

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: P180588

Luminaire Tested: **ICM-E04-LED-E1-SL3-HSS**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180588  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33727)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ICM-E04-LED-E1-SL3-HSS  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 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: 6451.5 lumens  
Efficiency: N/A  
Efficacy: 66.4 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')  
IES Classification: Type III - Short - Non-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

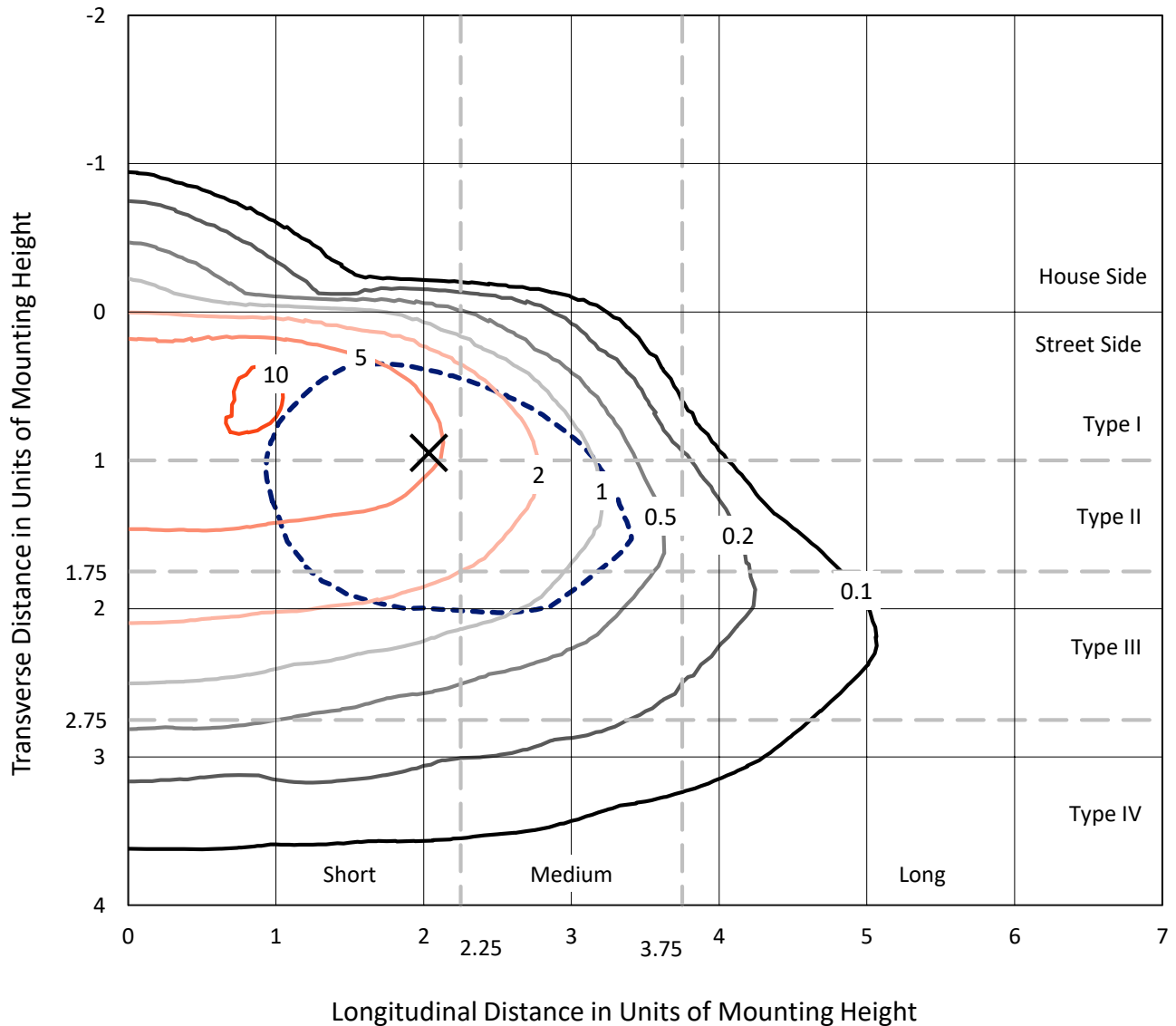


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

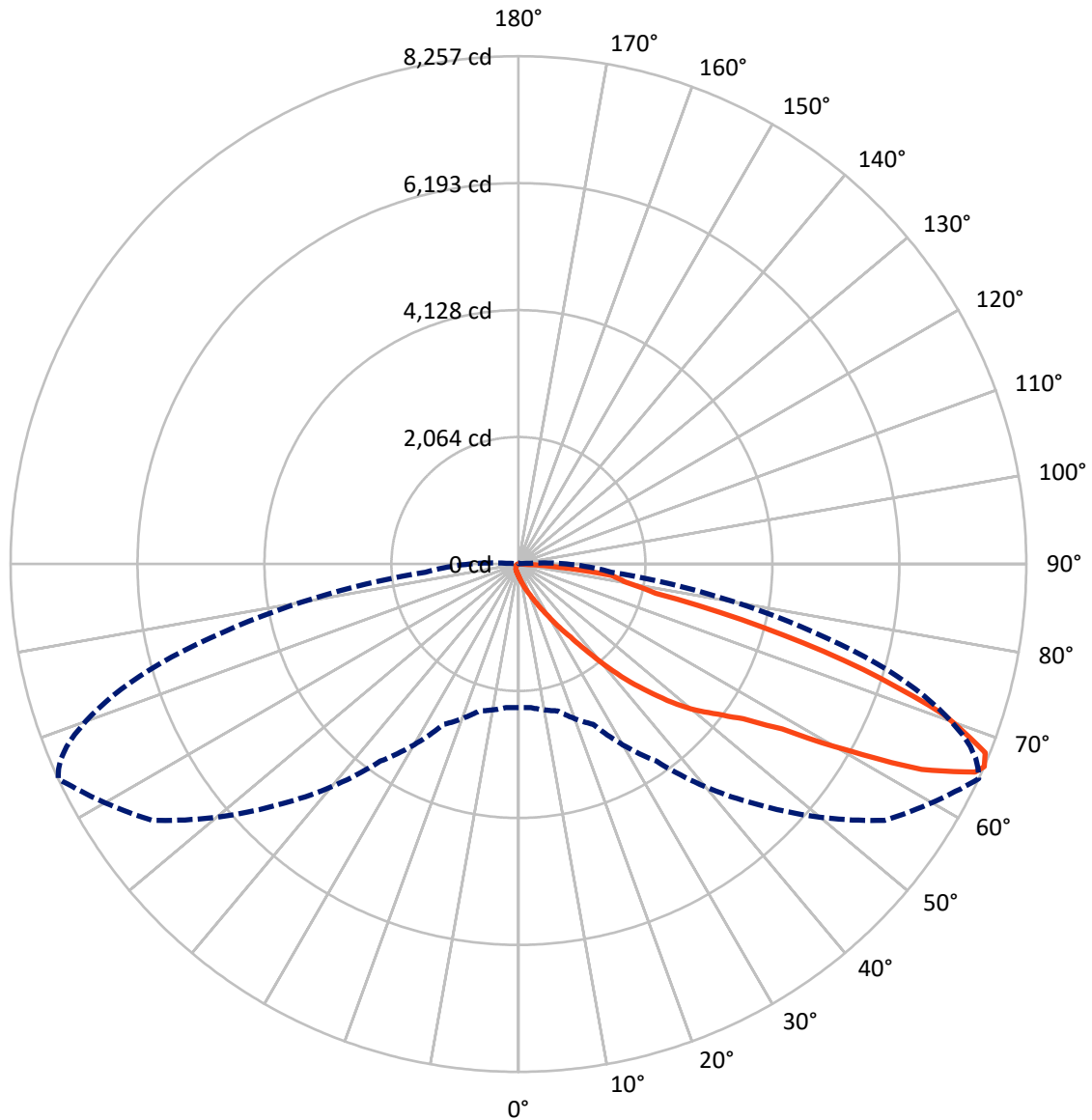


Based on 10 foot mounting height. Maximum calculated value = 10.6 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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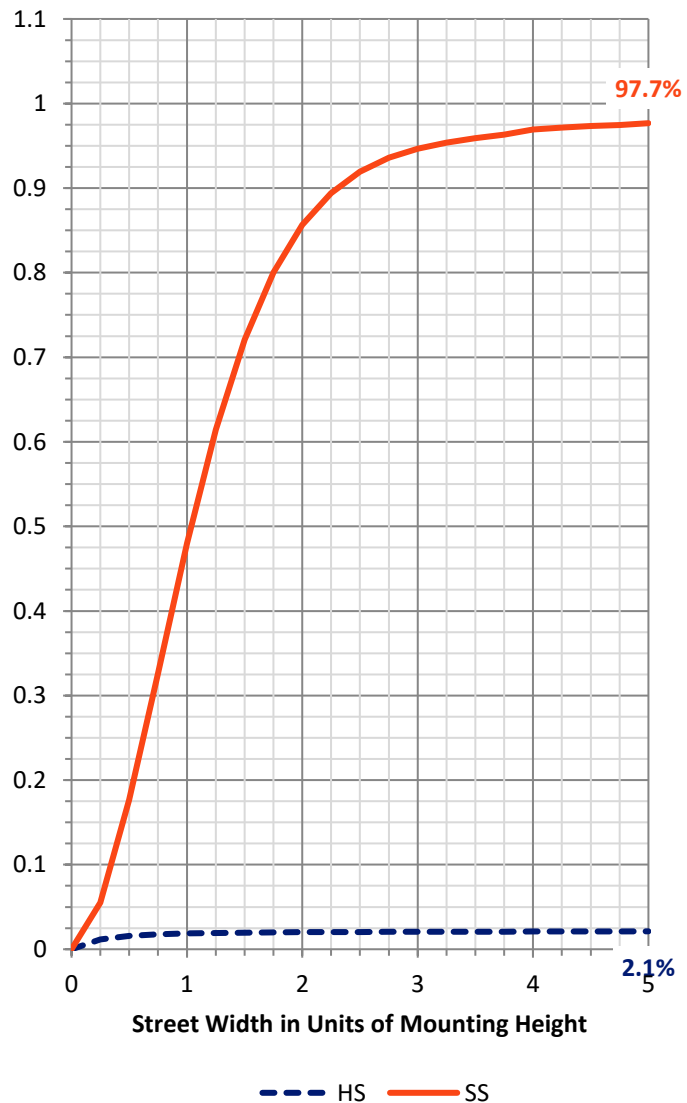
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	139.8	0.0	139.8
	% Fixture	2.2	0.0	2.2
<b>Street Side</b>	Lumens	6311.7	0.0	6311.7
	% Fixture	97.8	0.0	97.8
<b>Total</b>	Lumens	6451.5	0.0	6451.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	21.8	0.3
10°-20°	92.4	1.4
20°-30°	199.4	3.1
30°-40°	425.7	6.6
40°-50°	941.5	14.6
50°-60°	1595.6	24.7
60°-70°	2129.2	33.0
70°-80°	937.9	14.5
80°-90°	108.0	1.7
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°	6451.5	100.0
0°-180°	6451.5	100.0



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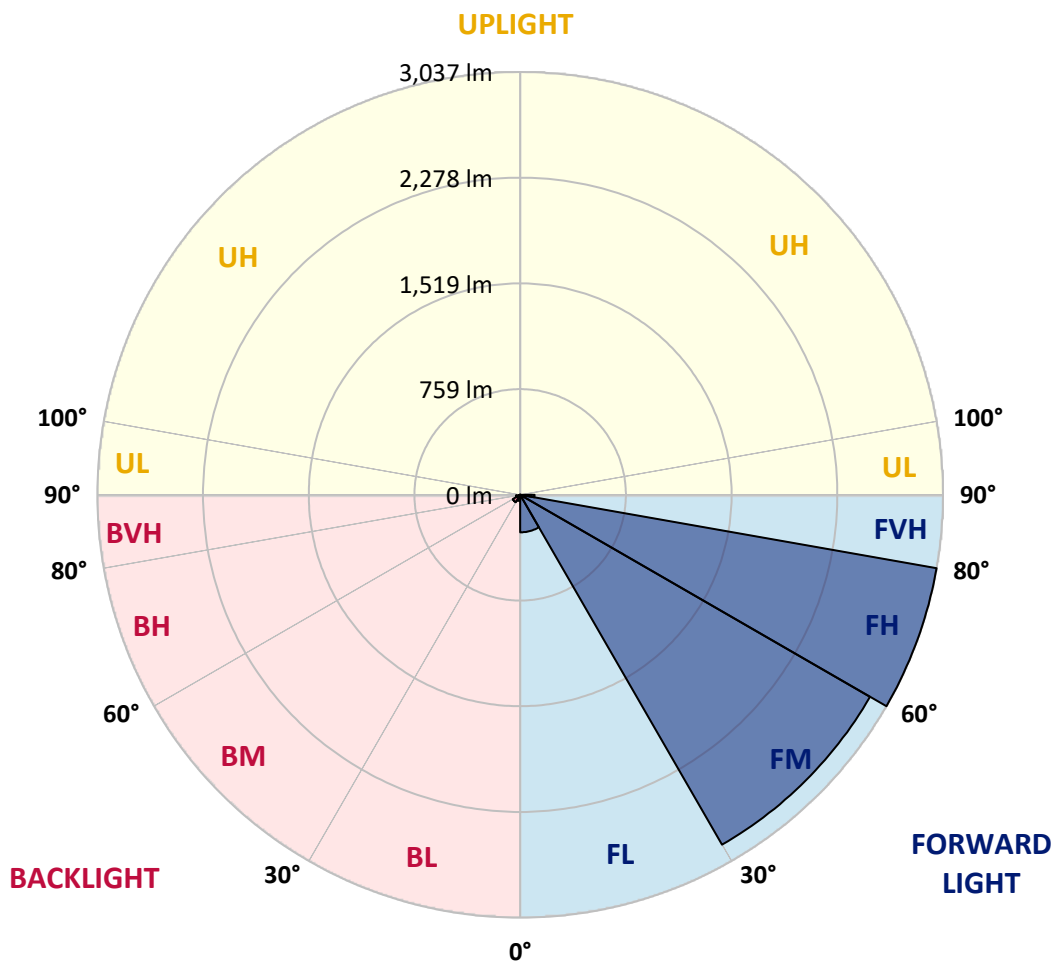
CATALOG NUMBER: ICM-E04-LED-E1-SL3-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	269.5	4.2			
FM	(30°-60°)	2901.4	45.0			
FH	(60°-80°)	3037.0	47.1			G2/5000
FVH	(80°-90°)	103.7	1.6			G2/225
BL	(0°-30°)	44.1	0.7	B0/110		
BM	(30°-60°)	61.4	1.0	B0/220		
BH	(60°-80°)	30.0	0.5	B0/110		G0/110
BVH	(80°-90°)	4.3	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	194.7	194.7	194.7	194.7	194.7	194.7	194.7	194.7	194.7	194.7	194.7
2.5°	245.6	244.4	239.4	239.4	231.9	227.0	220.7	214.6	214.6	213.3	212.1
5°	324.9	317.5	316.3	302.6	291.4	275.4	260.5	240.7	238.1	235.6	234.4
7.5°	413.0	411.8	400.7	384.5	362.1	332.4	302.6	270.4	265.4	263.0	258.0
10°	527.2	520.9	506.0	478.8	445.3	405.6	357.2	306.3	300.2	295.2	292.7
12.5°	636.3	625.1	616.5	581.7	539.5	481.2	423.0	349.8	344.8	338.6	328.7
15°	738.0	728.1	713.2	683.4	636.3	563.1	494.9	405.6	393.2	384.5	377.0
17.5°	817.4	811.2	793.8	760.3	709.5	644.9	563.1	462.6	452.7	441.6	427.9
20°	893.0	884.4	857.0	811.2	756.6	707.0	643.7	537.0	523.4	509.8	494.9
22.5°	964.9	956.3	911.6	836.0	777.7	756.6	734.2	621.4	600.3	589.1	574.2
25°	1065.4	1046.8	977.4	857.0	778.9	795.1	833.5	730.5	710.7	694.6	671.0
27.5°	1200.7	1175.8	1066.7	888.1	783.9	837.2	947.6	863.3	842.1	823.5	797.5
30°	1353.2	1337.0	1206.8	962.5	819.8	899.3	1075.4	1031.9	1007.2	984.8	953.8
32.5°	1507.0	1484.7	1355.6	1103.9	916.6	1019.5	1235.4	1227.9	1195.6	1174.6	1141.1
35°	1642.1	1631.0	1535.5	1335.8	1137.4	1230.4	1448.7	1457.4	1428.8	1406.5	1369.3
37.5°	1734.0	1734.0	1715.4	1585.1	1488.4	1557.9	1762.5	1763.7	1735.2	1684.4	1665.8
40°	1781.1	1794.7	1861.7	1886.5	1881.6	1970.9	2174.2	2151.9	2128.4	2102.3	2040.3
42.5°	1877.9	1890.2	2032.8	2204.0	2315.6	2433.5	2573.7	2566.2	2537.7	2490.5	2433.5
45°	2041.6	2057.7	2227.6	2499.3	2728.7	2896.1	2985.4	2950.7	2922.2	2877.5	2847.7
47.5°	2250.0	2280.9	2473.2	2809.3	3085.9	3362.5	3455.6	3363.7	3338.9	3304.2	3255.8
50°	2471.9	2501.7	2706.3	3090.9	3403.5	3733.3	3888.4	3733.3	3697.4	3686.3	3631.7
52.5°	2664.2	2689.0	2886.3	3307.9	3646.5	4033.5	4259.3	4054.6	4028.6	3991.4	3951.7
55°	2778.3	2798.2	2983.0	3412.1	3811.5	4303.9	4617.7	4437.9	4399.4	4384.5	4327.5
57.5°	2816.8	2836.6	3002.8	3425.8	3900.8	4550.7	5053.1	5059.3	5013.3	4960.0	4942.6
60°	2816.8	2839.1	2979.3	3392.3	3987.7	4813.7	5633.5	6150.7	6051.5	6041.6	5978.4
62.5°	2700.2	2721.2	2862.6	3289.3	4104.2	5168.4	6442.2	7355.1	7326.6	7262.1	7157.9
65°	2447.2	2459.5	2598.4	3026.3	4059.6	5494.6	7143.0	8156.3	8110.5	7984.0	7850.0
66°	2333.0	2343.0	2473.2	2876.3	3913.2	5539.3	7267.0	8256.8	8181.2	8074.5	7923.1
67.5°	2168.1	2185.4	2277.2	2597.2	3562.2	5384.2	7188.9	8186.1	8120.3	7991.4	7840.0
70°	1447.5	1435.1	1758.8	1993.2	2713.8	4387.0	6449.6	7350.1	7351.4	7290.6	7229.8
72.5°	687.2	694.6	788.8	1226.7	1776.1	2930.9	5133.7	5866.7	5951.0	5841.9	5766.3
75°	493.7	504.8	561.9	750.4	1059.3	1758.8	3327.7	4103.0	4105.4	3911.9	3739.6
77.5°	143.9	150.0	210.9	462.6	793.8	1187.0	1911.4	2280.9	2227.6	2088.7	1958.4
80°	59.5	59.5	62.0	147.6	318.8	806.2	1337.0	1756.3	1750.1	1696.8	1619.8
82.5°	22.3	23.5	29.8	60.7	75.6	198.4	891.8	1524.4	1520.7	1444.9	1390.4
85°	2.5	2.5	7.4	26.0	28.6	37.2	178.6	672.3	668.6	672.3	589.1
87.5°	0.0	0.0	1.2	2.5	3.7	4.9	7.4	26.0	28.6	27.3	24.8
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):**

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	194.7	194.7	194.7	194.7	194.7	194.7	194.7	194.7	194.7	194.7	194.7
2.5°	212.1	209.6	209.6	208.4	208.4	208.4	207.2	205.9	205.9	204.7	203.4
5°	231.9	229.5	228.2	225.8	224.5	223.3	220.7	219.5	217.0	215.8	214.6
7.5°	255.5	250.5	249.3	245.6	241.9	239.4	236.9	233.2	230.7	225.8	224.5
10°	285.3	279.1	274.1	269.1	265.4	259.3	255.5	250.5	245.6	241.9	238.1
12.5°	323.7	315.1	307.6	302.6	294.0	286.5	279.1	275.4	265.4	260.5	254.2
15°	365.9	356.0	347.3	337.4	331.2	318.8	308.8	297.7	292.7	284.0	274.1
17.5°	420.5	404.4	390.7	380.7	368.4	356.0	344.8	333.7	318.8	308.8	296.5
20°	478.8	465.1	446.5	429.1	414.2	399.4	383.3	368.4	354.7	338.6	323.7
22.5°	553.2	533.3	511.0	493.7	473.8	457.7	435.4	415.5	393.2	372.1	354.7
25°	647.4	621.4	600.3	575.5	551.9	527.2	499.8	475.1	446.5	426.7	396.9
27.5°	764.0	739.3	710.7	678.4	654.9	617.7	581.7	550.7	517.2	486.2	452.7
30°	912.8	876.9	847.2	816.1	769.0	733.0	690.9	648.7	602.8	571.8	520.9
32.5°	1091.4	1053.0	1008.4	963.7	920.3	869.5	817.4	765.3	714.4	657.4	605.3
35°	1309.8	1263.9	1213.0	1164.7	1097.7	1043.1	977.4	905.4	848.4	782.6	716.9
37.5°	1598.8	1523.1	1478.4	1427.6	1337.0	1262.6	1189.5	1117.5	1017.0	947.6	854.6
40°	1960.9	1916.3	1843.1	1761.2	1679.4	1581.4	1482.1	1386.7	1270.1	1173.3	1065.4
42.5°	2386.3	2320.7	2246.2	2128.4	2045.3	1930.0	1817.0	1690.5	1547.9	1423.9	1297.4
45°	2785.8	2707.6	2650.5	2532.8	2445.9	2309.5	2173.0	2039.1	1874.2	1714.2	1567.7
47.5°	3217.4	3152.9	3058.6	2963.1	2875.1	2721.2	2573.7	2411.2	2237.5	2047.7	1858.0
50°	3597.0	3546.1	3481.6	3366.3	3268.2	3139.3	2965.6	2788.2	2568.7	2380.2	2164.4
52.5°	3919.4	3879.7	3789.1	3707.3	3619.3	3497.7	3342.6	3172.8	2935.8	2728.7	2483.1
55°	4300.2	4271.7	4192.3	4141.4	4063.3	3946.7	3801.6	3644.0	3393.5	3167.7	2890.0
57.5°	4924.0	4901.7	4832.3	4811.2	4734.3	4632.6	4454.0	4285.3	3992.6	3712.3	3394.7
60°	5957.2	5912.6	5810.9	5758.8	5596.3	5459.8	5227.9	4996.0	4642.5	4285.3	3903.3
62.5°	7063.6	6938.4	6744.9	6578.6	6347.9	6111.0	5801.0	5446.3	5031.9	4607.7	4168.7
65°	7660.2	7446.8	7202.6	6938.4	6639.4	6290.9	5900.2	5474.7	5029.5	4581.7	4117.9
66°	7728.4	7487.8	7228.6	6934.6	6602.2	6231.4	5834.5	5387.9	4925.3	4488.7	4024.9
67.5°	7642.8	7391.0	7117.0	6790.7	6431.0	6046.5	5629.8	5165.9	4720.7	4277.9	3826.3
70°	7043.8	6793.3	6548.9	6205.3	5822.1	5435.1	5040.7	4522.2	4100.5	3693.7	3291.8
72.5°	5624.9	5454.9	5213.1	4919.1	4545.8	4091.8	3763.1	3299.3	2933.3	2538.9	2227.6
75°	3515.1	3275.6	2976.8	2602.2	2316.9	1948.6	1756.3	1404.0	1195.6	1013.3	837.2
77.5°	1797.2	1617.4	1407.7	1196.9	994.7	793.8	614.0	434.1	292.7	203.4	151.3
80°	1484.7	1325.9	1152.3	960.0	781.4	606.5	436.6	297.7	189.8	124.0	96.7
82.5°	1226.7	1092.8	937.7	759.1	604.0	476.3	331.2	215.8	134.0	86.8	68.2
85°	522.1	473.8	365.9	290.2	218.3	161.2	112.8	75.6	53.3	43.4	39.7
87.5°	22.3	24.8	23.5	18.6	13.7	13.7	12.4	10.0	10.0	10.0	10.0
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):**

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	194.7	194.7	194.7	194.7	194.7	194.7	194.7	194.7	194.7	194.7	194.7
2.5°	203.4	202.1	200.9	200.9	199.7	198.4	191.0	184.8	177.4	172.4	167.4
5°	212.1	210.9	208.4	207.2	204.7	203.4	187.3	173.7	162.5	153.8	147.6
7.5°	220.7	219.5	215.8	212.1	210.9	208.4	182.3	164.9	150.0	140.2	134.0
10°	231.9	228.2	224.5	219.5	215.8	212.1	177.4	155.1	138.9	130.2	124.0
12.5°	248.1	241.9	235.6	229.5	224.5	218.3	174.9	146.3	130.2	120.3	114.1
15°	266.7	258.0	250.5	243.1	234.4	228.2	170.0	138.9	122.8	112.8	105.4
17.5°	284.0	274.1	263.0	251.8	243.1	234.4	164.9	131.4	115.3	105.4	98.0
20°	308.8	294.0	280.3	266.7	254.2	243.1	157.5	124.0	109.1	98.0	90.5
22.5°	336.1	318.8	301.4	282.8	266.7	251.8	151.3	117.9	103.0	91.8	83.1
25°	370.9	349.8	326.2	302.6	284.0	264.2	145.1	111.6	96.7	85.6	76.9
27.5°	419.3	389.5	363.4	333.7	305.1	282.8	140.2	106.7	90.5	79.3	70.7
30°	484.9	441.6	400.7	368.4	334.9	302.6	135.2	100.5	85.6	73.2	63.3
32.5°	558.1	507.3	460.2	411.8	369.6	332.4	130.2	95.5	79.3	67.0	58.3
35°	648.7	584.2	520.9	465.1	414.2	364.7	125.3	90.5	74.4	60.7	52.1
37.5°	778.9	698.3	615.2	543.3	477.5	411.8	121.6	85.6	68.2	54.6	45.9
40°	957.5	853.3	751.6	653.7	568.1	486.2	116.6	80.7	63.3	49.6	40.9
42.5°	1151.0	1024.5	890.5	780.2	662.3	559.4	111.6	75.6	58.3	44.7	36.0
45°	1391.6	1234.1	1071.6	921.6	777.7	644.9	106.7	70.7	52.1	39.7	31.0
47.5°	1654.6	1453.7	1270.1	1081.6	910.4	751.6	100.5	67.0	47.2	34.7	27.3
50°	1924.9	1712.8	1480.9	1266.3	1063.0	858.3	94.2	60.7	42.1	31.0	22.3
52.5°	2216.5	1965.9	1729.0	1462.3	1225.4	998.4	88.1	55.8	38.4	27.3	18.6
55°	2587.3	2307.0	2029.1	1730.2	1444.9	1160.9	81.9	49.6	33.5	23.5	14.9
57.5°	3053.7	2721.2	2380.2	2042.8	1696.8	1374.2	76.9	43.4	28.6	19.8	12.4
60°	3494.0	3105.8	2692.8	2304.5	1913.8	1538.0	69.5	38.4	24.8	16.1	12.4
62.5°	3722.2	3279.4	2834.2	2406.2	1989.5	1596.3	62.0	32.3	21.1	13.7	11.2
65°	3666.3	3214.9	2783.3	2351.6	1943.5	1559.1	54.6	28.6	18.6	12.4	11.2
66°	3585.8	3139.3	2705.1	2294.6	1905.1	1519.4	50.9	27.3	17.4	12.4	10.0
67.5°	3409.6	2978.0	2563.7	2181.7	1799.7	1443.7	45.9	24.8	16.1	11.2	10.0
70°	2912.3	2520.3	2189.1	1849.3	1538.0	1216.8	37.2	21.1	13.7	10.0	10.0
72.5°	1927.5	1660.8	1440.0	1239.1	1035.6	803.7	31.0	17.4	11.2	10.0	8.7
75°	726.8	657.4	564.4	507.3	442.8	388.2	24.8	11.2	8.7	8.7	8.7
77.5°	129.0	119.1	105.4	96.7	89.3	81.9	19.8	7.4	7.4	8.7	8.7
80°	86.8	80.7	73.2	67.0	62.0	55.8	13.7	6.2	7.4	7.4	8.7
82.5°	62.0	58.3	54.6	49.6	45.9	40.9	8.7	6.2	7.4	7.4	7.4
85°	37.2	34.7	32.3	29.8	26.0	24.8	6.2	6.2	6.2	7.4	7.4
87.5°	10.0	8.7	10.0	10.0	7.4	8.7	4.9	4.9	4.9	6.2	6.2
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):**

	145°	155°	165°	175°	180°
0°	194.7	194.7	194.7	194.7	194.7
2.5°	164.9	164.9	162.5	166.2	166.2
5°	142.6	142.6	141.4	142.6	142.6
7.5°	130.2	129.0	129.0	129.0	130.2
10°	119.1	117.9	117.9	117.9	117.9
12.5°	109.1	107.9	106.7	107.9	107.9
15°	100.5	98.0	98.0	98.0	98.0
17.5°	93.0	90.5	89.3	89.3	89.3
20°	85.6	81.9	81.9	81.9	81.9
22.5°	78.1	74.4	74.4	74.4	74.4
25°	70.7	67.0	67.0	67.0	67.0
27.5°	64.5	60.7	60.7	60.7	60.7
30°	57.0	54.6	54.6	55.8	54.6
32.5°	52.1	48.4	48.4	49.6	49.6
35°	45.9	43.4	43.4	43.4	43.4
37.5°	39.7	37.2	37.2	37.2	37.2
40°	34.7	32.3	31.0	32.3	32.3
42.5°	29.8	27.3	26.0	26.0	26.0
45°	26.0	22.3	21.1	22.3	22.3
47.5°	21.1	18.6	18.6	19.8	19.8
50°	16.1	16.1	17.4	19.8	19.8
52.5°	14.9	14.9	17.4	19.8	19.8
55°	13.7	14.9	17.4	18.6	19.8
57.5°	12.4	14.9	17.4	18.6	18.6
60°	12.4	13.7	16.1	18.6	18.6
62.5°	11.2	12.4	14.9	17.4	17.4
65°	11.2	12.4	14.9	17.4	17.4
66°	11.2	12.4	14.9	17.4	17.4
67.5°	11.2	12.4	14.9	17.4	17.4
70°	11.2	12.4	14.9	16.1	16.1
72.5°	10.0	11.2	13.7	16.1	16.1
75°	10.0	11.2	13.7	16.1	16.1
77.5°	10.0	11.2	13.7	16.1	16.1
80°	10.0	11.2	13.7	14.9	16.1
82.5°	8.7	11.2	12.4	14.9	14.9
85°	8.7	10.0	12.4	13.7	14.9
87.5°	7.4	8.7	10.0	12.4	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)