

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: P181542

Luminaire Tested: **ICM-F03-LED-E1-T4-HSS-8030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P181542  
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-8030  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ HOUSE SIDE SHIELD  
Light Source: (21) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3760.5 lumens  
Efficiency: N/A  
Efficacy: 48.0 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

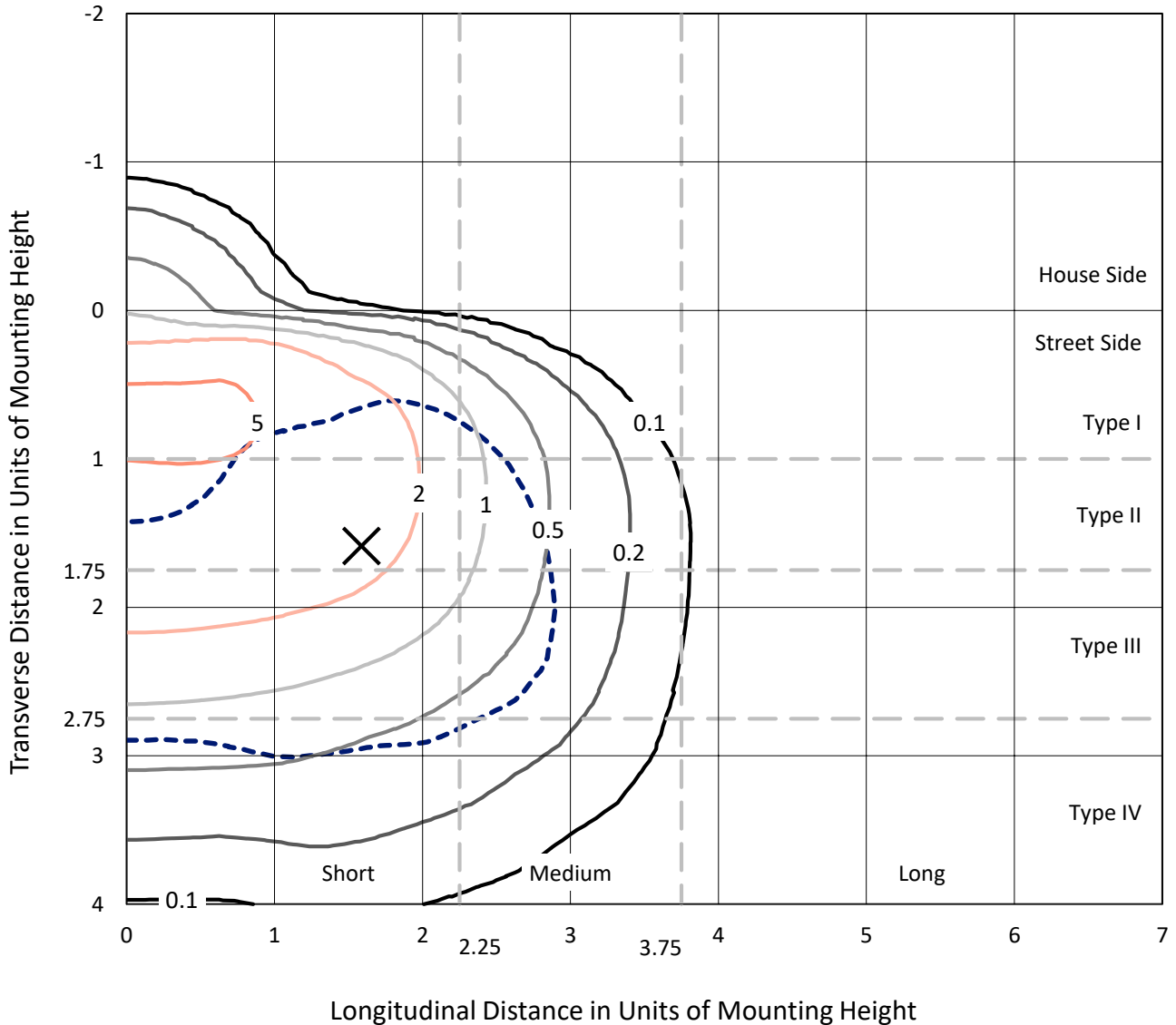
Input Watts (W): 78.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

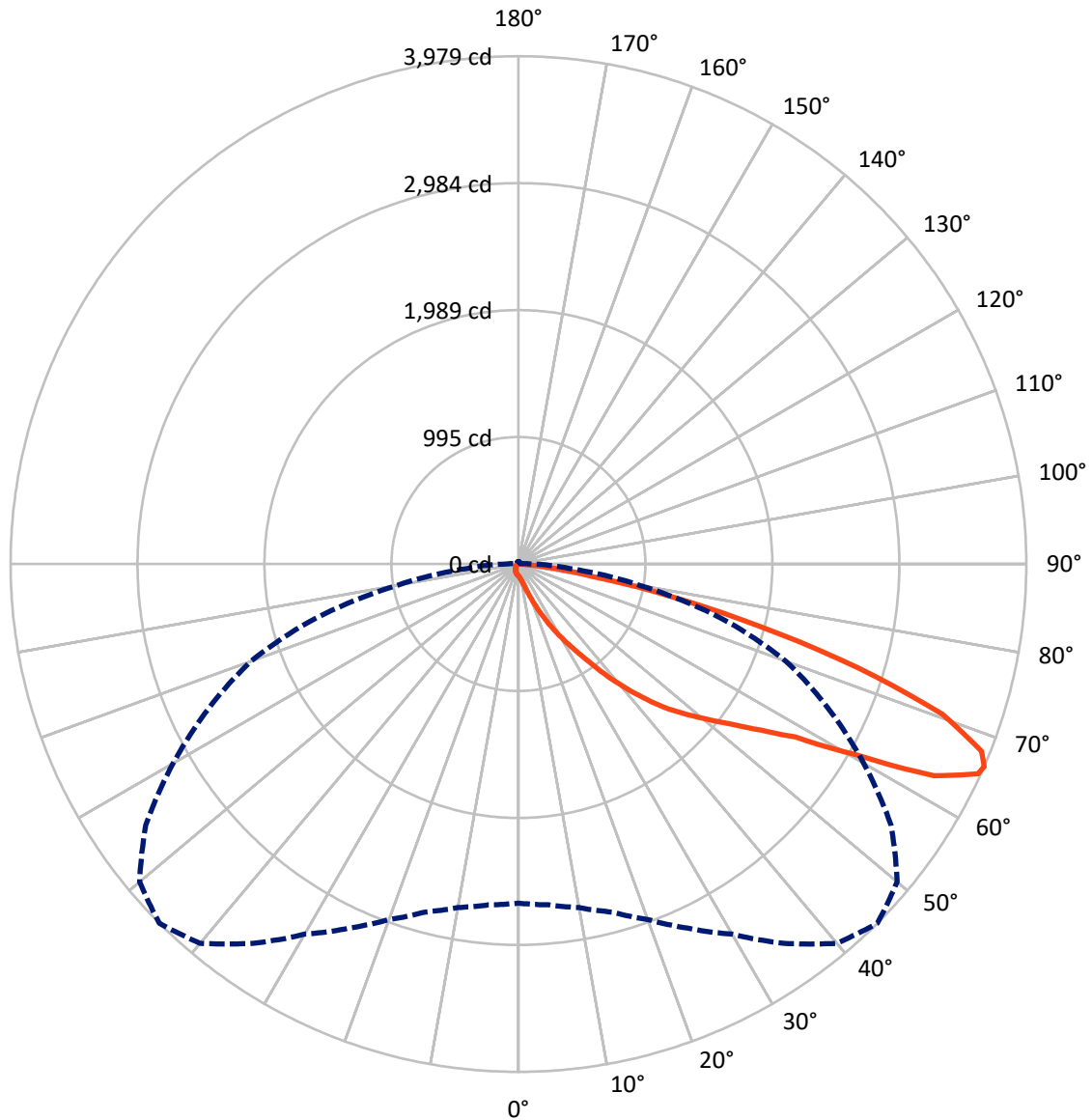
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6 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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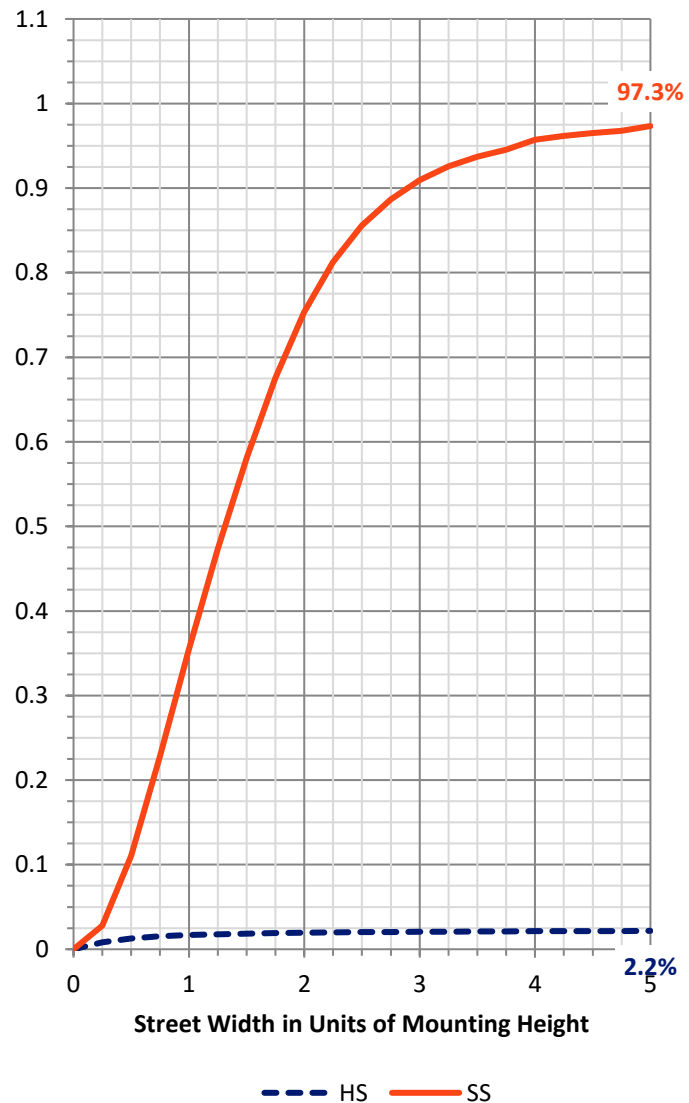
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	85.2	0.0	85.2
	% Fixture	2.3	0.0	2.3
<b>Street Side</b>	Lumens	3675.3	0.0	3675.3
	% Fixture	97.7	0.0	97.7
<b>Total</b>	Lumens	3760.5	0.0	3760.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	9.5	0.3
10°-20°	38.3	1.0
20°-30°	112.3	3.0
30°-40°	262.4	7.0
40°-50°	492.9	13.1
50°-60°	816.9	21.7
60°-70°	1296.8	34.5
70°-80°	670.7	17.8
80°-90°	60.6	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°	3760.5	100.0
0°-180°	3760.5	100.0



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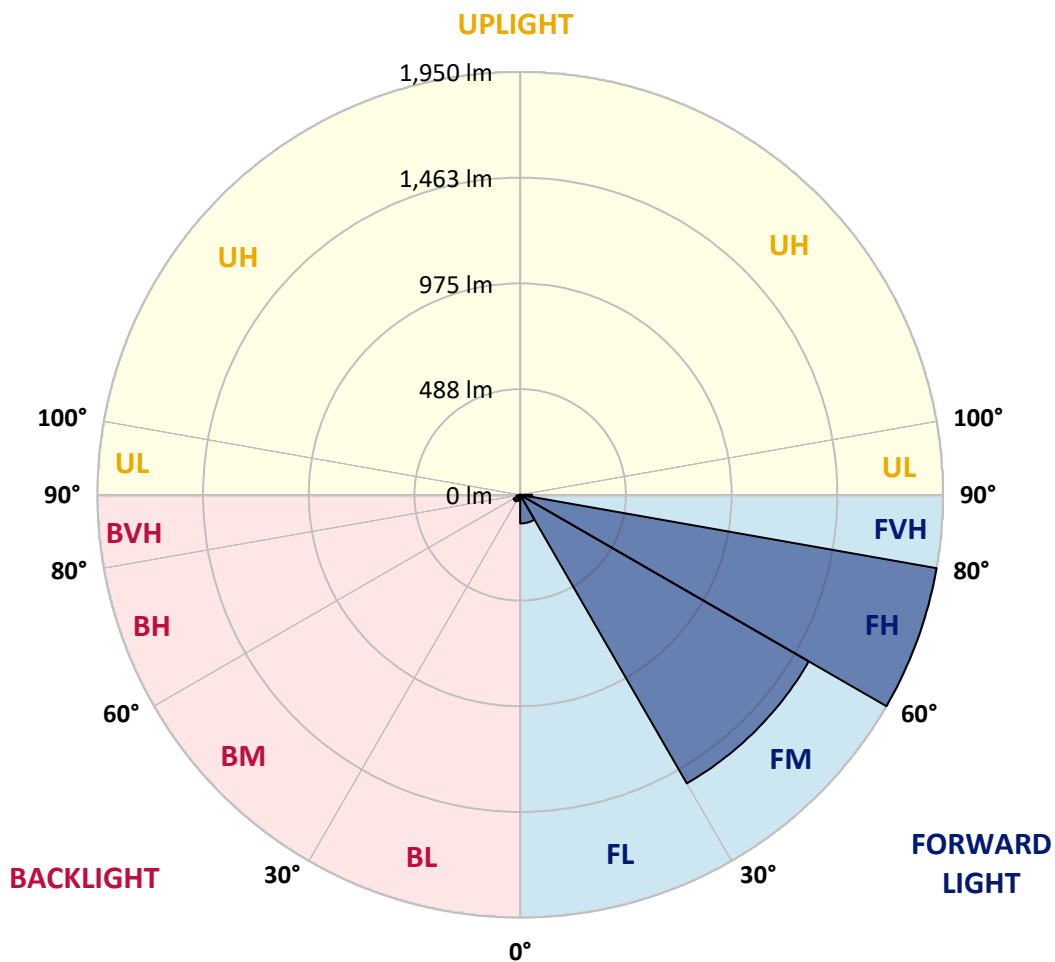
CATALOG NUMBER: ICM-F03-LED-E1-T4-HSS-8030

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	132.3	3.5			
FM	(30°-60°)	1536.9	40.9			
FH	(60°-80°)	1950.2	51.9			G2/5000
FVH	(80°-90°)	55.8	1.5			G1/100
BL	(0°-30°)	27.8	0.7	B0/110		
BM	(30°-60°)	35.3	0.9	B0/220		
BH	(60°-80°)	17.2	0.5	B0/110		G0/110
BVH	(80°-90°)	4.8	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°	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
2.5°	101.8	101.8	101.8	101.8	101.1	100.5	99.8	99.2	98.5	98.5	97.9
5°	115.3	116.0	115.3	114.7	113.4	112.7	110.8	109.5	107.6	107.0	105.0
7.5°	134.1	133.5	134.1	132.2	129.6	129.0	126.4	123.2	120.6	116.7	114.0
10°	161.4	160.7	161.4	157.5	153.6	150.3	145.9	142.0	136.1	131.5	126.4
12.5°	204.8	204.8	203.5	198.3	193.1	186.0	178.9	170.4	160.1	151.0	142.6
15°	271.5	268.3	262.5	259.3	250.1	239.2	231.4	214.5	199.6	185.4	168.6
17.5°	351.9	345.5	340.9	333.8	322.1	307.8	294.9	270.2	255.4	232.0	208.1
20°	444.0	436.2	434.9	423.9	411.5	396.0	377.2	348.0	322.8	293.6	259.9
22.5°	538.0	539.3	534.0	526.2	514.0	495.8	466.6	440.1	408.9	372.0	328.6
25°	643.0	642.3	637.8	628.7	619.6	596.9	573.6	548.3	511.4	464.1	412.2
27.5°	741.5	740.8	729.8	730.4	712.9	704.6	681.9	654.6	609.9	570.3	514.0
30°	844.5	838.1	830.9	825.7	813.4	798.5	786.8	754.4	720.7	674.1	628.0
32.5°	948.8	941.8	943.6	937.2	927.4	912.6	895.1	868.5	832.2	786.8	744.1
35°	1076.6	1073.3	1068.1	1070.1	1068.1	1057.1	1042.2	1007.2	967.6	924.2	880.2
37.5°	1171.2	1167.9	1171.2	1184.8	1188.0	1195.2	1184.1	1166.6	1138.1	1090.8	1044.8
40°	1258.7	1259.4	1274.2	1291.1	1302.7	1326.1	1330.0	1322.8	1300.2	1256.8	1196.5
42.5°	1337.1	1346.8	1360.4	1388.3	1413.6	1446.6	1471.3	1475.2	1458.3	1429.8	1368.8
45°	1424.6	1433.0	1454.4	1487.5	1522.4	1563.3	1602.8	1623.5	1622.2	1602.1	1536.8
47.5°	1522.4	1533.5	1556.8	1584.0	1630.7	1676.8	1727.9	1764.8	1780.4	1752.6	1689.0
50°	1641.0	1645.6	1665.7	1700.7	1743.5	1796.7	1852.4	1906.2	1936.6	1910.7	1845.2
52.5°	1781.7	1783.0	1801.8	1834.2	1868.6	1926.9	1981.3	2055.8	2095.4	2081.1	2002.7
55°	1974.9	1971.0	1983.9	2011.8	2039.6	2096.0	2150.5	2234.7	2292.5	2293.7	2210.2
57.5°	2238.6	2229.6	2238.0	2260.0	2291.2	2343.6	2412.3	2486.9	2564.0	2558.8	2490.2
60°	2606.2	2602.9	2618.4	2655.4	2708.6	2763.0	2840.8	2941.2	3009.2	3032.6	2960.7
62.5°	2850.4	2859.6	2895.2	2952.2	3054.6	3167.4	3311.9	3465.5	3595.2	3653.5	3554.3
65°	2745.5	2760.4	2816.1	2900.4	3035.8	3205.0	3396.9	3649.0	3872.6	3961.3	3858.3
66°	2656.7	2680.7	2733.1	2822.6	2963.9	3148.6	3348.9	3627.6	3879.1	3978.9	3873.9
67.5°	2503.1	2519.9	2579.6	2678.7	2830.3	3013.1	3229.6	3523.9	3807.7	3913.4	3809.0
70°	2190.1	2196.5	2245.1	2329.4	2446.7	2634.0	2830.3	3113.6	3374.8	3523.3	3409.1
72.5°	1630.1	1639.1	1719.5	1873.1	2025.4	2131.7	2247.7	2474.5	2643.1	2781.8	2759.7
75°	784.3	788.1	842.0	1066.1	1363.0	1490.1	1597.7	1773.3	1837.4	1953.5	1935.9
77.5°	497.1	505.6	540.6	595.0	763.5	914.5	999.4	1099.9	1118.7	1216.6	1159.5
80°	136.7	158.8	193.8	285.2	489.3	583.4	621.6	617.7	621.6	591.7	572.3
82.5°	27.9	27.3	33.0	51.2	215.8	339.6	366.9	312.4	310.4	298.8	308.5
85°	7.2	6.5	7.8	16.2	36.9	100.5	126.4	70.6	53.8	51.2	45.4
87.5°	2.0	2.0	2.0	3.3	3.9	5.2	7.2	5.2	3.9	3.9	3.9
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
2.5°	97.2	97.2	96.6	95.9	95.9	95.3	94.6	94.0	93.3	92.7	92.0
5°	103.1	101.8	99.8	98.5	97.2	95.3	94.0	92.7	91.3	90.7	89.4
7.5°	110.8	107.6	105.0	101.1	98.5	95.9	93.3	91.3	89.4	88.2	86.9
10°	120.6	115.3	110.1	105.0	100.5	96.6	92.7	89.4	87.5	85.6	84.3
12.5°	132.8	125.1	118.0	110.1	103.1	97.2	92.0	88.2	85.6	83.6	81.7
15°	152.9	140.7	128.4	116.7	107.6	98.5	91.3	86.9	83.6	81.7	79.7
17.5°	184.7	162.7	143.3	127.1	112.1	100.5	91.3	85.6	81.7	79.1	77.1
20°	230.7	194.4	163.3	140.0	120.6	103.7	91.3	83.6	79.7	76.5	74.5
22.5°	285.2	239.8	197.0	158.1	130.2	108.3	91.3	81.7	77.1	74.5	71.9
25°	364.9	304.7	246.3	191.8	146.5	115.3	93.3	80.4	75.2	71.9	69.4
27.5°	458.2	385.7	313.0	236.6	171.1	125.8	95.9	79.1	73.2	69.4	66.8
30°	564.6	484.2	395.4	296.2	203.5	139.3	100.5	78.4	70.6	66.8	63.5
32.5°	679.9	595.0	497.8	372.7	251.4	160.1	106.3	77.8	68.1	63.5	59.6
35°	817.3	738.2	619.6	480.3	326.0	195.7	119.3	79.1	65.5	60.3	55.7
37.5°	967.6	883.4	757.7	594.3	399.9	235.9	129.0	77.1	60.9	55.7	51.2
40°	1119.4	1022.7	895.1	714.2	493.9	285.2	141.3	75.2	56.4	51.2	46.7
42.5°	1267.1	1165.3	1026.6	837.4	593.0	343.5	156.8	75.2	53.1	46.7	42.1
45°	1422.0	1299.5	1147.8	955.4	691.5	410.2	178.9	74.5	49.3	42.8	37.6
47.5°	1568.5	1423.3	1248.9	1059.1	797.2	483.5	204.2	75.2	46.0	38.9	34.3
50°	1707.2	1540.6	1352.7	1151.7	898.3	562.6	235.3	75.8	42.8	35.6	31.1
52.5°	1858.8	1674.1	1464.1	1247.0	998.1	642.3	271.5	77.1	39.5	32.4	28.6
55°	2046.8	1842.0	1601.5	1363.6	1103.7	722.7	306.6	78.4	36.3	29.8	26.0
57.5°	2317.7	2084.4	1824.5	1538.7	1243.7	814.1	342.9	81.7	33.7	27.9	24.0
60°	2758.4	2480.4	2180.3	1843.3	1453.1	937.9	395.4	88.8	30.4	25.3	22.7
62.5°	3288.6	2954.2	2572.4	2163.5	1650.1	1021.5	430.3	96.6	27.9	23.3	21.4
65°	3555.6	3134.3	2694.2	2252.9	1675.5	996.8	416.1	94.0	24.7	20.7	18.1
66°	3563.5	3124.7	2677.4	2233.5	1649.5	967.0	402.5	92.7	24.0	20.1	16.8
67.5°	3489.5	3041.0	2588.0	2145.3	1573.0	909.3	377.9	88.2	22.0	18.1	14.9
70°	3124.7	2687.8	2272.4	1863.4	1353.3	766.1	316.9	77.8	19.4	16.2	13.6
72.5°	2490.8	2134.9	1784.9	1466.1	1051.9	574.9	250.1	63.5	16.8	14.2	11.6
75°	1739.5	1447.3	1180.9	953.4	661.1	344.2	162.0	44.7	14.2	11.6	9.8
77.5°	970.9	770.0	582.1	443.4	263.8	107.6	53.8	22.7	12.3	9.1	7.8
80°	493.9	366.2	278.7	205.5	121.9	55.7	27.3	14.9	9.8	7.2	6.5
82.5°	287.2	210.6	167.9	132.8	83.6	42.1	22.0	11.0	6.5	5.2	5.9
85°	64.2	84.9	71.9	60.9	44.7	26.6	15.5	7.2	4.6	4.6	5.2
87.5°	5.2	7.2	6.5	8.5	9.1	8.5	6.5	3.9	3.3	3.9	3.9
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
2.5°	91.3	90.7	90.7	90.0	89.4	89.4	89.4	88.8	89.4	89.4	89.4
5°	88.8	88.2	87.5	86.9	86.2	85.6	85.6	84.9	84.9	84.9	85.6
7.5°	86.2	84.9	84.3	83.0	82.3	81.7	81.7	81.0	81.0	81.0	81.0
10°	83.0	81.7	80.4	79.7	79.1	77.8	77.8	77.1	76.5	76.5	76.5
12.5°	80.4	79.1	77.8	76.5	75.2	74.5	73.9	73.2	72.6	72.6	72.6
15°	77.8	75.8	74.5	73.2	71.9	70.6	70.0	69.4	68.7	68.1	68.1
17.5°	75.2	73.2	71.3	70.0	68.7	67.4	66.8	64.8	64.8	64.2	64.2
20°	71.9	70.0	68.1	66.8	65.5	64.2	62.9	61.6	60.3	59.6	59.6
22.5°	69.4	67.4	65.5	63.5	61.6	59.6	58.3	57.0	56.4	55.7	55.1
25°	66.8	64.2	61.6	59.6	57.7	55.7	54.4	53.1	51.8	51.2	51.2
27.5°	63.5	60.9	58.3	55.7	53.8	51.8	50.5	48.7	48.0	47.3	46.7
30°	60.3	57.0	54.4	51.8	49.9	47.3	46.0	44.7	43.4	43.4	42.8
32.5°	56.4	53.1	50.5	48.0	45.4	43.4	42.1	40.8	40.2	38.9	38.9
35°	52.5	49.3	46.0	43.4	41.5	39.5	38.2	36.9	35.6	35.0	35.0
37.5°	48.0	44.7	42.1	39.5	37.6	35.6	34.3	33.0	32.4	31.7	31.1
40°	42.8	39.5	37.6	35.6	33.7	32.4	30.4	29.2	28.6	27.9	27.3
42.5°	38.2	35.0	33.7	32.4	30.4	29.2	27.3	26.0	24.7	24.0	23.3
45°	34.3	31.7	30.4	29.2	27.3	25.3	24.0	22.7	21.4	20.7	20.7
47.5°	30.4	28.6	27.3	26.0	24.0	22.7	20.7	20.1	18.8	18.8	18.8
50°	27.9	26.0	24.7	23.3	22.0	20.1	18.8	18.1	17.5	17.5	18.1
52.5°	26.0	24.0	22.7	21.4	20.1	18.8	17.5	16.8	16.8	17.5	18.1
55°	24.0	22.0	20.7	19.4	18.1	17.5	16.2	16.2	16.8	17.5	18.1
57.5°	22.7	20.1	18.8	18.1	16.8	16.2	16.2	16.2	16.8	17.5	18.8
60°	20.7	18.1	16.8	16.8	15.5	15.5	15.5	16.2	16.8	18.1	18.8
62.5°	18.1	16.2	15.5	15.5	14.9	14.9	15.5	16.2	17.5	18.1	18.8
65°	15.5	14.2	14.2	14.2	14.2	14.9	15.5	16.2	16.8	18.1	18.8
66°	14.2	13.6	13.6	14.2	14.2	14.9	15.5	16.2	16.8	17.5	18.1
67.5°	13.6	12.9	12.9	13.6	14.2	14.2	14.9	16.2	16.8	17.5	17.5
70°	11.6	11.6	11.6	12.9	13.6	14.2	14.9	15.5	16.2	16.8	17.5
72.5°	10.3	10.3	11.0	11.6	12.9	13.6	14.2	14.9	16.2	16.8	16.8
75°	9.1	9.1	10.3	11.0	12.3	12.9	14.2	14.9	15.5	16.2	16.2
77.5°	7.8	8.5	9.8	11.0	11.6	12.9	13.6	14.2	14.9	15.5	15.5
80°	7.2	8.5	9.8	10.3	11.0	11.6	12.3	13.6	14.2	14.9	15.5
82.5°	7.2	7.8	9.1	9.8	10.3	11.6	12.3	12.9	13.6	14.2	14.9
85°	5.9	7.2	7.8	9.1	9.8	11.0	11.6	11.6	12.3	12.9	13.6
87.5°	4.6	5.2	5.2	6.5	7.2	8.5	9.8	9.8	10.3	11.0	11.6
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):**

	165°	170°	175°	180°
0°	94.0	94.0	94.0	94.0
2.5°	89.4	90.0	90.0	90.0
5°	85.6	85.6	85.6	85.6
7.5°	81.0	81.0	81.0	81.0
10°	76.5	76.5	77.1	76.5
12.5°	72.6	71.9	71.9	71.9
15°	68.1	68.1	67.4	68.1
17.5°	63.5	63.5	62.9	62.9
20°	59.0	59.0	59.0	59.0
22.5°	55.1	54.4	54.4	54.4
25°	50.5	50.5	50.5	50.5
27.5°	46.7	46.7	46.7	46.7
30°	42.8	42.8	42.1	42.1
32.5°	38.9	38.9	38.9	38.9
35°	35.0	35.0	34.3	34.3
37.5°	30.4	30.4	30.4	30.4
40°	26.6	26.6	26.6	26.6
42.5°	23.3	23.3	22.7	22.7
45°	20.1	20.1	20.1	20.1
47.5°	18.8	18.8	18.8	18.8
50°	18.1	18.8	18.8	18.8
52.5°	18.8	18.8	18.8	18.8
55°	18.8	19.4	19.4	19.4
57.5°	18.8	19.4	19.4	20.1
60°	19.4	20.1	20.1	20.1
62.5°	19.4	20.1	20.1	20.1
65°	18.8	19.4	19.4	19.4
66°	18.8	18.8	18.8	19.4
67.5°	18.1	18.8	18.8	18.8
70°	17.5	18.1	18.1	18.8
72.5°	17.5	18.1	18.1	18.1
75°	16.8	16.8	17.5	17.5
77.5°	16.2	16.2	16.8	16.8
80°	15.5	16.2	16.2	16.2
82.5°	14.9	15.5	15.5	15.5
85°	13.6	14.2	14.2	14.2
87.5°	11.6	11.6	12.3	12.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)