

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: P180463

Luminaire Tested: **ICM-F01-LED-E1-SL2**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180463  
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: ICM-F01-LED-E1-SL2  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL  
Light Source: (7) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2346.1 lumens  
Efficiency: N/A  
Efficacy: 90.6 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 1' x H: 0.1')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G1

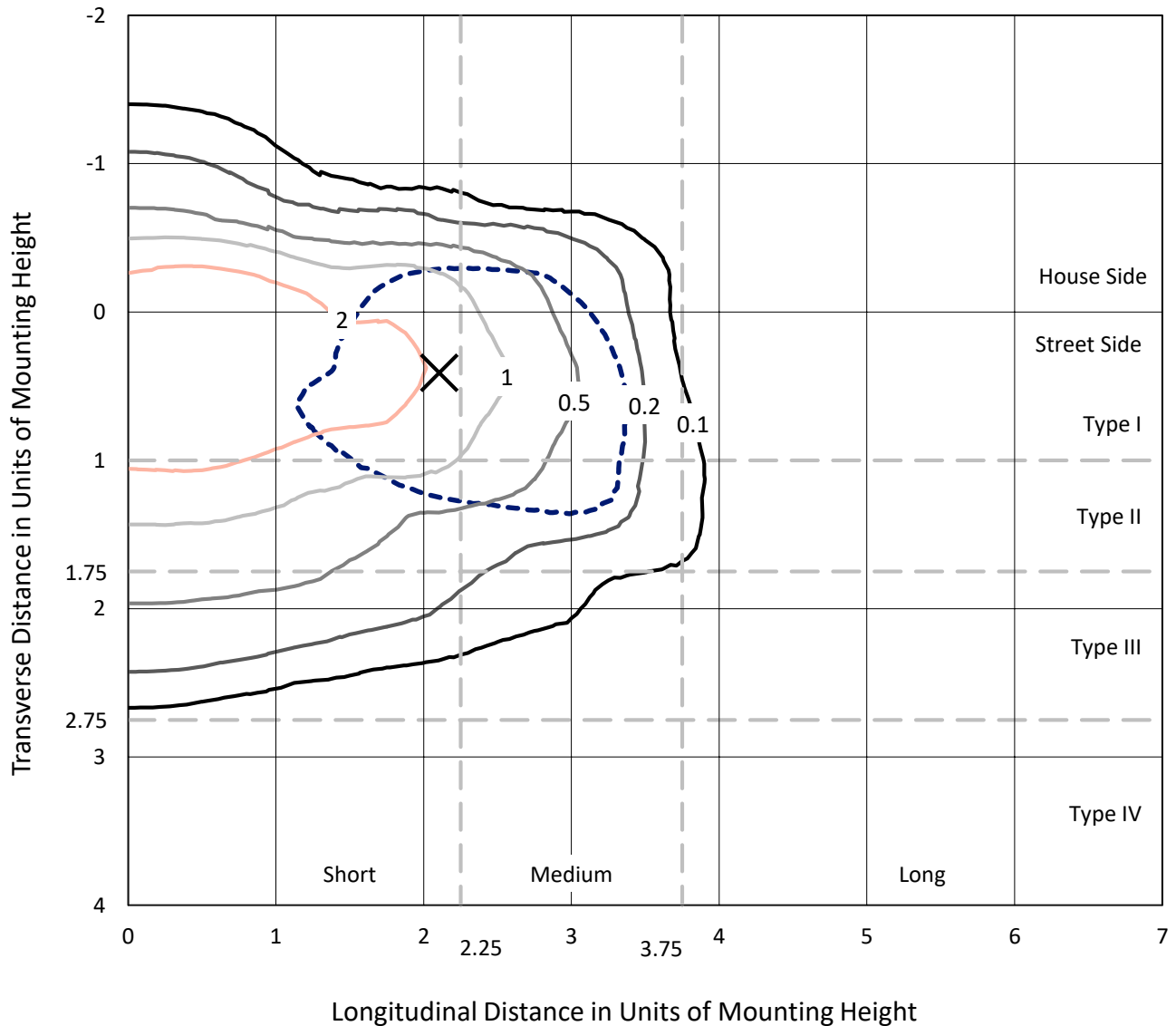
Input Watts (W): 25.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

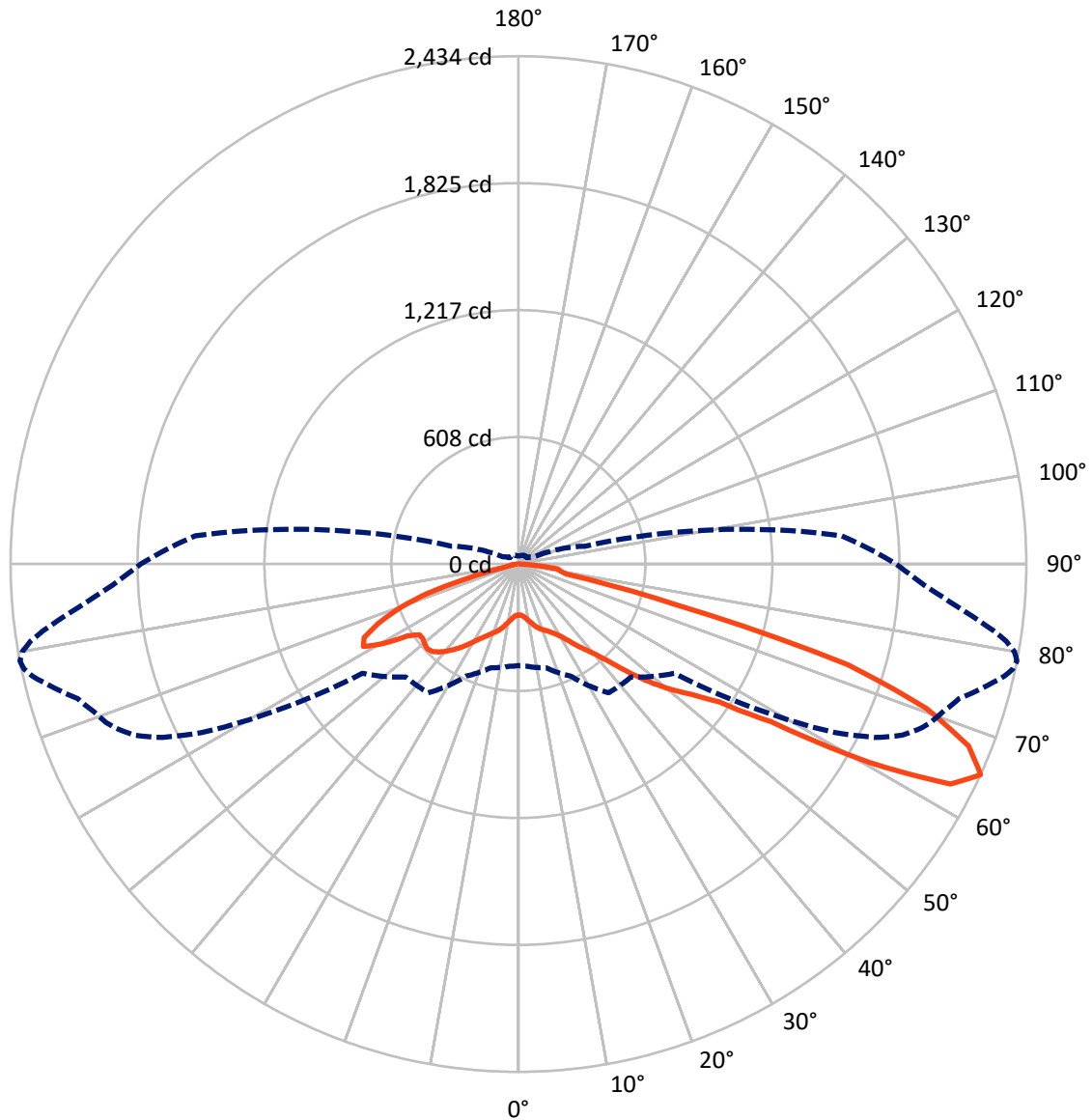
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.2 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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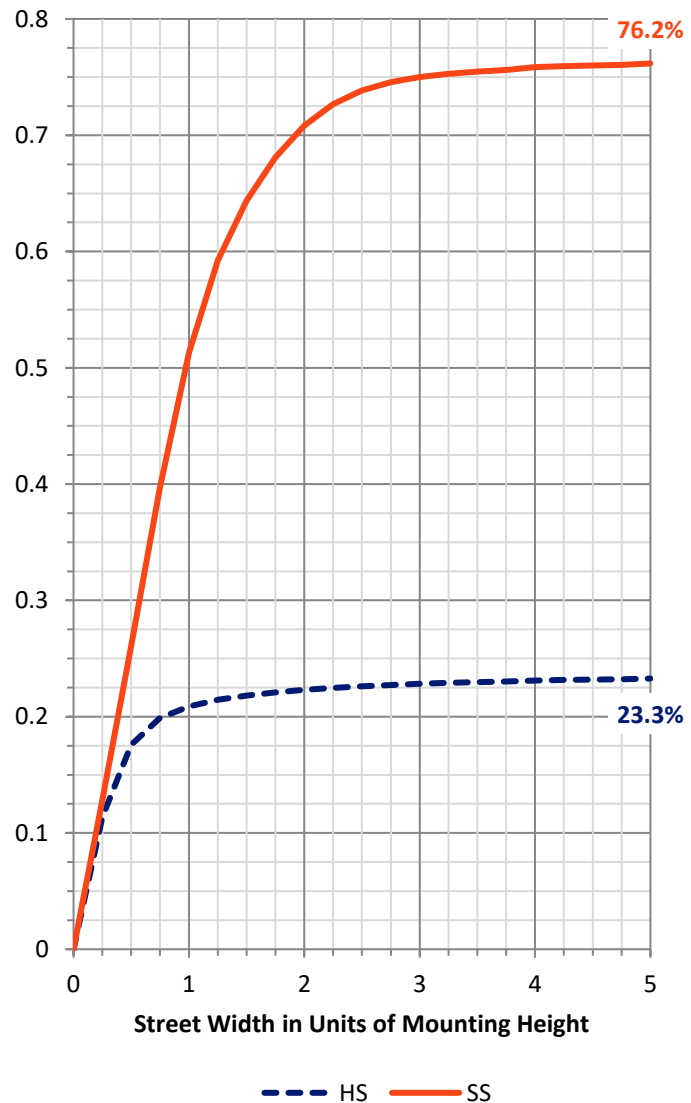
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	554.6	0.0	554.6
	% Fixture	23.6	0.0	23.6
<b>Street Side</b>	Lumens	1791.5	0.0	1791.5
	% Fixture	76.4	0.0	76.4
<b>Total</b>	Lumens	2346.1	0.0	2346.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	24.3	1.0
10°-20°	79.4	3.4
20°-30°	137.1	5.8
30°-40°	226.9	9.7
40°-50°	384.9	16.4
50°-60°	511.4	21.8
60°-70°	660.6	28.2
70°-80°	277.1	11.8
80°-90°	44.5	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°	2346.1	100.0
0°-180°	2346.1	100.0



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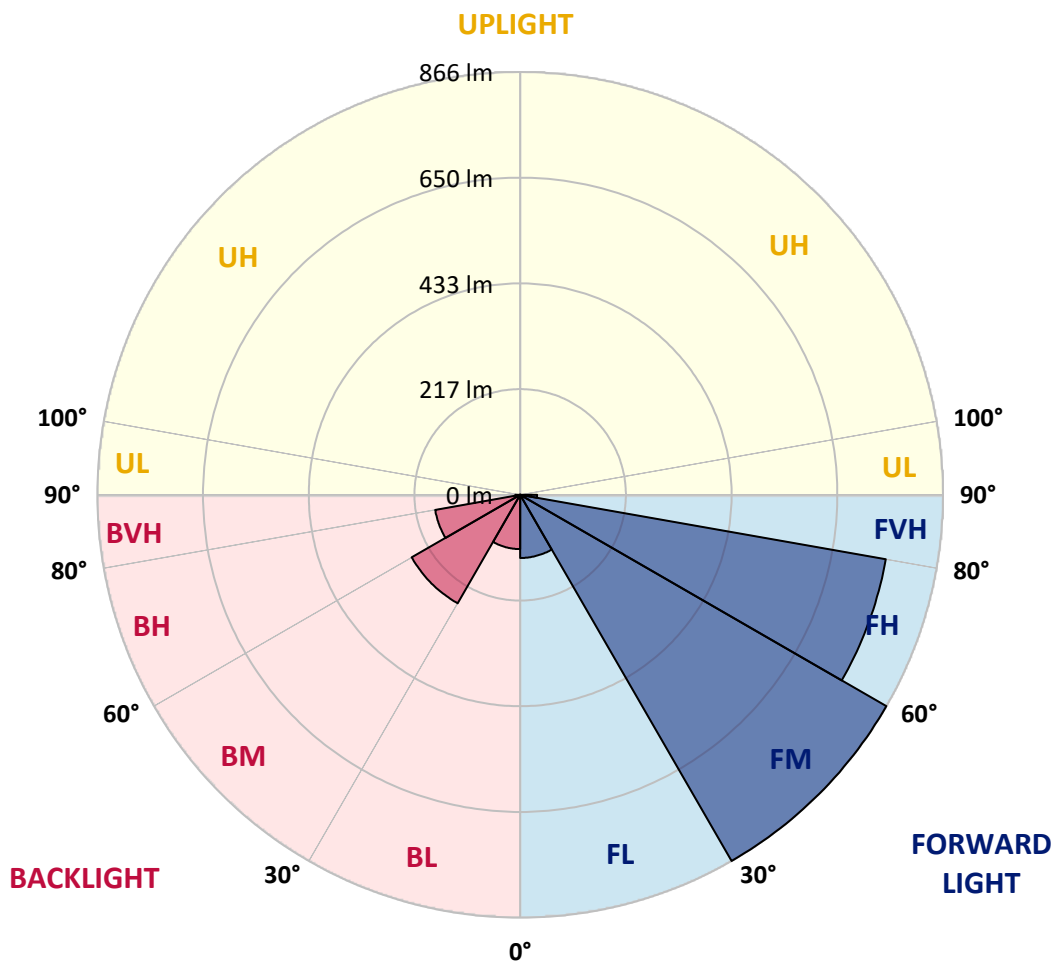
CATALOG NUMBER: ICM-F01-LED-E1-SL2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	129.5	5.5			
FM (30°-60°)	866.5	36.9			
FH (60°-80°)	760.8	32.4			G1/1800
FVH (80°-90°)	34.8	1.5			G1/100
BL (0°-30°)	111.3	4.7	B1/500		
BM (30°-60°)	256.7	10.9	B1/1000		
BH (60°-80°)	176.9	7.5	B1/500		G1/500
BVH (80°-90°)	9.7	0.4			G0/10
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°	244.2	244.2	244.2	244.2	244.2	244.2	244.2	244.2	244.2	244.2	244.2
2.5°	243.4	244.2	243.7	244.2	244.7	244.9	245.5	245.2	245.2	245.5	244.9
5°	243.4	243.4	244.2	245.5	246.0	247.5	249.3	249.0	249.3	249.0	249.6
7.5°	248.6	248.3	249.0	250.6	251.1	253.4	256.5	257.0	257.5	257.5	258.3
10°	257.5	257.3	258.0	258.8	259.5	261.4	265.7	267.5	267.7	268.0	269.0
12.5°	268.7	268.6	267.5	267.5	267.3	270.6	276.5	279.8	280.3	281.3	282.0
15°	276.7	275.9	274.4	273.4	274.7	280.0	288.7	292.6	293.1	293.9	295.9
17.5°	284.4	283.6	280.3	277.8	279.5	288.2	300.0	304.1	305.1	305.9	308.2
20°	295.2	294.6	289.8	283.6	283.1	294.4	308.7	314.0	314.9	315.9	318.1
22.5°	311.5	309.2	303.6	292.1	286.4	298.0	314.9	322.2	323.3	324.3	327.4
25°	332.0	331.0	321.2	303.6	291.8	301.6	321.5	330.7	332.3	333.6	337.7
27.5°	353.2	351.7	341.2	318.1	301.3	308.7	332.0	342.5	344.6	346.6	350.4
30°	372.2	371.7	363.0	337.9	316.7	322.2	348.9	361.7	364.0	366.6	370.1
32.5°	416.7	417.0	408.0	382.4	353.8	346.9	373.2	392.4	393.4	396.5	402.9
35°	502.0	503.0	499.6	479.4	447.2	418.8	421.3	440.3	441.3	443.9	450.0
37.5°	559.1	561.1	571.4	577.8	561.4	548.3	515.8	508.4	509.1	507.6	506.3
40°	590.5	593.6	620.5	653.8	671.7	671.9	657.9	625.1	612.6	608.9	593.6
42.5°	608.5	613.6	651.7	708.6	760.0	795.4	804.0	767.6	758.4	742.1	712.7
45°	620.2	626.4	671.4	749.2	825.0	885.2	930.5	914.3	908.2	898.2	871.1
47.5°	618.1	623.1	669.9	763.1	859.1	944.6	1024.9	1041.6	1034.1	1031.6	1013.1
50°	580.8	585.1	632.7	728.7	840.4	967.1	1084.8	1131.9	1131.9	1136.8	1131.2
52.5°	540.8	544.5	587.7	674.0	780.0	945.0	1118.1	1196.2	1206.4	1214.9	1228.2
55°	525.8	530.1	562.9	636.7	728.5	882.1	1129.4	1244.3	1263.3	1277.6	1307.8
57.5°	532.9	537.3	560.6	616.4	698.3	817.9	1129.9	1309.0	1345.7	1375.1	1436.3
60°	563.9	568.0	587.4	635.1	690.3	780.7	1108.1	1412.2	1470.6	1525.9	1627.7
62.5°	549.6	554.7	583.1	666.1	749.5	752.6	1029.6	1492.1	1586.1	1667.7	1829.8
65°	486.9	492.3	514.5	592.1	753.1	764.8	913.0	1493.6	1610.3	1720.7	1895.5
67.5°	369.7	371.7	389.3	451.5	602.3	778.4	793.3	1316.8	1427.8	1551.0	1731.5
70°	188.9	192.5	197.6	249.3	387.8	643.3	681.7	970.4	1112.0	1239.2	1456.0
72.5°	65.5	66.8	71.9	95.3	188.9	422.1	596.7	665.0	750.5	869.6	1120.7
75°	39.4	39.4	41.2	48.1	86.2	219.9	530.9	543.2	554.7	594.6	759.0
77.5°	31.3	31.7	31.7	33.0	47.9	112.9	403.2	505.0	506.6	510.4	538.0
80°	22.2	23.3	25.3	26.3	31.0	62.0	226.3	443.4	473.6	488.2	508.4
82.5°	16.7	17.7	21.5	22.8	24.1	34.5	101.6	305.9	360.9	390.1	461.3
85°	7.4	8.7	14.6	16.1	16.9	18.4	47.6	87.1	100.1	112.4	148.2
87.5°	1.3	1.3	2.3	3.3	4.8	4.7	10.5	14.9	15.1	17.7	19.7
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°	244.2	244.2	244.2	244.2	244.2	244.2	244.2	244.2	244.2	244.2	244.2
2.5°	244.9	244.9	244.9	244.7	244.9	244.9	244.9	244.9	245.2	245.2	245.2
5°	250.3	249.9	250.0	250.0	250.0	249.9	250.3	250.0	250.3	251.1	250.9
7.5°	258.3	258.8	259.1	259.4	259.4	259.4	259.5	260.1	260.1	260.8	260.6
10°	270.0	269.8	270.0	270.8	271.6	271.8	272.7	272.4	272.8	273.9	274.9
12.5°	282.6	283.1	283.9	284.7	286.0	286.1	287.0	287.2	288.7	288.7	289.8
15°	296.7	296.9	298.5	298.7	300.3	300.7	302.0	302.6	304.4	304.7	305.7
17.5°	309.5	310.0	310.8	311.5	313.3	314.0	315.1	316.1	317.7	318.1	320.0
20°	319.7	320.7	321.0	322.5	324.1	325.1	326.1	327.2	328.7	329.5	331.3
22.5°	328.9	330.0	330.7	332.0	333.0	334.6	335.1	336.8	338.4	339.7	341.2
25°	338.9	340.5	341.2	343.5	344.3	345.9	347.1	348.9	351.0	352.5	354.5
27.5°	353.0	355.3	356.3	358.9	360.7	361.4	363.4	366.0	367.8	369.7	371.7
30°	372.5	376.8	377.6	379.4	382.7	383.2	385.8	387.8	390.6	392.4	394.2
32.5°	402.7	408.0	408.6	410.6	413.4	414.4	416.5	418.8	423.2	423.9	426.7
35°	449.0	451.3	453.3	454.1	456.4	457.7	459.3	461.8	466.1	465.6	468.7
37.5°	504.6	505.3	505.6	503.0	503.5	501.2	504.0	504.6	506.0	507.4	510.4
40°	583.9	575.9	574.9	568.7	562.6	559.4	558.0	552.9	554.2	554.7	557.3
42.5°	699.8	684.5	671.7	663.0	647.9	640.5	630.5	622.5	616.4	618.7	619.7
45°	846.8	824.7	804.3	777.7	758.0	743.9	726.2	710.3	703.2	699.8	703.9
47.5°	993.5	974.0	950.0	922.5	891.4	868.0	838.6	812.7	794.8	788.2	791.7
50°	1120.2	1102.2	1084.1	1067.9	1031.6	1006.2	966.1	932.6	904.4	890.1	886.2
52.5°	1225.4	1215.9	1206.1	1192.6	1163.4	1138.1	1106.1	1073.0	1035.7	1006.5	996.6
55°	1319.4	1324.9	1320.1	1320.4	1308.8	1292.7	1265.6	1240.9	1214.9	1181.9	1168.0
57.5°	1456.3	1489.5	1496.2	1512.8	1521.0	1529.7	1537.4	1522.8	1516.2	1491.5	1491.8
60°	1672.0	1720.7	1762.9	1801.3	1832.8	1863.5	1895.7	1910.2	1926.0	1933.4	1958.7
62.5°	1901.7	1948.0	2011.0	2062.4	2091.4	2131.3	2166.3	2189.1	2217.0	2246.7	2285.4
65°	1958.5	2014.3	2054.0	2088.3	2116.9	2138.2	2157.4	2184.5	2207.8	2254.9	2300.5
67.5°	1812.8	1857.4	1893.7	1927.5	1949.8	1967.7	1984.8	2002.8	2042.7	2085.5	2131.3
70°	1556.1	1609.9	1670.0	1713.8	1724.8	1740.1	1756.6	1779.8	1799.8	1844.6	1879.4
72.5°	1250.2	1327.5	1378.4	1439.1	1452.2	1475.5	1484.7	1502.9	1506.4	1530.7	1540.0
75°	871.4	959.9	1011.1	1055.6	1064.4	1051.5	1056.7	992.5	976.0	962.7	952.0
77.5°	575.2	599.0	607.2	600.0	565.7	538.8	510.1	482.0	485.1	462.3	422.3
80°	511.4	516.8	509.4	502.2	482.5	454.3	428.5	402.1	389.1	375.3	354.8
82.5°	497.6	518.3	520.7	511.9	496.4	465.6	434.4	395.3	362.0	331.3	300.0
85°	166.4	202.5	218.6	233.7	238.3	243.7	225.3	200.2	170.0	149.8	117.2
87.5°	21.2	26.3	30.4	26.1	30.4	35.8	25.9	28.9	29.2	18.1	13.6
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°	244.2	244.2	244.2	244.2	244.2	244.2	244.2	244.2	244.2	244.2	244.2
2.5°	245.5	245.2	245.2	245.2	244.9	245.2	245.2	245.2	245.2	245.2	244.9
5°	251.1	251.1	251.9	252.1	251.6	251.4	251.6	251.9	251.9	251.6	251.9
7.5°	261.6	261.9	262.4	263.2	262.6	262.9	263.2	262.9	263.6	263.9	263.6
10°	274.9	275.4	276.7	276.9	276.7	277.8	278.0	277.5	278.0	278.0	279.0
12.5°	290.2	290.8	292.3	292.8	293.4	293.6	294.4	294.6	295.4	295.9	296.7
15°	306.9	307.4	308.5	310.2	310.8	311.3	311.8	313.3	313.6	314.6	315.4
17.5°	321.0	321.8	323.3	324.6	325.3	326.6	327.2	328.9	329.5	331.0	332.3
20°	332.3	333.6	334.8	336.4	337.7	339.2	339.7	341.5	342.5	343.3	344.8
22.5°	342.5	344.0	345.9	347.6	348.7	350.7	351.4	352.2	354.5	355.5	357.1
25°	355.8	357.3	359.4	361.7	362.7	365.3	366.0	367.4	369.9	370.9	373.2
27.5°	374.0	376.0	377.6	379.9	381.1	383.0	384.7	386.2	388.6	390.1	392.7
30°	396.7	398.3	400.8	402.7	404.7	407.3	409.3	410.9	412.1	414.4	417.2
32.5°	430.3	430.5	431.4	435.6	437.7	439.8	442.6	443.9	446.0	448.2	451.3
35°	472.0	474.3	476.1	478.1	480.5	482.8	483.8	487.6	489.4	492.5	495.5
37.5°	513.5	513.8	517.9	519.2	521.2	523.4	527.1	530.9	535.5	538.6	543.4
40°	558.0	560.1	565.2	567.7	570.3	575.9	578.8	584.9	592.6	596.9	605.1
42.5°	622.5	625.6	634.8	638.9	645.0	654.2	660.2	668.7	671.7	682.1	686.1
45°	707.0	716.5	729.8	738.5	749.5	759.4	764.6	768.5	773.0	781.2	780.2
47.5°	798.4	810.7	825.5	843.4	850.6	862.4	869.0	876.5	872.4	870.3	868.3
50°	892.1	906.4	926.1	942.2	953.3	960.5	966.1	965.0	956.4	951.7	938.9
52.5°	996.3	1004.8	1023.4	1037.2	1043.9	1045.4	1044.1	1036.5	1028.3	1013.7	998.6
55°	1156.0	1152.2	1159.5	1166.0	1163.9	1171.1	1152.7	1145.5	1125.3	1106.3	1086.1
57.5°	1480.6	1485.7	1444.2	1425.5	1422.2	1428.8	1396.4	1392.3	1343.4	1337.2	1303.2
60°	1955.2	1980.3	1947.7	1929.6	1880.4	1864.3	1827.9	1812.8	1766.0	1728.1	1680.2
62.5°	2312.0	2334.8	2348.4	2322.5	2293.8	2251.5	2196.6	2135.6	2086.0	2027.8	1977.2
65°	2344.3	2390.3	2421.6	2433.6	2413.3	2367.0	2299.2	2222.4	2146.3	2073.4	2009.4
67.5°	2193.5	2234.7	2283.1	2326.3	2328.9	2298.7	2240.9	2162.8	2075.0	1984.8	1909.9
70°	1934.4	1986.2	2028.4	2074.0	2105.7	2088.3	2059.4	1987.6	1896.6	1826.4	1740.1
72.5°	1573.2	1595.0	1605.2	1650.1	1650.5	1618.8	1598.3	1558.6	1485.2	1435.5	1369.8
75°	918.7	870.8	819.9	775.6	739.5	724.4	657.3	646.1	601.0	573.1	532.2
77.5°	378.9	336.1	281.0	235.3	190.0	169.5	139.7	126.7	109.9	102.4	97.5
80°	324.8	284.4	242.9	203.3	167.9	132.6	103.2	80.1	63.0	53.5	49.7
82.5°	265.2	240.8	211.9	190.4	162.8	136.5	115.2	89.3	66.8	49.1	37.7
85°	95.7	78.6	63.3	58.1	46.3	38.1	32.0	27.3	22.5	18.0	15.9
87.5°	10.8	10.2	5.9	5.7	6.4	4.7	5.4	4.8	4.1	3.6	3.8
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°	244.2	244.2	244.2	244.2	244.2	244.2	244.2	244.2	244.2	244.2	244.2
2.5°	244.9	244.9	245.2	245.2	245.5	245.8	246.2	246.0	246.0	246.2	246.2
5°	251.9	252.7	252.4	252.4	252.4	252.7	252.9	251.9	250.9	249.9	249.3
7.5°	263.9	264.5	264.9	264.5	264.9	264.7	264.2	261.4	258.0	254.0	251.1
10°	279.5	279.5	280.0	279.8	280.8	280.0	278.5	272.1	264.9	256.3	249.9
12.5°	296.5	298.2	297.5	297.7	299.7	297.7	294.1	284.7	271.8	257.8	246.5
15°	316.4	317.1	317.7	316.9	318.1	316.4	310.0	294.9	276.2	256.5	239.8
17.5°	332.7	333.0	333.3	333.8	335.6	333.6	322.5	302.0	277.2	250.6	228.6
20°	345.6	346.9	347.9	347.9	350.4	347.4	332.7	305.7	273.9	240.8	214.2
22.5°	358.9	359.9	361.2	361.4	364.7	361.7	341.2	304.8	265.2	227.1	197.6
25°	375.3	376.3	377.3	378.6	383.2	378.9	349.7	301.8	253.1	210.7	179.7
27.5°	394.2	396.5	397.3	399.4	404.7	398.0	356.8	297.2	239.8	191.7	160.7
30°	419.5	422.3	423.4	426.2	433.6	419.1	360.9	289.2	223.0	172.6	140.6
32.5°	453.6	457.4	460.5	463.5	472.0	440.0	361.4	277.8	203.3	151.1	121.1
35°	498.1	504.0	506.3	508.4	516.3	462.8	359.2	260.6	179.2	129.0	105.7
37.5°	548.0	554.0	555.4	556.5	558.0	482.2	353.5	234.5	152.1	109.9	93.4
40°	609.5	614.6	616.7	615.1	606.9	497.4	340.9	204.0	125.7	96.7	85.8
42.5°	684.5	692.2	692.9	686.1	658.9	505.8	315.9	168.2	104.9	87.3	79.9
45°	777.4	776.9	772.6	767.6	715.4	502.5	280.8	136.9	91.9	79.9	74.5
47.5°	860.8	852.2	845.5	831.2	765.4	483.1	235.5	113.4	84.0	74.2	69.9
50°	929.2	913.3	899.3	883.6	802.5	448.5	190.4	96.3	76.6	69.4	65.5
52.5°	983.2	964.0	947.6	932.3	838.3	410.0	156.2	83.7	69.4	64.5	60.7
55°	1067.7	1048.5	1022.3	1005.5	893.1	374.8	133.9	73.8	62.4	59.3	55.5
57.5°	1281.4	1264.6	1233.3	1189.5	1033.9	361.4	121.3	66.0	56.8	55.1	52.0
60°	1654.6	1627.3	1586.5	1542.1	1320.1	370.4	111.3	60.7	53.0	51.4	49.1
62.5°	1936.2	1888.1	1842.1	1800.8	1548.9	370.1	98.3	56.6	50.1	49.4	47.1
65°	1947.7	1898.8	1852.5	1809.2	1554.1	329.5	83.0	53.0	49.7	49.4	45.6
67.5°	1844.3	1791.4	1746.5	1692.0	1438.6	257.5	66.5	50.7	51.7	51.2	45.0
70°	1675.4	1606.2	1569.4	1515.6	1266.1	180.2	54.8	51.4	56.1	54.5	45.9
72.5°	1315.0	1262.7	1206.7	1169.3	991.2	114.0	46.0	52.0	57.9	55.3	47.9
75°	489.4	503.5	480.5	472.3	503.5	66.8	40.9	48.4	51.7	47.9	43.5
77.5°	98.8	94.4	89.6	88.6	114.4	41.2	37.7	42.0	39.7	35.1	35.3
80°	47.3	46.0	44.6	44.3	42.5	34.3	34.8	35.8	30.0	27.2	28.9
82.5°	31.4	29.7	29.2	28.2	28.7	30.7	33.0	30.7	23.1	21.5	26.1
85°	14.6	14.0	13.9	13.9	15.3	27.6	27.3	22.5	15.9	15.3	26.1
87.5°	3.6	3.6	3.8	3.6	4.1	8.2	7.2	6.9	5.9	6.7	12.3
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):**

	165°	175°	180°
0°	244.2	244.2	244.2
2.5°	246.0	246.2	246.0
5°	248.3	248.3	248.3
7.5°	248.3	247.5	247.3
10°	244.7	242.4	242.4
12.5°	238.6	234.7	234.2
15°	227.1	222.0	221.2
17.5°	212.5	205.6	204.3
20°	196.1	187.3	185.9
22.5°	178.1	168.2	167.4
25°	160.5	150.2	148.2
27.5°	140.7	130.8	129.8
30°	121.1	112.4	111.9
32.5°	104.5	99.1	98.0
35°	92.7	89.6	88.3
37.5°	85.0	82.7	82.4
40°	79.1	77.0	76.8
42.5°	74.2	72.5	72.2
45°	69.4	67.8	67.3
47.5°	64.5	63.0	62.7
50°	60.2	58.1	57.9
52.5°	56.1	54.0	53.5
55°	52.2	50.1	50.1
57.5°	48.9	46.9	46.6
60°	45.9	43.8	43.5
62.5°	43.5	40.9	40.7
65°	41.8	39.2	38.7
67.5°	40.7	37.7	36.8
70°	42.5	36.8	35.5
72.5°	42.8	36.1	34.3
75°	41.2	34.0	32.7
77.5°	36.1	30.4	29.2
80°	31.3	23.5	21.8
82.5°	29.7	19.2	16.7
85°	23.1	12.6	11.8
87.5°	13.0	6.9	5.7
90°	0.0	0.0	0.0

(END OF REPORT)