

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: P181544

Luminaire Tested: **ICM-F03-LED-E1-T4-HSS**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P181544  
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-F03-LED-E1-T4-HSS  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ HOUSE SIDE SHIELD  
Light Source: (21) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4455.6 lumens  
Efficiency: N/A  
Efficacy: 56.9 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B0 - U0 - G2  
  
Input Watts (W): 78.3  
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

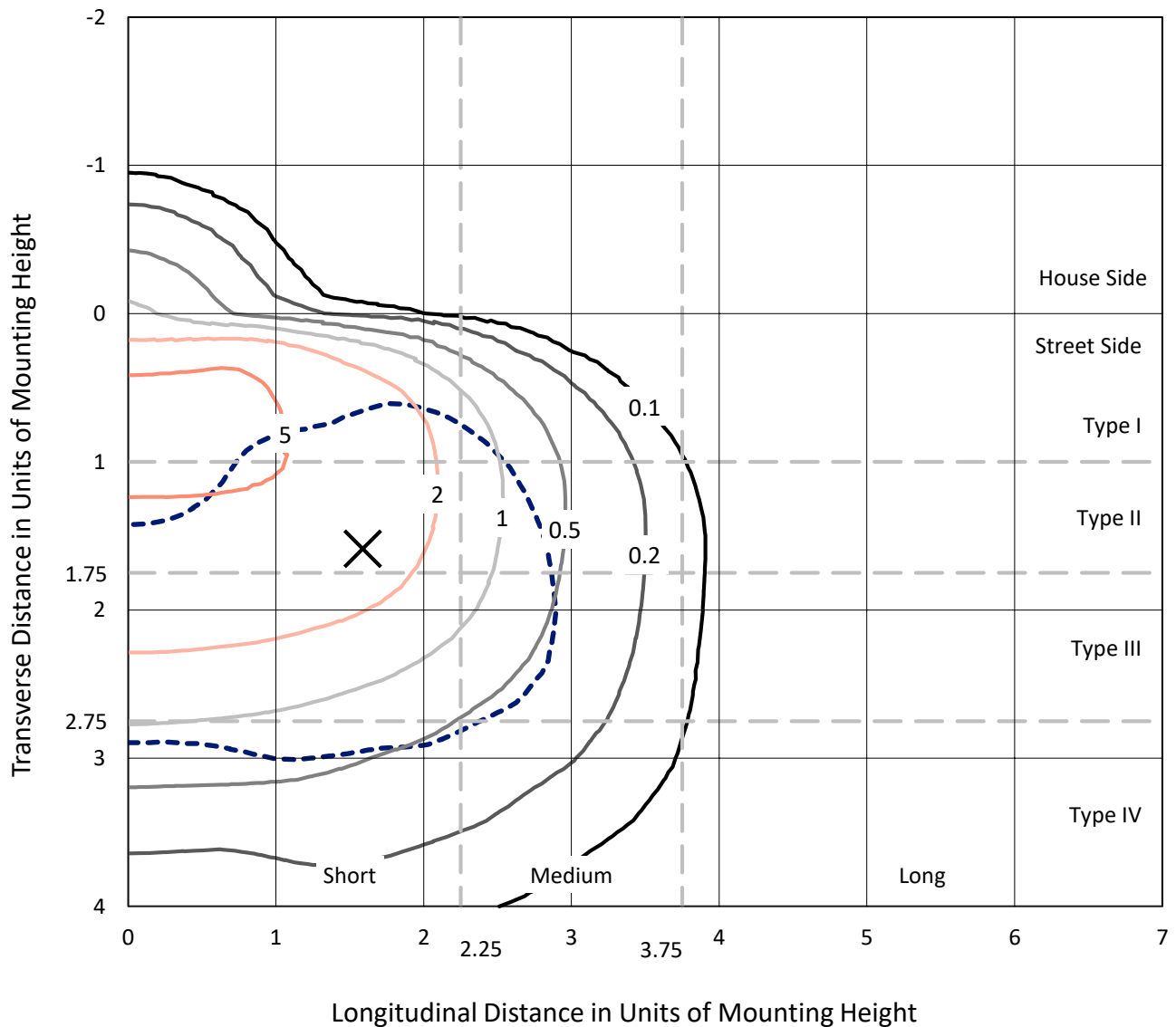


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

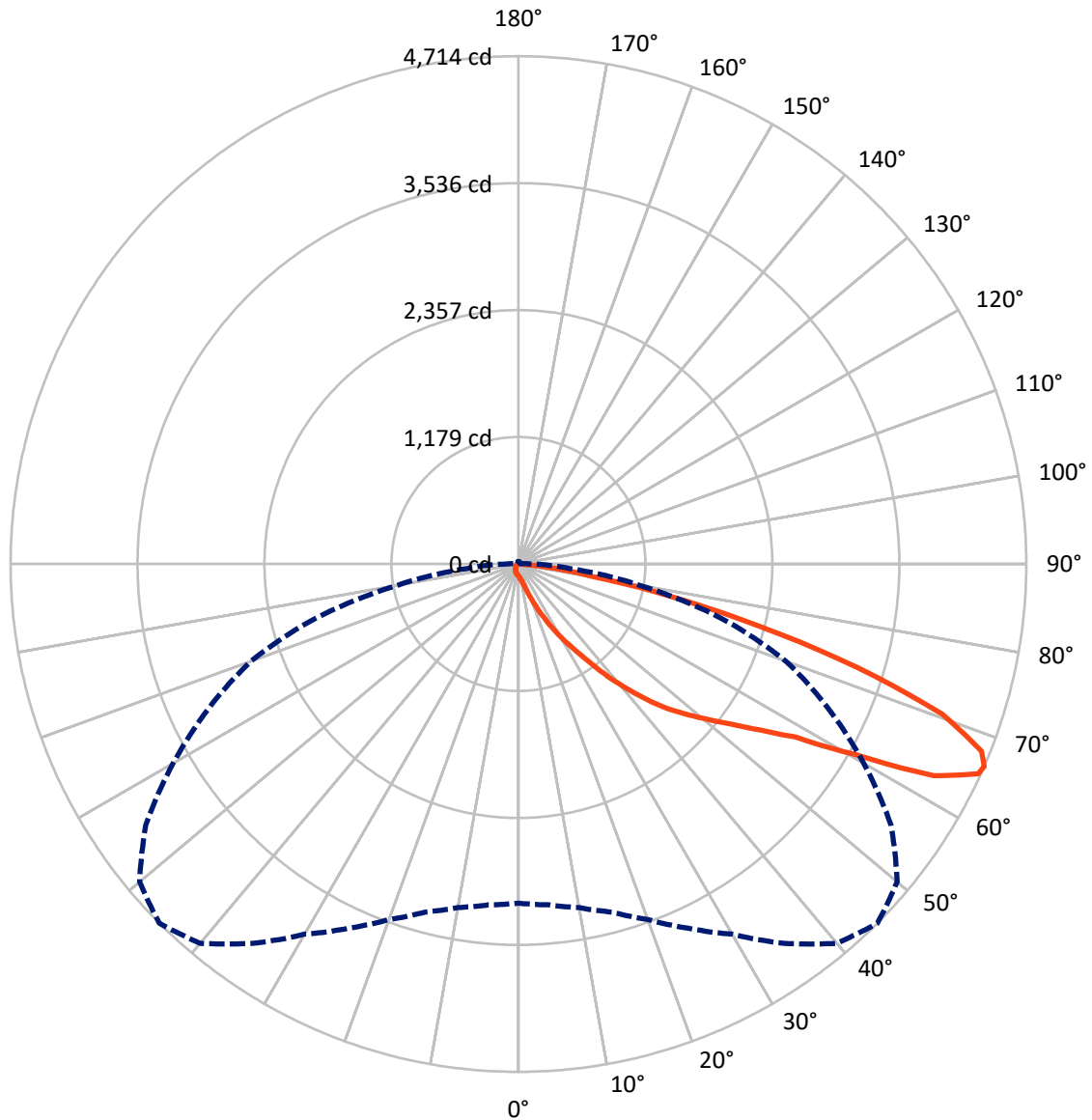


Based on 10 foot mounting height. Maximum calculated value = 7.1 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



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

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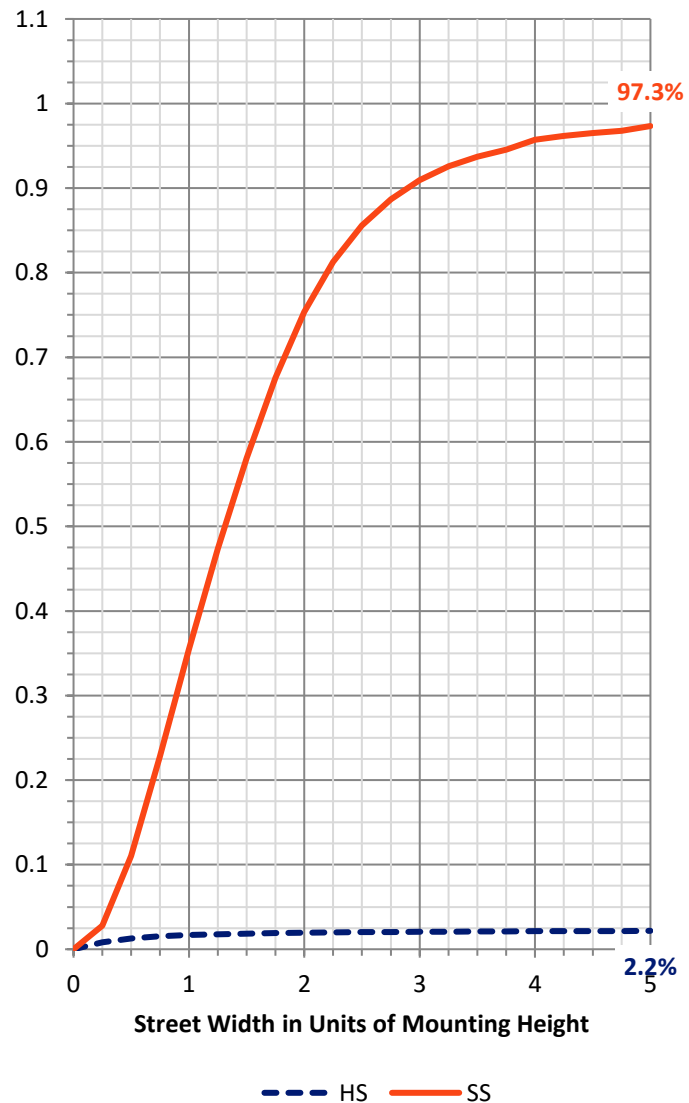
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	101.0	0.0	101.0
	% Fixture	2.3	0.0	2.3
<b>Street Side</b>	Lumens	4354.7	0.0	4354.7
	% Fixture	97.7	0.0	97.7
<b>Total</b>	Lumens	4455.6	0.0	4455.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	11.2	0.3
10°-20°	45.4	1.0
20°-30°	133.1	3.0
30°-40°	310.9	7.0
40°-50°	584.1	13.1
50°-60°	967.9	21.7
60°-70°	1536.5	34.5
70°-80°	794.6	17.8
80°-90°	71.8	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°	4455.6	100.0
0°-180°	4455.6	100.0



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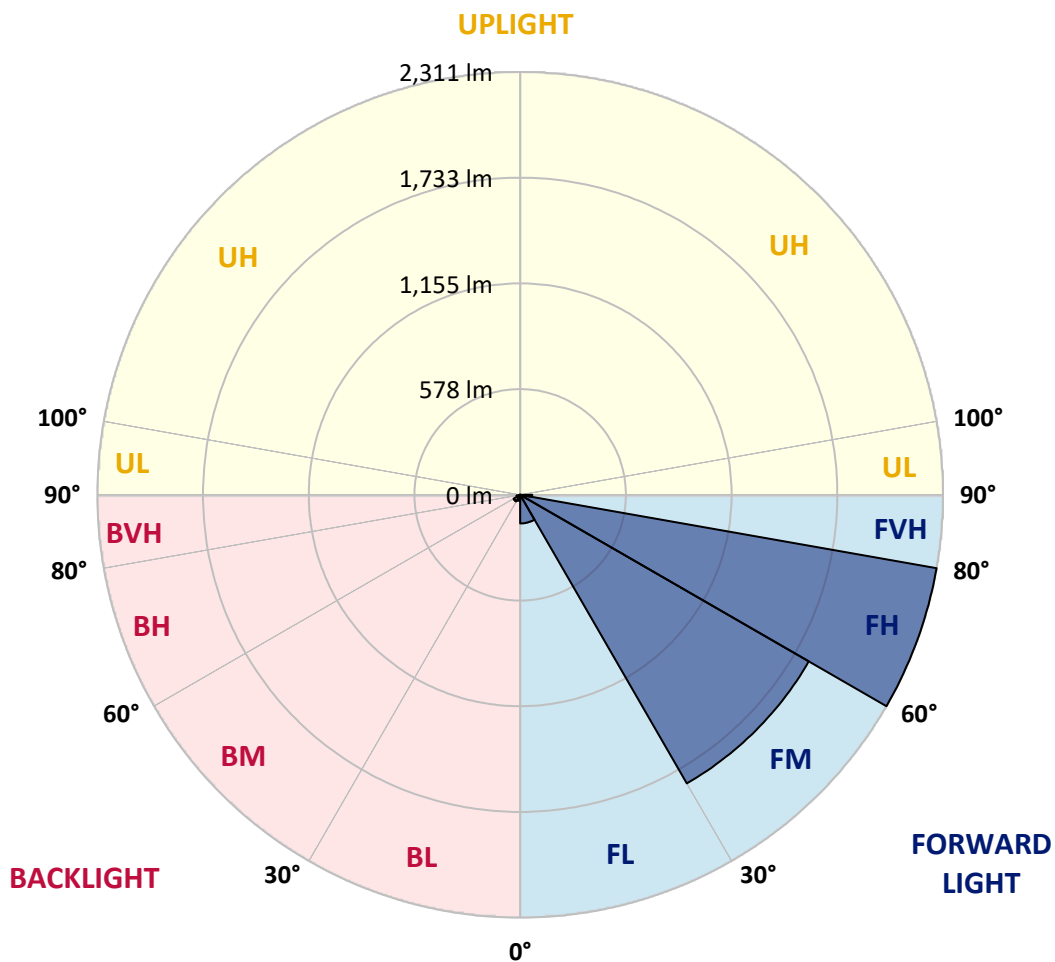
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	156.8	3.5			
FM (30°-60°)	1821.0	40.9			
FH (60°-80°)	2310.7	51.9			G2/5000
FVH (80°-90°)	66.1	1.5			G1/100
BL (0°-30°)	33.0	0.7	B0/110		
BM (30°-60°)	41.9	0.9	B0/220		
BH (60°-80°)	20.5	0.5	B0/110		G0/110
BVH (80°-90°)	5.7	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-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	111.3	111.3	111.3	111.3	111.3	111.3	111.3	111.3	111.3	111.3	111.3
2.5°	120.6	120.6	120.6	120.6	119.8	119.1	118.2	117.5	116.7	116.7	116.0
5°	136.7	137.5	136.7	135.9	134.4	133.6	131.3	129.8	127.4	126.7	124.4
7.5°	159.0	158.2	159.0	156.7	153.6	152.8	149.8	145.9	142.8	138.2	135.2
10°	191.3	190.4	191.3	186.6	182.0	178.1	172.7	168.2	161.3	155.9	149.8
12.5°	242.7	242.7	241.1	235.0	228.8	220.4	211.9	202.0	189.7	178.9	168.9
15°	321.8	318.0	311.0	307.2	296.5	283.4	274.1	254.1	236.6	219.6	199.6
17.5°	417.0	409.3	403.9	395.4	381.7	364.7	349.4	320.2	302.6	274.9	246.5
20°	526.0	516.8	515.3	502.2	487.6	469.2	447.0	412.4	382.4	347.9	307.9
22.5°	637.4	638.9	632.7	623.5	608.9	587.4	552.9	521.4	484.6	440.8	389.3
25°	761.8	761.0	755.6	744.9	734.1	707.3	679.6	649.7	605.9	549.9	488.4
27.5°	878.5	877.8	864.7	865.5	844.7	834.7	807.9	775.6	722.6	675.8	608.9
30°	1000.7	992.9	984.5	978.3	963.7	946.1	932.3	893.9	854.0	798.6	744.1
32.5°	1124.3	1115.8	1118.1	1110.4	1098.9	1081.2	1060.5	1029.0	986.1	932.3	881.6
35°	1275.5	1271.7	1265.6	1267.8	1265.6	1252.5	1234.8	1193.4	1146.5	1095.1	1042.9
37.5°	1387.6	1383.8	1387.6	1403.8	1407.6	1416.1	1403.0	1382.2	1348.5	1292.5	1237.9
40°	1491.4	1492.1	1509.8	1529.7	1543.5	1571.2	1575.8	1567.4	1540.5	1489.0	1417.6
42.5°	1584.3	1595.7	1611.9	1644.9	1674.9	1714.1	1743.2	1747.8	1727.8	1694.1	1621.9
45°	1687.9	1697.9	1723.3	1762.4	1803.9	1852.3	1899.1	1923.6	1922.2	1898.3	1820.8
47.5°	1803.9	1816.9	1844.6	1876.8	1932.1	1986.6	2047.3	2091.1	2109.5	2076.5	2001.2
50°	1944.4	1949.8	1973.6	2015.1	2065.8	2128.8	2194.8	2258.5	2294.6	2263.8	2186.3
52.5°	2111.1	2112.6	2134.9	2173.2	2214.0	2283.1	2347.5	2435.9	2482.7	2465.9	2372.9
55°	2339.9	2335.3	2350.6	2383.6	2416.7	2483.5	2548.0	2647.8	2716.2	2717.7	2618.6
57.5°	2652.5	2641.7	2651.6	2677.8	2714.6	2776.9	2858.3	2946.5	3038.0	3031.8	2950.4
60°	3087.8	3084.0	3102.4	3146.3	3209.2	3273.7	3365.9	3484.9	3565.5	3593.1	3507.9
62.5°	3377.4	3388.1	3430.3	3498.0	3619.3	3752.9	3924.1	4106.2	4259.7	4328.9	4211.4
65°	3253.0	3270.6	3336.7	3436.5	3597.0	3797.4	4024.8	4323.5	4588.4	4693.6	4571.5
66°	3147.7	3176.2	3238.3	3344.4	3511.7	3730.6	3967.9	4298.2	4596.1	4714.4	4590.0
67.5°	2965.8	2985.7	3056.4	3173.9	3353.6	3570.2	3826.6	4175.3	4511.7	4636.8	4513.1
70°	2594.8	2602.5	2660.1	2759.9	2899.0	3120.9	3353.6	3689.1	3998.6	4174.5	4039.4
72.5°	1931.4	1942.2	2037.3	2219.4	2399.8	2525.8	2663.2	2932.0	3131.6	3296.0	3269.9
75°	929.2	933.8	997.6	1263.3	1615.0	1765.5	1892.9	2101.0	2177.1	2314.5	2293.8
77.5°	589.0	599.0	640.5	704.9	904.7	1083.5	1184.2	1303.2	1325.5	1441.4	1373.9
80°	162.0	188.2	229.6	337.9	579.8	691.2	736.5	731.8	736.5	701.1	678.1
82.5°	33.0	32.3	39.2	60.7	255.7	402.4	434.6	370.1	367.8	354.0	365.5
85°	8.5	7.7	9.2	19.2	43.8	119.1	149.8	83.7	63.7	60.7	53.8
87.5°	2.3	2.3	2.3	3.8	4.7	6.1	8.5	6.1	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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	111.3	111.3	111.3	111.3	111.3	111.3	111.3	111.3	111.3	111.3	111.3
2.5°	115.2	115.2	114.4	113.7	113.7	112.9	112.1	111.3	110.6	109.9	109.0
5°	122.1	120.6	118.2	116.7	115.2	112.9	111.3	109.9	108.3	107.5	106.0
7.5°	131.3	127.4	124.4	119.8	116.7	113.7	110.6	108.3	106.0	104.5	102.9
10°	142.8	136.7	130.5	124.4	119.1	114.4	109.9	106.0	103.6	101.4	99.8
12.5°	157.4	148.2	139.7	130.5	122.1	115.2	109.0	104.5	101.4	99.1	96.7
15°	181.2	166.6	152.1	138.2	127.4	116.7	108.3	102.9	99.1	96.7	94.4
17.5°	218.9	192.7	169.7	150.5	132.8	119.1	108.3	101.4	96.7	93.7	91.3
20°	273.4	230.4	193.5	165.9	142.8	122.9	108.3	99.1	94.4	90.6	88.3
22.5°	337.9	284.1	233.5	187.3	154.3	128.3	108.3	96.7	91.3	88.3	85.2
25°	432.4	360.9	291.8	227.4	173.6	136.7	110.6	95.3	89.1	85.2	82.1
27.5°	542.9	456.9	370.9	280.3	202.7	149.0	113.7	93.7	86.8	82.1	79.1
30°	668.8	573.7	468.5	351.0	241.1	165.1	119.1	92.9	83.7	79.1	75.3
32.5°	805.6	704.9	589.8	441.6	298.0	189.7	126.0	92.2	80.7	75.3	70.6
35°	968.4	874.7	734.1	569.0	386.2	231.9	141.3	93.7	77.6	71.4	66.0
37.5°	1146.5	1046.7	897.7	704.2	473.8	279.5	152.8	91.3	72.2	66.0	60.7
40°	1326.2	1211.8	1060.5	846.2	585.1	337.9	167.4	89.1	66.8	60.7	55.3
42.5°	1501.3	1380.8	1216.4	992.2	702.7	407.0	185.9	89.1	63.0	55.3	50.0
45°	1684.8	1539.7	1360.0	1131.9	819.4	486.1	211.9	88.3	58.3	50.7	44.6
47.5°	1858.4	1686.4	1479.8	1254.8	944.6	572.8	241.9	89.1	54.5	46.0	40.7
50°	2022.7	1825.4	1602.7	1364.7	1064.4	666.6	278.8	89.9	50.7	42.2	36.8
52.5°	2202.4	1983.5	1734.8	1477.5	1182.6	761.0	321.8	91.3	46.9	38.4	33.8
55°	2425.1	2182.4	1897.6	1615.7	1307.8	856.3	363.3	92.9	43.0	35.3	30.7
57.5°	2746.2	2469.7	2161.8	1823.1	1473.7	964.6	406.2	96.7	39.9	33.0	28.4
60°	3268.3	2938.9	2583.4	2184.0	1721.7	1111.2	468.5	105.2	36.1	30.0	26.9
62.5°	3896.5	3500.2	3047.9	2563.4	1955.2	1210.2	509.9	114.4	33.0	27.6	25.3
65°	4212.9	3713.7	3192.3	2669.3	1985.1	1181.1	493.0	111.3	29.2	24.6	21.5
66°	4222.1	3702.3	3172.3	2646.3	1954.4	1145.8	476.9	109.9	28.4	23.8	20.0
67.5°	4134.5	3603.2	3066.3	2541.9	1863.7	1077.4	447.7	104.5	26.1	21.5	17.7
70°	3702.3	3184.7	2692.4	2207.8	1603.5	907.7	375.5	92.2	23.1	19.2	16.1
72.5°	2951.2	2529.6	2114.9	1737.0	1246.3	681.1	296.5	75.3	20.0	16.9	13.9
75°	2061.1	1714.8	1399.2	1129.6	783.3	407.8	192.0	53.0	16.9	13.9	11.5
77.5°	1150.3	912.3	689.6	525.3	312.6	127.4	63.7	26.9	14.6	10.8	9.2
80°	585.1	433.9	330.2	243.4	144.4	66.0	32.3	17.7	11.5	8.5	7.7
82.5°	340.2	249.6	198.9	157.4	99.1	50.0	26.1	13.0	7.7	6.1	6.9
85°	76.0	100.6	85.2	72.2	53.0	31.4	18.4	8.5	5.4	5.4	6.1
87.5°	6.1	8.5	7.7	10.0	10.8	10.0	7.7	4.7	3.8	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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	111.3	111.3	111.3	111.3	111.3	111.3	111.3	111.3	111.3	111.3	111.3
2.5°	108.3	107.5	107.5	106.7	106.0	106.0	106.0	105.2	106.0	106.0	106.0
5°	105.2	104.5	103.6	102.9	102.1	101.4	101.4	100.6	100.6	100.6	101.4
7.5°	102.1	100.6	99.8	98.3	97.5	96.7	96.7	96.0	96.0	96.0	96.0
10°	98.3	96.7	95.3	94.4	93.7	92.2	92.2	91.3	90.6	90.6	90.6
12.5°	95.3	93.7	92.2	90.6	89.1	88.3	87.5	86.8	86.0	86.0	86.0
15°	92.2	89.9	88.3	86.8	85.2	83.7	83.0	82.1	81.4	80.7	80.7
17.5°	89.1	86.8	84.5	83.0	81.4	79.9	79.1	76.8	76.8	76.0	76.0
20°	85.2	83.0	80.7	79.1	77.6	76.0	74.5	72.9	71.4	70.6	70.6
22.5°	82.1	79.9	77.6	75.3	72.9	70.6	69.1	67.5	66.8	66.0	65.3
25°	79.1	76.0	72.9	70.6	68.4	66.0	64.5	63.0	61.4	60.7	60.7
27.5°	75.3	72.2	69.1	66.0	63.7	61.4	59.9	57.6	56.8	56.1	55.3
30°	71.4	67.5	64.5	61.4	59.2	56.1	54.5	53.0	51.4	51.4	50.7
32.5°	66.8	63.0	59.9	56.8	53.8	51.4	50.0	48.4	47.6	46.0	46.0
35°	62.2	58.3	54.5	51.4	49.1	46.9	45.3	43.8	42.2	41.5	41.5
37.5°	56.8	53.0	50.0	46.9	44.6	42.2	40.7	39.2	38.4	37.7	36.8
40°	50.7	46.9	44.6	42.2	39.9	38.4	36.1	34.5	33.8	33.0	32.3
42.5°	45.3	41.5	39.9	38.4	36.1	34.5	32.3	30.7	29.2	28.4	27.6
45°	40.7	37.7	36.1	34.5	32.3	30.0	28.4	26.9	25.3	24.6	24.6
47.5°	36.1	33.8	32.3	30.7	28.4	26.9	24.6	23.8	22.2	22.2	22.2
50°	33.0	30.7	29.2	27.6	26.1	23.8	22.2	21.5	20.7	20.7	21.5
52.5°	30.7	28.4	26.9	25.3	23.8	22.2	20.7	20.0	20.0	20.7	21.5
55°	28.4	26.1	24.6	23.1	21.5	20.7	19.2	19.2	20.0	20.7	21.5
57.5°	26.9	23.8	22.2	21.5	20.0	19.2	19.2	19.2	20.0	20.7	22.2
60°	24.6	21.5	20.0	20.0	18.4	18.4	18.4	19.2	20.0	21.5	22.2
62.5°	21.5	19.2	18.4	18.4	17.7	17.7	18.4	19.2	20.7	21.5	22.2
65°	18.4	16.9	16.9	16.9	16.9	17.7	18.4	19.2	20.0	21.5	22.2
66°	16.9	16.1	16.1	16.9	16.9	17.7	18.4	19.2	20.0	20.7	21.5
67.5°	16.1	15.3	15.3	16.1	16.9	16.9	17.7	19.2	20.0	20.7	20.7
70°	13.9	13.9	13.9	15.3	16.1	16.9	17.7	18.4	19.2	20.0	20.7
72.5°	12.3	12.3	13.0	13.9	15.3	16.1	16.9	17.7	19.2	20.0	20.0
75°	10.8	10.8	12.3	13.0	14.6	15.3	16.9	17.7	18.4	19.2	19.2
77.5°	9.2	10.0	11.5	13.0	13.9	15.3	16.1	16.9	17.7	18.4	18.4
80°	8.5	10.0	11.5	12.3	13.0	13.9	14.6	16.1	16.9	17.7	18.4
82.5°	8.5	9.2	10.8	11.5	12.3	13.9	14.6	15.3	16.1	16.9	17.7
85°	6.9	8.5	9.2	10.8	11.5	13.0	13.9	13.9	14.6	15.3	16.1
87.5°	5.4	6.1	6.1	7.7	8.5	10.0	11.5	11.5	12.3	13.0	13.9
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°	111.3	111.3	111.3	111.3
2.5°	106.0	106.7	106.7	106.7
5°	101.4	101.4	101.4	101.4
7.5°	96.0	96.0	96.0	96.0
10°	90.6	90.6	91.3	90.6
12.5°	86.0	85.2	85.2	85.2
15°	80.7	80.7	79.9	80.7
17.5°	75.3	75.3	74.5	74.5
20°	69.9	69.9	69.9	69.9
22.5°	65.3	64.5	64.5	64.5
25°	59.9	59.9	59.9	59.9
27.5°	55.3	55.3	55.3	55.3
30°	50.7	50.7	50.0	50.0
32.5°	46.0	46.0	46.0	46.0
35°	41.5	41.5	40.7	40.7
37.5°	36.1	36.1	36.1	36.1
40°	31.4	31.4	31.4	31.4
42.5°	27.6	27.6	26.9	26.9
45°	23.8	23.8	23.8	23.8
47.5°	22.2	22.2	22.2	22.2
50°	21.5	22.2	22.2	22.2
52.5°	22.2	22.2	22.2	22.2
55°	22.2	23.1	23.1	23.1
57.5°	22.2	23.1	23.1	23.8
60°	23.1	23.8	23.8	23.8
62.5°	23.1	23.8	23.8	23.8
65°	22.2	23.1	23.1	23.1
66°	22.2	22.2	22.2	23.1
67.5°	21.5	22.2	22.2	22.2
70°	20.7	21.5	21.5	22.2
72.5°	20.7	21.5	21.5	21.5
75°	20.0	20.0	20.7	20.7
77.5°	19.2	19.2	20.0	20.0
80°	18.4	19.2	19.2	19.2
82.5°	17.7	18.4	18.4	18.4
85°	16.1	16.9	16.9	16.9
87.5°	13.9	13.9	14.6	14.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)