

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: P181597

Luminaire Tested: **ICS-E03-LED-E1-T4-HSS-8030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P181597  
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: ICS-E03-LED-E1-T4-HSS-8030  
Description: ICON SITE SMALL LED LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ HOUSE SIDE SHIELD  
Light Source: (63) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4407.5 lumens  
Efficiency: N/A  
Efficacy: 58.6 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

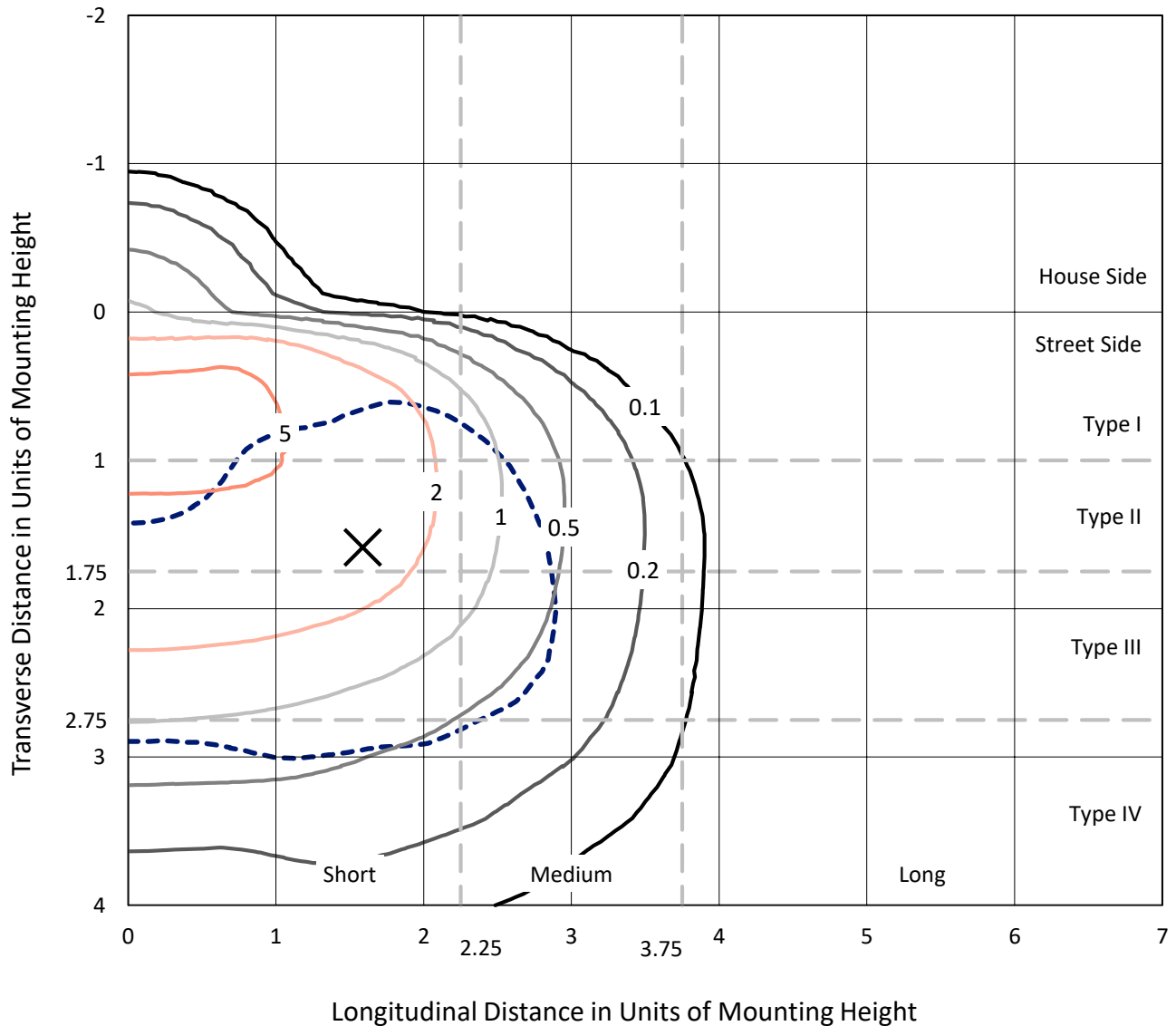
Input Watts (W): 75.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

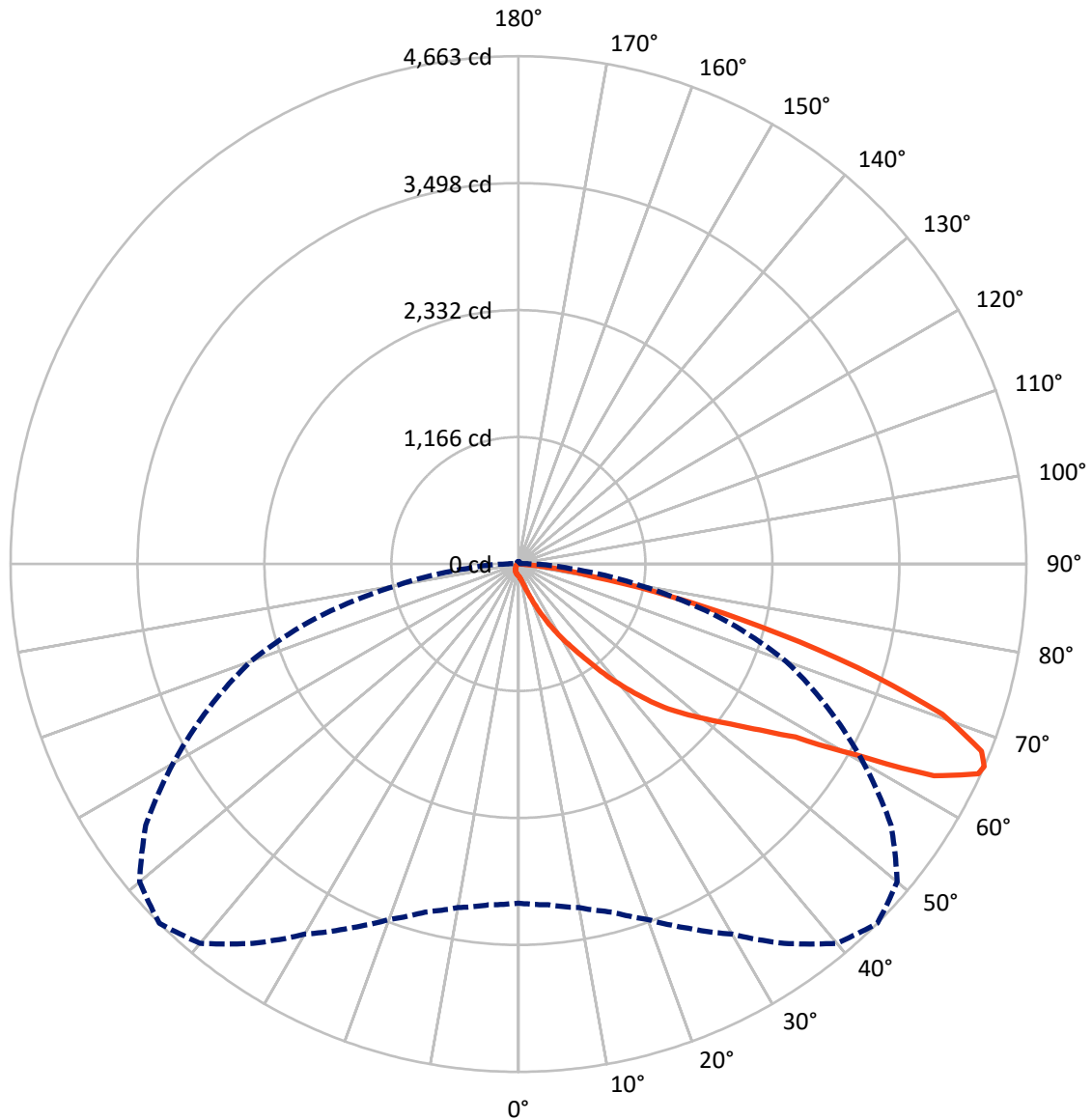
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7 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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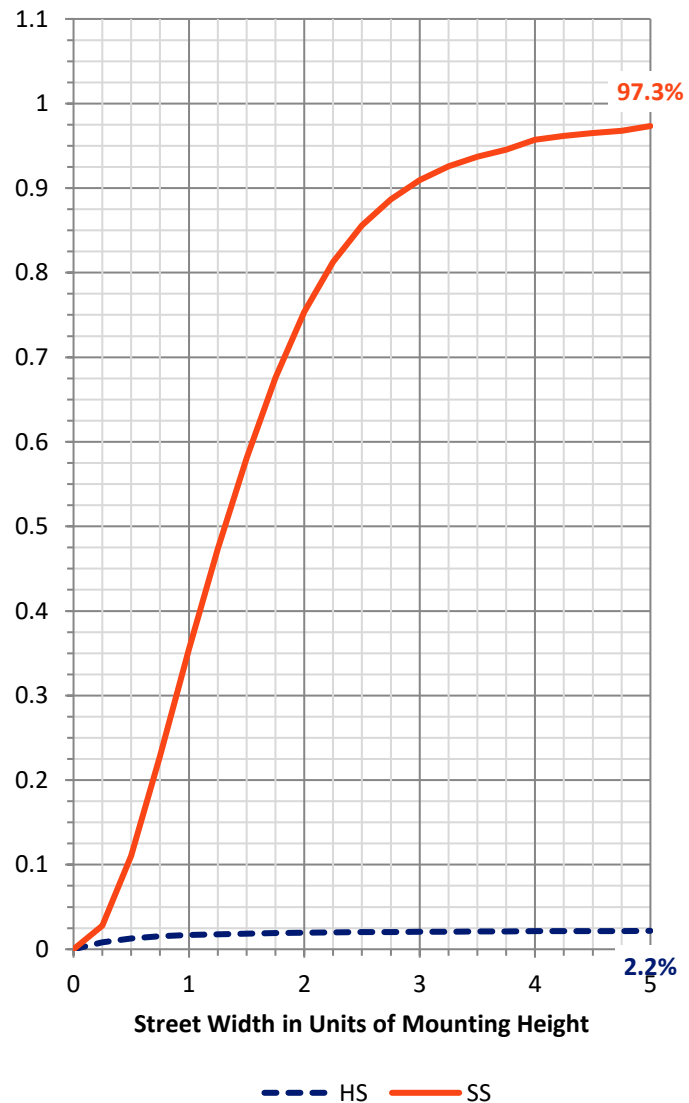
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	99.9	0.0	99.9
	% Fixture	2.3	0.0	2.3
<b>Street Side</b>	Lumens	4307.6	0.0	4307.6
	% Fixture	97.7	0.0	97.7
<b>Total</b>	Lumens	4407.5	0.0	4407.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	11.1	0.3
10°-20°	44.9	1.0
20°-30°	131.7	3.0
30°-40°	307.6	7.0
40°-50°	577.7	13.1
50°-60°	957.4	21.7
60°-70°	1519.9	34.5
70°-80°	786.1	17.8
80°-90°	71.0	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°	4407.5	100.0
0°-180°	4407.5	100.0



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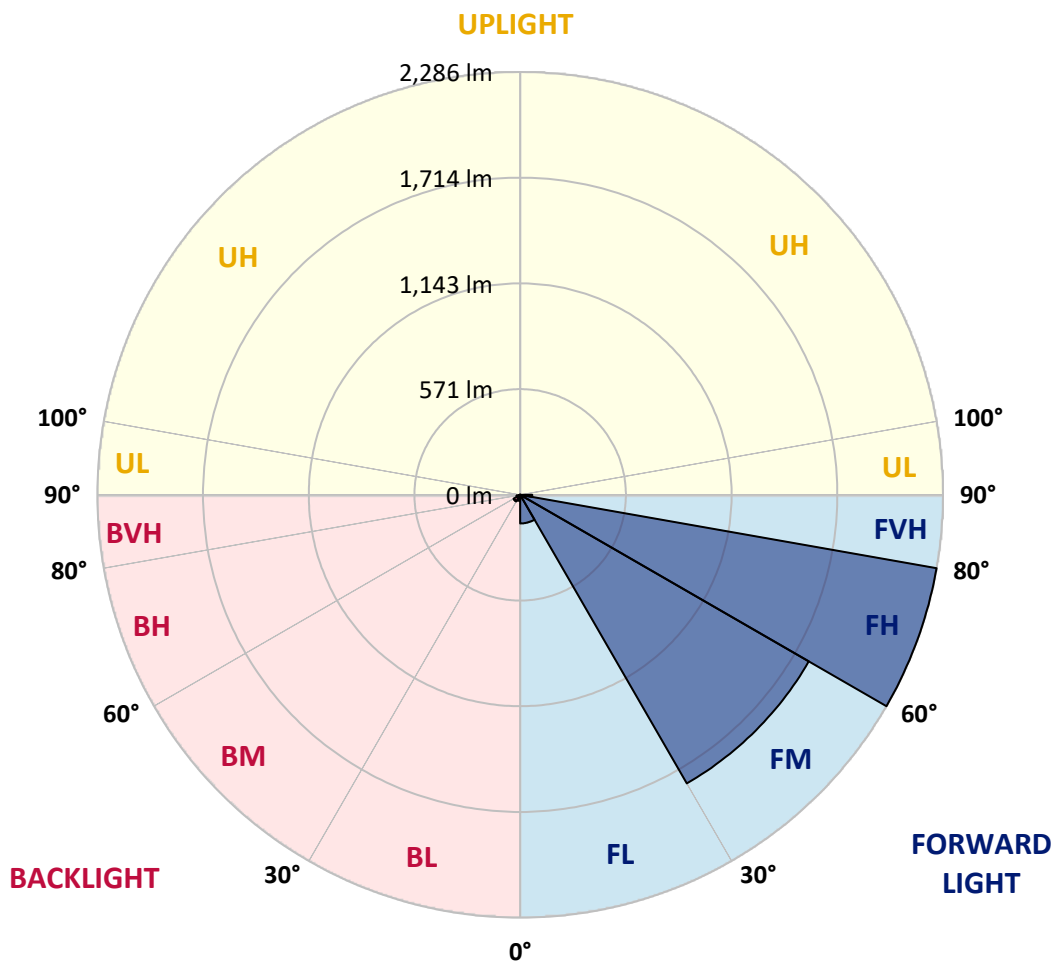
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	155.1	3.5			
FM	(30°-60°)	1801.3	40.9			
FH	(60°-80°)	2285.8	51.9			G2/5000
FVH	(80°-90°)	65.4	1.5			G1/100
BL	(0°-30°)	32.6	0.7	B0/110		
BM	(30°-60°)	41.4	0.9	B0/220		
BH	(60°-80°)	20.2	0.5	B0/110		G0/110
BVH	(80°-90°)	5.6	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-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1
2.5°	119.3	119.3	119.3	119.3	118.5	117.7	117.0	116.2	115.5	115.5	114.7
5°	135.2	136.0	135.2	134.5	132.9	132.2	129.9	128.4	126.1	125.3	123.1
7.5°	157.2	156.5	157.2	155.0	151.9	151.2	148.1	144.3	141.3	136.7	133.7
10°	189.1	188.4	189.1	184.6	180.0	176.2	170.9	166.4	159.5	154.2	148.1
12.5°	240.0	240.0	238.5	232.4	226.4	218.0	209.7	199.8	187.6	177.0	167.1
15°	318.3	314.5	307.7	303.9	293.2	280.3	271.2	251.4	234.0	217.3	197.5
17.5°	412.5	404.9	399.6	391.2	377.5	360.8	345.6	316.8	299.3	271.9	243.8
20°	520.3	511.2	509.7	496.8	482.4	464.1	442.1	407.9	378.3	344.1	304.6
22.5°	630.5	632.0	625.9	616.8	602.4	581.1	546.9	515.8	479.3	436.0	385.1
25°	753.6	752.8	747.5	736.8	726.2	699.6	672.3	642.6	599.4	543.9	483.1
27.5°	869.0	868.3	855.3	856.1	835.6	825.7	799.1	767.2	714.8	668.5	602.4
30°	989.8	982.2	973.8	967.8	953.3	935.9	922.2	884.2	844.7	790.0	736.1
32.5°	1112.1	1103.7	1106.0	1098.4	1087.0	1069.6	1049.1	1017.9	975.4	922.2	872.1
35°	1261.8	1258.0	1251.9	1254.2	1251.9	1239.0	1221.5	1180.5	1134.1	1083.2	1031.6
37.5°	1372.7	1368.9	1372.7	1388.6	1392.4	1400.8	1387.8	1367.3	1333.9	1278.5	1224.5
40°	1475.2	1476.0	1493.4	1513.2	1526.9	1554.2	1558.8	1550.4	1523.8	1472.9	1402.3
42.5°	1567.1	1578.5	1594.5	1627.1	1656.8	1695.5	1724.4	1728.9	1709.2	1675.8	1604.3
45°	1669.7	1679.5	1704.6	1743.4	1784.4	1832.2	1878.6	1902.9	1901.4	1877.8	1801.1
47.5°	1784.4	1797.3	1824.6	1856.5	1911.2	1965.2	2025.2	2068.5	2086.7	2054.0	1979.6
50°	1923.4	1928.7	1952.3	1993.3	2043.4	2105.7	2171.0	2234.1	2269.8	2239.4	2162.7
52.5°	2088.2	2089.8	2111.8	2149.8	2190.0	2258.4	2322.2	2409.6	2455.9	2439.2	2347.3
55°	2314.6	2310.0	2325.2	2357.9	2390.6	2456.7	2520.5	2619.2	2686.8	2688.3	2590.3
57.5°	2623.8	2613.1	2623.0	2648.8	2685.3	2746.8	2827.4	2914.7	3005.1	2999.0	2918.5
60°	3054.5	3050.7	3068.9	3112.2	3174.5	3238.3	3329.5	3447.2	3527.0	3554.3	3470.0
62.5°	3340.9	3351.5	3393.3	3460.1	3580.2	3712.3	3881.7	4061.8	4213.7	4282.1	4165.8
65°	3217.8	3235.3	3300.6	3399.4	3558.1	3756.4	3981.2	4276.7	4538.8	4642.9	4522.1
66°	3113.7	3141.8	3203.4	3308.2	3473.8	3690.3	3925.0	4251.7	4546.4	4663.4	4540.3
67.5°	2933.7	2953.5	3023.3	3139.6	3317.3	3531.5	3785.3	4130.1	4462.8	4586.7	4464.4
70°	2566.8	2574.4	2631.4	2730.1	2867.6	3087.1	3317.3	3649.3	3955.4	4129.4	3995.7
72.5°	1910.5	1921.1	2015.3	2195.3	2373.9	2498.4	2634.4	2900.3	3097.8	3260.3	3234.5
75°	919.2	923.7	986.8	1249.6	1597.5	1746.4	1872.5	2078.4	2153.6	2289.5	2269.0
77.5°	582.6	592.5	633.5	697.3	894.8	1071.8	1171.4	1289.1	1311.1	1425.8	1359.0
80°	160.3	186.1	227.1	334.2	573.5	683.7	728.5	723.9	728.5	693.5	670.8
82.5°	32.7	31.9	38.7	60.0	253.0	398.0	430.0	366.1	363.9	350.2	361.6
85°	8.4	7.6	9.1	19.0	43.3	117.7	148.1	82.8	63.0	60.0	53.2
87.5°	2.3	2.3	2.3	3.8	4.6	6.1	8.4	6.1	4.6	4.6	4.6
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°	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1
2.5°	113.9	113.9	113.2	112.4	112.4	111.7	110.9	110.1	109.4	108.6	107.9
5°	120.8	119.3	117.0	115.5	113.9	111.7	110.1	108.6	107.1	106.3	104.8
7.5°	129.9	126.1	123.1	118.5	115.5	112.4	109.4	107.1	104.8	103.3	101.8
10°	141.3	135.2	129.1	123.1	117.7	113.2	108.6	104.8	102.6	100.3	98.8
12.5°	155.7	146.6	138.3	129.1	120.8	113.9	107.9	103.3	100.3	98.0	95.7
15°	179.3	164.8	150.4	136.7	126.1	115.5	107.1	101.8	98.0	95.7	93.4
17.5°	216.5	190.7	167.9	148.9	131.4	117.7	107.1	100.3	95.7	92.7	90.4
20°	270.4	227.9	191.4	164.1	141.3	121.5	107.1	98.0	93.4	89.6	87.4
22.5°	334.2	281.1	230.9	185.4	152.7	126.9	107.1	95.7	90.4	87.4	84.3
25°	427.7	357.0	288.7	224.9	171.7	135.2	109.4	94.2	88.1	84.3	81.3
27.5°	537.1	452.0	366.9	277.3	200.5	147.4	112.4	92.7	85.8	81.3	78.2
30°	661.6	567.4	463.4	347.2	238.5	163.3	117.7	91.9	82.8	78.2	74.4
32.5°	796.9	697.3	583.4	436.8	294.7	187.6	124.6	91.2	79.8	74.4	69.9
35°	957.9	865.2	726.2	562.9	382.1	229.4	139.8	92.7	76.7	70.6	65.3
37.5°	1134.1	1035.4	888.0	696.6	468.7	276.5	151.2	90.4	71.4	65.3	60.0
40°	1311.9	1198.7	1049.1	837.1	578.8	334.2	165.6	88.1	66.1	60.0	54.7
42.5°	1485.1	1365.8	1203.3	981.4	695.1	402.6	183.8	88.1	62.3	54.7	49.4
45°	1666.6	1523.1	1345.3	1119.7	810.5	480.8	209.7	87.4	57.7	50.1	44.1
47.5°	1838.3	1668.2	1463.8	1241.2	934.3	566.7	239.3	88.1	53.9	45.6	40.3
50°	2000.9	1805.6	1585.4	1349.9	1052.9	659.4	275.7	88.9	50.1	41.8	36.5
52.5°	2178.6	1962.1	1716.0	1461.5	1169.8	752.8	318.3	90.4	46.3	38.0	33.4
55°	2398.9	2158.9	1877.1	1598.3	1293.7	847.0	359.3	91.9	42.5	34.9	30.4
57.5°	2716.4	2443.0	2138.4	1803.4	1457.7	954.1	401.8	95.7	39.5	32.7	28.1
60°	3233.0	2907.1	2555.4	2160.4	1703.1	1099.2	463.4	104.1	35.7	29.6	26.6
62.5°	3854.4	3462.4	3015.0	2535.7	1934.0	1197.2	504.4	113.2	32.7	27.3	25.1
65°	4167.3	3673.6	3157.8	2640.5	1963.7	1168.3	487.7	110.1	28.9	24.3	21.3
66°	4176.5	3662.2	3138.0	2617.7	1933.3	1133.4	471.7	108.6	28.1	23.5	19.8
67.5°	4089.9	3564.2	3033.2	2514.4	1843.6	1065.8	442.9	103.3	25.8	21.3	17.5
70°	3662.2	3150.2	2663.3	2183.9	1586.1	897.9	371.5	91.2	22.8	19.0	16.0
72.5°	2919.3	2502.2	2092.0	1718.3	1232.9	673.8	293.2	74.4	19.8	16.7	13.7
75°	2038.9	1696.3	1384.1	1117.4	774.8	403.4	189.9	52.4	16.7	13.7	11.4
77.5°	1137.9	902.4	682.2	519.6	309.2	126.1	63.0	26.6	14.4	10.6	9.1
80°	578.8	429.2	326.6	240.8	142.8	65.3	31.9	17.5	11.4	8.4	7.6
82.5°	336.5	246.9	196.7	155.7	98.0	49.4	25.8	12.9	7.6	6.1	6.8
85°	75.2	99.5	84.3	71.4	52.4	31.1	18.2	8.4	5.3	5.3	6.1
87.5°	6.1	8.4	7.6	9.9	10.6	9.9	7.6	4.6	3.8	4.6	4.6
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°	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1
2.5°	107.1	106.3	106.3	105.6	104.8	104.8	104.8	104.1	104.8	104.8	104.8
5°	104.1	103.3	102.6	101.8	101.0	100.3	100.3	99.5	99.5	99.5	100.3
7.5°	101.0	99.5	98.8	97.2	96.5	95.7	95.7	95.0	95.0	95.0	95.0
10°	97.2	95.7	94.2	93.4	92.7	91.2	91.2	90.4	89.6	89.6	89.6
12.5°	94.2	92.7	91.2	89.6	88.1	87.4	86.6	85.8	85.1	85.1	85.1
15°	91.2	88.9	87.4	85.8	84.3	82.8	82.0	81.3	80.5	79.8	79.8
17.5°	88.1	85.8	83.6	82.0	80.5	79.0	78.2	76.0	76.0	75.2	75.2
20°	84.3	82.0	79.8	78.2	76.7	75.2	73.7	72.2	70.6	69.9	69.9
22.5°	81.3	79.0	76.7	74.4	72.2	69.9	68.4	66.8	66.1	65.3	64.6
25°	78.2	75.2	72.2	69.9	67.6	65.3	63.8	62.3	60.8	60.0	60.0
27.5°	74.4	71.4	68.4	65.3	63.0	60.8	59.3	57.0	56.2	55.5	54.7
30°	70.6	66.8	63.8	60.8	58.5	55.5	53.9	52.4	50.9	50.9	50.1
32.5°	66.1	62.3	59.3	56.2	53.2	50.9	49.4	47.9	47.1	45.6	45.6
35°	61.5	57.7	53.9	50.9	48.6	46.3	44.8	43.3	41.8	41.0	41.0
37.5°	56.2	52.4	49.4	46.3	44.1	41.8	40.3	38.7	38.0	37.2	36.5
40°	50.1	46.3	44.1	41.8	39.5	38.0	35.7	34.2	33.4	32.7	31.9
42.5°	44.8	41.0	39.5	38.0	35.7	34.2	31.9	30.4	28.9	28.1	27.3
45°	40.3	37.2	35.7	34.2	31.9	29.6	28.1	26.6	25.1	24.3	24.3
47.5°	35.7	33.4	31.9	30.4	28.1	26.6	24.3	23.5	22.0	22.0	22.0
50°	32.7	30.4	28.9	27.3	25.8	23.5	22.0	21.3	20.5	20.5	21.3
52.5°	30.4	28.1	26.6	25.1	23.5	22.0	20.5	19.8	19.8	20.5	21.3
55°	28.1	25.8	24.3	22.8	21.3	20.5	19.0	19.0	19.8	20.5	21.3
57.5°	26.6	23.5	22.0	21.3	19.8	19.0	19.0	19.0	19.8	20.5	22.0
60°	24.3	21.3	19.8	19.8	18.2	18.2	18.2	19.0	19.8	21.3	22.0
62.5°	21.3	19.0	18.2	18.2	17.5	17.5	18.2	19.0	20.5	21.3	22.0
65°	18.2	16.7	16.7	16.7	16.7	17.5	18.2	19.0	19.8	21.3	22.0
66°	16.7	16.0	16.0	16.7	16.7	17.5	18.2	19.0	19.8	20.5	21.3
67.5°	16.0	15.2	15.2	16.0	16.7	16.7	17.5	19.0	19.8	20.5	20.5
70°	13.7	13.7	13.7	15.2	16.0	16.7	17.5	18.2	19.0	19.8	20.5
72.5°	12.2	12.2	12.9	13.7	15.2	16.0	16.7	17.5	19.0	19.8	19.8
75°	10.6	10.6	12.2	12.9	14.4	15.2	16.7	17.5	18.2	19.0	19.0
77.5°	9.1	9.9	11.4	12.9	13.7	15.2	16.0	16.7	17.5	18.2	18.2
80°	8.4	9.9	11.4	12.2	12.9	13.7	14.4	16.0	16.7	17.5	18.2
82.5°	8.4	9.1	10.6	11.4	12.2	13.7	14.4	15.2	16.0	16.7	17.5
85°	6.8	8.4	9.1	10.6	11.4	12.9	13.7	13.7	14.4	15.2	16.0
87.5°	5.3	6.1	6.1	7.6	8.4	9.9	11.4	11.4	12.2	12.9	13.7
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°	110.1	110.1	110.1	110.1
2.5°	104.8	105.6	105.6	105.6
5°	100.3	100.3	100.3	100.3
7.5°	95.0	95.0	95.0	95.0
10°	89.6	89.6	90.4	89.6
12.5°	85.1	84.3	84.3	84.3
15°	79.8	79.8	79.0	79.8
17.5°	74.4	74.4	73.7	73.7
20°	69.1	69.1	69.1	69.1
22.5°	64.6	63.8	63.8	63.8
25°	59.3	59.3	59.3	59.3
27.5°	54.7	54.7	54.7	54.7
30°	50.1	50.1	49.4	49.4
32.5°	45.6	45.6	45.6	45.6
35°	41.0	41.0	40.3	40.3
37.5°	35.7	35.7	35.7	35.7
40°	31.1	31.1	31.1	31.1
42.5°	27.3	27.3	26.6	26.6
45°	23.5	23.5	23.5	23.5
47.5°	22.0	22.0	22.0	22.0
50°	21.3	22.0	22.0	22.0
52.5°	22.0	22.0	22.0	22.0
55°	22.0	22.8	22.8	22.8
57.5°	22.0	22.8	22.8	23.5
60°	22.8	23.5	23.5	23.5
62.5°	22.8	23.5	23.5	23.5
65°	22.0	22.8	22.8	22.8
66°	22.0	22.0	22.0	22.8
67.5°	21.3	22.0	22.0	22.0
70°	20.5	21.3	21.3	22.0
72.5°	20.5	21.3	21.3	21.3
75°	19.8	19.8	20.5	20.5
77.5°	19.0	19.0	19.8	19.8
80°	18.2	19.0	19.0	19.0
82.5°	17.5	18.2	18.2	18.2
85°	16.0	16.7	16.7	16.7
87.5°	13.7	13.7	14.4	14.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)