

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: P180848

Luminaire Tested: **ICS-E04-LED-E1-SL4-HSS**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180848  
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: ICS-E04-LED-E1-SL4-HSS  
Description: ICON SITE SMALL LED LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD  
Light Source: (84) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

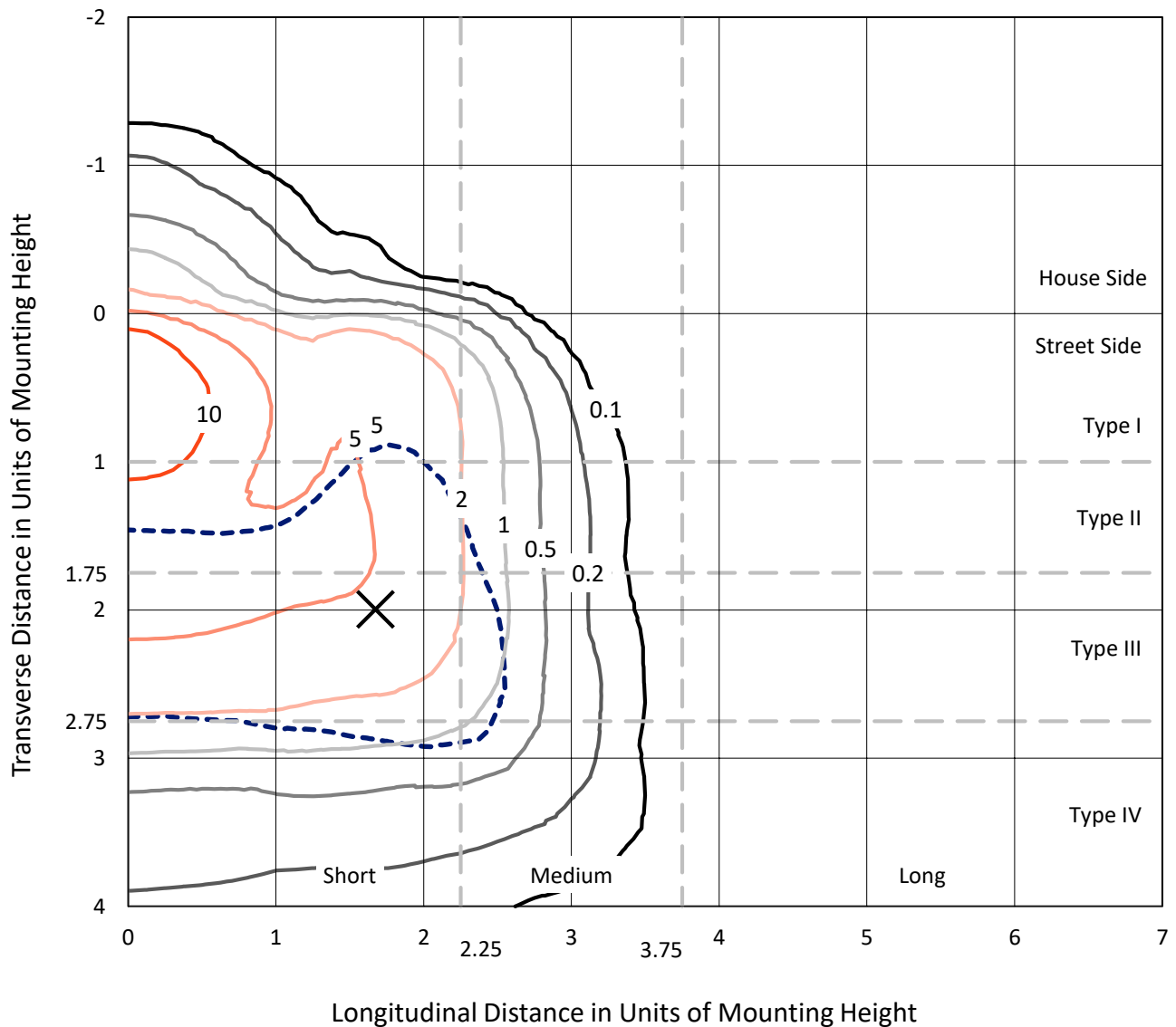
Lumens per Lamp: N/A  
Luminaire Lumens: 7325.7 lumens  
Efficiency: N/A  
Efficacy: 75.4 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B0 - U0 - G2  
  
Input Watts (W): 97.2  
Input Voltage (V): NR  
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

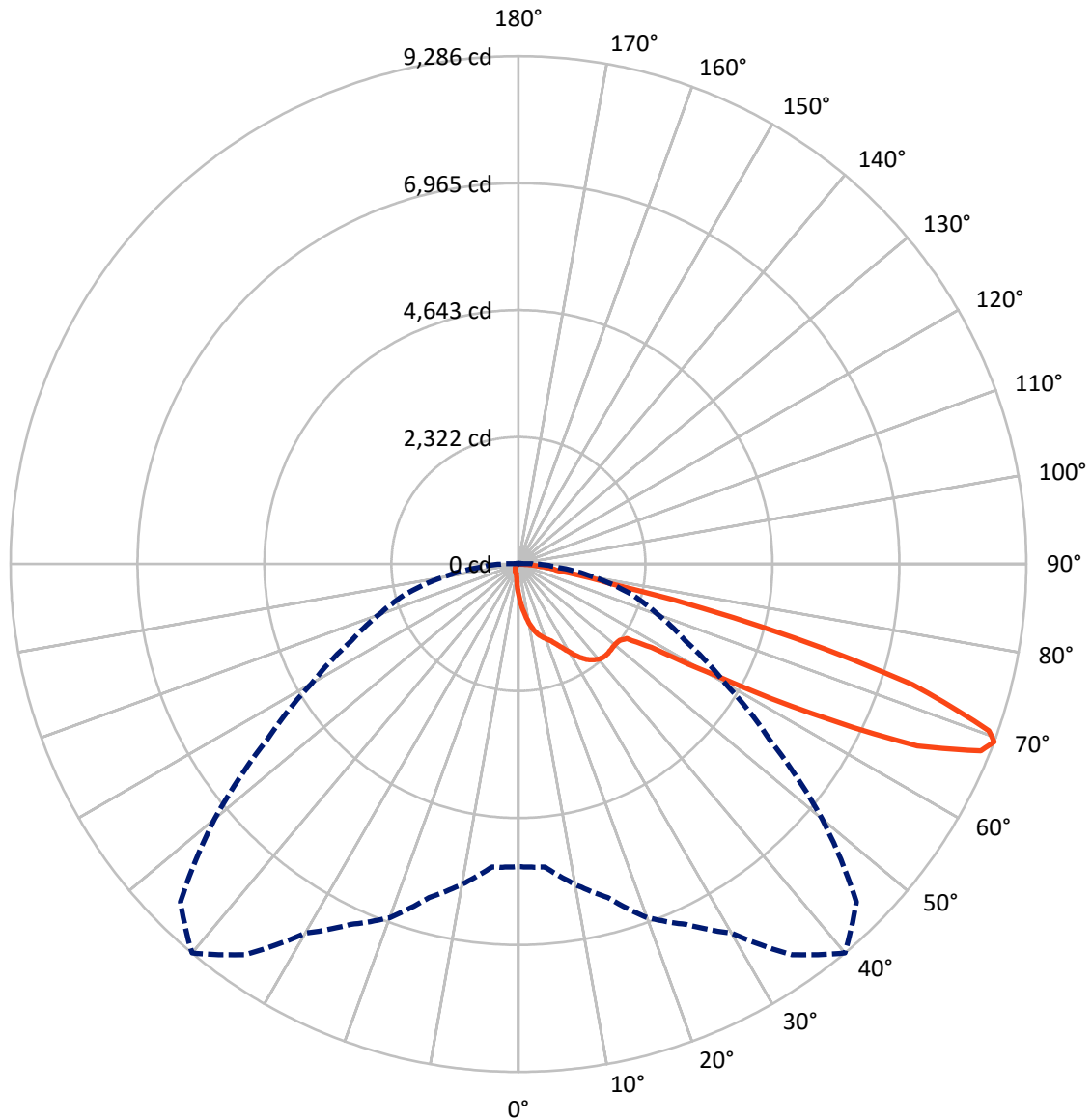


Based on 10 foot mounting height. Maximum calculated value = 16.4 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



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

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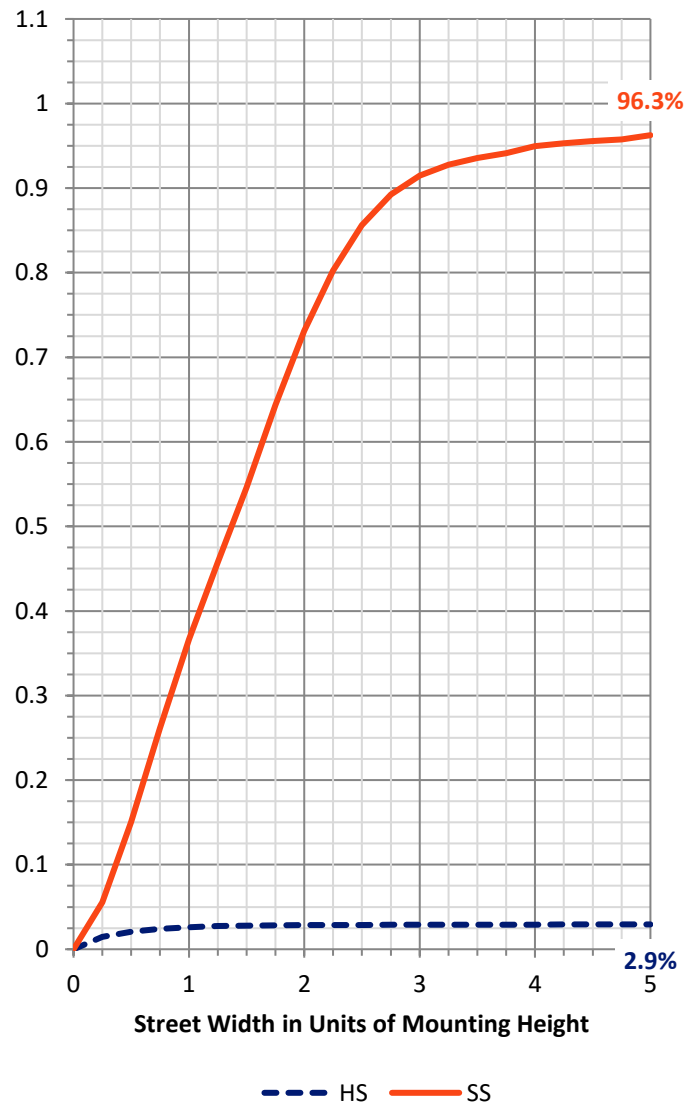
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	218.1	0.0	218.1
	% Fixture	3.0	0.0	3.0
<b>Street Side</b>	Lumens	7107.5	0.0	7107.5
	% Fixture	97.0	0.0	97.0
<b>Total</b>	Lumens	7325.7	0.0	7325.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.9	0.8
10°-20°	196.1	2.7
20°-30°	375.2	5.1
30°-40°	624.0	8.5
40°-50°	844.4	11.5
50°-60°	1320.6	18.0
60°-70°	2715.0	37.1
70°-80°	1092.5	14.9
80°-90°	101.1	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°	7325.7	100.0
0°-180°	7325.7	100.0



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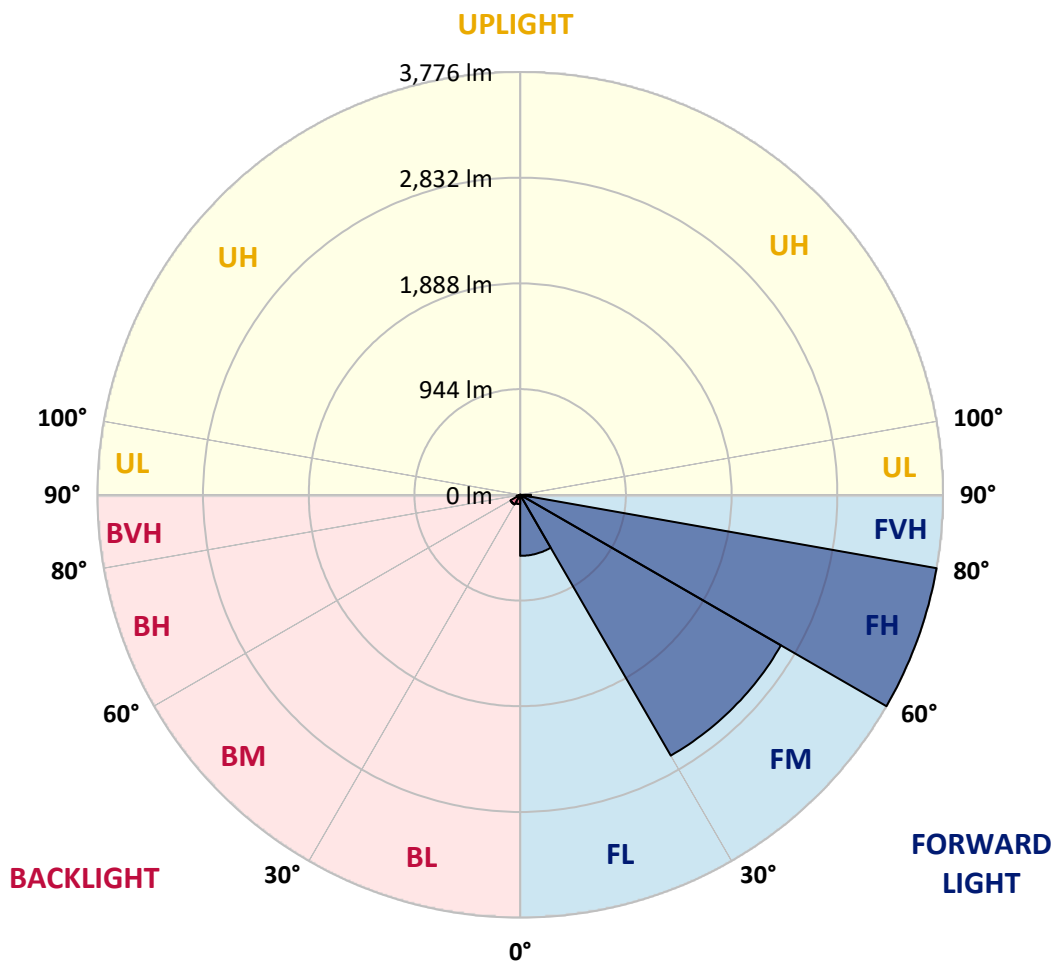
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	545.2	7.4			
FM (30°-60°)	2689.4	36.7			
FH (60°-80°)	3775.7	51.5			G2/5000
FVH (80°-90°)	97.3	1.3			G1/100
BL (0°-30°)	83.0	1.1	B0/110		
BM (30°-60°)	99.6	1.4	B0/220		
BH (60°-80°)	31.8	0.4	B0/110		G0/110
BVH (80°-90°)	3.8	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°	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2
2.5°	738.0	729.6	720.0	720.0	708.0	708.0	700.8	681.6	679.2	668.4	657.6
5°	942.1	934.9	922.9	912.0	902.4	885.6	873.6	850.8	825.6	801.6	780.0
7.5°	1141.3	1137.7	1116.1	1112.5	1096.9	1069.3	1045.3	1011.7	968.5	934.9	895.2
10°	1326.1	1317.7	1312.9	1292.5	1269.7	1239.7	1202.5	1161.7	1111.3	1058.5	1002.1
12.5°	1472.5	1467.7	1446.1	1437.7	1413.7	1383.7	1336.9	1284.1	1233.7	1165.3	1099.3
15°	1581.7	1573.3	1558.9	1545.7	1516.9	1490.5	1447.3	1389.7	1328.5	1254.1	1174.9
17.5°	1672.9	1657.3	1653.7	1633.3	1603.3	1572.1	1524.1	1471.3	1399.3	1324.9	1238.5
20°	1795.3	1773.7	1766.5	1736.5	1701.7	1658.5	1603.3	1537.3	1461.7	1380.1	1291.3
22.5°	1939.3	1923.7	1908.1	1881.7	1837.3	1776.1	1695.7	1623.7	1527.7	1437.7	1341.7
25°	2143.3	2130.1	2104.9	2068.9	2013.7	1940.5	1843.3	1737.7	1624.9	1509.7	1396.9
27.5°	2341.3	2329.3	2311.3	2283.7	2221.3	2140.9	2020.9	1886.5	1743.7	1604.5	1479.7
30°	2527.3	2516.5	2498.5	2470.9	2415.7	2336.5	2200.9	2056.9	1879.3	1717.3	1567.3
32.5°	2727.7	2724.1	2703.7	2664.1	2616.1	2509.3	2361.7	2206.9	2026.9	1839.7	1664.5
35°	2954.6	2927.0	2907.8	2868.2	2786.6	2672.5	2499.7	2330.5	2140.9	1948.9	1753.3
37.5°	3146.6	3120.2	3096.2	3045.8	2946.2	2801.0	2605.3	2419.3	2223.7	2028.1	1828.9
40°	3287.0	3273.8	3245.0	3179.0	3067.4	2894.6	2683.3	2480.5	2283.7	2086.9	1890.1
42.5°	3391.4	3371.0	3338.6	3270.2	3138.2	2941.4	2714.5	2505.7	2311.3	2122.9	1929.7
45°	3429.8	3413.0	3383.0	3308.6	3165.8	2954.6	2713.3	2498.5	2312.5	2133.7	1956.1
47.5°	3407.0	3390.2	3363.8	3294.2	3153.8	2939.0	2691.7	2478.1	2300.5	2137.3	1980.1
50°	3331.4	3321.8	3301.4	3242.6	3116.6	2909.0	2672.5	2467.3	2298.1	2155.3	2013.7
52.5°	3324.2	3318.2	3293.0	3234.2	3105.8	2899.4	2670.1	2473.3	2318.5	2178.1	2037.7
55°	4062.2	3977.0	3786.2	3624.2	3357.8	3041.0	2791.4	2570.5	2404.9	2268.1	2169.7
57.5°	5773.5	5646.3	5395.5	5087.1	4475.0	3873.8	3392.6	3044.6	2873.0	2810.6	2847.8
60°	6575.2	6552.4	6512.8	6366.3	6053.1	5535.9	4959.9	4337.0	4087.4	4065.8	4141.4
62.5°	6955.6	6941.2	6953.2	6935.2	6838.0	6686.8	6521.2	6252.3	6005.1	5845.5	5507.1
65°	7130.8	7140.4	7208.8	7262.8	7274.8	7314.4	7435.6	7770.4	8015.2	7603.6	6664.0
67.5°	6685.6	6742.0	6899.2	7096.0	7326.4	7549.6	7909.6	8615.3	9118.1	8634.5	7300.0
69°	5534.7	5562.3	5946.3	6317.1	6880.0	7273.6	7795.6	8720.9	9286.1	8740.1	7249.6
70°	4357.4	4382.6	4794.3	5298.3	6249.9	6756.4	7439.2	8542.1	9128.9	8599.7	6990.4
72.5°	1965.7	1929.7	2074.9	2344.9	3379.4	4183.4	5377.5	6920.8	7531.6	6889.6	5229.9
75°	1372.9	1357.3	1372.9	1374.1	1534.9	1980.1	2498.5	3751.4	4639.5	4003.4	2498.5
77.5°	1063.3	1052.5	1041.7	1029.7	1048.9	1174.9	1225.3	1330.9	1728.1	1634.5	952.9
80°	841.2	831.6	858.0	849.6	849.6	864.0	854.4	814.8	740.4	686.4	614.4
82.5°	391.2	393.6	393.6	427.2	514.8	601.2	628.8	589.2	523.2	445.2	358.8
85°	37.2	42.0	70.8	109.2	217.2	244.8	246.0	204.0	204.0	160.8	129.6
87.5°	0.0	1.2	1.2	1.2	10.8	30.0	25.2	7.2	3.6	3.6	6.0
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°	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2
2.5°	638.4	634.8	620.4	606.0	592.8	578.4	565.2	552.0	537.6	526.8	513.6
5°	746.4	720.0	690.0	661.2	632.4	602.4	571.2	543.6	514.8	488.4	463.2
7.5°	855.6	804.0	763.2	711.6	664.8	618.0	574.8	530.4	489.6	451.2	415.2
10°	948.1	885.6	822.0	756.0	688.8	626.4	566.4	513.6	459.6	412.8	368.4
12.5°	1023.7	944.5	866.4	783.6	708.0	628.8	554.4	490.8	427.2	374.4	328.8
15°	1092.1	1000.9	907.2	811.2	715.2	625.2	542.4	463.2	398.4	338.4	286.8
17.5°	1147.3	1042.9	937.3	829.2	726.0	620.4	526.8	444.0	368.4	306.0	255.6
20°	1195.3	1086.1	972.1	850.8	733.2	619.2	513.6	420.0	342.0	276.0	226.8
22.5°	1239.7	1130.5	1008.1	878.4	744.0	618.0	501.6	402.0	319.2	253.2	204.0
25°	1290.1	1174.9	1046.5	907.2	763.2	622.8	494.4	387.6	298.8	231.6	186.0
27.5°	1346.5	1225.3	1092.1	943.3	788.4	632.4	492.0	372.0	280.8	211.2	171.6
30°	1425.7	1285.3	1137.7	979.3	811.2	643.2	489.6	362.4	262.8	195.6	157.2
32.5°	1495.3	1344.1	1188.1	1016.5	836.4	654.0	488.4	349.2	246.0	180.0	146.4
35°	1568.5	1398.1	1231.3	1052.5	858.0	666.0	487.2	339.6	230.4	164.4	135.6
37.5°	1632.1	1443.7	1264.9	1083.7	882.0	676.8	488.4	331.2	216.0	151.2	126.0
40°	1686.1	1490.5	1302.1	1112.5	907.2	693.6	489.6	322.8	201.6	139.2	117.6
42.5°	1734.1	1534.9	1341.7	1144.9	936.1	712.8	496.8	315.6	189.6	128.4	109.2
45°	1771.3	1575.7	1384.9	1190.5	982.9	744.0	510.0	310.8	177.6	118.8	102.0
47.5°	1809.7	1635.7	1458.1	1262.5	1051.3	793.2	532.8	309.6	168.0	111.6	96.0
50°	1862.5	1695.7	1522.9	1335.7	1113.7	843.6	560.4	310.8	156.0	104.4	90.0
52.5°	1900.9	1756.9	1606.9	1462.9	1262.5	997.3	667.2	332.4	150.0	98.4	82.8
55°	2127.7	2102.5	2106.1	2130.1	1975.3	1696.9	1116.1	480.0	176.4	111.6	81.6
57.5°	3000.2	3089.0	3140.6	3139.4	2883.8	2391.7	1498.9	616.8	196.8	129.6	97.2
60°	4147.4	4080.2	3985.4	3751.4	3411.8	2730.1	1676.5	663.6	170.4	103.2	88.8
62.5°	5161.5	4767.9	4418.6	4039.4	3594.2	2847.8	1712.5	660.0	148.8	78.0	62.4
65°	5793.9	5085.9	4521.8	4046.6	3522.2	2749.3	1620.1	606.0	126.0	63.6	51.6
67.5°	5945.1	4914.3	4116.2	3510.2	2942.6	2139.7	1189.3	456.0	98.4	52.8	45.6
69°	5615.1	4368.2	3410.6	2722.9	2140.9	1419.7	735.6	288.0	75.6	48.0	42.0
70°	5165.1	3799.4	2778.2	2185.3	1585.3	997.3	514.8	202.8	61.2	44.4	38.4
72.5°	3323.0	1995.7	1365.7	950.5	654.0	397.2	201.6	91.2	46.8	37.2	31.2
75°	1288.9	738.0	535.2	406.8	318.0	220.8	122.4	58.8	39.6	31.2	24.0
77.5°	634.8	486.0	397.2	272.4	158.4	98.4	66.0	45.6	32.4	22.8	15.6
80°	501.6	333.6	199.2	123.6	93.6	70.8	50.4	37.2	24.0	14.4	10.8
82.5°	256.8	140.4	103.2	84.0	69.6	55.2	40.8	26.4	15.6	9.6	8.4
85°	80.4	58.8	52.8	51.6	48.0	39.6	28.8	16.8	9.6	6.0	6.0
87.5°	6.0	8.4	10.8	8.4	9.6	8.4	10.8	7.2	4.8	4.8	3.6
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°	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2
2.5°	504.0	489.6	476.4	468.0	452.4	446.4	440.4	438.0	427.2	429.6	420.0
5°	440.4	415.2	396.0	376.8	358.8	345.6	334.8	321.6	310.8	306.0	296.4
7.5°	382.8	350.4	325.2	304.8	283.2	266.4	252.0	242.4	232.8	223.2	218.4
10°	332.4	297.6	268.8	248.4	228.0	213.6	202.8	195.6	189.6	186.0	184.8
12.5°	285.6	252.0	225.6	207.6	192.0	184.8	180.0	176.4	175.2	174.0	174.0
15°	249.6	216.0	195.6	182.4	175.2	171.6	170.4	168.0	165.6	164.4	164.4
17.5°	216.0	190.8	176.4	169.2	165.6	163.2	160.8	158.4	156.0	154.8	154.8
20°	193.2	172.8	165.6	160.8	157.2	154.8	151.2	148.8	147.6	146.4	145.2
22.5°	175.2	162.0	157.2	153.6	148.8	145.2	142.8	140.4	138.0	136.8	135.6
25°	162.0	153.6	150.0	145.2	140.4	136.8	133.2	129.6	127.2	126.0	123.6
27.5°	152.4	146.4	141.6	135.6	130.8	127.2	123.6	120.0	117.6	115.2	114.0
30°	144.0	138.0	132.0	127.2	121.2	117.6	112.8	109.2	108.0	105.6	103.2
32.5°	135.6	129.6	123.6	117.6	111.6	106.8	104.4	99.6	97.2	96.0	93.6
35°	126.0	120.0	112.8	108.0	102.0	97.2	93.6	90.0	87.6	85.2	84.0
37.5°	117.6	110.4	103.2	97.2	92.4	87.6	84.0	80.4	78.0	75.6	74.4
40°	108.0	100.8	93.6	87.6	82.8	79.2	75.6	72.0	69.6	68.4	68.4
42.5°	99.6	91.2	84.0	79.2	75.6	70.8	67.2	63.6	62.4	61.2	62.4
45°	91.2	82.8	76.8	72.0	68.4	63.6	60.0	57.6	56.4	57.6	58.8
47.5°	84.0	75.6	69.6	66.0	62.4	58.8	55.2	52.8	52.8	55.2	57.6
50°	76.8	68.4	63.6	61.2	57.6	54.0	49.2	48.0	49.2	51.6	54.0
52.5°	69.6	60.0	56.4	55.2	51.6	48.0	44.4	43.2	44.4	46.8	45.6
55°	62.4	52.8	51.6	50.4	46.8	42.0	38.4	38.4	38.4	37.2	34.8
57.5°	60.0	46.8	45.6	44.4	40.8	36.0	33.6	31.2	30.0	26.4	25.2
60°	62.4	42.0	42.0	39.6	36.0	31.2	27.6	24.0	21.6	19.2	19.2
62.5°	50.4	38.4	37.2	34.8	30.0	25.2	21.6	18.0	16.8	15.6	15.6
65°	40.8	34.8	32.4	28.8	25.2	20.4	16.8	14.4	13.2	13.2	14.4
67.5°	37.2	31.2	27.6	24.0	20.4	15.6	13.2	12.0	12.0	13.2	13.2
69°	34.8	28.8	25.2	21.6	18.0	14.4	12.0	12.0	12.0	12.0	13.2
70°	32.4	27.6	24.0	20.4	15.6	12.0	10.8	10.8	12.0	12.0	13.2
72.5°	25.2	21.6	20.4	16.8	12.0	10.8	9.6	10.8	10.8	12.0	12.0
75°	19.2	15.6	15.6	13.2	9.6	8.4	8.4	9.6	9.6	10.8	10.8
77.5°	13.2	10.8	10.8	9.6	8.4	7.2	7.2	8.4	9.6	9.6	10.8
80°	9.6	8.4	7.2	8.4	7.2	6.0	7.2	8.4	8.4	9.6	9.6
82.5°	7.2	7.2	7.2	7.2	6.0	6.0	7.2	7.2	8.4	9.6	9.6
85°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	7.2	7.2	8.4	8.4
87.5°	3.6	3.6	3.6	4.8	4.8	6.0	6.0	6.0	6.0	7.2	7.2
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°	553.2	553.2	553.2	553.2
2.5°	417.6	416.4	411.6	412.8
5°	292.8	285.6	290.4	289.2
7.5°	214.8	213.6	212.4	214.8
10°	183.6	183.6	182.4	183.6
12.5°	172.8	172.8	172.8	172.8
15°	164.4	164.4	163.2	163.2
17.5°	154.8	154.8	154.8	153.6
20°	145.2	144.0	144.0	144.0
22.5°	134.4	133.2	133.2	133.2
25°	123.6	122.4	122.4	122.4
27.5°	112.8	111.6	110.4	110.4
30°	102.0	100.8	99.6	99.6
32.5°	91.2	90.0	88.8	88.8
35°	81.6	81.6	80.4	79.2
37.5°	73.2	73.2	73.2	73.2
40°	67.2	68.4	68.4	68.4
42.5°	63.6	64.8	66.0	67.2
45°	61.2	63.6	64.8	64.8
47.5°	60.0	61.2	62.4	62.4
50°	55.2	54.0	54.0	54.0
52.5°	44.4	42.0	40.8	39.6
55°	32.4	31.2	28.8	28.8
57.5°	22.8	22.8	21.6	21.6
60°	18.0	18.0	16.8	18.0
62.5°	15.6	15.6	15.6	15.6
65°	14.4	14.4	14.4	14.4
67.5°	14.4	14.4	14.4	14.4
69°	13.2	13.2	13.2	13.2
70°	13.2	13.2	13.2	13.2
72.5°	12.0	12.0	12.0	12.0
75°	10.8	12.0	12.0	12.0
77.5°	10.8	10.8	10.8	10.8
80°	9.6	9.6	10.8	10.8
82.5°	9.6	9.6	9.6	9.6
85°	8.4	8.4	9.6	9.6
87.5°	7.2	7.2	8.4	8.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)