

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: P180803

Luminaire Tested: **ICM-F05-LED-E1-SL4-HSS**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180803  
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-F05-LED-E1-SL4-HSS  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD  
Light Source: (35) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7813 lumens  
Efficiency: N/A  
Efficacy: 58.6 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B0 - U0 - G2  
  
Input Watts (W): 133.3  
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

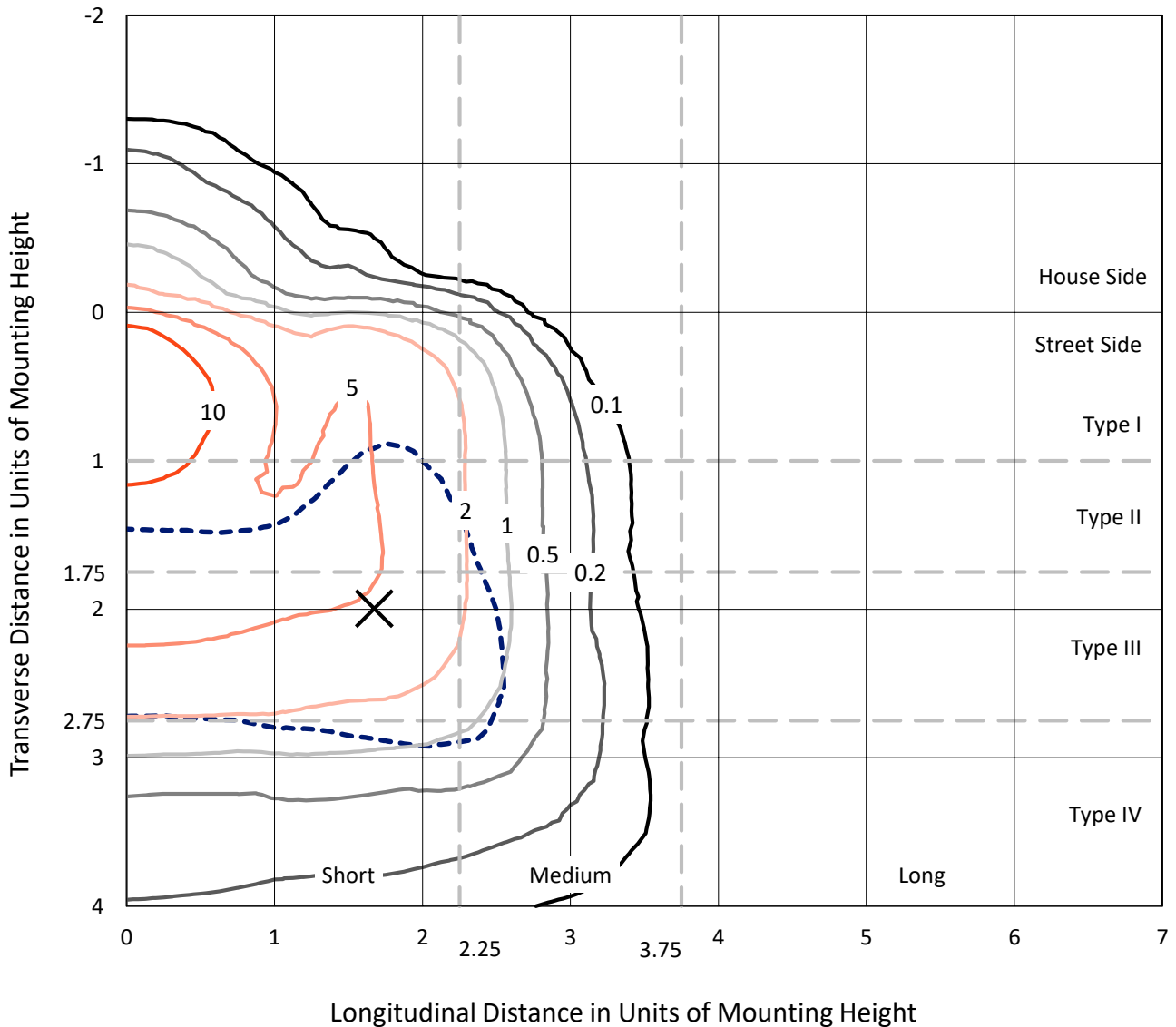


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

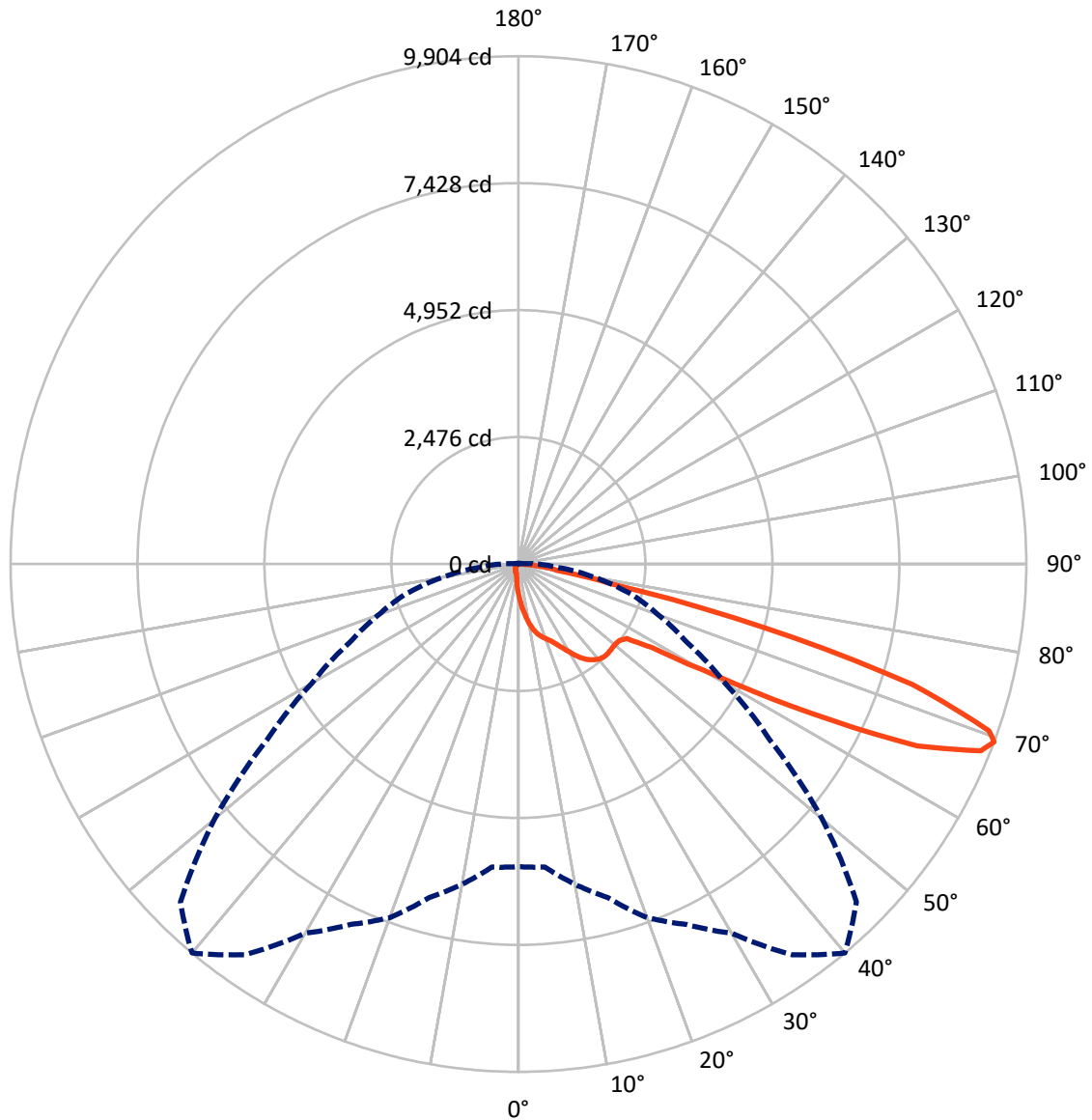


Based on 10 foot mounting height. Maximum calculated value = 17.5 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



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

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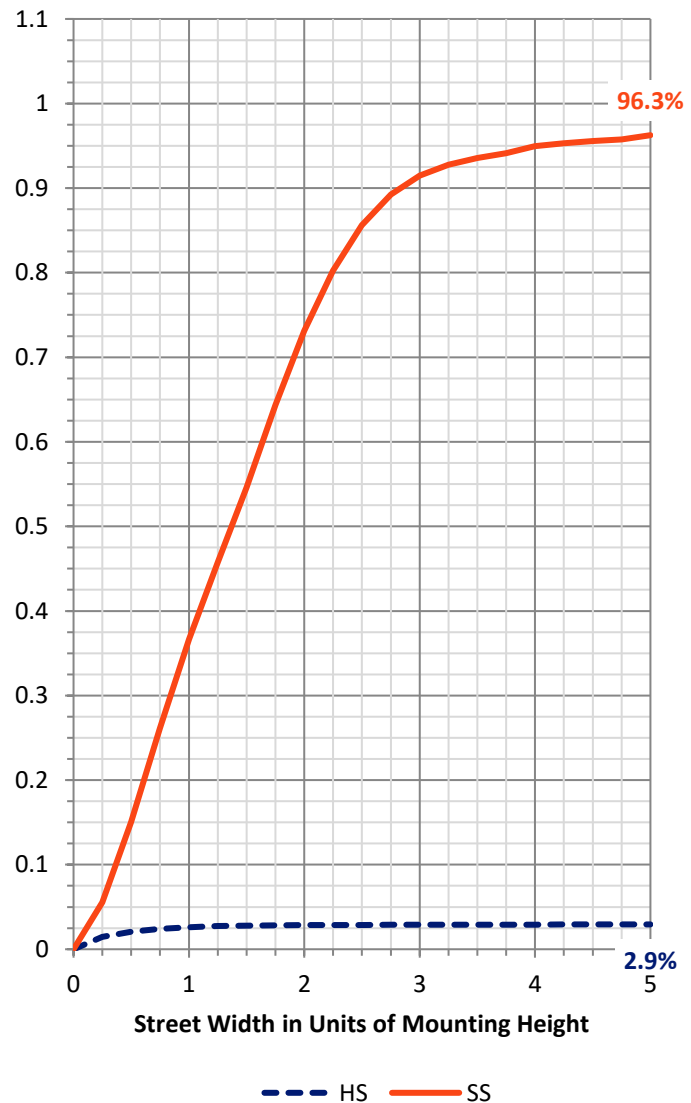
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	232.6	0.0	232.6
	% Fixture	3.0	0.0	3.0
<b>Street Side</b>	Lumens	7580.3	0.0	7580.3
	% Fixture	97.0	0.0	97.0
<b>Total</b>	Lumens	7813.0	0.0	7813.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.6	0.8
10°-20°	209.1	2.7
20°-30°	400.2	5.1
30°-40°	665.5	8.5
40°-50°	900.6	11.5
50°-60°	1408.4	18.0
60°-70°	2895.6	37.1
70°-80°	1165.1	14.9
80°-90°	107.8	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°	7813.0	100.0
0°-180°	7813.0	100.0



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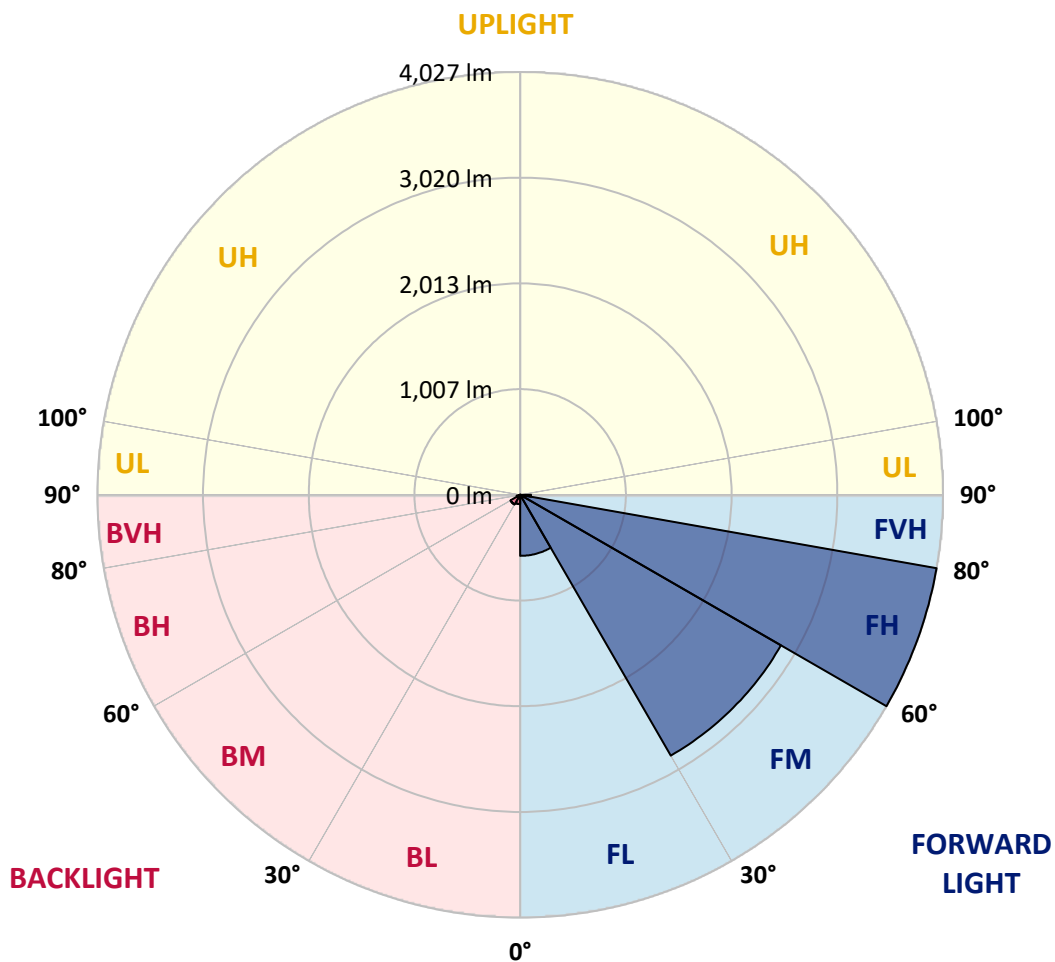
CATALOG NUMBER: ICM-F05-LED-E1-SL4-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	581.4	7.4			
FM (30°-60°)	2868.3	36.7			
FH (60°-80°)	4026.9	51.5			G2/5000
FVH (80°-90°)	103.8	1.3			G2/225
BL (0°-30°)	88.5	1.1	B0/110		
BM (30°-60°)	106.2	1.4	B0/220		
BH (60°-80°)	33.9	0.4	B0/110		G0/110
BVH (80°-90°)	4.0	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°	590.1	590.1	590.1	590.1	590.1	590.1	590.1	590.1	590.1	590.1	590.1
2.5°	787.2	778.1	767.9	767.9	755.2	755.2	747.4	727.0	724.4	712.9	701.4
5°	1004.8	997.0	984.2	972.8	962.5	944.6	931.7	907.4	880.6	855.0	831.9
7.5°	1217.2	1213.3	1190.3	1186.4	1169.8	1140.4	1114.8	1079.0	1032.8	997.0	954.8
10°	1414.2	1405.3	1400.2	1378.4	1354.1	1322.1	1282.4	1238.9	1185.2	1128.8	1068.8
12.5°	1570.4	1565.3	1542.2	1533.3	1507.7	1475.7	1425.8	1369.5	1315.7	1242.8	1172.4
15°	1686.9	1678.0	1662.6	1648.5	1617.8	1589.6	1543.5	1482.1	1416.8	1337.5	1253.0
17.5°	1784.2	1767.5	1763.7	1742.0	1710.0	1676.7	1625.5	1569.1	1492.4	1413.0	1320.8
20°	1914.7	1891.6	1884.0	1852.0	1814.9	1768.8	1710.0	1639.5	1558.9	1471.9	1377.1
22.5°	2068.3	2051.6	2035.0	2006.9	1959.5	1894.2	1808.5	1731.7	1629.3	1533.3	1430.9
25°	2285.9	2271.8	2244.9	2206.5	2147.6	2069.6	1965.9	1853.3	1732.9	1610.1	1489.8
27.5°	2497.0	2484.3	2465.0	2435.6	2369.0	2283.4	2155.4	2012.0	1859.6	1711.2	1578.1
30°	2695.5	2683.9	2664.8	2635.3	2576.4	2491.9	2347.4	2193.7	2004.3	1831.5	1671.5
32.5°	2909.2	2905.3	2883.6	2841.3	2790.2	2676.3	2518.8	2353.7	2161.8	1962.1	1775.2
35°	3151.1	3121.7	3101.1	3058.9	2971.9	2850.3	2666.0	2485.5	2283.4	2078.5	1870.0
37.5°	3355.8	3327.7	3302.2	3248.4	3142.2	2987.3	2778.6	2580.3	2371.6	2163.0	1950.5
40°	3505.6	3491.6	3460.9	3390.4	3271.4	3087.1	2861.9	2645.5	2435.6	2225.7	2015.8
42.5°	3617.0	3595.2	3560.7	3487.7	3346.9	3137.0	2895.1	2672.4	2465.0	2264.1	2058.1
45°	3658.0	3640.0	3608.0	3528.7	3376.4	3151.1	2893.9	2664.8	2466.3	2275.6	2086.2
47.5°	3633.6	3615.7	3587.6	3513.3	3363.6	3134.4	2870.8	2643.0	2453.6	2279.5	2111.8
50°	3553.0	3542.7	3521.0	3458.3	3323.8	3102.4	2850.3	2631.5	2451.0	2298.7	2147.6
52.5°	3545.3	3538.9	3512.0	3449.3	3312.4	3092.2	2847.7	2637.9	2472.8	2323.0	2173.2
55°	4332.4	4241.5	4038.1	3865.2	3581.1	3243.3	2977.0	2741.5	2564.9	2419.0	2314.1
57.5°	6157.5	6021.9	5754.4	5425.4	4772.7	4131.5	3618.3	3247.1	3064.0	2997.5	3037.2
60°	7012.5	6988.2	6946.0	6789.8	6455.8	5904.1	5289.8	4625.5	4359.3	4336.3	4416.9
62.5°	7418.3	7402.9	7415.7	7396.5	7292.8	7131.6	6954.9	6668.2	6404.6	6234.4	5873.4
65°	7605.1	7615.4	7688.3	7745.9	7758.7	7801.0	7930.2	8287.3	8548.4	8109.4	7107.2
67.5°	7130.3	7190.5	7358.1	7568.0	7813.7	8051.8	8435.8	9188.3	9724.6	9208.8	7785.5
69°	5902.8	5932.3	6341.9	6737.3	7337.6	7757.4	8314.2	9301.0	9903.8	9321.5	7731.9
70°	4647.3	4674.2	5113.1	5650.7	6665.7	7205.8	7934.0	9110.3	9736.2	9171.7	7455.4
72.5°	2096.5	2058.1	2212.9	2500.9	3604.2	4461.7	5735.2	7381.2	8032.6	7347.9	5577.8
75°	1464.2	1447.5	1464.2	1465.5	1636.9	2111.8	2664.8	4001.0	4948.0	4269.7	2664.8
77.5°	1134.0	1122.4	1111.0	1098.1	1118.6	1253.0	1306.8	1419.4	1843.1	1743.2	1016.2
80°	897.2	887.0	915.2	906.1	906.1	921.5	911.3	869.0	789.7	732.1	655.3
82.5°	417.2	419.8	419.8	455.6	549.1	641.2	670.7	628.5	558.0	474.8	382.7
85°	39.7	44.8	75.5	116.5	231.6	261.1	262.4	217.6	217.6	171.5	138.2
87.5°	0.0	1.3	1.3	1.3	11.5	32.0	26.9	7.7	3.8	3.8	6.4
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	590.1	590.1	590.1	590.1	590.1	590.1	590.1	590.1	590.1	590.1	590.1
2.5°	680.9	677.0	661.7	646.3	632.3	616.9	602.8	588.7	573.4	561.9	547.8
5°	796.1	767.9	735.9	705.2	674.5	642.5	609.2	579.8	549.1	520.9	494.0
7.5°	912.6	857.5	814.1	759.0	709.0	659.2	613.0	565.7	522.2	481.2	442.9
10°	1011.1	944.6	876.7	806.3	734.7	668.1	604.1	547.8	490.2	440.3	392.9
12.5°	1091.7	1007.3	924.1	835.7	755.2	670.7	591.4	523.4	455.6	399.4	350.7
15°	1164.7	1067.4	967.6	865.2	762.8	666.8	578.5	494.0	424.9	360.9	305.9
17.5°	1223.5	1112.2	999.6	884.4	774.3	661.7	561.9	473.6	392.9	326.3	272.7
20°	1274.8	1158.3	1036.8	907.4	782.1	660.5	547.8	448.0	364.7	294.4	241.9
22.5°	1322.1	1205.7	1075.1	936.8	793.5	659.2	535.0	428.7	340.5	270.0	217.6
25°	1375.9	1253.0	1116.1	967.6	814.1	664.3	527.4	413.4	318.7	247.0	198.4
27.5°	1436.0	1306.8	1164.7	1006.0	840.8	674.5	524.7	396.7	299.5	225.3	183.1
30°	1520.5	1370.8	1213.3	1044.4	865.2	686.1	522.2	386.5	280.3	208.7	167.6
32.5°	1594.7	1433.5	1267.1	1084.1	892.1	697.6	520.9	372.5	262.4	192.0	156.2
35°	1672.8	1491.1	1313.1	1122.4	915.2	710.3	519.6	362.2	245.8	175.3	144.7
37.5°	1740.7	1539.7	1349.0	1155.7	940.7	721.9	520.9	353.2	230.4	161.3	134.4
40°	1798.2	1589.6	1388.7	1186.4	967.6	739.8	522.2	344.3	215.0	148.5	125.4
42.5°	1849.4	1636.9	1430.9	1221.0	998.3	760.3	529.9	336.7	202.2	136.9	116.5
45°	1889.1	1680.5	1477.0	1269.7	1048.2	793.5	543.9	331.5	189.4	126.7	108.7
47.5°	1930.1	1744.5	1555.1	1346.4	1121.2	846.1	568.3	330.2	179.2	119.1	102.4
50°	1986.4	1808.5	1624.2	1424.5	1187.7	899.7	597.7	331.5	166.4	111.3	96.0
52.5°	2027.4	1873.8	1713.8	1560.2	1346.4	1063.6	711.6	354.5	160.0	104.9	88.3
55°	2269.2	2242.3	2246.2	2271.8	2106.7	1809.8	1190.3	511.9	188.2	119.1	87.1
57.5°	3199.7	3294.4	3349.5	3348.2	3075.6	2550.8	1598.6	657.9	209.9	138.2	103.6
60°	4423.3	4351.7	4250.5	4001.0	3638.7	2911.7	1788.0	707.8	181.8	110.0	94.7
62.5°	5504.8	5085.1	4712.6	4308.1	3833.2	3037.2	1826.4	703.9	158.7	83.2	66.5
65°	6179.3	5424.2	4822.6	4315.8	3756.5	2932.2	1727.8	646.3	134.4	67.8	55.1
67.5°	6340.6	5241.1	4390.1	3743.7	3138.3	2282.1	1268.4	486.3	104.9	56.3	48.7
69°	5988.6	4658.8	3637.4	2904.1	2283.4	1514.1	784.6	307.2	80.7	51.2	44.8
70°	5508.7	4052.1	2963.0	2330.7	1690.7	1063.6	549.1	216.3	65.3	47.3	40.9
72.5°	3544.0	2128.5	1456.5	1013.7	697.6	423.6	215.0	97.3	50.0	39.7	33.3
75°	1374.6	787.2	570.8	433.9	339.2	235.5	130.5	62.7	42.2	33.3	25.6
77.5°	677.0	518.3	423.6	290.5	168.9	104.9	70.4	48.7	34.5	24.3	16.7
80°	535.0	355.8	212.5	131.8	99.8	75.5	53.8	39.7	25.6	15.3	11.5
82.5°	273.9	149.8	110.0	89.6	74.2	58.9	43.5	28.2	16.7	10.2	8.9
85°	85.8	62.7	56.3	55.1	51.2	42.2	30.7	18.0	10.2	6.4	6.4
87.5°	6.4	8.9	11.5	8.9	10.2	8.9	11.5	7.7	5.1	5.1	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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	590.1	590.1	590.1	590.1	590.1	590.1	590.1	590.1	590.1	590.1	590.1
2.5°	537.6	522.2	508.1	499.2	482.5	476.1	469.7	467.2	455.6	458.2	448.0
5°	469.7	442.9	422.3	401.9	382.7	368.7	357.1	343.0	331.5	326.3	316.1
7.5°	408.3	373.8	346.9	325.1	302.0	284.1	268.7	258.5	248.3	238.0	232.9
10°	354.5	317.4	286.7	264.9	243.2	227.8	216.3	208.7	202.2	198.4	197.1
12.5°	304.7	268.7	240.7	221.4	204.7	197.1	192.0	188.2	186.9	185.6	185.6
15°	266.2	230.4	208.7	194.5	186.9	183.1	181.8	179.2	176.7	175.3	175.3
17.5°	230.4	203.5	188.2	180.5	176.7	174.0	171.5	168.9	166.4	165.1	165.1
20°	206.0	184.3	176.7	171.5	167.6	165.1	161.3	158.7	157.4	156.2	154.9
22.5°	186.9	172.7	167.6	163.8	158.7	154.9	152.3	149.8	147.2	145.9	144.7
25°	172.7	163.8	160.0	154.9	149.8	145.9	142.0	138.2	135.6	134.4	131.8
27.5°	162.5	156.2	151.1	144.7	139.5	135.6	131.8	128.0	125.4	122.9	121.6
30°	153.6	147.2	140.7	135.6	129.3	125.4	120.3	116.5	115.2	112.7	110.0
32.5°	144.7	138.2	131.8	125.4	119.1	114.0	111.3	106.2	103.6	102.4	99.8
35°	134.4	128.0	120.3	115.2	108.7	103.6	99.8	96.0	93.4	90.9	89.6
37.5°	125.4	117.8	110.0	103.6	98.5	93.4	89.6	85.8	83.2	80.7	79.3
40°	115.2	107.5	99.8	93.4	88.3	84.5	80.7	76.8	74.2	72.9	72.9
42.5°	106.2	97.3	89.6	84.5	80.7	75.5	71.6	67.8	66.5	65.3	66.5
45°	97.3	88.3	82.0	76.8	72.9	67.8	64.0	61.4	60.2	61.4	62.7
47.5°	89.6	80.7	74.2	70.4	66.5	62.7	58.9	56.3	56.3	58.9	61.4
50°	82.0	72.9	67.8	65.3	61.4	57.6	52.5	51.2	52.5	55.1	57.6
52.5°	74.2	64.0	60.2	58.9	55.1	51.2	47.3	46.0	47.3	50.0	48.7
55°	66.5	56.3	55.1	53.8	50.0	44.8	40.9	40.9	40.9	39.7	37.1
57.5°	64.0	50.0	48.7	47.3	43.5	38.4	35.8	33.3	32.0	28.2	26.9
60°	66.5	44.8	44.8	42.2	38.4	33.3	29.4	25.6	23.1	20.5	20.5
62.5°	53.8	40.9	39.7	37.1	32.0	26.9	23.1	19.2	18.0	16.7	16.7
65°	43.5	37.1	34.5	30.7	26.9	21.8	18.0	15.3	14.0	14.0	15.3
67.5°	39.7	33.3	29.4	25.6	21.8	16.7	14.0	12.8	12.8	14.0	14.0
69°	37.1	30.7	26.9	23.1	19.2	15.3	12.8	12.8	12.8	12.8	14.0
70°	34.5	29.4	25.6	21.8	16.7	12.8	11.5	11.5	12.8	12.8	14.0
72.5°	26.9	23.1	21.8	18.0	12.8	11.5	10.2	11.5	11.5	12.8	12.8
75°	20.5	16.7	16.7	14.0	10.2	8.9	8.9	10.2	10.2	11.5	11.5
77.5°	14.0	11.5	11.5	10.2	8.9	7.7	7.7	8.9	10.2	10.2	11.5
80°	10.2	8.9	7.7	8.9	7.7	6.4	7.7	8.9	8.9	10.2	10.2
82.5°	7.7	7.7	7.7	7.7	6.4	6.4	7.7	7.7	8.9	10.2	10.2
85°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	7.7	7.7	8.9	8.9
87.5°	3.8	3.8	3.8	5.1	5.1	6.4	6.4	6.4	6.4	7.7	7.7
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°	170°	175°	180°
0°	590.1	590.1	590.1	590.1
2.5°	445.4	444.1	439.0	440.3
5°	312.3	304.7	309.8	308.5
7.5°	229.1	227.8	226.5	229.1
10°	195.8	195.8	194.5	195.8
12.5°	184.3	184.3	184.3	184.3
15°	175.3	175.3	174.0	174.0
17.5°	165.1	165.1	165.1	163.8
20°	154.9	153.6	153.6	153.6
22.5°	143.3	142.0	142.0	142.0
25°	131.8	130.5	130.5	130.5
27.5°	120.3	119.1	117.8	117.8
30°	108.7	107.5	106.2	106.2
32.5°	97.3	96.0	94.7	94.7
35°	87.1	87.1	85.8	84.5
37.5°	78.0	78.0	78.0	78.0
40°	71.6	72.9	72.9	72.9
42.5°	67.8	69.1	70.4	71.6
45°	65.3	67.8	69.1	69.1
47.5°	64.0	65.3	66.5	66.5
50°	58.9	57.6	57.6	57.6
52.5°	47.3	44.8	43.5	42.2
55°	34.5	33.3	30.7	30.7
57.5°	24.3	24.3	23.1	23.1
60°	19.2	19.2	18.0	19.2
62.5°	16.7	16.7	16.7	16.7
65°	15.3	15.3	15.3	15.3
67.5°	15.3	15.3	15.3	15.3
69°	14.0	14.0	14.0	14.0
70°	14.0	14.0	14.0	14.0
72.5°	12.8	12.8	12.8	12.8
75°	11.5	12.8	12.8	12.8
77.5°	11.5	11.5	11.5	11.5
80°	10.2	10.2	11.5	11.5
82.5°	10.2	10.2	10.2	10.2
85°	8.9	8.9	10.2	10.2
87.5°	7.7	7.7	8.9	8.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)