0
65°	3084.8	3231.6	3355.9	3464.9	3560.3	3632.3	3698.3	3760.4	3807.7	3840.9	3860.5
67.5°	2760.2	2951.9	3082.9	3210.5	3333.5	3409.2	3464.4	3524.8	3594.0	3651.5	3662.7
70°	2077.0	2364.7	2550.2	2703.2	2847.6	2949.6	3026.7	3082.9	3136.7	3177.8	3222.6
72.5°	1299.0	1550.5	1762.8	1961.1	2114.4	2254.7	2319.7	2444.1	2427.7	2459.1	2492.8
75°	778.5	901.0	1018.0	1157.8	1238.1	1355.1	1376.1	1396.8	1386.0	1350.9	1377.0
77.5°	541.0	561.1	560.2	552.2	543.8	523.3	496.6	482.0	472.3	458.2	463.8
80°	544.3	500.8	434.4	365.2	301.6	259.5	242.7	242.7	260.0	284.7	309.6
82.5°	650.4	604.1	538.7	450.8	357.2	290.9	246.4	228.7	231.9	257.2	288.9
85°	438.6	448.9	393.7	360.0	285.2	222.1	186.1	151.1	133.8	138.0	156.2
87.5°	15.9	19.2	7.0	9.4	6.5	5.6	5.6	6.0	4.2	5.1	4.7
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):**

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	429.7	429.7	429.7	429.7	429.7	429.7	429.7	429.7	429.7	429.7	429.7
2.5°	435.4	434.9	434.9	434.0	434.0	433.5	433.5	433.0	432.6	432.6	432.1
5°	445.6	445.1	444.2	443.7	442.8	442.8	442.3	441.4	441.4	440.5	440.0
7.5°	460.1	459.2	458.2	457.8	457.3	455.9	455.9	455.0	455.0	454.0	453.6
10°	477.4	476.5	475.5	476.0	474.6	474.1	473.2	473.2	471.8	471.4	471.4
12.5°	496.1	495.6	495.6	494.2	493.8	493.3	491.4	491.4	491.4	490.5	491.0
15°	516.2	516.7	515.3	516.7	516.2	514.8	514.8	514.8	512.9	515.3	513.4
17.5°	543.4	544.7	543.8	544.3	543.4	543.4	543.8	543.4	544.3	544.3	547.1
20°	577.0	577.5	579.8	578.9	578.9	578.4	579.4	579.8	581.7	580.7	582.6
22.5°	614.0	616.3	616.7	618.6	618.6	618.1	619.1	620.9	621.9	623.3	622.8
25°	656.0	657.4	659.4	656.9	660.7	660.7	661.7	664.0	664.5	664.5	667.7
27.5°	695.4	699.1	699.5	701.9	700.5	701.4	704.7	706.1	707.9	707.9	708.8
30°	739.7	741.1	742.1	744.8	744.4	744.8	745.3	747.7	747.7	750.1	752.4
32.5°	785.6	786.5	787.4	790.2	791.2	793.0	792.1	794.0	796.3	796.7	798.1
35°	840.3	841.2	842.1	846.3	846.8	850.1	851.0	850.1	853.9	851.4	853.9
37.5°	872.1	876.3	877.2	880.0	879.1	881.4	882.8	884.7	885.6	887.5	891.3
40°	910.9	912.3	915.1	916.5	918.3	918.8	920.7	922.1	923.5	927.7	931.9
42.5°	950.6	952.5	953.9	955.7	958.1	960.0	961.4	965.6	966.5	969.3	977.3
45°	998.8	997.9	998.3	998.8	999.7	1002.1	1006.2	1010.5	1013.3	1019.8	1026.3
47.5°	1058.6	1052.6	1050.2	1046.5	1047.4	1052.6	1053.5	1060.5	1066.1	1072.2	1080.1
50°	1149.3	1133.0	1123.2	1113.3	1112.4	1115.2	1119.0	1126.4	1133.0	1140.9	1152.2
52.5°	1301.8	1270.4	1250.8	1223.7	1216.2	1214.8	1212.0	1216.2	1218.1	1228.8	1249.9
55°	1610.4	1552.4	1515.0	1472.9	1433.7	1422.0	1399.5	1404.2	1399.5	1406.1	1437.4
57.5°	2254.7	2208.5	2172.0	2118.2	2050.9	1979.4	1961.6	1888.2	1902.6	1944.8	1917.6
60°	3190.4	3173.6	3147.4	3121.7	3029.5	2977.7	2893.0	2883.6	2824.3	2824.8	2786.0
62.5°	3714.1	3735.7	3719.7	3712.2	3707.1	3690.7	3648.7	3598.2	3522.4	3467.6	3387.3
65°	3863.7	3845.5	3828.2	3825.9	3824.5	3851.1	3857.2	3821.7	3753.0	3667.8	3575.3
67.5°	3689.3	3679.0	3680.0	3660.3	3672.5	3718.8	3751.1	3741.2	3678.1	3575.3	3457.4
70°	3274.1	3254.0	3274.5	3300.3	3318.5	3345.1	3377.4	3385.4	3327.8	3222.2	3102.1
72.5°	2451.6	2454.9	2474.5	2481.5	2554.9	2547.5	2576.5	2482.0	2440.4	2339.8	2278.2
75°	1290.1	1269.0	1323.7	1207.8	1160.1	1193.3	1100.3	1011.0	1029.7	1045.1	933.8
77.5°	455.9	426.4	376.4	356.3	296.5	251.1	205.3	185.2	174.4	168.8	161.8
80°	327.4	336.7	326.4	302.0	256.7	205.8	162.2	128.1	109.9	100.1	93.5
82.5°	331.1	368.0	384.4	377.3	336.2	254.3	167.9	107.1	79.5	66.4	61.8
85°	177.7	194.5	187.1	157.6	141.7	84.7	58.0	38.8	32.7	30.0	27.6
87.5°	7.0	5.6	4.7	4.7	5.1	5.6	4.7	5.1	4.7	4.7	4.7
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):**

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	429.7	429.7	429.7	429.7	429.7	429.7	429.7	429.7	429.7	429.7	429.7
2.5°	431.2	431.2	431.2	430.7	429.7	427.4	425.0	423.2	421.8	420.4	418.5
5°	439.5	438.6	438.6	438.6	434.9	431.2	427.8	424.6	421.8	419.4	417.6
7.5°	453.6	453.1	451.3	450.8	448.0	441.9	438.1	432.6	429.2	426.0	425.0
10°	470.4	470.0	469.5	469.0	465.2	459.2	454.5	449.4	444.7	440.0	435.4
12.5°	490.0	489.6	489.1	487.7	486.3	483.1	477.9	472.3	466.7	456.8	451.7
15°	514.3	515.3	514.3	513.9	512.9	513.4	510.1	502.2	493.3	480.7	470.0
17.5°	546.6	545.7	545.2	547.1	546.6	548.9	548.0	537.8	524.2	504.1	485.4
20°	582.1	582.1	584.0	585.4	589.7	595.7	592.9	580.3	555.5	527.4	503.2
22.5°	624.7	625.7	627.5	626.6	633.1	643.0	643.9	626.1	593.9	555.1	520.9
25°	669.1	670.1	668.2	671.0	681.8	695.8	698.6	673.3	630.8	580.3	535.9
27.5°	711.2	712.2	712.2	715.9	726.1	750.1	752.8	724.7	668.2	602.2	546.6
30°	752.4	756.1	757.0	758.0	773.4	806.6	812.7	772.0	700.9	618.6	554.1
32.5°	804.3	805.7	807.5	809.9	827.6	868.3	868.3	812.7	722.0	628.9	555.5
35°	859.9	860.4	864.6	865.0	890.3	931.0	923.1	846.3	736.9	626.6	545.2
37.5°	893.6	895.4	899.6	905.3	931.9	989.4	971.2	875.4	739.7	611.2	521.9
40°	935.2	938.9	943.2	948.7	988.5	1048.8	1011.9	893.6	728.0	580.7	486.8
42.5°	980.1	985.2	991.7	1002.1	1049.3	1101.2	1042.7	896.4	701.4	546.6	445.1
45°	1030.6	1039.9	1047.4	1059.5	1112.8	1146.5	1061.4	880.0	667.7	501.8	400.7
47.5°	1089.0	1096.5	1109.6	1122.7	1176.0	1177.4	1063.4	848.2	621.9	456.8	353.5
50°	1161.0	1165.7	1185.3	1193.3	1243.4	1209.7	1049.8	805.2	573.8	406.3	301.1
52.5°	1256.9	1263.4	1288.7	1300.8	1336.4	1253.6	1030.6	758.4	518.6	349.8	247.4
55°	1446.2	1474.8	1492.6	1513.6	1536.5	1353.2	1022.1	708.4	456.4	284.3	195.9
57.5°	1978.0	1968.6	2007.8	2055.5	2055.1	1580.9	1072.7	665.4	383.0	217.4	150.6
60°	2770.1	2778.9	2758.8	2787.4	2696.7	1863.4	1141.9	620.0	300.2	161.8	115.1
62.5°	3358.7	3307.3	3278.8	3245.1	3045.4	1894.2	1091.4	527.0	218.3	113.6	88.4
65°	3498.1	3437.8	3376.5	3312.5	3011.3	1707.6	895.4	386.7	141.2	78.0	70.1
67.5°	3360.6	3263.8	3185.7	3119.8	2759.3	1415.5	654.6	237.6	80.9	63.2	59.8
70°	3004.3	2897.2	2771.0	2697.1	2323.5	1043.2	419.4	128.1	62.2	56.1	54.7
72.5°	2199.1	2111.2	1973.2	1888.7	1668.4	634.1	234.2	72.0	58.0	53.8	51.9
75°	856.7	810.8	753.3	758.0	676.7	280.6	106.1	62.2	56.6	52.8	51.0
77.5°	147.3	143.5	132.8	132.8	151.1	102.4	70.6	62.7	56.1	51.9	48.7
80°	88.4	86.5	82.3	81.4	78.5	72.0	67.8	63.6	55.2	49.1	44.9
82.5°	58.0	55.6	54.2	53.8	58.4	63.2	63.6	63.2	52.4	42.5	36.5
85°	24.7	24.7	24.7	25.2	33.7	51.0	52.4	56.1	43.0	33.2	26.1
87.5°	4.2	5.1	5.1	5.6	6.0	11.3	14.0	18.2	14.5	14.0	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):**

	165°	175°	180°
0°	429.7	429.7	429.7
2.5°	418.0	417.1	417.1
5°	416.7	415.7	416.2
7.5°	422.2	420.4	420.8
10°	432.6	430.7	429.7
12.5°	445.6	443.3	443.3
15°	459.2	453.6	453.1
17.5°	470.4	463.4	462.4
20°	483.1	473.7	472.3
22.5°	494.7	482.0	480.2
25°	503.2	487.7	485.4
27.5°	506.9	488.7	486.8
30°	509.7	489.1	486.3
32.5°	506.9	484.9	482.5
35°	491.4	467.6	466.2
37.5°	464.7	438.1	436.3
40°	429.7	401.7	397.0
42.5°	384.8	358.6	353.5
45°	341.3	311.4	309.1
47.5°	294.6	266.0	267.4
50°	245.5	219.8	219.3
52.5°	198.7	176.3	174.9
55°	156.7	140.7	139.3
57.5°	123.9	115.5	114.0
60°	101.0	96.8	95.3
62.5°	81.4	80.0	79.5
65°	67.8	67.8	67.8
67.5°	58.9	59.3	59.3
70°	54.2	54.7	54.2
72.5°	52.4	53.8	53.8
75°	51.0	51.9	50.0
77.5°	50.0	50.5	47.3
80°	49.6	49.1	43.0
82.5°	43.0	41.6	36.5
85°	39.3	30.0	25.2
87.5°	20.1	14.0	10.8
90°	0.0	0.0	0.0

(END OF REPORT)