

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: P181539

Luminaire Tested: **ICM-E03-LED-E1-T4-HSS**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P181539  
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-E03-LED-E1-T4-HSS  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ HOUSE SIDE SHIELD  
Light Source: (63) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5397.3 lumens  
Efficiency: N/A  
Efficacy: 71.8 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

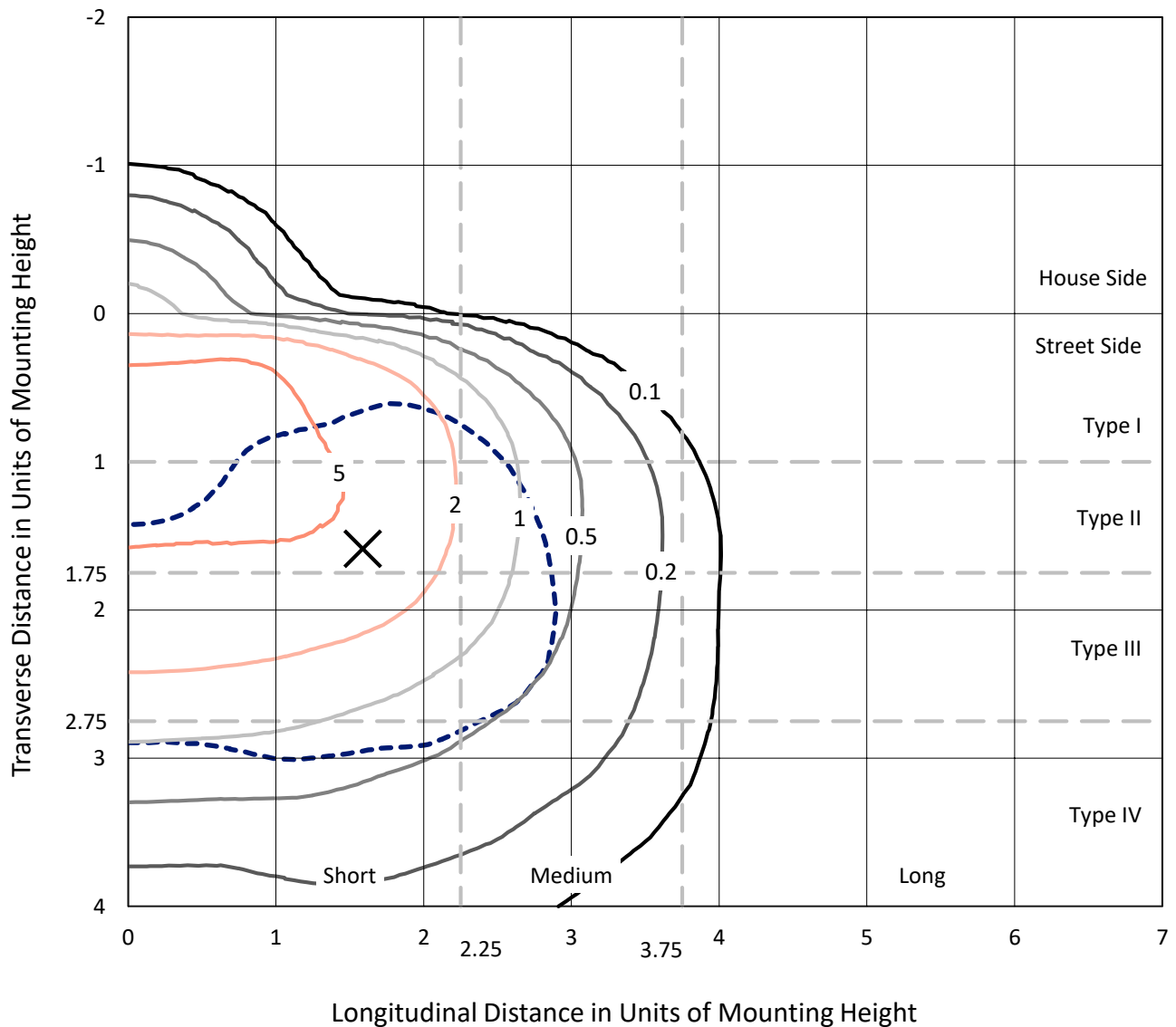
Input Watts (W): 75.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

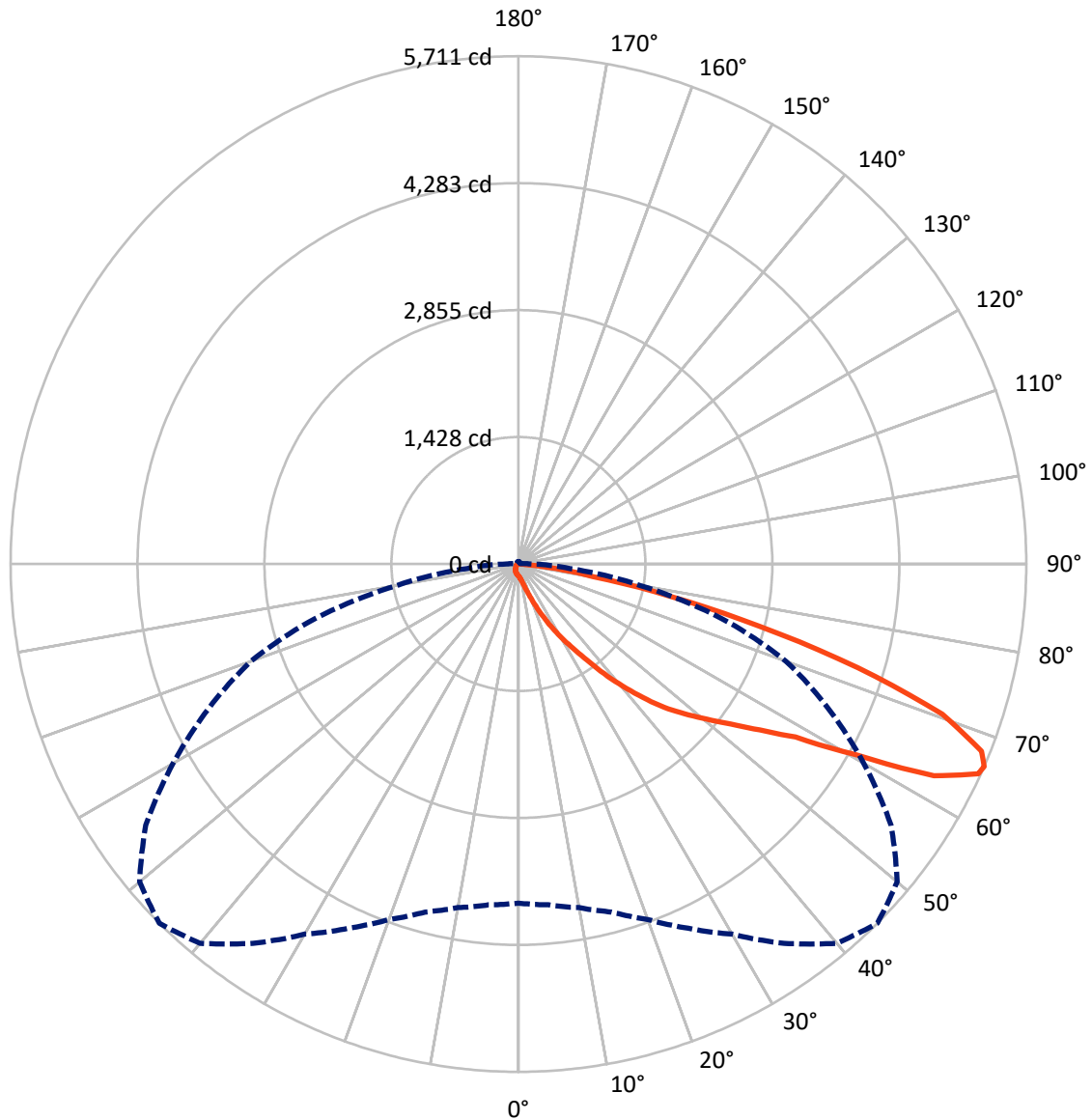


Based on 10 foot mounting height. Maximum calculated value = 8.6 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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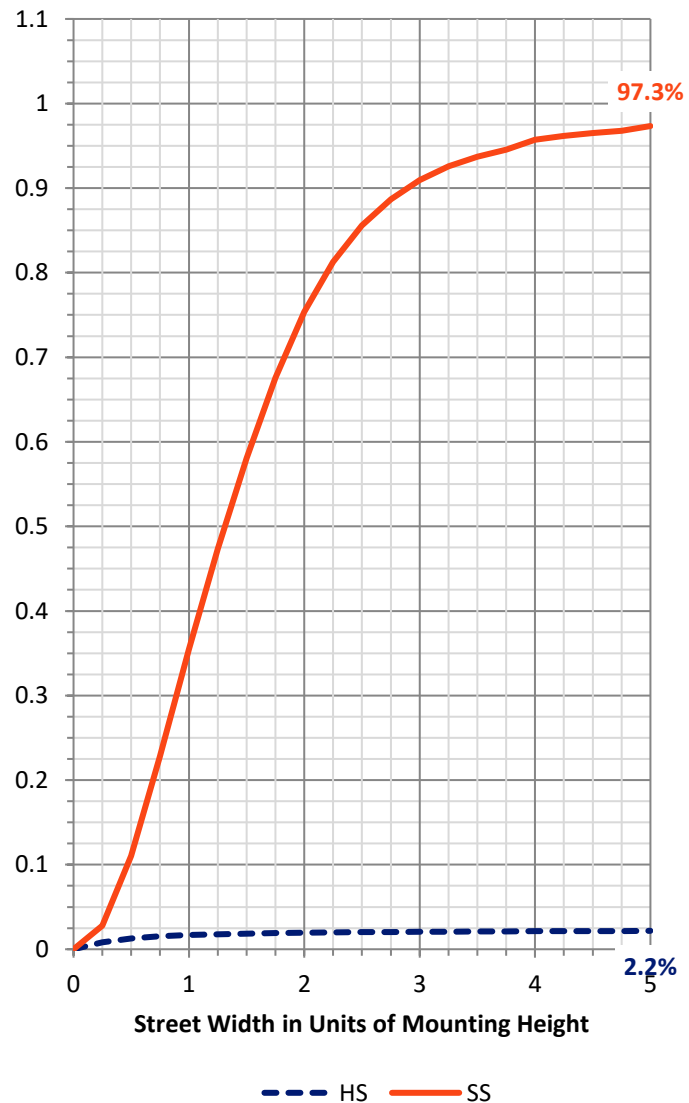
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	122.3	0.0	122.3
	% Fixture	2.3	0.0	2.3
<b>Street Side</b>	Lumens	5275.0	0.0	5275.0
	% Fixture	97.7	0.0	97.7
<b>Total</b>	Lumens	5397.3	0.0	5397.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	13.6	0.3
10°-20°	55.0	1.0
20°-30°	161.3	3.0
30°-40°	376.7	7.0
40°-50°	707.5	13.1
50°-60°	1172.5	21.7
60°-70°	1861.3	34.5
70°-80°	962.6	17.8
80°-90°	86.9	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°	5397.3	100.0
0°-180°	5397.3	100.0

**Coefficient of Utilization**



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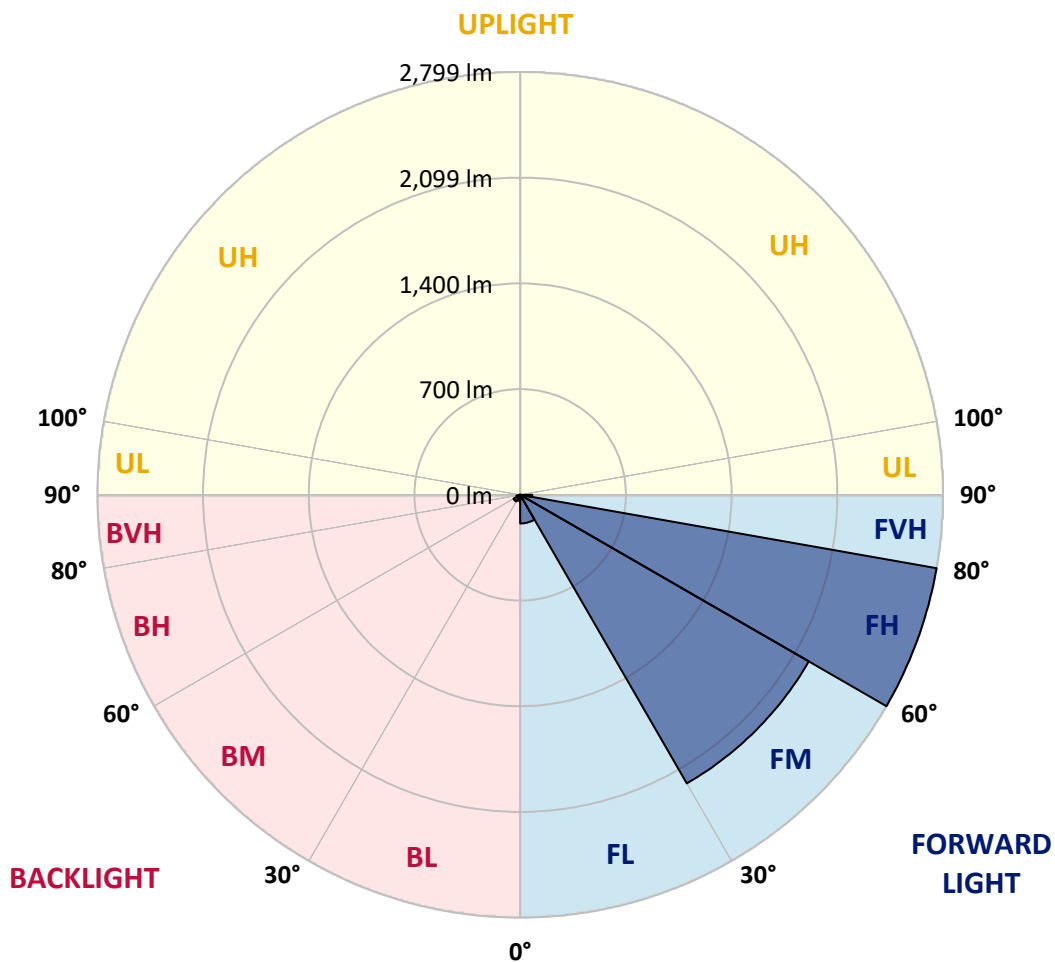
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	189.9	3.5			
FM (30°-60°)	2205.9	40.9			
FH (60°-80°)	2799.1	51.9			G2/5000
FVH (80°-90°)	80.1	1.5			G1/100
BL (0°-30°)	39.9	0.7	B0/110		
BM (30°-60°)	50.7	0.9	B0/220		
BH (60°-80°)	24.8	0.5	B0/110		G0/110
BVH (80°-90°)	6.9	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°	134.9	134.9	134.9	134.9	134.9	134.9	134.9	134.9	134.9	134.9	134.9
2.5°	146.0	146.0	146.0	146.0	145.1	144.2	143.3	142.3	141.4	141.4	140.5
5°	165.6	166.5	165.6	164.7	162.8	161.9	159.1	157.2	154.4	153.5	150.7
7.5°	192.6	191.6	192.6	189.8	186.0	185.1	181.4	176.7	173.0	167.4	163.7
10°	231.6	230.7	231.6	226.0	220.5	215.8	209.3	203.7	195.4	188.8	181.4
12.5°	294.0	294.0	292.1	284.7	277.2	267.0	256.7	244.7	229.8	216.7	204.7
15°	389.8	385.1	376.7	372.1	359.1	343.3	332.1	307.9	286.5	266.0	241.9
17.5°	505.1	495.8	489.3	479.1	462.3	441.9	423.3	387.9	366.5	333.0	298.6
20°	637.2	626.1	624.2	608.4	590.7	568.4	541.4	499.5	463.3	421.4	373.0
22.5°	772.1	774.0	766.5	755.4	737.7	711.6	669.8	631.6	587.0	534.0	471.6
25°	922.8	921.9	915.4	902.3	889.3	856.7	823.3	787.0	734.0	666.1	591.6
27.5°	1064.2	1063.3	1047.4	1048.4	1023.3	1011.2	978.6	939.5	875.4	818.6	737.7
30°	1212.1	1202.8	1192.6	1185.1	1167.4	1146.1	1129.3	1082.8	1034.4	967.4	901.4
32.5°	1361.9	1351.6	1354.4	1345.1	1331.2	1309.8	1284.7	1246.5	1194.4	1129.3	1067.9
35°	1545.1	1540.5	1533.0	1535.8	1533.0	1517.2	1495.8	1445.6	1388.8	1326.5	1263.3
37.5°	1680.9	1676.3	1680.9	1700.5	1705.1	1715.4	1699.5	1674.4	1633.5	1565.6	1499.5
40°	1806.5	1807.5	1828.8	1853.0	1869.8	1903.3	1908.8	1898.6	1866.1	1803.7	1717.2
42.5°	1919.1	1933.0	1952.6	1992.6	2028.8	2076.3	2111.6	2117.2	2093.0	2052.1	1964.7
45°	2044.7	2056.8	2087.5	2134.9	2185.1	2243.7	2300.5	2330.2	2328.4	2299.5	2205.6
47.5°	2185.1	2200.9	2234.4	2273.5	2340.5	2406.5	2480.0	2533.0	2555.4	2515.4	2424.2
50°	2355.4	2361.9	2390.7	2440.9	2502.3	2578.6	2658.6	2735.8	2779.6	2742.3	2648.4
52.5°	2557.2	2559.1	2586.1	2632.6	2681.9	2765.6	2843.7	2950.7	3007.5	2987.0	2874.4
55°	2834.4	2828.9	2847.5	2887.5	2927.5	3008.4	3086.5	3207.5	3290.3	3292.1	3172.1
57.5°	3213.0	3200.0	3212.1	3243.7	3288.4	3363.7	3462.3	3569.3	3680.0	3672.6	3574.0
60°	3740.5	3735.8	3758.2	3811.2	3887.5	3965.6	4077.2	4221.4	4319.1	4352.6	4249.3
62.5°	4091.2	4104.2	4155.4	4237.2	4384.2	4546.1	4753.5	4974.0	5160.0	5243.8	5101.4
65°	3940.5	3961.9	4041.9	4162.8	4357.2	4600.0	4875.4	5237.2	5558.2	5685.6	5537.7
66°	3813.0	3847.5	3922.8	4051.2	4254.0	4519.1	4806.5	5206.5	5567.5	5710.7	5560.0
67.5°	3592.6	3616.8	3702.3	3844.7	4062.4	4324.7	4635.4	5057.7	5465.1	5616.8	5467.0
70°	3143.3	3152.6	3222.3	3343.3	3511.6	3780.5	4062.4	4468.9	4843.8	5056.8	4893.1
72.5°	2339.5	2352.6	2467.9	2688.4	2907.0	3059.6	3226.1	3551.6	3793.5	3992.6	3961.0
75°	1125.6	1131.2	1208.4	1530.2	1956.3	2138.6	2293.0	2545.1	2637.2	2803.7	2778.6
77.5°	713.5	725.6	775.8	854.0	1095.8	1312.6	1434.4	1578.6	1605.6	1746.1	1664.2
80°	196.3	227.9	278.1	409.3	702.3	837.2	892.1	886.5	892.1	849.3	821.4
82.5°	40.0	39.1	47.4	73.5	309.8	487.4	526.5	448.4	445.6	428.8	442.8
85°	10.2	9.3	11.2	23.3	53.0	144.2	181.4	101.4	77.2	73.5	65.1
87.5°	2.8	2.8	2.8	4.7	5.6	7.4	10.2	7.4	5.6	5.6	5.6
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°	134.9	134.9	134.9	134.9	134.9	134.9	134.9	134.9	134.9	134.9	134.9
2.5°	139.5	139.5	138.6	137.7	137.7	136.7	135.8	134.9	134.0	133.0	132.1
5°	147.9	146.0	143.3	141.4	139.5	136.7	134.9	133.0	131.2	130.2	128.4
7.5°	159.1	154.4	150.7	145.1	141.4	137.7	134.0	131.2	128.4	126.5	124.7
10°	173.0	165.6	158.1	150.7	144.2	138.6	133.0	128.4	125.6	122.8	120.9
12.5°	190.7	179.5	169.3	158.1	147.9	139.5	132.1	126.5	122.8	120.0	117.2
15°	219.5	201.9	184.2	167.4	154.4	141.4	131.2	124.7	120.0	117.2	114.4
17.5°	265.1	233.5	205.6	182.3	160.9	144.2	131.2	122.8	117.2	113.5	110.7
20°	331.2	279.1	234.4	200.9	173.0	148.8	131.2	120.0	114.4	109.8	107.0
22.5°	409.3	344.2	282.8	227.0	187.0	155.3	131.2	117.2	110.7	107.0	103.3
25°	523.7	437.2	353.5	275.4	210.2	165.6	134.0	115.3	107.9	103.3	99.5
27.5°	657.7	553.5	449.3	339.5	245.6	180.5	137.7	113.5	105.1	99.5	95.8
30°	810.2	694.9	567.4	425.1	292.1	200.0	144.2	112.6	101.4	95.8	91.2
32.5°	975.8	854.0	714.4	534.9	360.9	229.8	152.6	111.6	97.7	91.2	85.6
35°	1173.0	1059.5	889.3	689.3	467.9	280.9	171.2	113.5	94.0	86.5	80.0
37.5°	1388.8	1267.9	1087.4	853.0	574.0	338.6	185.1	110.7	87.4	80.0	73.5
40°	1606.5	1467.9	1284.7	1025.1	708.8	409.3	202.8	107.9	80.9	73.5	67.0
42.5°	1818.6	1672.6	1473.5	1201.9	851.2	493.0	225.1	107.9	76.3	67.0	60.5
45°	2040.9	1865.1	1647.5	1371.2	992.6	588.8	256.7	107.0	70.7	61.4	54.0
47.5°	2251.2	2042.8	1792.6	1520.0	1144.2	694.0	293.0	107.9	66.0	55.8	49.3
50°	2450.2	2211.2	1941.4	1653.0	1289.3	807.4	337.7	108.8	61.4	51.2	44.7
52.5°	2667.9	2402.8	2101.4	1789.8	1432.6	921.9	389.8	110.7	56.7	46.5	40.9
55°	2937.7	2643.7	2298.6	1957.2	1584.2	1037.2	440.0	112.6	52.1	42.8	37.2
57.5°	3326.5	2991.6	2618.6	2208.4	1785.1	1168.4	492.1	117.2	48.4	40.0	34.4
60°	3959.1	3560.0	3129.3	2645.6	2085.6	1346.1	567.4	127.4	43.7	36.3	32.6
62.5°	4720.0	4240.0	3692.1	3105.1	2368.4	1466.1	617.7	138.6	40.0	33.5	30.7
65°	5103.3	4498.6	3867.0	3233.5	2404.7	1430.7	597.2	134.9	35.3	29.8	26.0
66°	5114.4	4484.7	3842.8	3205.6	2367.5	1387.9	577.7	133.0	34.4	28.8	24.2
67.5°	5008.4	4364.7	3714.4	3079.1	2257.7	1305.1	542.3	126.5	31.6	26.0	21.4
70°	4484.7	3857.7	3261.4	2674.4	1942.3	1099.5	454.9	111.6	27.9	23.3	19.5
72.5°	3574.9	3064.2	2561.9	2104.2	1509.8	825.1	359.1	91.2	24.2	20.5	16.7
75°	2496.8	2077.2	1694.9	1368.4	948.8	494.0	232.6	64.2	20.5	16.7	14.0
77.5°	1393.5	1105.1	835.4	636.3	378.6	154.4	77.2	32.6	17.7	13.0	11.2
80°	708.8	525.6	400.0	294.9	174.9	80.0	39.1	21.4	14.0	10.2	9.3
82.5°	412.1	302.3	240.9	190.7	120.0	60.5	31.6	15.8	9.3	7.4	8.4
85°	92.1	121.9	103.3	87.4	64.2	38.1	22.3	10.2	6.5	6.5	7.4
87.5°	7.4	10.2	9.3	12.1	13.0	12.1	9.3	5.6	4.7	5.6	5.6
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°	134.9	134.9	134.9	134.9	134.9	134.9	134.9	134.9	134.9	134.9	134.9
2.5°	131.2	130.2	130.2	129.3	128.4	128.4	128.4	127.4	128.4	128.4	128.4
5°	127.4	126.5	125.6	124.7	123.7	122.8	122.8	121.9	121.9	121.9	122.8
7.5°	123.7	121.9	120.9	119.1	118.1	117.2	117.2	116.3	116.3	116.3	116.3
10°	119.1	117.2	115.3	114.4	113.5	111.6	111.6	110.7	109.8	109.8	109.8
12.5°	115.3	113.5	111.6	109.8	107.9	107.0	106.0	105.1	104.2	104.2	104.2
15°	111.6	108.8	107.0	105.1	103.3	101.4	100.5	99.5	98.6	97.7	97.7
17.5°	107.9	105.1	102.3	100.5	98.6	96.7	95.8	93.0	93.0	92.1	92.1
20°	103.3	100.5	97.7	95.8	94.0	92.1	90.2	88.4	86.5	85.6	85.6
22.5°	99.5	96.7	94.0	91.2	88.4	85.6	83.7	81.9	80.9	80.0	79.1
25°	95.8	92.1	88.4	85.6	82.8	80.0	78.1	76.3	74.4	73.5	73.5
27.5°	91.2	87.4	83.7	80.0	77.2	74.4	72.6	69.8	68.8	67.9	67.0
30°	86.5	81.9	78.1	74.4	71.6	67.9	66.0	64.2	62.3	62.3	61.4
32.5°	80.9	76.3	72.6	68.8	65.1	62.3	60.5	58.6	57.7	55.8	55.8
35°	75.3	70.7	66.0	62.3	59.5	56.7	54.9	53.0	51.2	50.2	50.2
37.5°	68.8	64.2	60.5	56.7	54.0	51.2	49.3	47.4	46.5	45.6	44.7
40°	61.4	56.7	54.0	51.2	48.4	46.5	43.7	41.9	40.9	40.0	39.1
42.5°	54.9	50.2	48.4	46.5	43.7	41.9	39.1	37.2	35.3	34.4	33.5
45°	49.3	45.6	43.7	41.9	39.1	36.3	34.4	32.6	30.7	29.8	29.8
47.5°	43.7	40.9	39.1	37.2	34.4	32.6	29.8	28.8	27.0	27.0	27.0
50°	40.0	37.2	35.3	33.5	31.6	28.8	27.0	26.0	25.1	25.1	26.0
52.5°	37.2	34.4	32.6	30.7	28.8	27.0	25.1	24.2	24.2	25.1	26.0
55°	34.4	31.6	29.8	27.9	26.0	25.1	23.3	23.3	24.2	25.1	26.0
57.5°	32.6	28.8	27.0	26.0	24.2	23.3	23.3	23.3	24.2	25.1	27.0
60°	29.8	26.0	24.2	24.2	22.3	22.3	22.3	23.3	24.2	26.0	27.0
62.5°	26.0	23.3	22.3	22.3	21.4	21.4	22.3	23.3	25.1	26.0	27.0
65°	22.3	20.5	20.5	20.5	20.5	21.4	22.3	23.3	24.2	26.0	27.0
66°	20.5	19.5	19.5	20.5	20.5	21.4	22.3	23.3	24.2	25.1	26.0
67.5°	19.5	18.6	18.6	19.5	20.5	20.5	21.4	23.3	24.2	25.1	25.1
70°	16.7	16.7	16.7	18.6	19.5	20.5	21.4	22.3	23.3	24.2	25.1
72.5°	14.9	14.9	15.8	16.7	18.6	19.5	20.5	21.4	23.3	24.2	24.2
75°	13.0	13.0	14.9	15.8	17.7	18.6	20.5	21.4	22.3	23.3	23.3
77.5°	11.2	12.1	14.0	15.8	16.7	18.6	19.5	20.5	21.4	22.3	22.3
80°	10.2	12.1	14.0	14.9	15.8	16.7	17.7	19.5	20.5	21.4	22.3
82.5°	10.2	11.2	13.0	14.0	14.9	16.7	17.7	18.6	19.5	20.5	21.4
85°	8.4	10.2	11.2	13.0	14.0	15.8	16.7	16.7	17.7	18.6	19.5
87.5°	6.5	7.4	7.4	9.3	10.2	12.1	14.0	14.0	14.9	15.8	16.7
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°	134.9	134.9	134.9	134.9
2.5°	128.4	129.3	129.3	129.3
5°	122.8	122.8	122.8	122.8
7.5°	116.3	116.3	116.3	116.3
10°	109.8	109.8	110.7	109.8
12.5°	104.2	103.3	103.3	103.3
15°	97.7	97.7	96.7	97.7
17.5°	91.2	91.2	90.2	90.2
20°	84.7	84.7	84.7	84.7
22.5°	79.1	78.1	78.1	78.1
25°	72.6	72.6	72.6	72.6
27.5°	67.0	67.0	67.0	67.0
30°	61.4	61.4	60.5	60.5
32.5°	55.8	55.8	55.8	55.8
35°	50.2	50.2	49.3	49.3
37.5°	43.7	43.7	43.7	43.7
40°	38.1	38.1	38.1	38.1
42.5°	33.5	33.5	32.6	32.6
45°	28.8	28.8	28.8	28.8
47.5°	27.0	27.0	27.0	27.0
50°	26.0	27.0	27.0	27.0
52.5°	27.0	27.0	27.0	27.0
55°	27.0	27.9	27.9	27.9
57.5°	27.0	27.9	27.9	28.8
60°	27.9	28.8	28.8	28.8
62.5°	27.9	28.8	28.8	28.8
65°	27.0	27.9	27.9	27.9
66°	27.0	27.0	27.0	27.9
67.5°	26.0	27.0	27.0	27.0
70°	25.1	26.0	26.0	27.0
72.5°	25.1	26.0	26.0	26.0
75°	24.2	24.2	25.1	25.1
77.5°	23.3	23.3	24.2	24.2
80°	22.3	23.3	23.3	23.3
82.5°	21.4	22.3	22.3	22.3
85°	19.5	20.5	20.5	20.5
87.5°	16.7	16.7	17.7	17.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)