

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: P180586

Luminaire Tested: **ICM-E04-LED-E1-SL3-HSS-8030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180586  
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-8030  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD  
Light Source: (84) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

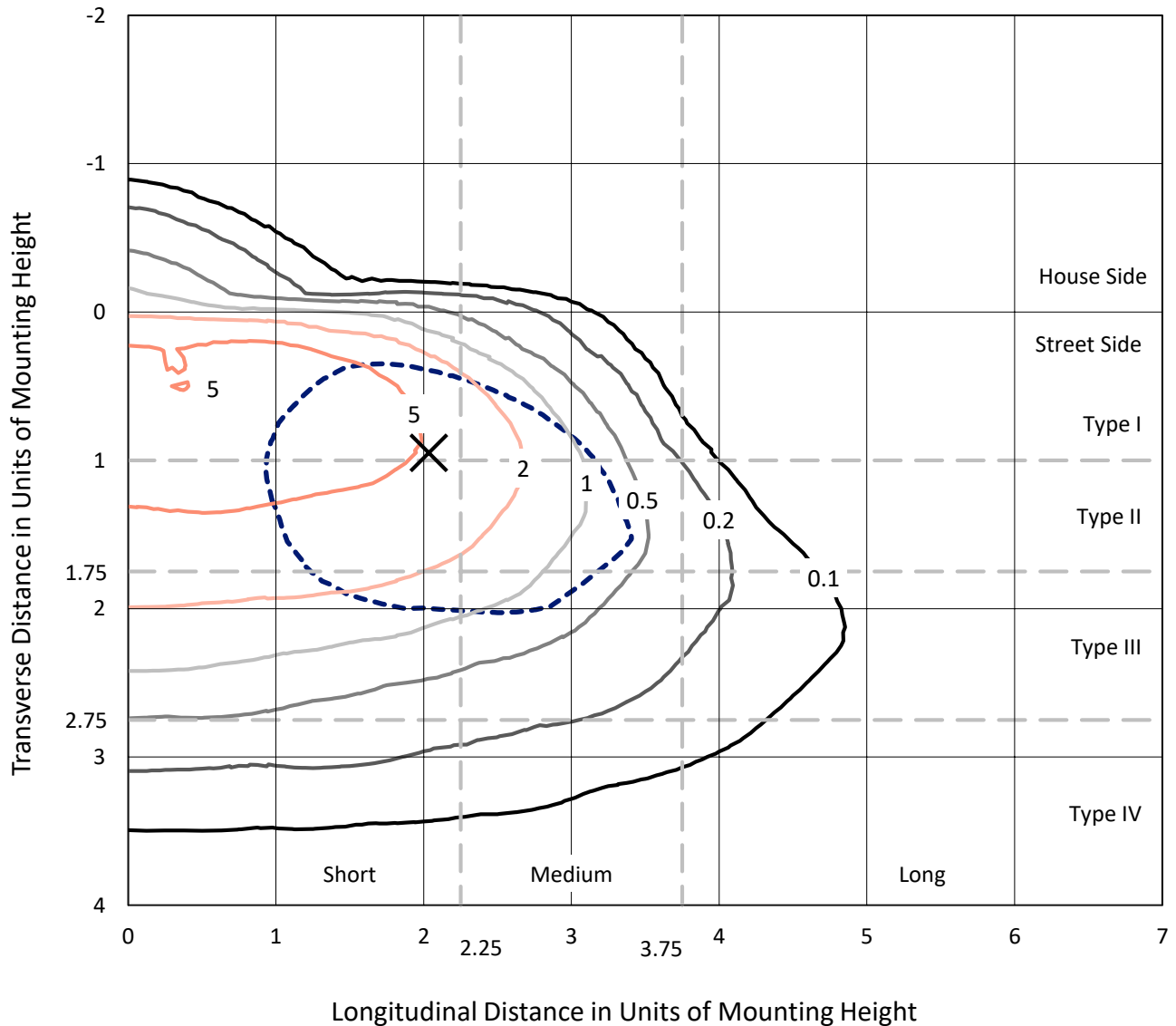
Lumens per Lamp: N/A  
Luminaire Lumens: 5445 lumens  
Efficiency: N/A  
Efficacy: 56.0 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B0 - U0 - G2  
  
Input Watts (W): 97.2  
Input Voltage (V): NR  
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

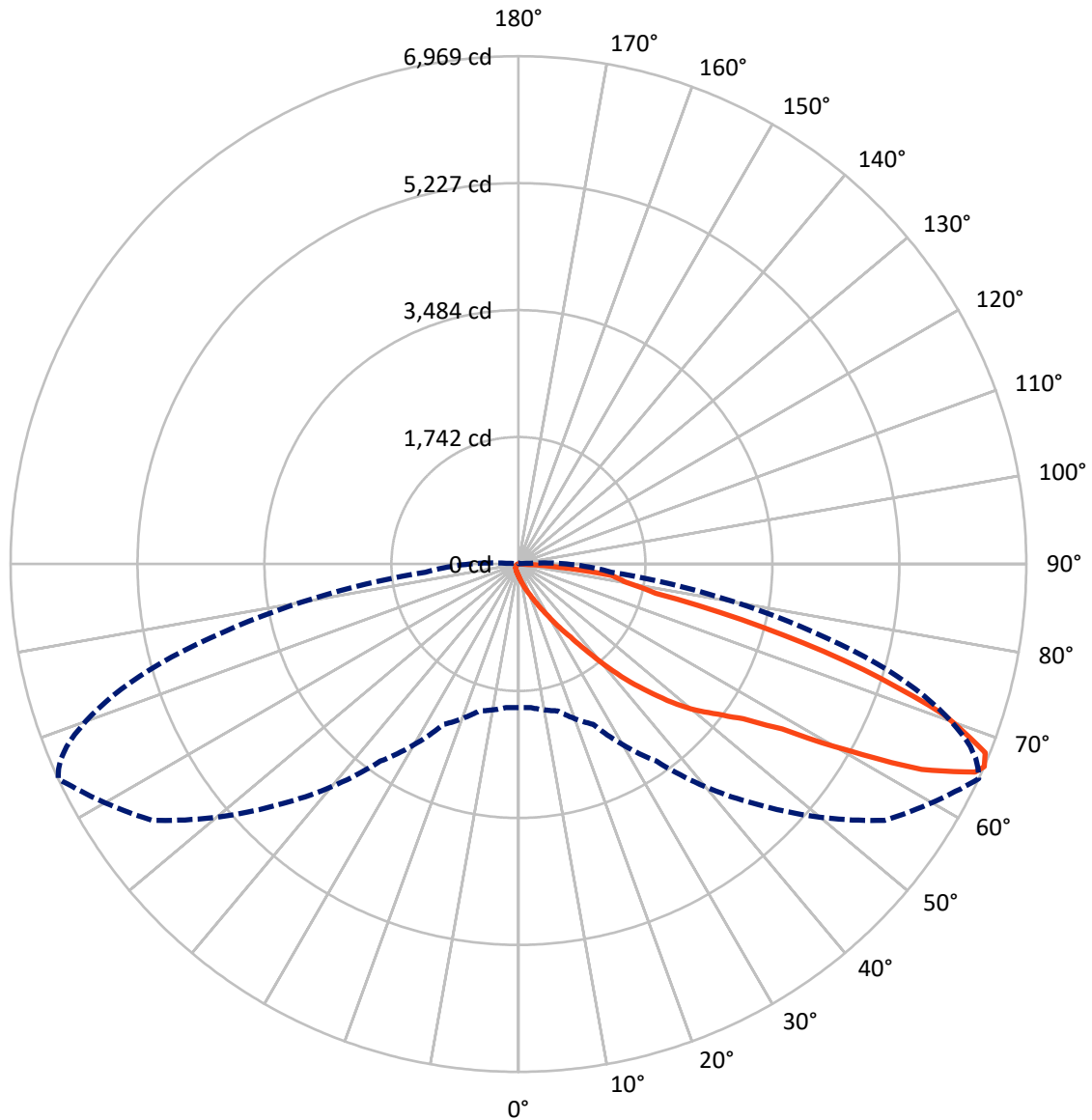
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9 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	118.0	0.0	118.0
	% Fixture	2.2	0.0	2.2
<b>Street Side</b>	Lumens	5327.0	0.0	5327.0
	% Fixture	97.8	0.0	97.8
<b>Total</b>	Lumens	5445.0	0.0	5445.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	18.4	0.3
10°-20°	78.0	1.4
20°-30°	168.3	3.1
30°-40°	359.3	6.6
40°-50°	794.6	14.6
50°-60°	1346.6	24.7
60°-70°	1797.0	33.0
70°-80°	791.5	14.5
80°-90°	91.2	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°	5445.0	100.0
0°-180°	5445.0	100.0



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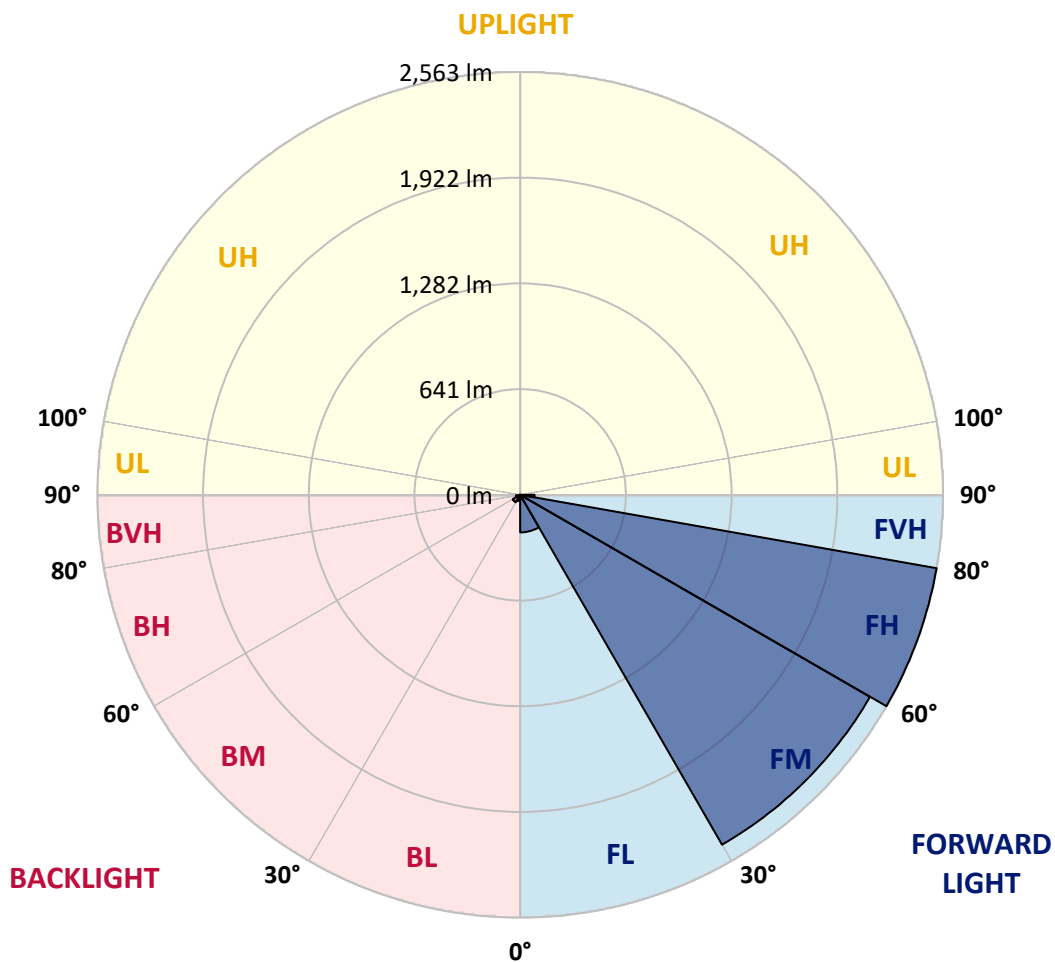
CATALOG NUMBER: ICM-E04-LED-E1-SL3-HSS-8030

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	227.4	4.2			
FM	(30°-60°)	2448.8	45.0			
FH	(60°-80°)	2563.2	47.1			G2/5000
FVH	(80°-90°)	87.5	1.6			G1/100
BL	(0°-30°)	37.2	0.7	B0/110		
BM	(30°-60°)	51.8	1.0	B0/220		
BH	(60°-80°)	25.3	0.5	B0/110		G0/110
BVH	(80°-90°)	3.6	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	164.4	164.4	164.4	164.4	164.4	164.4	164.4	164.4	164.4	164.4	164.4
2.5°	207.3	206.2	202.0	202.0	195.7	191.5	186.3	181.1	181.1	180.1	179.0
5°	274.2	268.0	267.0	255.4	246.0	232.4	219.8	203.1	201.0	198.9	197.9
7.5°	348.6	347.5	338.1	324.5	305.7	280.6	255.4	228.2	224.0	222.0	217.8
10°	444.9	439.6	427.1	404.1	375.8	342.3	301.5	258.6	253.3	249.1	247.1
12.5°	537.0	527.6	520.3	491.0	455.4	406.1	356.9	295.2	291.0	285.8	277.4
15°	622.9	614.5	602.0	576.8	537.0	475.3	417.7	342.3	331.8	324.5	318.2
17.5°	689.9	684.7	670.0	641.7	598.8	544.4	475.3	390.4	382.0	372.7	361.1
20°	753.7	746.4	723.4	684.7	638.5	596.7	543.3	453.3	441.8	430.2	417.7
22.5°	814.4	807.1	769.4	705.6	656.4	638.5	619.7	524.5	506.7	497.2	484.7
25°	899.3	883.5	824.9	723.4	657.4	671.0	703.4	616.6	599.8	586.2	566.3
27.5°	1013.3	992.4	900.3	749.5	661.6	706.6	799.7	728.6	710.8	695.1	673.1
30°	1142.1	1128.5	1018.5	812.3	691.9	759.0	907.6	871.0	850.1	831.2	805.0
32.5°	1271.9	1253.0	1144.2	931.6	773.6	860.5	1042.6	1036.4	1009.1	991.4	963.1
35°	1386.0	1376.6	1295.9	1127.4	959.9	1038.4	1222.7	1230.1	1206.0	1187.1	1155.7
37.5°	1463.5	1463.5	1447.7	1337.9	1256.2	1314.8	1487.5	1488.6	1464.5	1421.6	1405.9
40°	1503.3	1514.7	1571.3	1592.2	1588.0	1663.4	1835.1	1816.2	1796.4	1774.3	1722.1
42.5°	1584.8	1595.4	1715.7	1860.2	1954.4	2053.9	2172.1	2165.9	2141.8	2102.0	2053.9
45°	1723.1	1736.7	1880.1	2109.3	2303.0	2444.3	2519.6	2490.3	2466.3	2428.6	2403.5
47.5°	1898.9	1925.1	2087.4	2371.1	2604.5	2837.9	2916.4	2839.0	2818.1	2788.8	2747.9
50°	2086.3	2111.5	2284.2	2608.7	2872.5	3150.9	3281.8	3150.9	3120.6	3111.2	3065.0
52.5°	2248.6	2269.5	2435.9	2791.8	3077.6	3404.2	3594.8	3422.1	3400.0	3368.7	3335.2
55°	2344.9	2361.6	2517.6	2879.8	3216.9	3632.5	3897.3	3745.5	3713.0	3700.5	3652.3
57.5°	2377.3	2394.1	2534.3	2891.3	3292.2	3840.8	4264.8	4270.0	4231.2	4186.3	4171.6
60°	2377.3	2396.2	2514.4	2863.1	3365.5	4062.7	4754.6	5191.2	5107.4	5099.0	5045.6
62.5°	2278.9	2296.8	2416.0	2776.2	3463.9	4362.1	5437.1	6207.7	6183.6	6129.2	6041.2
65°	2065.4	2075.8	2193.0	2554.2	3426.3	4637.4	6028.6	6883.9	6845.2	6738.4	6625.3
66°	1969.0	1977.4	2087.4	2427.5	3302.7	4675.1	6133.3	6968.7	6904.8	6814.7	6687.1
67.5°	1829.9	1844.5	1922.0	2192.0	3006.4	4544.2	6067.4	6909.0	6853.5	6744.6	6617.0
70°	1221.6	1211.2	1484.4	1682.2	2290.4	3702.6	5443.5	6203.5	6204.5	6153.2	6101.9
72.5°	579.9	586.2	665.8	1035.3	1499.1	2473.6	4332.8	4951.5	5022.6	4930.5	4866.6
75°	416.7	426.0	474.2	633.3	894.0	1484.4	2808.6	3462.9	3465.0	3301.7	3156.1
77.5°	121.4	126.7	178.0	390.4	670.0	1001.8	1613.1	1925.1	1880.1	1762.8	1652.9
80°	50.2	50.2	52.4	124.6	269.0	680.5	1128.5	1482.3	1477.0	1432.0	1367.2
82.5°	18.9	19.9	25.1	51.3	63.8	167.5	752.7	1286.5	1283.4	1219.5	1173.5
85°	2.1	2.1	6.3	22.0	24.1	31.4	150.7	567.4	564.2	567.4	497.2
87.5°	0.0	0.0	1.0	2.1	3.2	4.2	6.3	22.0	24.1	23.1	20.9
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):**

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	164.4	164.4	164.4	164.4	164.4	164.4	164.4	164.4	164.4	164.4	164.4
2.5°	179.0	176.9	176.9	175.9	175.9	175.9	174.8	173.8	173.8	172.7	171.7
5°	195.7	193.7	192.7	190.5	189.5	188.5	186.3	185.3	183.2	182.1	181.1
7.5°	215.6	211.4	210.4	207.3	204.1	202.0	199.9	196.8	194.7	190.5	189.5
10°	240.7	235.5	231.4	227.2	224.0	218.8	215.6	211.4	207.3	204.1	201.0
12.5°	273.2	265.9	259.6	255.4	248.1	241.8	235.5	232.4	224.0	219.8	214.6
15°	308.8	300.5	293.1	284.7	279.5	269.0	260.7	251.3	247.1	239.7	231.4
17.5°	354.9	341.3	329.8	321.4	310.9	300.5	291.0	281.6	269.0	260.7	250.2
20°	404.1	392.6	376.8	362.2	349.7	337.1	323.4	310.9	299.4	285.8	273.2
22.5°	466.9	450.1	431.3	416.7	399.9	386.2	367.4	350.7	331.8	314.0	299.4
25°	546.4	524.5	506.7	485.7	465.9	444.9	421.9	400.9	376.8	360.1	335.0
27.5°	644.8	623.9	599.8	572.7	552.7	521.3	491.0	464.7	436.6	410.3	382.0
30°	770.4	740.1	715.0	688.8	649.0	618.7	583.1	547.4	508.7	482.6	439.6
32.5°	921.2	888.7	851.1	813.4	776.7	733.9	689.9	645.9	603.0	554.8	510.9
35°	1105.4	1066.7	1023.8	983.0	926.4	880.4	824.9	764.2	716.0	660.6	605.0
37.5°	1349.3	1285.5	1247.8	1204.8	1128.5	1065.7	1003.9	943.2	858.4	799.7	721.2
40°	1655.0	1617.3	1555.5	1486.5	1417.4	1334.7	1251.0	1170.3	1071.9	990.3	899.3
42.5°	2014.1	1958.6	1895.8	1796.4	1726.2	1628.8	1533.6	1426.8	1306.4	1201.8	1095.0
45°	2351.2	2285.2	2237.0	2137.6	2064.3	1949.1	1834.1	1720.9	1581.8	1446.7	1323.2
47.5°	2715.5	2661.0	2581.4	2500.9	2426.5	2296.8	2172.1	2035.0	1888.5	1728.3	1568.1
50°	3035.7	2992.9	2938.4	2841.0	2758.3	2649.5	2502.9	2353.2	2167.9	2008.8	1826.7
52.5°	3307.9	3274.4	3198.1	3128.9	3054.6	2952.0	2821.1	2677.8	2477.8	2303.0	2095.7
55°	3629.3	3605.2	3538.3	3495.3	3429.4	3331.0	3208.5	3075.6	2864.1	2673.6	2439.1
57.5°	4155.8	4137.0	4078.4	4060.6	3995.7	3909.9	3759.1	3616.8	3369.7	3133.1	2865.1
60°	5027.8	4990.2	4904.3	4860.4	4723.2	4608.1	4412.3	4216.6	3918.3	3616.8	3294.3
62.5°	5961.6	5855.8	5692.6	5552.3	5357.6	5157.7	4895.9	4596.6	4246.9	3889.0	3518.3
65°	6465.2	6285.1	6078.8	5855.8	5603.6	5309.4	4979.8	4620.7	4244.9	3866.9	3475.5
66°	6522.7	6319.7	6100.9	5852.8	5572.2	5259.2	4924.2	4547.4	4157.0	3788.4	3397.0
67.5°	6450.5	6238.0	6006.6	5731.3	5427.8	5103.2	4751.5	4360.0	3984.2	3610.4	3229.4
70°	5944.9	5733.4	5527.2	5237.2	4913.8	4587.2	4254.3	3816.7	3460.8	3117.4	2778.2
72.5°	4747.3	4603.9	4399.7	4151.7	3836.6	3453.4	3176.0	2784.6	2475.7	2142.8	1880.1
75°	2966.7	2764.7	2512.4	2196.2	1955.5	1644.6	1482.3	1185.0	1009.1	855.3	706.6
77.5°	1516.8	1365.0	1188.1	1010.1	839.5	670.0	518.1	366.4	247.1	171.7	127.7
80°	1253.0	1119.1	972.5	810.2	659.5	511.9	368.5	251.3	160.2	104.7	81.7
82.5°	1035.3	922.2	791.4	640.7	509.8	402.0	279.5	182.1	113.0	73.3	57.6
85°	440.7	399.9	308.8	244.9	184.3	136.1	95.3	63.8	45.0	36.7	33.5
87.5°	18.9	20.9	19.9	15.7	11.5	11.5	10.5	8.4	8.4	8.4	8.4
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°	164.4	164.4	164.4	164.4	164.4	164.4	164.4	164.4	164.4	164.4	164.4
2.5°	171.7	170.6	169.6	169.6	168.6	167.5	161.2	156.0	149.7	145.5	141.3
5°	179.0	178.0	175.9	174.8	172.7	171.7	158.0	146.5	137.1	129.8	124.6
7.5°	186.3	185.3	182.1	179.0	178.0	175.9	153.9	139.3	126.7	118.3	113.0
10°	195.7	192.7	189.5	185.3	182.1	179.0	149.7	130.9	117.2	110.0	104.7
12.5°	209.4	204.1	198.9	193.7	189.5	184.3	147.6	123.5	110.0	101.6	96.3
15°	225.0	217.8	211.4	205.2	197.9	192.7	143.4	117.2	103.6	95.3	89.0
17.5°	239.7	231.4	222.0	212.5	205.2	197.9	139.3	111.0	97.4	89.0	82.7
20°	260.7	248.1	236.6	225.0	214.6	205.2	132.9	104.7	92.1	82.7	76.4
22.5°	283.7	269.0	254.4	238.7	225.0	212.5	127.7	99.4	86.9	77.5	70.1
25°	313.0	295.2	275.4	255.4	239.7	223.0	122.5	94.2	81.7	72.2	64.9
27.5°	353.9	328.7	306.7	281.6	257.5	238.7	118.3	90.0	76.4	67.0	59.6
30°	409.3	372.7	338.1	310.9	282.6	255.4	114.1	84.8	72.2	61.8	53.4
32.5°	471.1	428.2	388.4	347.5	311.9	280.6	110.0	80.6	67.0	56.6	49.2
35°	547.4	493.0	439.6	392.6	349.7	307.7	105.8	76.4	62.8	51.3	44.0
37.5°	657.4	589.4	519.3	458.5	403.0	347.5	102.6	72.2	57.6	46.0	38.7
40°	808.1	720.2	634.3	551.6	479.4	410.3	98.4	68.0	53.4	41.9	34.5
42.5°	971.4	864.7	751.6	658.4	559.0	472.1	94.2	63.8	49.2	37.7	30.3
45°	1174.5	1041.6	904.5	777.8	656.4	544.4	90.0	59.6	44.0	33.5	26.1
47.5°	1396.5	1226.9	1071.9	912.8	768.4	634.3	84.8	56.6	39.8	29.3	23.1
50°	1624.7	1445.7	1249.9	1068.8	897.1	724.4	79.5	51.3	35.6	26.1	18.9
52.5°	1870.6	1659.2	1459.3	1234.2	1034.2	842.7	74.3	47.1	32.5	23.1	15.7
55°	2183.6	1947.1	1712.6	1460.3	1219.5	979.8	69.1	41.9	28.3	19.9	12.6
57.5°	2577.2	2296.8	2008.8	1724.1	1432.0	1159.9	64.9	36.7	24.1	16.7	10.5
60°	2948.9	2621.2	2272.7	1944.9	1615.3	1298.1	58.6	32.5	20.9	13.6	10.5
62.5°	3141.5	2767.7	2392.0	2030.8	1679.1	1347.3	52.4	27.3	17.8	11.5	9.4
65°	3094.3	2713.3	2349.0	1984.8	1640.4	1315.8	46.0	24.1	15.7	10.5	9.4
66°	3026.3	2649.5	2283.1	1936.6	1607.9	1282.3	42.9	23.1	14.7	10.5	8.4
67.5°	2877.7	2513.4	2163.7	1841.3	1518.9	1218.5	38.7	20.9	13.6	9.4	8.4
70°	2458.0	2127.2	1847.6	1560.8	1298.1	1026.9	31.4	17.8	11.5	8.4	8.4
72.5°	1626.7	1401.7	1215.4	1045.8	874.1	678.3	26.1	14.7	9.4	8.4	7.3
75°	613.4	554.8	476.3	428.2	373.7	327.6	20.9	9.4	7.3	7.3	7.3
77.5°	108.8	100.5	89.0	81.7	75.3	69.1	16.7	6.3	6.3	7.3	7.3
80°	73.3	68.0	61.8	56.6	52.4	47.1	11.5	5.2	6.3	6.3	7.3
82.5°	52.4	49.2	46.0	41.9	38.7	34.5	7.3	5.2	6.3	6.3	6.3
85°	31.4	29.3	27.3	25.1	22.0	20.9	5.2	5.2	5.2	6.3	6.3
87.5°	8.4	7.3	8.4	8.4	6.3	7.3	4.2	4.2	4.2	5.2	5.2
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°	164.4	164.4	164.4	164.4	164.4
2.5°	139.3	139.3	137.1	140.3	140.3
5°	120.4	120.4	119.3	120.4	120.4
7.5°	110.0	108.8	108.8	108.8	110.0
10°	100.5	99.4	99.4	99.4	99.4
12.5°	92.1	91.1	90.0	91.1	91.1
15°	84.8	82.7	82.7	82.7	82.7
17.5°	78.5	76.4	75.3	75.3	75.3
20°	72.2	69.1	69.1	69.1	69.1
22.5°	66.0	62.8	62.8	62.8	62.8
25°	59.6	56.6	56.6	56.6	56.6
27.5°	54.4	51.3	51.3	51.3	51.3
30°	48.2	46.0	46.0	47.1	46.0
32.5°	44.0	40.8	40.8	41.9	41.9
35°	38.7	36.7	36.7	36.7	36.7
37.5°	33.5	31.4	31.4	31.4	31.4
40°	29.3	27.3	26.1	27.3	27.3
42.5°	25.1	23.1	22.0	22.0	22.0
45°	22.0	18.9	17.8	18.9	18.9
47.5°	17.8	15.7	15.7	16.7	16.7
50°	13.6	13.6	14.7	16.7	16.7
52.5°	12.6	12.6	14.7	16.7	16.7
55°	11.5	12.6	14.7	15.7	16.7
57.5°	10.5	12.6	14.7	15.7	15.7
60°	10.5	11.5	13.6	15.7	15.7
62.5°	9.4	10.5	12.6	14.7	14.7
65°	9.4	10.5	12.6	14.7	14.7
66°	9.4	10.5	12.6	14.7	14.7
67.5°	9.4	10.5	12.6	14.7	14.7
70°	9.4	10.5	12.6	13.6	13.6
72.5°	8.4	9.4	11.5	13.6	13.6
75°	8.4	9.4	11.5	13.6	13.6
77.5°	8.4	9.4	11.5	13.6	13.6
80°	8.4	9.4	11.5	12.6	13.6
82.5°	7.3	9.4	10.5	12.6	12.6
85°	7.3	8.4	10.5	11.5	12.6
87.5°	6.3	7.3	8.4	10.5	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)