

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: P181533

Luminaire Tested: **ICM-F02-LED-E1-T4-HSS-7030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P181533  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33725)  
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-T4-HSS-7030  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ HOUSE SIDE SHIELD  
Light Source: (14) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2713.1 lumens  
Efficiency: N/A  
Efficacy: 49.3 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B0 - U0 - G1

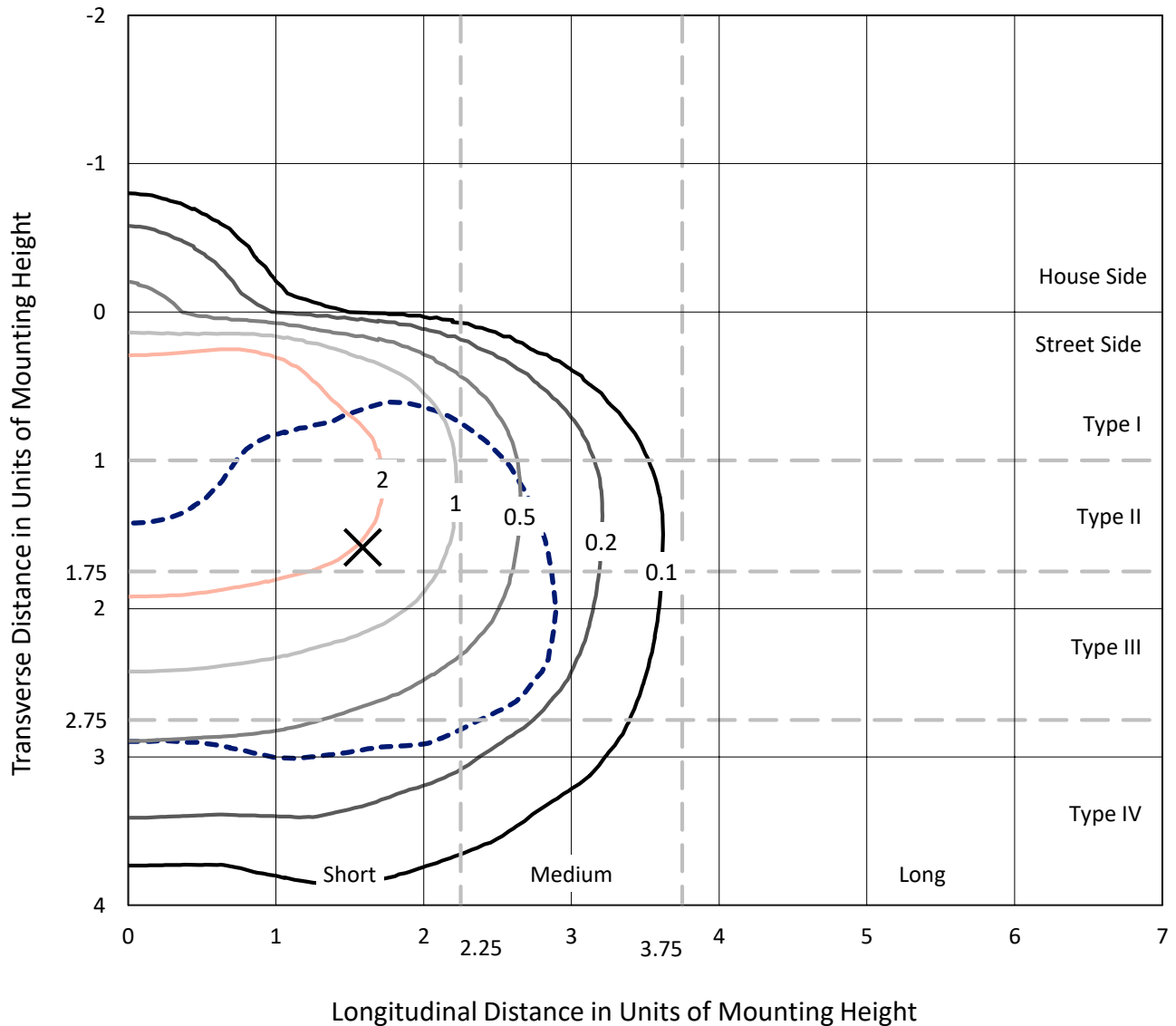
Input Watts (W): 55  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

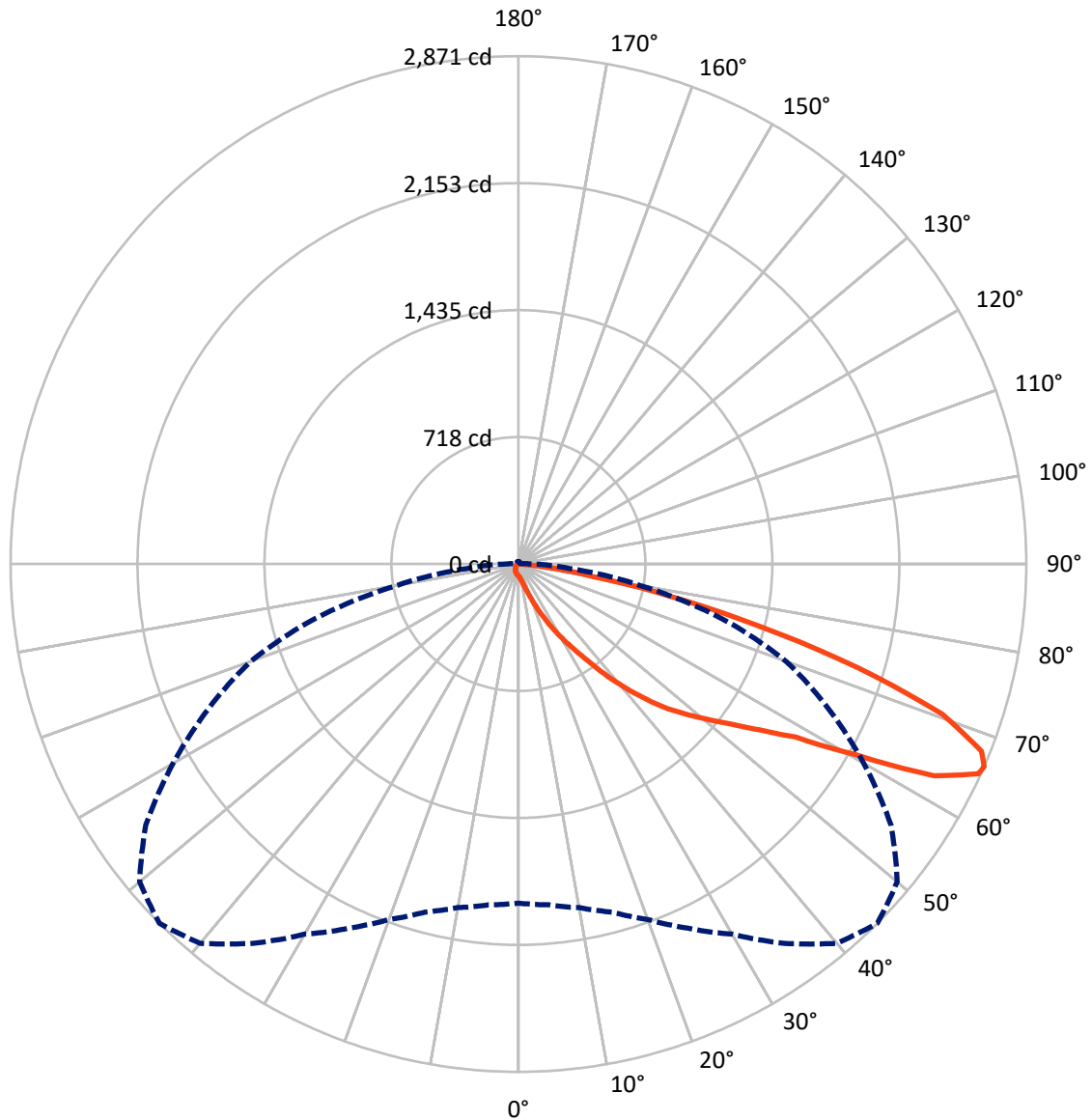
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.3 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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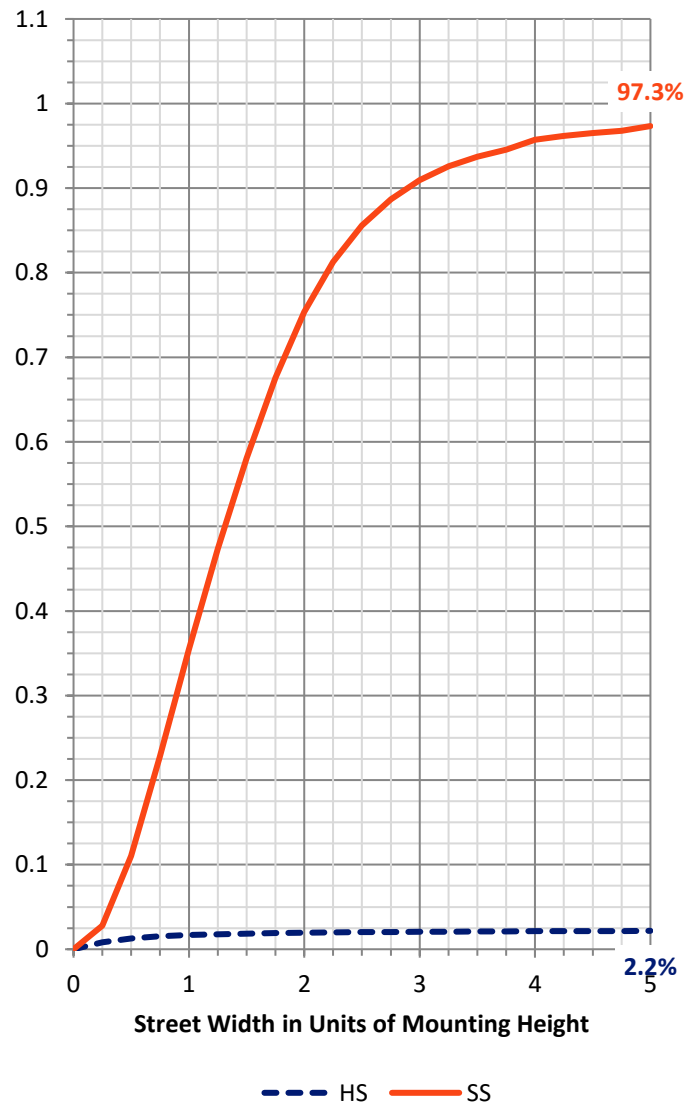
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	61.5	0.0	61.5
	% Fixture	2.3	0.0	2.3
<b>Street Side</b>	Lumens	2651.5	0.0	2651.5
	% Fixture	97.7	0.0	97.7
<b>Total</b>	Lumens	2713.1	0.0	2713.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6.8	0.3
10°-20°	27.7	1.0
20°-30°	81.1	3.0
30°-40°	189.3	7.0
40°-50°	355.6	13.1
50°-60°	589.4	21.7
60°-70°	935.6	34.5
70°-80°	483.9	17.8
80°-90°	43.7	1.6
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°	2713.1	100.0
0°-180°	2713.1	100.0



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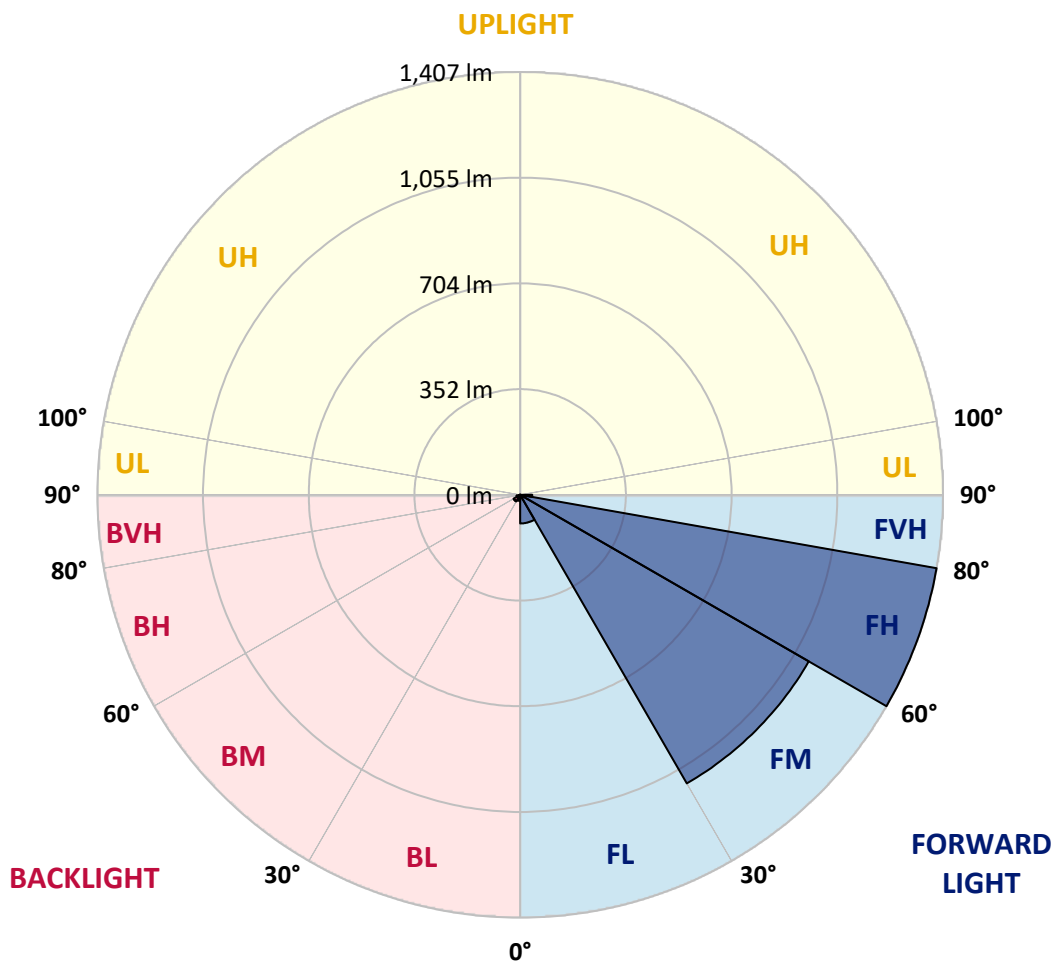
CATALOG NUMBER: ICM-F02-LED-E1-T4-HSS-7030

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	95.5	3.5			
FM (30°-60°)	1108.8	40.9			
FH (60°-80°)	1407.0	51.9			G1/1800
FVH (80°-90°)	40.2	1.5			G1/100
BL (0°-30°)	20.1	0.7	B0/110		
BM (30°-60°)	25.5	0.9	B0/220		
BH (60°-80°)	12.5	0.5	B0/110		G0/110
BVH (80°-90°)	3.5	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
2.5°	73.4	73.4	73.4	73.4	72.9	72.5	72.0	71.5	71.1	71.1	70.6
5°	83.3	83.7	83.3	82.8	81.9	81.4	80.0	79.0	77.6	77.1	75.7
7.5°	96.8	96.3	96.8	95.3	93.5	93.0	91.2	88.8	87.0	84.2	82.3
10°	116.5	116.0	116.5	113.6	110.8	108.5	105.2	102.4	98.2	94.9	91.2
12.5°	147.7	147.7	146.8	143.1	139.3	134.2	129.0	123.0	115.5	108.9	102.9
15°	195.9	193.6	189.4	187.1	180.5	172.6	167.0	154.8	144.0	133.8	121.6
17.5°	253.9	249.2	246.0	240.8	232.4	222.1	212.7	195.0	184.2	167.4	150.1
20°	320.3	314.7	313.8	305.8	296.9	285.7	272.1	251.1	232.8	211.8	187.5
22.5°	388.1	389.0	385.3	379.7	370.8	357.7	336.7	317.5	295.1	268.4	237.0
25°	463.8	463.4	460.1	453.6	447.0	430.7	413.9	395.6	368.9	334.8	297.4
27.5°	534.9	534.4	526.5	527.0	514.3	508.3	491.9	472.3	440.0	411.4	370.8
30°	609.3	604.6	599.4	595.7	586.8	576.1	567.6	544.3	520.0	486.3	453.1
32.5°	684.6	679.4	680.8	676.1	669.1	658.3	645.8	626.6	600.4	567.6	536.8
35°	776.7	774.3	770.6	772.0	770.6	762.6	751.9	726.6	698.1	666.8	635.0
37.5°	844.9	842.6	844.9	854.8	857.1	862.2	854.3	841.7	821.1	787.0	753.8
40°	908.1	908.6	919.3	931.4	939.9	956.7	959.5	954.3	938.0	906.7	863.2
42.5°	964.7	971.6	981.5	1001.6	1019.8	1043.6	1061.4	1064.3	1052.1	1031.5	987.5
45°	1027.8	1033.9	1049.3	1073.1	1098.4	1127.8	1156.4	1171.4	1170.4	1155.9	1108.7
47.5°	1098.4	1106.3	1123.2	1142.8	1176.5	1209.7	1246.6	1273.2	1284.5	1264.4	1218.5
50°	1183.9	1187.3	1201.7	1227.0	1257.9	1296.2	1336.4	1375.2	1397.2	1378.4	1331.3
52.5°	1285.4	1286.3	1299.9	1323.3	1348.1	1390.1	1429.4	1483.2	1511.7	1501.4	1444.8
55°	1424.8	1422.0	1431.3	1451.5	1471.5	1512.2	1551.5	1612.3	1653.9	1654.8	1594.5
57.5°	1615.1	1608.6	1614.6	1630.5	1652.9	1690.8	1740.4	1794.2	1849.8	1846.1	1796.5
60°	1880.2	1877.9	1889.1	1915.7	1954.1	1993.3	2049.5	2122.0	2171.1	2187.9	2136.0
62.5°	2056.5	2063.0	2088.8	2129.9	2203.7	2285.1	2389.4	2500.2	2593.8	2635.8	2564.3
65°	1980.8	1991.5	2031.7	2092.5	2190.2	2312.3	2450.7	2632.6	2793.9	2858.0	2783.6
66°	1916.7	1934.0	1971.8	2036.4	2138.3	2271.5	2416.1	2617.1	2798.5	2870.5	2794.8
67.5°	1805.9	1818.1	1861.0	1932.6	2042.0	2173.9	2330.1	2542.3	2747.1	2823.4	2748.0
70°	1580.0	1584.7	1619.7	1680.6	1765.2	1900.3	2042.0	2246.3	2434.8	2541.9	2459.5
72.5°	1176.0	1182.5	1240.6	1351.4	1461.2	1538.0	1621.6	1785.3	1906.9	2006.9	1991.0
75°	565.8	568.6	607.4	769.2	983.4	1075.0	1152.7	1279.4	1325.6	1409.3	1396.8
77.5°	358.6	364.7	390.0	429.2	550.8	659.8	721.0	793.5	807.1	877.7	836.6
80°	98.7	114.6	139.8	205.8	353.0	420.8	448.5	445.6	448.5	426.9	412.9
82.5°	20.1	19.6	23.8	36.9	155.7	245.0	264.7	225.4	224.0	215.5	222.6
85°	5.1	4.7	5.6	11.7	26.7	72.5	91.2	51.0	38.8	36.9	32.7
87.5°	1.4	1.4	1.4	2.3	2.8	3.7	5.1	3.7	2.8	2.8	2.8
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
2.5°	70.1	70.1	69.7	69.2	69.2	68.7	68.3	67.8	67.3	66.9	66.4
5°	74.3	73.4	72.0	71.1	70.1	68.7	67.8	66.9	66.0	65.5	64.6
7.5°	80.0	77.6	75.7	72.9	71.1	69.2	67.3	66.0	64.6	63.6	62.7
10°	87.0	83.3	79.5	75.7	72.5	69.7	66.9	64.6	63.2	61.8	60.7
12.5°	95.8	90.2	85.1	79.5	74.3	70.1	66.4	63.6	61.8	60.3	58.9
15°	110.3	101.5	92.6	84.2	77.6	71.1	66.0	62.7	60.3	58.9	57.5
17.5°	133.3	117.4	103.3	91.6	80.9	72.5	66.0	61.8	58.9	57.0	55.6
20°	166.4	140.3	117.9	101.0	87.0	74.8	66.0	60.3	57.5	55.2	53.8
22.5°	205.8	173.0	142.1	114.0	94.0	78.0	66.0	58.9	55.6	53.8	51.9
25°	263.3	219.8	177.7	138.4	105.7	83.3	67.3	58.0	54.2	51.9	50.0
27.5°	330.6	278.2	225.9	170.7	123.4	90.7	69.2	57.0	52.8	50.0	48.2
30°	407.3	349.3	285.2	213.7	146.8	100.6	72.5	56.6	51.0	48.2	45.9
32.5°	490.5	429.2	359.1	268.8	181.4	115.5	76.7	56.1	49.1	45.9	43.0
35°	589.7	532.6	447.0	346.5	235.2	141.2	86.0	57.0	47.3	43.4	40.2
37.5°	698.1	637.3	546.6	428.7	288.5	170.2	93.0	55.6	44.0	40.2	36.9
40°	807.5	737.9	645.8	515.3	356.3	205.8	102.0	54.2	40.7	36.9	33.7
42.5°	914.1	840.7	740.7	604.1	427.8	247.8	113.1	54.2	38.3	33.7	30.4
45°	1025.9	937.5	828.1	689.2	498.9	296.0	129.0	53.8	35.5	30.9	27.2
47.5°	1131.5	1026.8	901.0	764.1	575.2	348.8	147.3	54.2	33.2	28.1	24.7
50°	1231.6	1111.4	975.9	830.9	648.1	405.9	169.8	54.7	30.9	25.7	22.4
52.5°	1341.0	1207.8	1056.3	899.6	720.1	463.4	195.9	55.6	28.6	23.3	20.6
55°	1476.7	1328.9	1155.4	983.8	796.3	521.4	221.2	56.6	26.1	21.5	18.7
57.5°	1672.1	1503.8	1316.3	1110.1	897.3	587.3	247.4	58.9	24.3	20.1	17.3
60°	1990.1	1789.5	1573.0	1329.9	1048.4	676.7	285.2	64.1	22.0	18.2	16.4
62.5°	2372.6	2131.3	1855.9	1560.8	1190.5	736.9	310.5	69.7	20.1	16.8	15.4
65°	2565.2	2261.3	1943.8	1625.4	1208.8	719.2	300.2	67.8	17.8	15.0	13.1
66°	2570.8	2254.2	1931.6	1611.4	1190.1	697.7	290.4	66.9	17.3	14.5	12.2
67.5°	2517.5	2194.0	1867.1	1547.7	1134.9	656.0	272.7	63.6	15.9	13.1	10.8
70°	2254.2	1939.1	1639.4	1344.4	976.4	552.7	228.7	56.1	14.0	11.7	9.9
72.5°	1796.9	1540.3	1287.7	1057.7	758.9	414.8	180.5	45.9	12.2	10.3	8.4
75°	1255.0	1044.1	852.0	687.8	476.9	248.3	116.9	32.3	10.3	8.4	7.0
77.5°	700.5	555.5	419.9	319.8	190.3	77.6	38.8	16.4	8.9	6.5	5.6
80°	356.3	264.2	201.0	148.2	87.9	40.2	19.6	10.8	7.0	5.1	4.7
82.5°	207.2	152.0	121.1	95.8	60.3	30.4	15.9	7.9	4.7	3.7	4.2
85°	46.3	61.2	51.9	44.0	32.3	19.2	11.3	5.1	3.3	3.3	3.7
87.5°	3.7	5.1	4.7	6.0	6.5	6.0	4.7	2.8	2.3	2.8	2.8
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
2.5°	66.0	65.5	65.5	65.0	64.6	64.6	64.6	64.1	64.6	64.6	64.6
5°	64.1	63.6	63.2	62.7	62.2	61.8	61.8	61.2	61.2	61.2	61.8
7.5°	62.2	61.2	60.7	59.8	59.3	58.9	58.9	58.4	58.4	58.4	58.4
10°	59.8	58.9	58.0	57.5	57.0	56.1	56.1	55.6	55.2	55.2	55.2
12.5°	58.0	57.0	56.1	55.2	54.2	53.8	53.3	52.8	52.4	52.4	52.4
15°	56.1	54.7	53.8	52.8	51.9	51.0	50.5	50.0	49.6	49.1	49.1
17.5°	54.2	52.8	51.4	50.5	49.6	48.7	48.2	46.8	46.8	46.3	46.3
20°	51.9	50.5	49.1	48.2	47.3	46.3	45.4	44.5	43.4	43.0	43.0
22.5°	50.0	48.7	47.3	45.9	44.5	43.0	42.0	41.1	40.7	40.2	39.7
25°	48.2	46.3	44.5	43.0	41.6	40.2	39.3	38.3	37.4	36.9	36.9
27.5°	45.9	44.0	42.0	40.2	38.8	37.4	36.5	35.1	34.6	34.1	33.7
30°	43.4	41.1	39.3	37.4	36.0	34.1	33.2	32.3	31.3	31.3	30.9
32.5°	40.7	38.3	36.5	34.6	32.7	31.3	30.4	29.5	29.0	28.1	28.1
35°	37.9	35.5	33.2	31.3	30.0	28.6	27.6	26.7	25.7	25.2	25.2
37.5°	34.6	32.3	30.4	28.6	27.2	25.7	24.7	23.8	23.3	22.9	22.4
40°	30.9	28.6	27.2	25.7	24.3	23.3	22.0	21.0	20.6	20.1	19.6
42.5°	27.6	25.2	24.3	23.3	22.0	21.0	19.6	18.7	17.8	17.3	16.8
45°	24.7	22.9	22.0	21.0	19.6	18.2	17.3	16.4	15.4	15.0	15.0
47.5°	22.0	20.6	19.6	18.7	17.3	16.4	15.0	14.5	13.6	13.6	13.6
50°	20.1	18.7	17.8	16.8	15.9	14.5	13.6	13.1	12.7	12.7	13.1
52.5°	18.7	17.3	16.4	15.4	14.5	13.6	12.7	12.2	12.2	12.7	13.1
55°	17.3	15.9	15.0	14.0	13.1	12.7	11.7	11.7	12.2	12.7	13.1
57.5°	16.4	14.5	13.6	13.1	12.2	11.7	11.7	11.7	12.2	12.7	13.6
60°	15.0	13.1	12.2	12.2	11.3	11.3	11.3	11.7	12.2	13.1	13.6
62.5°	13.1	11.7	11.3	11.3	10.8	10.8	11.3	11.7	12.7	13.1	13.6
65°	11.3	10.3	10.3	10.3	10.3	10.8	11.3	11.7	12.2	13.1	13.6
66°	10.3	9.9	9.9	10.3	10.3	10.8	11.3	11.7	12.2	12.7	13.1
67.5°	9.9	9.4	9.4	9.9	10.3	10.3	10.8	11.7	12.2	12.7	12.7
70°	8.4	8.4	8.4	9.4	9.9	10.3	10.8	11.3	11.7	12.2	12.7
72.5°	7.4	7.4	7.9	8.4	9.4	9.9	10.3	10.8	11.7	12.2	12.2
75°	6.5	6.5	7.4	7.9	8.9	9.4	10.3	10.8	11.3	11.7	11.7
77.5°	5.6	6.0	7.0	7.9	8.4	9.4	9.9	10.3	10.8	11.3	11.3
80°	5.1	6.0	7.0	7.4	7.9	8.4	8.9	9.9	10.3	10.8	11.3
82.5°	5.1	5.6	6.5	7.0	7.4	8.4	8.9	9.4	9.9	10.3	10.8
85°	4.2	5.1	5.6	6.5	7.0	7.9	8.4	8.4	8.9	9.4	9.9
87.5°	3.3	3.7	3.7	4.7	5.1	6.0	7.0	7.0	7.4	7.9	8.4
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°	170°	175°	180°
0°	67.8	67.8	67.8	67.8
2.5°	64.6	65.0	65.0	65.0
5°	61.8	61.8	61.8	61.8
7.5°	58.4	58.4	58.4	58.4
10°	55.2	55.2	55.6	55.2
12.5°	52.4	51.9	51.9	51.9
15°	49.1	49.1	48.7	49.1
17.5°	45.9	45.9	45.4	45.4
20°	42.5	42.5	42.5	42.5
22.5°	39.7	39.3	39.3	39.3
25°	36.5	36.5	36.5	36.5
27.5°	33.7	33.7	33.7	33.7
30°	30.9	30.9	30.4	30.4
32.5°	28.1	28.1	28.1	28.1
35°	25.2	25.2	24.7	24.7
37.5°	22.0	22.0	22.0	22.0
40°	19.2	19.2	19.2	19.2
42.5°	16.8	16.8	16.4	16.4
45°	14.5	14.5	14.5	14.5
47.5°	13.6	13.6	13.6	13.6
50°	13.1	13.6	13.6	13.6
52.5°	13.6	13.6	13.6	13.6
55°	13.6	14.0	14.0	14.0
57.5°	13.6	14.0	14.0	14.5
60°	14.0	14.5	14.5	14.5
62.5°	14.0	14.5	14.5	14.5
65°	13.6	14.0	14.0	14.0
66°	13.6	13.6	13.6	14.0
67.5°	13.1	13.6	13.6	13.6
70°	12.7	13.1	13.1	13.6
72.5°	12.7	13.1	13.1	13.1
75°	12.2	12.2	12.7	12.7
77.5°	11.7	11.7	12.2	12.2
80°	11.3	11.7	11.7	11.7
82.5°	10.8	11.3	11.3	11.3
85°	9.9	10.3	10.3	10.3
87.5°	8.4	8.4	8.9	8.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)