

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: P180773

Luminaire Tested: **ICM-F02-LED-E1-SL4-HSS**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180773  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33728)  
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-SL4-HSS  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD  
Light Source: (14) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3125.2 lumens  
Efficiency: N/A  
Efficacy: 56.8 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 (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

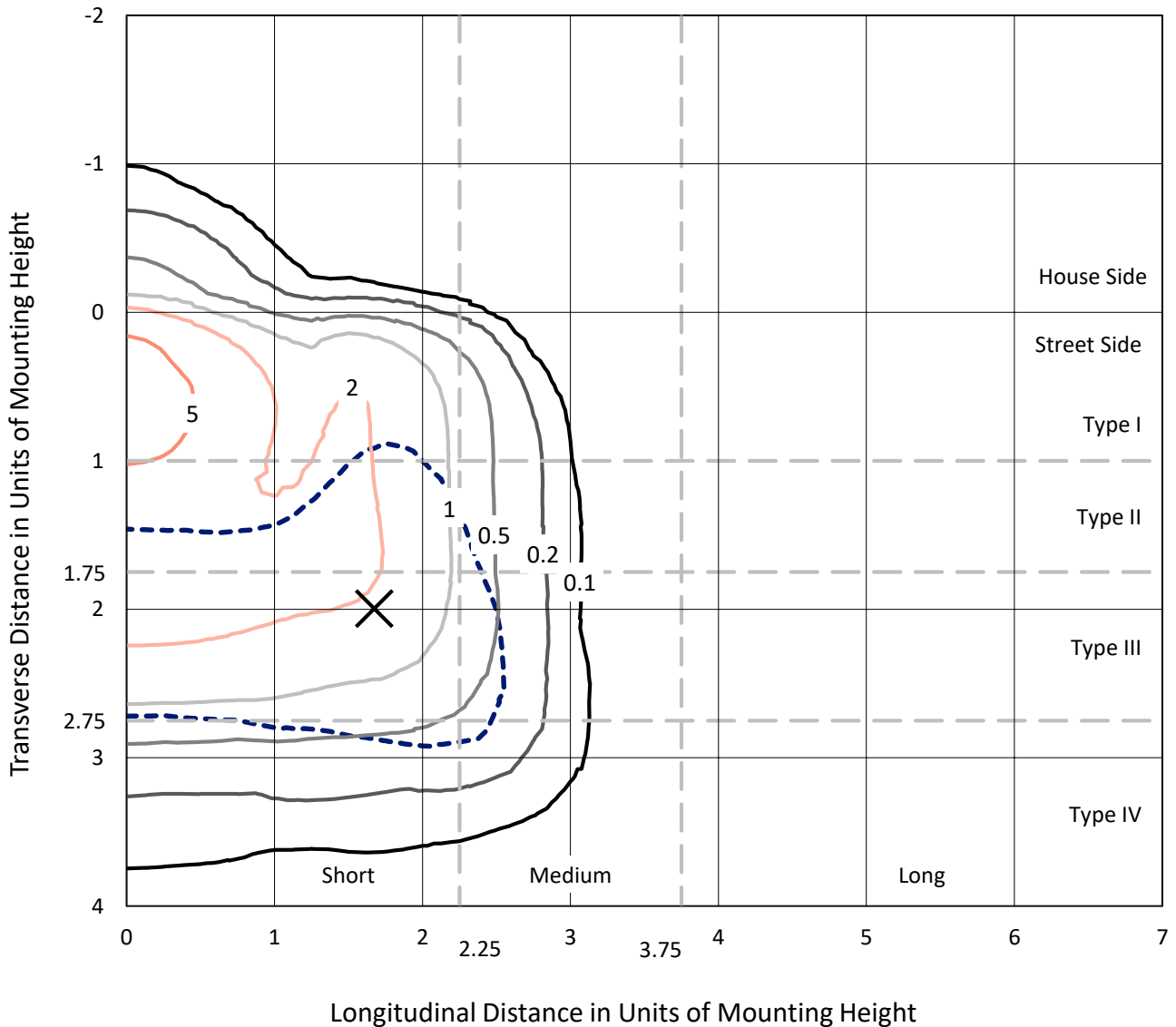


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

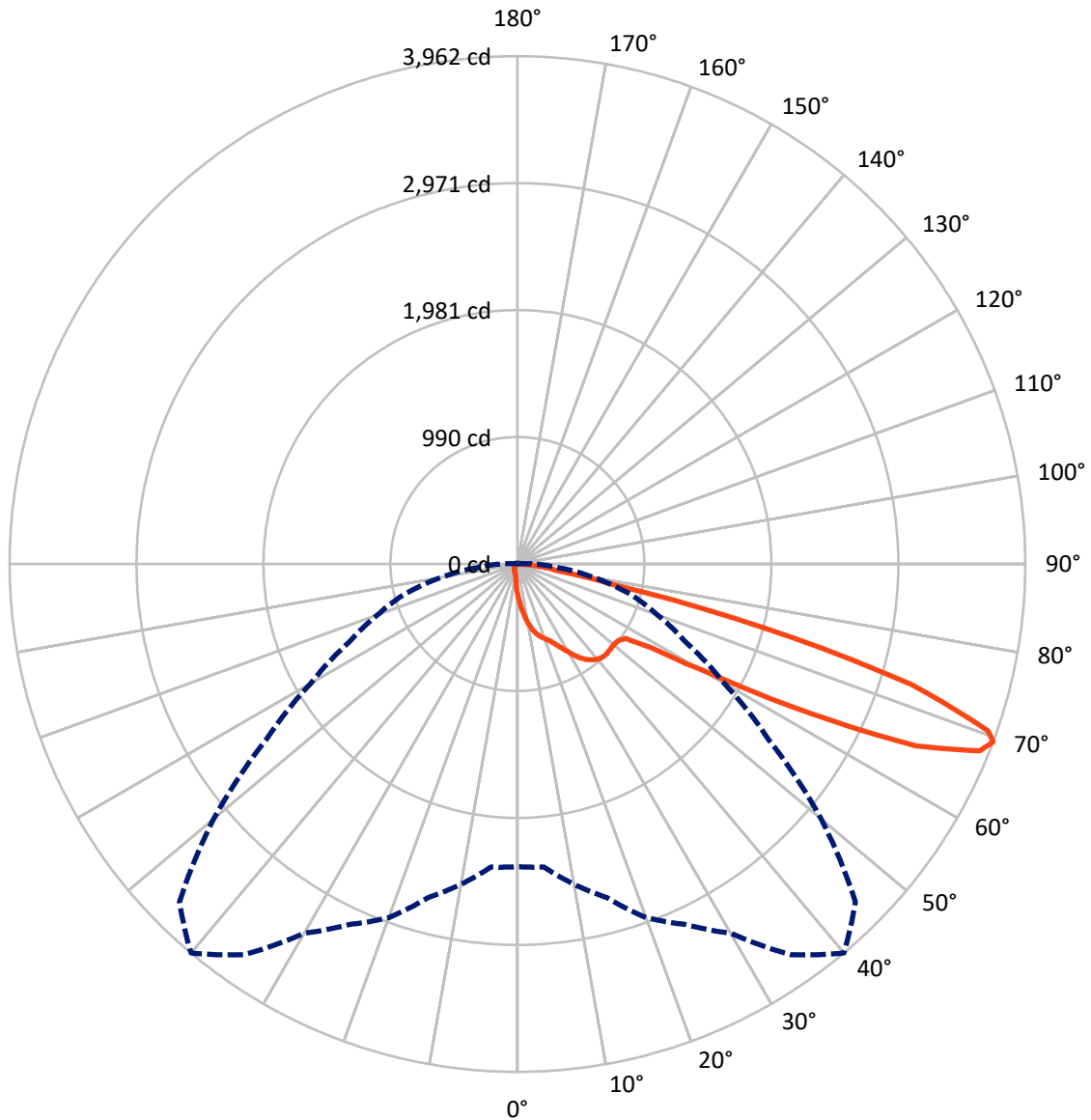


Based on 10 foot mounting height. Maximum calculated value = 7 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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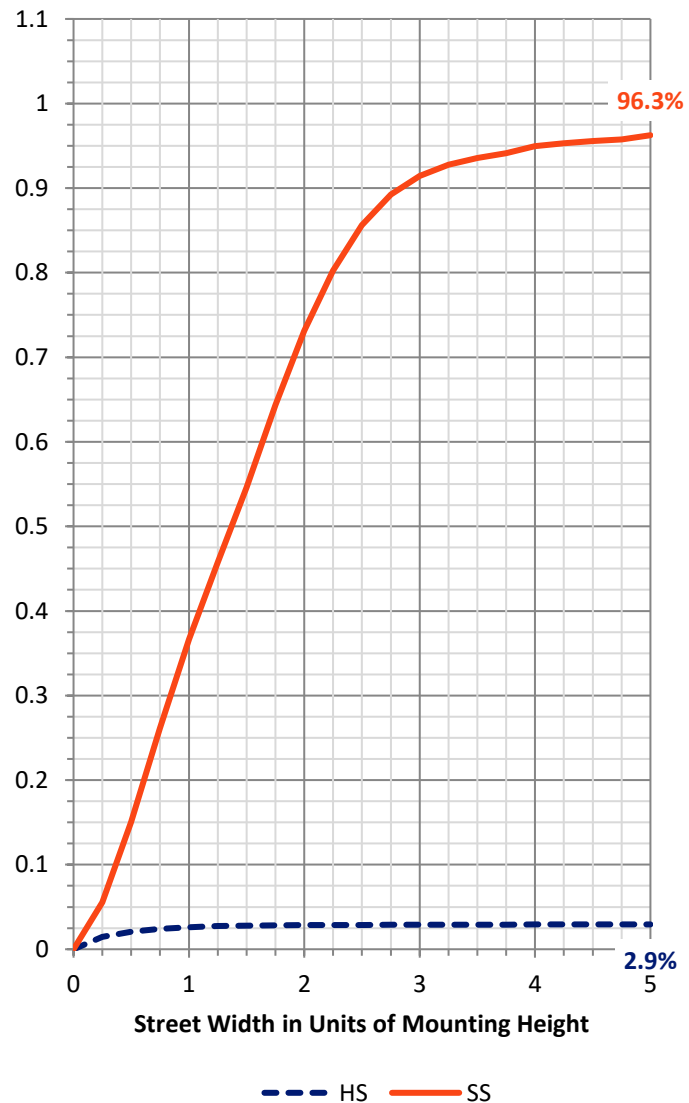
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	93.1	0.0	93.1
	% Fixture	3.0	0.0	3.0
<b>Street Side</b>	Lumens	3032.1	0.0	3032.1
	% Fixture	97.0	0.0	97.0
<b>Total</b>	Lumens	3125.2	0.0	3125.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	24.3	0.8
10°-20°	83.6	2.7
20°-30°	160.1	5.1
30°-40°	266.2	8.5
40°-50°	360.2	11.5
50°-60°	563.4	18.0
60°-70°	1158.3	37.1
70°-80°	466.1	14.9
80°-90°	43.1	1.4
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°	3125.2	100.0
0°-180°	3125.2	100.0



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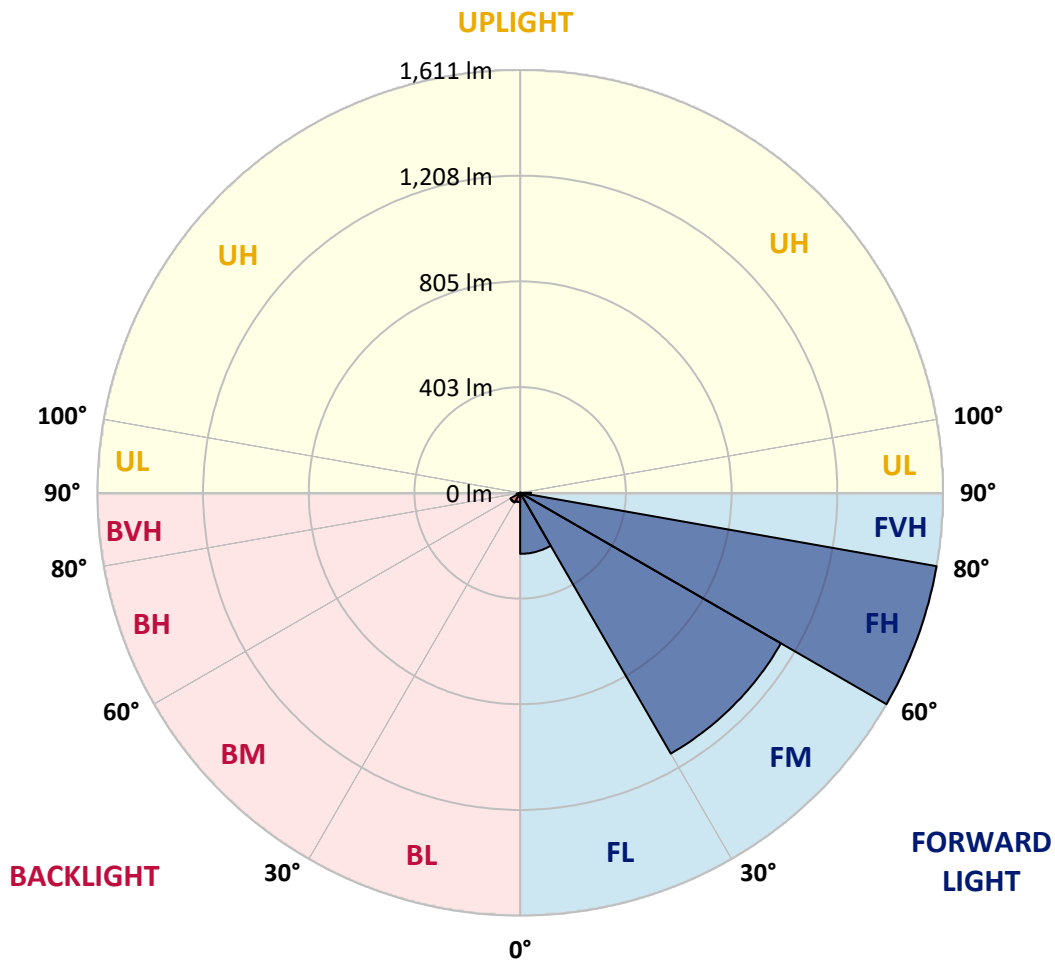
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	232.6	7.4			
FM (30°-60°)	1147.3	36.7			
FH (60°-80°)	1610.7	51.5			G1/1800
FVH (80°-90°)	41.5	1.3			G1/100
BL (0°-30°)	35.4	1.1	B0/110		
BM (30°-60°)	42.5	1.4	B0/220		
BH (60°-80°)	13.6	0.4	B0/110		G0/110
BVH (80°-90°)	1.6	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°	236.0	236.0	236.0	236.0	236.0	236.0	236.0	236.0	236.0	236.0	236.0
2.5°	314.9	311.3	307.2	307.2	302.0	302.0	299.0	290.8	289.8	285.1	280.6
5°	401.9	398.8	393.7	389.1	385.0	377.9	372.7	363.0	352.2	342.0	332.7
7.5°	486.9	485.3	476.1	474.6	467.9	456.2	446.0	431.5	413.1	398.8	382.0
10°	565.7	562.1	560.1	551.4	541.7	528.8	513.0	495.5	474.0	451.5	427.4
12.5°	628.2	626.1	616.9	613.3	603.1	590.3	570.3	547.8	526.3	497.1	468.9
15°	674.8	671.2	665.0	659.4	647.1	635.8	617.4	592.8	566.7	535.0	501.2
17.5°	713.7	707.0	705.5	696.7	684.0	670.7	650.1	627.6	596.9	565.2	528.4
20°	765.9	756.7	753.6	740.8	726.0	707.5	684.0	655.8	623.5	588.7	550.9
22.5°	827.4	820.7	814.1	802.7	783.8	757.7	723.4	692.7	651.7	613.3	572.4
25°	914.3	908.7	898.0	882.6	859.1	827.8	786.3	741.3	693.2	644.0	595.9
27.5°	998.8	993.7	986.1	974.2	947.6	913.3	862.1	804.8	743.9	684.5	631.3
30°	1078.1	1073.6	1065.9	1054.1	1030.6	996.8	938.9	877.5	801.7	732.7	668.7
32.5°	1163.6	1162.1	1153.4	1136.6	1116.1	1070.5	1007.5	941.5	864.7	784.8	710.1
35°	1260.5	1248.7	1240.5	1223.5	1188.8	1140.1	1066.4	994.2	913.3	831.4	748.0
37.5°	1342.3	1331.1	1320.8	1299.4	1256.8	1194.9	1111.4	1032.1	948.7	865.2	780.2
40°	1402.2	1396.7	1384.3	1356.2	1308.6	1234.8	1144.8	1058.2	974.2	890.3	806.3
42.5°	1446.8	1438.1	1424.3	1395.1	1338.8	1254.8	1158.1	1068.9	986.1	905.7	823.3
45°	1463.2	1456.0	1443.2	1411.5	1350.5	1260.5	1157.5	1065.9	986.5	910.2	834.5
47.5°	1453.4	1446.2	1435.0	1405.3	1345.4	1253.8	1148.3	1057.2	981.4	911.8	844.7
50°	1421.2	1417.1	1408.4	1383.3	1329.6	1240.9	1140.1	1052.6	980.4	919.4	859.1
52.5°	1418.1	1415.5	1404.8	1379.7	1324.9	1236.8	1139.1	1055.2	989.1	929.2	869.3
55°	1732.9	1696.7	1615.3	1546.1	1432.5	1297.3	1190.8	1096.6	1026.0	967.6	925.6
57.5°	2463.0	2408.8	2301.8	2170.2	1909.1	1652.6	1447.3	1298.8	1225.6	1199.0	1214.9
60°	2805.0	2795.3	2778.3	2715.9	2582.3	2361.7	2115.9	1850.2	1743.7	1734.5	1766.8
62.5°	2967.3	2961.1	2966.3	2958.6	2917.1	2852.6	2782.0	2667.3	2561.9	2493.8	2349.4
65°	3042.1	3046.2	3075.4	3098.3	3103.5	3120.4	3172.1	3314.9	3419.4	3243.7	2842.9
67.5°	2852.1	2876.2	2943.3	3027.2	3125.5	3220.8	3374.3	3675.4	3889.9	3683.6	3114.3
69°	2361.1	2372.9	2536.8	2694.9	2935.1	3103.0	3325.7	3720.4	3961.5	3728.6	3092.8
70°	1858.9	1869.7	2045.2	2260.3	2666.2	2882.3	3173.6	3644.1	3894.4	3668.7	2982.2
72.5°	838.6	823.3	885.2	1000.4	1441.7	1784.7	2294.1	2952.5	3213.0	2939.2	2231.1
75°	585.7	579.0	585.7	586.2	654.8	844.7	1065.9	1600.4	1979.3	1707.9	1065.9
77.5°	453.6	449.0	444.4	439.3	447.4	501.2	522.7	567.7	737.2	697.3	406.5
80°	358.9	354.8	366.0	362.4	362.4	368.7	364.5	347.6	315.9	292.8	262.1
82.5°	166.9	167.9	167.9	182.2	219.6	256.5	268.3	251.4	223.3	190.0	153.1
85°	15.9	18.0	30.2	46.6	92.7	104.5	104.9	87.1	87.1	68.6	55.3
87.5°	0.0	0.6	0.6	0.6	4.7	12.8	10.8	3.1	1.6	1.6	2.6
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	236.0	236.0	236.0	236.0	236.0	236.0	236.0	236.0	236.0	236.0	236.0
2.5°	272.4	270.8	264.7	258.5	252.9	246.8	241.1	235.5	229.4	224.7	219.1
5°	318.4	307.2	294.4	282.0	269.8	257.0	243.7	231.9	219.6	208.4	197.6
7.5°	365.0	343.0	325.6	303.6	283.6	263.6	245.2	226.3	208.8	192.5	177.1
10°	404.5	377.9	350.7	322.5	293.9	267.3	241.7	219.1	196.1	176.1	157.2
12.5°	436.7	402.9	369.7	334.3	302.0	268.3	236.6	209.4	182.2	159.7	140.3
15°	465.9	427.0	387.1	346.0	305.1	266.7	231.4	197.6	170.0	144.4	122.3
17.5°	489.4	444.9	399.8	353.8	309.8	264.7	224.7	189.4	157.2	130.5	109.0
20°	509.9	463.4	414.7	363.0	312.8	264.2	219.1	179.2	145.9	117.8	96.7
22.5°	528.8	482.2	430.0	374.8	317.4	263.6	214.0	171.5	136.2	108.0	87.1
25°	550.3	501.2	446.4	387.1	325.6	265.7	210.9	165.4	127.4	98.8	79.3
27.5°	574.4	522.7	465.9	402.4	336.4	269.8	209.9	158.7	119.8	90.1	73.2
30°	608.2	548.3	485.3	417.8	346.0	274.4	208.8	154.6	112.1	83.4	67.1
32.5°	637.9	573.4	506.8	433.6	356.8	279.0	208.4	149.0	104.9	76.8	62.4
35°	669.1	596.5	525.3	449.0	366.0	284.1	207.8	144.8	98.3	70.1	57.9
37.5°	696.3	615.9	539.6	462.3	376.3	288.7	208.4	141.3	92.2	64.5	53.8
40°	719.3	635.8	555.4	474.6	387.1	295.9	208.8	137.7	86.0	59.3	50.1
42.5°	739.8	654.8	572.4	488.4	399.4	304.1	211.9	134.6	80.9	54.8	46.6
45°	755.6	672.2	590.8	507.8	419.3	317.4	217.6	132.6	75.8	50.7	43.5
47.5°	772.0	697.8	622.1	538.6	448.5	338.4	227.4	132.1	71.6	47.6	40.9
50°	794.5	723.4	649.7	569.8	475.1	359.9	239.1	132.6	66.5	44.6	38.4
52.5°	811.0	749.5	685.5	624.1	538.6	425.4	284.7	141.8	64.0	42.0	35.3
55°	907.7	896.9	898.5	908.7	842.7	723.9	476.1	204.7	75.3	47.6	34.8
57.5°	1279.9	1317.8	1339.8	1339.3	1230.2	1020.3	639.4	263.2	84.0	55.3	41.5
60°	1769.3	1740.7	1700.2	1600.4	1455.5	1164.7	715.2	283.1	72.7	44.0	37.9
62.5°	2202.0	2034.0	1885.0	1723.3	1533.3	1214.9	730.5	281.6	63.4	33.3	26.6
65°	2471.7	2169.7	1929.0	1726.3	1502.6	1172.9	691.2	258.5	53.8	27.2	22.0
67.5°	2536.2	2096.5	1756.0	1497.5	1255.4	912.8	507.4	194.5	42.0	22.5	19.4
69°	2395.5	1863.5	1455.0	1161.6	913.3	605.7	313.9	122.9	32.3	20.5	18.0
70°	2203.5	1620.8	1185.2	932.3	676.3	425.4	219.6	86.5	26.1	19.0	16.4
72.5°	1417.6	851.4	582.6	405.5	279.0	169.5	86.0	38.9	20.0	15.9	13.3
75°	549.9	314.9	228.4	173.6	135.6	94.2	52.2	25.1	16.9	13.3	10.2
77.5°	270.8	207.4	169.5	116.2	67.5	42.0	28.2	19.4	13.9	9.8	6.7
80°	214.0	142.3	85.0	52.7	39.9	30.2	21.5	15.9	10.2	6.1	4.7
82.5°	109.6	59.9	44.0	35.8	29.7	23.5	17.4	11.3	6.7	4.1	3.6
85°	34.3	25.1	22.5	22.0	20.5	16.9	12.3	7.2	4.1	2.6	2.6
87.5°	2.6	3.6	4.7	3.6	4.1	3.6	4.7	3.1	2.0	2.0	1.6
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	236.0	236.0	236.0	236.0	236.0	236.0	236.0	236.0	236.0	236.0	236.0
2.5°	215.0	208.8	203.3	199.6	193.0	190.4	187.9	186.9	182.2	183.3	179.2
5°	187.9	177.1	168.9	160.7	153.1	147.4	142.8	137.2	132.6	130.5	126.4
7.5°	163.3	149.5	138.7	130.0	120.8	113.7	107.5	103.4	99.3	95.3	93.2
10°	141.8	127.0	114.7	106.0	97.3	91.2	86.5	83.4	80.9	79.3	78.9
12.5°	121.9	107.5	96.3	88.6	82.0	78.9	76.8	75.3	74.8	74.2	74.2
15°	106.5	92.2	83.4	77.9	74.8	73.2	72.7	71.6	70.6	70.1	70.1
17.5°	92.2	81.4	75.3	72.2	70.6	69.6	68.6	67.5	66.5	66.0	66.0
20°	82.4	73.8	70.6	68.6	67.1	66.0	64.5	63.4	63.0	62.4	62.0
22.5°	74.8	69.1	67.1	65.5	63.4	62.0	60.9	59.9	58.9	58.3	57.9
25°	69.1	65.5	64.0	62.0	59.9	58.3	56.8	55.3	54.2	53.8	52.7
27.5°	65.0	62.4	60.4	57.9	55.8	54.2	52.7	51.2	50.1	49.1	48.7
30°	61.4	58.9	56.3	54.2	51.7	50.1	48.1	46.6	46.0	45.0	44.0
32.5°	57.9	55.3	52.7	50.1	47.6	45.6	44.6	42.5	41.5	40.9	39.9
35°	53.8	51.2	48.1	46.0	43.5	41.5	39.9	38.4	37.4	36.4	35.8
37.5°	50.1	47.1	44.0	41.5	39.4	37.4	35.8	34.3	33.3	32.3	31.7
40°	46.0	43.0	39.9	37.4	35.3	33.8	32.3	30.7	29.7	29.2	29.2
42.5°	42.5	38.9	35.8	33.8	32.3	30.2	28.7	27.2	26.6	26.1	26.6
45°	38.9	35.3	32.7	30.7	29.2	27.2	25.6	24.6	24.1	24.6	25.1
47.5°	35.8	32.3	29.7	28.2	26.6	25.1	23.5	22.5	22.5	23.5	24.6
50°	32.7	29.2	27.2	26.1	24.6	23.1	21.0	20.5	21.0	22.0	23.1
52.5°	29.7	25.6	24.1	23.5	22.0	20.5	19.0	18.4	19.0	20.0	19.4
55°	26.6	22.5	22.0	21.5	20.0	18.0	16.4	16.4	16.4	15.9	14.9
57.5°	25.6	20.0	19.4	19.0	17.4	15.3	14.3	13.3	12.8	11.3	10.8
60°	26.6	18.0	18.0	16.9	15.3	13.3	11.8	10.2	9.2	8.2	8.2
62.5°	21.5	16.4	15.9	14.9	12.8	10.8	9.2	7.7	7.2	6.7	6.7
65°	17.4	14.9	13.9	12.3	10.8	8.7	7.2	6.1	5.7	5.7	6.1
67.5°	15.9	13.3	11.8	10.2	8.7	6.7	5.7	5.1	5.1	5.7	5.7
69°	14.9	12.3	10.8	9.2	7.7	6.1	5.1	5.1	5.1	5.1	5.7
70°	13.9	11.8	10.2	8.7	6.7	5.1	4.7	4.7	5.1	5.1	5.7
72.5°	10.8	9.2	8.7	7.2	5.1	4.7	4.1	4.7	4.7	5.1	5.1
75°	8.2	6.7	6.7	5.7	4.1	3.6	3.6	4.1	4.1	4.7	4.7
77.5°	5.7	4.7	4.7	4.1	3.6	3.1	3.1	3.6	4.1	4.1	4.7
80°	4.1	3.6	3.1	3.6	3.1	2.6	3.1	3.6	3.6	4.1	4.1
82.5°	3.1	3.1	3.1	3.1	2.6	2.6	3.1	3.1	3.6	4.1	4.1
85°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.1	3.1	3.6	3.6
87.5°	1.6	1.6	1.6	2.0	2.0	2.6	2.6	2.6	2.6	3.1	3.1
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):**

	165°	170°	175°	180°
0°	236.0	236.0	236.0	236.0
2.5°	178.1	177.7	175.6	176.1
5°	124.9	121.9	123.9	123.3
7.5°	91.6	91.2	90.6	91.6
10°	78.3	78.3	77.9	78.3
12.5°	73.8	73.8	73.8	73.8
15°	70.1	70.1	69.6	69.6
17.5°	66.0	66.0	66.0	65.5
20°	62.0	61.4	61.4	61.4
22.5°	57.3	56.8	56.8	56.8
25°	52.7	52.2	52.2	52.2
27.5°	48.1	47.6	47.1	47.1
30°	43.5	43.0	42.5	42.5
32.5°	38.9	38.4	37.9	37.9
35°	34.8	34.8	34.3	33.8
37.5°	31.3	31.3	31.3	31.3
40°	28.7	29.2	29.2	29.2
42.5°	27.2	27.6	28.2	28.7
45°	26.1	27.2	27.6	27.6
47.5°	25.6	26.1	26.6	26.6
50°	23.5	23.1	23.1	23.1
52.5°	19.0	18.0	17.4	16.9
55°	13.9	13.3	12.3	12.3
57.5°	9.8	9.8	9.2	9.2
60°	7.7	7.7	7.2	7.7
62.5°	6.7	6.7	6.7	6.7
65°	6.1	6.1	6.1	6.1
67.5°	6.1	6.1	6.1	6.1
69°	5.7	5.7	5.7	5.7
70°	5.7	5.7	5.7	5.7
72.5°	5.1	5.1	5.1	5.1
75°	4.7	5.1	5.1	5.1
77.5°	4.7	4.7	4.7	4.7
80°	4.1	4.1	4.7	4.7
82.5°	4.1	4.1	4.1	4.1
85°	3.6	3.6	4.1	4.1
87.5°	3.1	3.1	3.6	3.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)