

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: P180672

Luminaire Tested: **ICM-F02-LED-E1-SL3-7030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180672  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33679)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ICM-F02-LED-E1-SL3-7030  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL  
Light Source: (14) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4259.1 lumens  
Efficiency: N/A  
Efficacy: 77.4 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')  
IES Classification: Type III - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G1

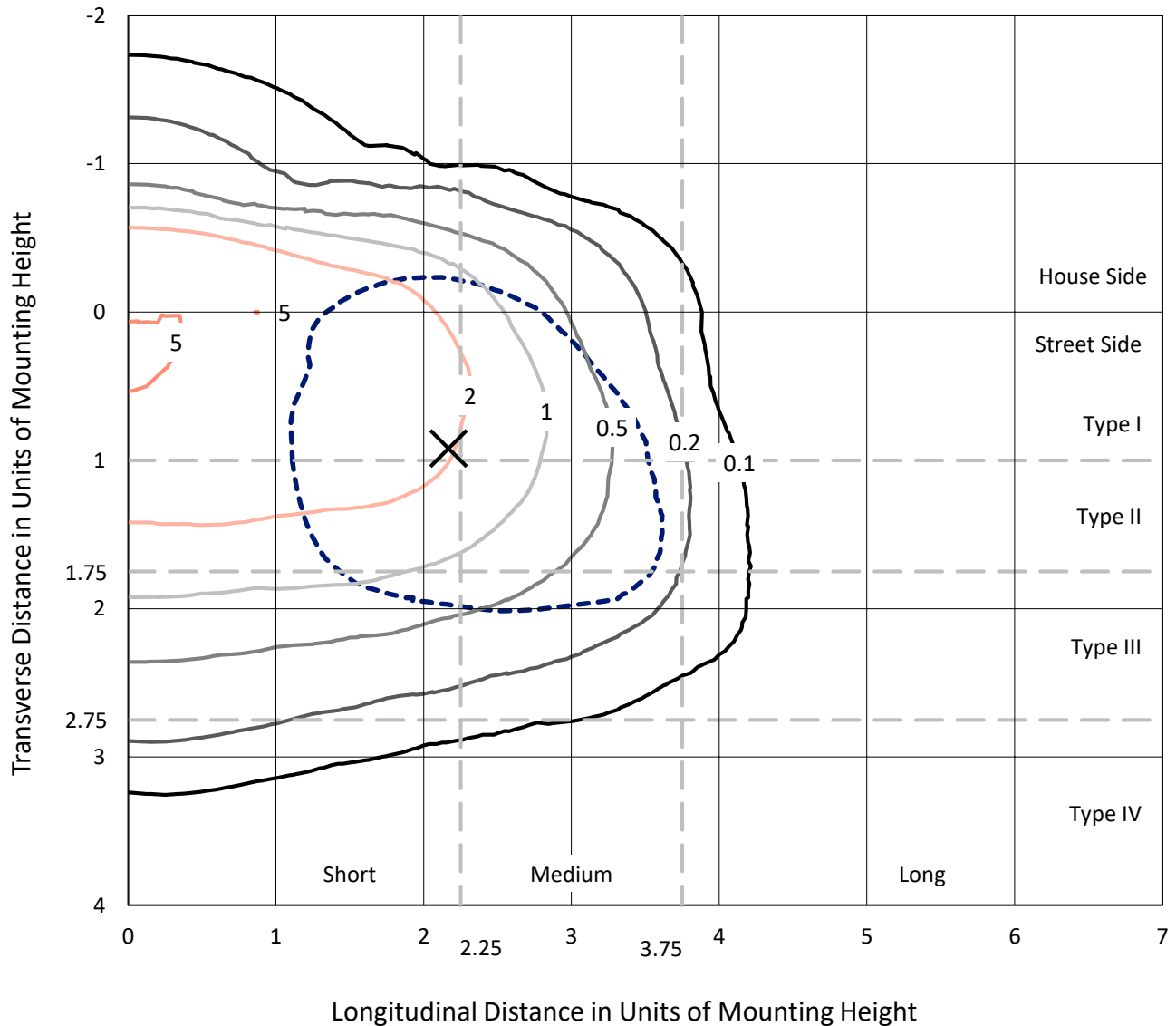
Input Watts (W): 55  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

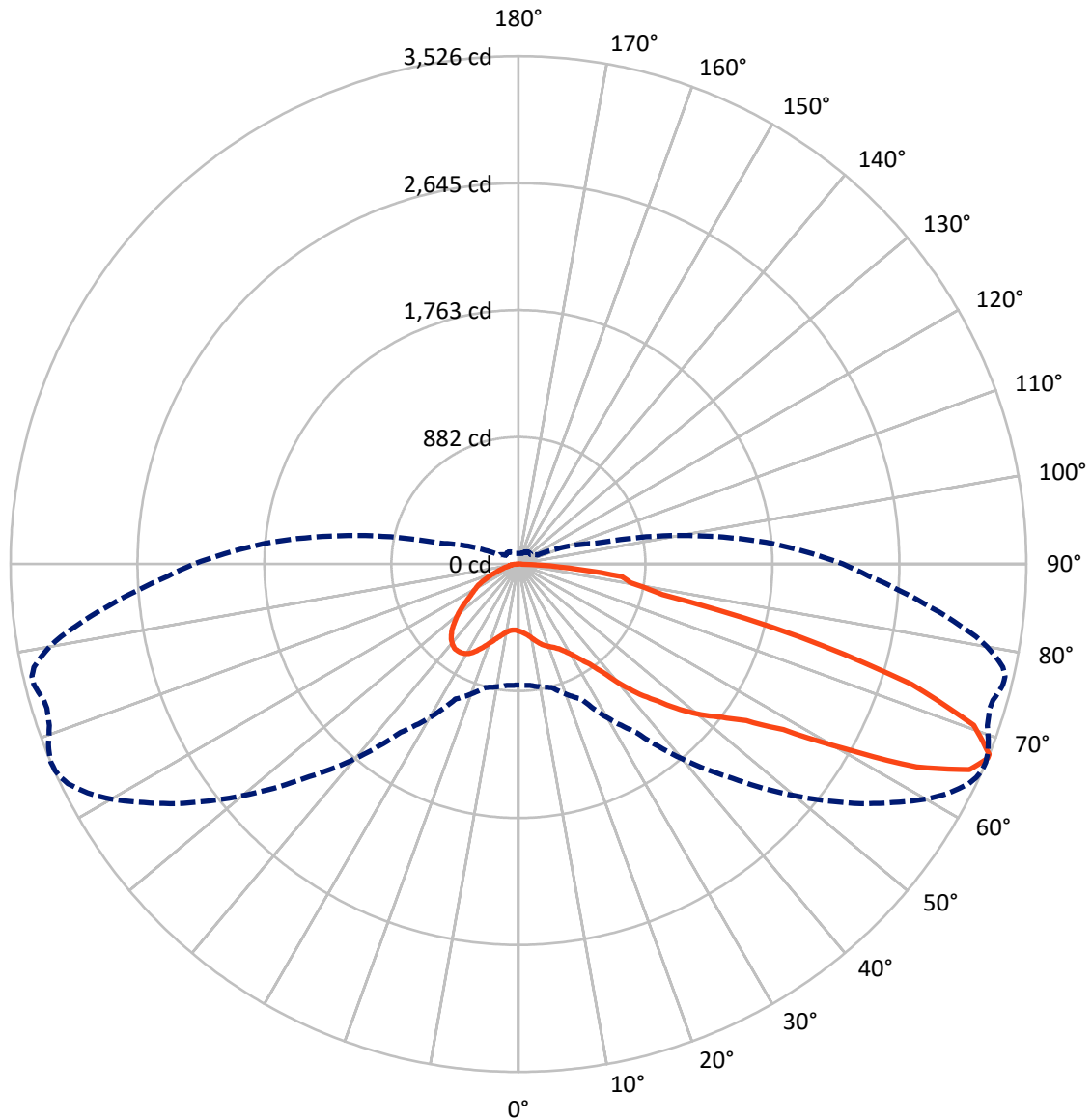
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6 fc  
 Type III - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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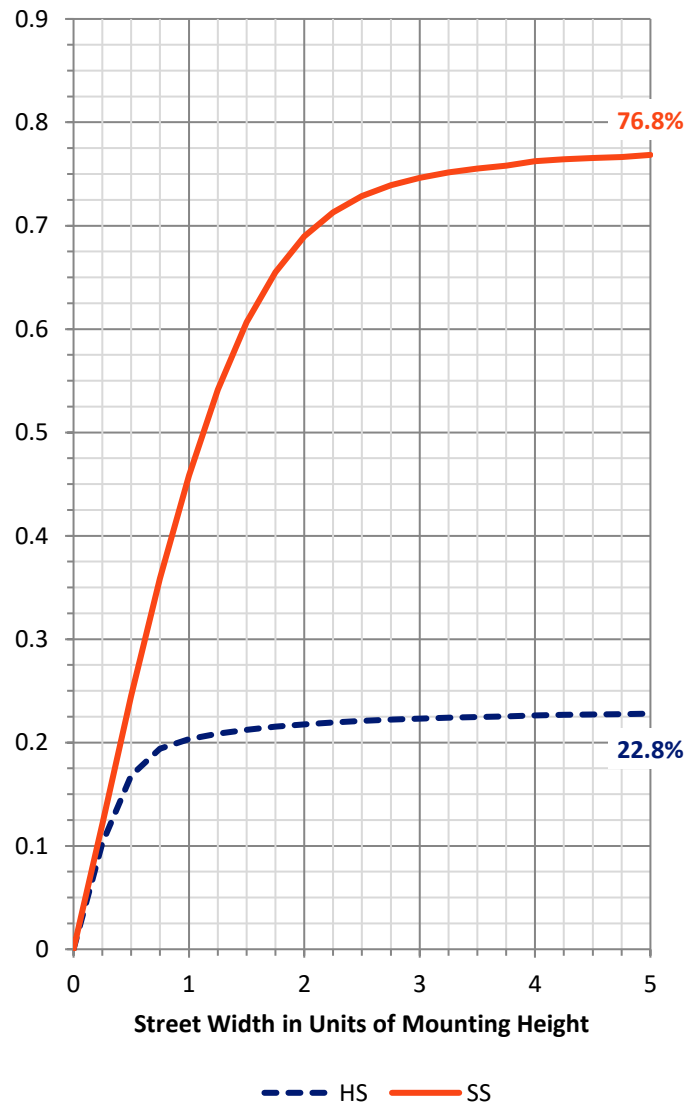
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	982.8	0.0	982.8
	% Fixture	23.1	0.0	23.1
<b>Street Side</b>	Lumens	3276.2	0.0	3276.2
	% Fixture	76.9	0.0	76.9
<b>Total</b>	Lumens	4259.1	0.0	4259.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.3	1.1
10°-20°	158.8	3.7
20°-30°	280.5	6.6
30°-40°	402.6	9.5
40°-50°	611.4	14.4
50°-60°	900.2	21.1
60°-70°	1196.3	28.1
70°-80°	585.3	13.7
80°-90°	77.7	1.8
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°	4259.1	100.0
0°-180°	4259.1	100.0



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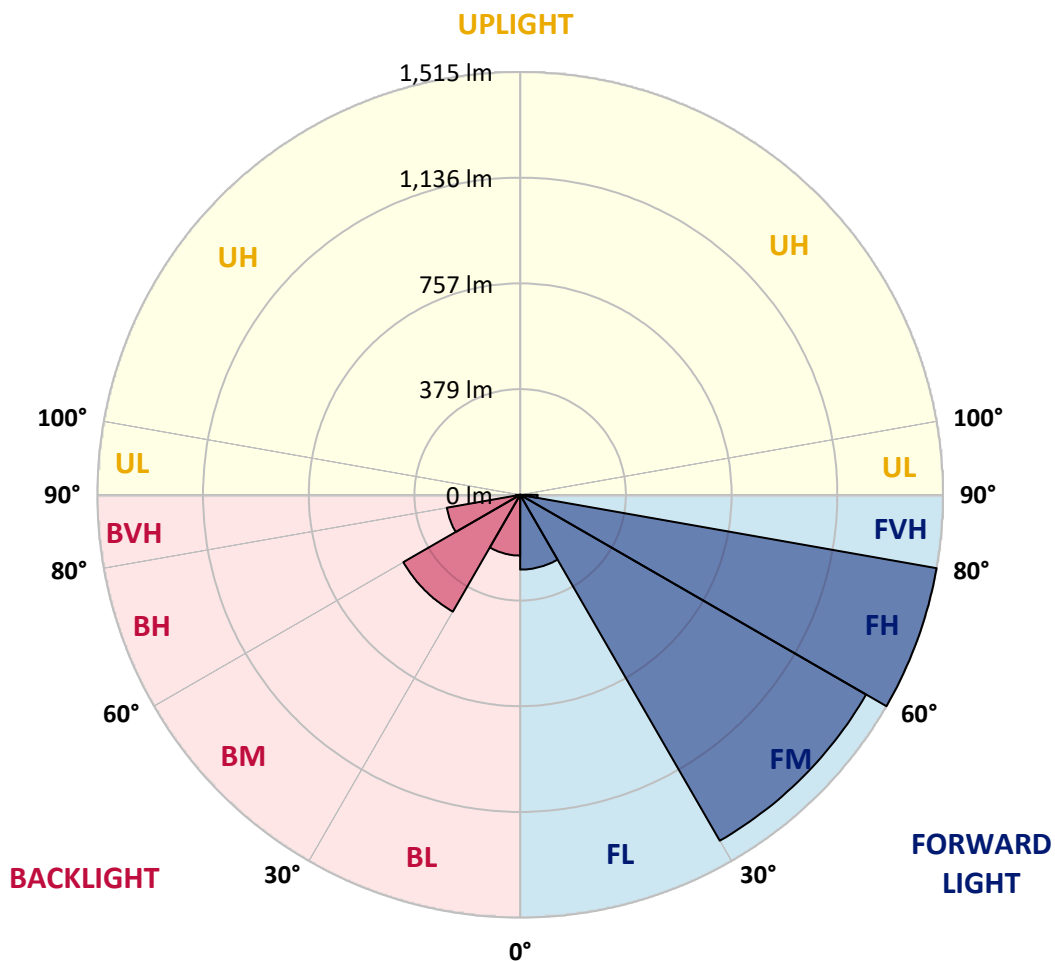
CATALOG NUMBER: ICM-F02-LED-E1-SL3-7030

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	267.9	6.3			
FM	(30°-60°)	1431.0	33.6			
FH	(60°-80°)	1514.9	35.6			G1/1800
FVH	(80°-90°)	62.4	1.5			G1/100
BL	(0°-30°)	217.7	5.1	B1/500		
BM	(30°-60°)	483.2	11.3	B1/1000		
BH	(60°-80°)	266.7	6.3	B1/500		G1/500
BVH	(80°-90°)	15.3	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	465.2	465.2	465.2	465.2	465.2	465.2	465.2	465.2	465.2	465.2	465.2
2.5°	487.3	487.7	486.8	486.3	483.5	480.7	478.8	476.5	476.5	476.5	475.5
5°	514.8	512.9	514.3	511.1	505.5	500.3	495.2	491.0	490.0	490.0	488.2
7.5°	548.0	545.7	544.7	540.1	531.6	524.2	513.9	509.7	507.4	506.4	505.5
10°	588.2	588.2	582.1	574.2	563.0	549.9	538.7	531.2	530.7	530.7	526.5
12.5°	629.4	630.3	622.3	614.4	596.2	578.9	565.8	557.4	556.9	555.1	552.7
15°	667.3	664.9	659.8	648.1	628.0	607.4	591.1	582.6	580.7	578.9	577.5
17.5°	698.6	696.3	689.7	674.7	653.7	629.4	609.3	600.4	599.4	598.5	596.7
20°	718.2	716.4	707.0	689.7	667.7	643.0	621.4	615.4	613.5	613.5	612.6
22.5°	729.5	726.6	713.1	690.1	668.7	650.4	632.7	628.9	627.5	628.0	628.0
25°	735.1	732.7	713.6	680.8	660.3	655.1	647.6	645.3	645.8	646.2	647.2
27.5°	736.0	732.7	710.2	668.7	649.5	664.0	669.1	672.8	672.8	674.7	678.1
30°	729.0	725.2	703.7	659.4	644.8	681.8	702.3	712.2	715.9	715.0	722.4
32.5°	716.8	714.5	697.2	659.4	657.9	716.8	753.3	767.4	769.2	770.1	778.5
35°	712.7	712.2	704.7	681.8	698.6	778.5	834.1	844.9	847.3	847.3	853.4
37.5°	711.7	714.1	722.4	723.8	770.1	870.2	943.2	959.5	959.5	964.2	964.2
40°	711.7	716.8	748.7	786.5	857.6	989.4	1090.4	1109.1	1109.1	1114.2	1111.4
42.5°	739.3	746.8	799.1	871.2	967.9	1112.4	1228.4	1249.4	1250.8	1249.4	1253.6
45°	793.5	800.1	863.6	967.0	1081.6	1244.3	1360.2	1385.5	1380.4	1383.6	1385.0
47.5°	865.5	875.8	948.3	1071.7	1192.4	1366.3	1508.0	1530.9	1529.0	1530.4	1524.4
50°	942.2	952.9	1033.9	1175.5	1302.7	1464.5	1626.8	1660.9	1657.6	1660.0	1663.3
52.5°	1010.1	1016.6	1094.6	1253.6	1386.4	1556.2	1718.0	1760.5	1768.0	1768.9	1771.3
55°	1050.2	1058.1	1129.7	1292.5	1447.2	1646.0	1822.2	1886.7	1901.2	1904.9	1915.3
57.5°	1064.3	1072.7	1137.7	1298.1	1480.4	1730.2	1967.6	2081.2	2093.4	2113.5	2146.2
60°	1063.8	1072.7	1129.2	1285.4	1514.1	1834.3	2194.0	2384.3	2446.0	2466.5	2513.3
62.5°	1020.3	1030.6	1088.1	1247.1	1557.1	1967.6	2530.6	2823.4	2902.8	2940.2	2990.7
65°	924.9	932.4	986.1	1149.8	1544.9	2099.1	2812.1	3177.3	3249.8	3304.5	3394.7
67°	840.3	844.9	887.1	1034.8	1426.1	2103.7	2900.9	3265.2	3328.4	3386.3	3479.4
67.5°	818.8	828.6	861.3	999.7	1381.8	2077.0	2894.9	3251.6	3316.2	3376.5	3474.7
70°	666.3	680.4	696.7	789.8	1086.2	1747.4	2680.3	3016.9	3073.5	3129.6	3266.6
72.5°	411.0	436.3	439.5	498.4	707.0	1207.8	2168.7	2544.2	2586.7	2627.0	2767.3
75°	242.2	246.0	257.7	305.3	414.8	722.0	1455.2	1890.1	1929.3	1948.9	2058.8
77.5°	135.2	138.9	148.7	189.9	318.9	486.3	847.3	1110.5	1134.4	1159.2	1141.4
80°	56.1	61.2	66.0	76.7	149.1	383.9	582.6	706.1	721.5	736.0	754.2
82.5°	27.2	29.0	35.5	40.7	54.2	157.6	456.8	612.1	630.3	651.4	694.0
85°	12.7	14.0	19.6	23.3	26.1	39.7	152.9	297.9	323.1	327.8	336.2
87.5°	0.9	0.9	2.3	3.3	4.7	5.1	15.9	22.4	25.2	22.9	29.0
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):**

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	465.2	465.2	465.2	465.2	465.2	465.2	465.2	465.2	465.2	465.2	465.2
2.5°	475.1	474.6	473.7	473.7	473.2	473.2	473.2	472.3	472.3	472.3	471.8
5°	487.7	487.3	485.9	485.9	484.9	484.9	483.5	483.1	482.0	482.0	481.6
7.5°	504.1	503.6	501.8	501.8	500.3	499.8	498.9	497.5	497.5	496.6	495.6
10°	526.5	525.1	524.7	522.3	522.8	521.9	520.9	519.5	518.6	517.6	516.7
12.5°	551.7	551.7	549.4	548.0	548.9	548.0	546.1	545.7	544.3	544.3	542.9
15°	575.6	575.6	574.7	572.8	573.3	571.9	571.4	570.4	568.6	569.0	568.6
17.5°	596.2	596.2	594.8	593.9	593.9	592.5	592.9	592.0	591.1	590.6	589.2
20°	612.6	612.6	611.6	610.7	611.2	611.2	609.8	609.8	609.8	608.8	608.8
22.5°	628.5	628.9	628.9	628.9	629.4	629.9	629.4	630.3	629.9	630.8	630.8
25°	649.5	650.9	651.8	651.8	654.1	654.6	655.1	656.5	656.5	657.9	658.3
27.5°	680.8	681.8	685.5	686.4	686.9	690.6	691.1	692.9	694.9	695.4	695.8
30°	723.8	726.1	729.0	730.9	730.9	735.5	737.4	736.5	741.6	743.0	744.8
32.5°	781.3	783.3	786.1	787.9	789.8	792.1	792.6	794.9	799.1	802.9	800.6
35°	853.9	858.5	853.9	859.0	860.4	863.6	862.7	865.5	867.4	868.7	868.3
37.5°	959.1	956.7	955.7	953.9	950.6	961.9	956.2	955.7	952.9	960.9	955.7
40°	1097.4	1098.9	1100.3	1092.8	1088.6	1088.6	1087.2	1082.1	1079.6	1086.7	1085.8
42.5°	1242.0	1243.4	1236.8	1232.1	1221.4	1219.9	1213.4	1212.0	1209.7	1213.4	1209.7
45°	1373.3	1374.2	1359.7	1362.1	1353.7	1355.1	1344.8	1349.0	1343.4	1347.2	1354.1
47.5°	1520.2	1522.1	1509.4	1514.5	1506.1	1500.9	1500.5	1503.4	1497.2	1500.9	1502.9
50°	1653.4	1651.1	1644.6	1646.0	1642.2	1643.2	1637.5	1642.7	1635.6	1643.2	1642.2
52.5°	1771.7	1768.9	1767.5	1772.2	1768.9	1768.9	1765.7	1768.0	1768.9	1780.1	1782.4
55°	1915.3	1917.6	1919.9	1928.4	1932.1	1926.1	1932.1	1943.8	1944.3	1970.9	1985.4
57.5°	2145.8	2162.2	2170.6	2175.7	2197.7	2195.4	2209.4	2237.4	2240.3	2302.0	2338.0
60°	2547.9	2576.9	2604.5	2589.5	2634.0	2647.6	2655.9	2708.3	2724.7	2783.1	2814.4
62.5°	3055.7	3059.0	3102.1	3088.5	3113.7	3107.6	3118.0	3141.8	3163.3	3211.5	3241.0
65°	3410.2	3425.6	3442.4	3425.1	3424.7	3404.1	3391.0	3390.5	3403.6	3413.9	3446.6
67°	3506.5	3522.0	3526.2	3513.5	3495.3	3469.1	3444.8	3432.1	3423.7	3428.4	3449.0
67.5°	3505.6	3520.0	3525.2	3513.0	3487.8	3465.8	3440.1	3425.6	3414.3	3416.8	3434.1
70°	3306.3	3337.7	3354.5	3358.3	3355.0	3316.7	3294.7	3281.6	3272.2	3249.3	3247.9
72.5°	2801.3	2839.3	2852.3	2873.4	2882.7	2826.2	2802.3	2816.8	2784.1	2711.6	2714.9
75°	2056.9	2059.7	2015.8	2007.4	1976.1	1847.9	1809.6	1774.5	1718.4	1631.0	1548.7
77.5°	1072.2	1071.7	1021.2	995.5	958.1	880.9	877.2	814.5	770.6	690.6	661.7
80°	761.7	773.9	790.7	799.1	786.1	756.1	715.0	670.5	619.5	569.5	509.7
82.5°	708.4	715.9	724.7	692.0	673.8	631.7	600.4	535.9	499.8	442.8	382.5
85°	344.7	367.5	349.8	329.2	322.1	252.0	243.6	203.4	184.7	152.0	141.7
87.5°	22.0	27.2	24.3	22.0	19.2	10.8	14.5	10.3	10.8	7.9	7.0
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):**

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	465.2	465.2	465.2	465.2	465.2	465.2	465.2	465.2	465.2	465.2	465.2
2.5°	471.8	471.4	470.9	470.4	470.0	470.0	469.5	469.0	468.6	467.6	467.6
5°	480.7	480.7	480.2	479.3	479.3	478.3	476.9	476.5	476.5	475.5	474.6
7.5°	495.2	494.7	493.8	493.3	492.4	491.4	490.5	489.6	489.1	487.7	487.3
10°	517.1	516.2	513.9	512.9	512.5	511.5	510.6	509.7	508.3	507.4	506.9
12.5°	542.0	541.5	539.6	540.6	538.2	537.3	536.4	534.0	534.9	533.0	532.1
15°	566.7	567.2	566.2	566.2	564.4	563.0	562.0	560.2	559.7	558.8	557.9
17.5°	588.7	589.7	588.2	587.3	586.3	585.4	583.5	581.7	581.7	579.8	578.9
20°	608.8	609.8	609.3	608.4	607.0	606.5	605.5	604.1	604.1	603.2	601.8
22.5°	631.7	632.2	632.2	631.7	630.3	630.8	629.9	628.5	628.9	627.1	627.1
25°	659.4	660.3	661.2	661.7	660.7	661.2	660.3	659.4	658.9	659.4	658.9
27.5°	697.2	698.1	700.9	698.6	700.9	701.4	700.0	698.1	699.5	701.9	700.5
30°	747.3	746.2	750.1	750.5	750.1	750.5	749.6	748.2	749.1	753.3	751.0
32.5°	803.4	805.2	806.1	807.1	808.5	810.3	808.9	807.5	809.9	808.5	811.7
35°	871.2	875.4	876.7	875.4	876.3	879.5	879.1	879.5	884.2	879.5	885.6
37.5°	956.7	960.9	964.2	962.3	964.7	964.7	968.4	978.7	972.1	980.6	987.1
40°	1081.1	1087.6	1088.1	1087.6	1090.0	1092.8	1096.5	1107.7	1100.3	1109.1	1115.2
42.5°	1209.2	1217.1	1219.9	1215.3	1220.4	1226.5	1227.0	1236.8	1237.2	1238.7	1242.0
45°	1353.7	1360.7	1366.3	1364.0	1364.5	1372.4	1370.5	1379.9	1372.8	1372.8	1374.7
47.5°	1507.5	1514.1	1517.8	1521.6	1516.8	1523.9	1527.2	1525.3	1516.8	1515.0	1503.8
50°	1647.8	1653.4	1659.0	1669.3	1668.8	1672.1	1674.4	1666.1	1664.2	1653.9	1641.2
52.5°	1796.5	1811.0	1823.6	1845.1	1848.4	1859.6	1855.5	1841.4	1839.1	1822.2	1805.4
55°	2003.6	2045.2	2063.5	2096.7	2119.2	2118.7	2109.3	2107.0	2089.2	2055.5	2035.5
57.5°	2364.2	2429.1	2460.5	2503.6	2510.5	2506.3	2494.2	2472.7	2441.8	2385.2	2348.8
60°	2884.6	2924.9	2961.3	2971.6	2976.7	2968.8	2926.3	2878.5	2818.2	2740.1	2675.1
62.5°	3277.9	3319.0	3346.2	3341.9	3309.6	3269.0	3206.8	3126.8	3042.2	2954.7	2857.5
65°	3478.0	3495.3	3491.1	3458.3	3403.2	3332.1	3241.4	3142.7	3043.1	2939.7	2838.8
67°	3467.2	3467.6	3439.2	3375.6	3305.0	3215.6	3104.9	2997.3	2880.4	2771.9	2651.7
67.5°	3448.0	3446.2	3406.4	3336.8	3260.6	3168.4	3053.4	2942.2	2821.0	2711.6	2587.2
70°	3231.1	3204.9	3115.1	3003.8	2897.7	2773.3	2652.7	2525.0	2388.5	2294.5	2151.4
72.5°	2655.0	2566.6	2411.8	2295.5	2181.8	2019.1	1943.8	1785.3	1689.4	1629.6	1521.6
75°	1537.5	1463.5	1343.9	1234.9	1179.7	1083.4	1037.6	921.1	896.8	895.9	858.5
77.5°	586.8	512.0	434.9	350.2	297.9	236.6	208.6	186.6	169.8	181.4	164.6
80°	440.0	362.0	282.9	205.8	146.8	108.5	93.0	86.0	81.9	78.5	76.2
82.5°	327.8	258.6	200.6	130.9	91.6	69.2	59.8	56.1	54.2	51.0	48.2
85°	110.8	88.8	70.1	48.7	38.3	31.3	29.0	28.1	26.7	24.3	22.9
87.5°	6.0	5.6	6.0	4.7	5.6	4.7	5.1	5.1	5.1	4.7	4.7
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):**

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	465.2	465.2	465.2	465.2	465.2	465.2	465.2	465.2	465.2	465.2	465.2
2.5°	467.2	467.2	467.2	466.2	464.7	462.0	459.2	456.8	454.5	453.1	452.2
5°	474.1	473.2	472.7	472.3	469.0	463.4	458.2	453.6	448.9	445.1	443.7
7.5°	486.8	484.9	484.5	483.1	478.8	470.4	462.9	455.4	448.9	443.7	441.4
10°	506.0	506.0	503.2	501.3	496.6	485.4	474.6	464.7	455.9	450.3	448.9
12.5°	530.2	530.2	527.9	526.5	520.9	506.4	493.3	481.6	473.2	467.6	467.2
15°	555.5	555.1	553.1	551.3	545.2	529.8	516.7	506.4	499.4	492.8	491.0
17.5°	578.0	578.0	575.6	573.8	567.6	554.6	542.9	535.4	527.4	513.9	503.6
20°	600.4	600.8	599.0	597.1	592.0	580.7	575.6	568.1	550.3	520.9	496.6
22.5°	625.2	627.1	624.7	622.8	618.6	614.0	612.1	594.3	556.9	509.7	474.1
25°	656.9	660.3	657.4	656.5	654.1	655.5	650.0	608.8	547.5	485.4	440.9
27.5°	700.5	700.5	700.9	700.9	700.0	705.1	684.6	609.3	527.0	454.0	401.2
30°	751.4	754.2	753.3	753.3	757.0	760.3	703.7	599.0	500.8	415.3	352.6
32.5°	812.7	815.0	815.9	811.7	826.7	809.9	710.7	580.3	468.6	367.1	294.6
35°	886.5	889.9	892.2	892.7	902.4	852.9	707.0	552.7	422.2	306.7	231.0
37.5°	982.9	989.4	994.6	996.9	997.4	889.4	696.7	516.2	362.0	239.4	172.1
40°	1111.0	1118.1	1116.7	1121.3	1094.6	910.9	673.3	463.4	287.1	175.8	132.8
42.5°	1234.4	1235.4	1237.2	1233.0	1178.8	922.1	640.6	398.9	215.1	131.3	113.6
45°	1372.4	1364.5	1355.5	1349.0	1256.5	926.3	595.7	320.3	152.0	110.3	105.2
47.5°	1502.0	1491.2	1472.9	1454.2	1325.6	919.7	538.2	239.9	115.5	101.0	99.6
50°	1629.1	1609.0	1583.3	1561.8	1392.0	910.0	474.6	173.0	101.0	96.3	94.9
52.5°	1786.7	1753.0	1719.4	1691.3	1478.5	894.5	407.7	131.3	94.9	92.6	90.7
55°	2002.7	1955.9	1901.7	1862.4	1595.9	871.2	337.6	111.3	92.1	90.2	87.4
57.5°	2302.0	2231.8	2170.6	2106.5	1756.3	847.3	277.3	103.3	91.6	88.8	85.1
60°	2607.7	2523.6	2445.5	2353.9	1919.9	823.4	235.2	102.4	93.0	88.8	83.3
62.5°	2766.8	2679.8	2585.8	2492.8	1990.5	767.4	206.2	103.8	96.3	90.2	83.3
65°	2730.2	2624.1	2528.8	2433.9	1908.8	661.2	174.4	105.7	102.9	95.8	84.7
67°	2547.0	2436.2	2344.5	2253.8	1726.3	553.7	149.7	107.5	109.9	102.4	87.4
67.5°	2482.4	2371.6	2281.4	2193.0	1672.6	531.2	143.5	108.5	111.3	104.3	88.4
70°	2058.3	1977.0	1881.1	1812.8	1354.1	393.2	117.9	110.3	119.7	115.1	92.6
72.5°	1481.3	1403.7	1331.7	1293.9	997.4	275.0	99.2	108.5	124.8	121.1	94.4
75°	787.4	782.8	756.6	775.3	617.2	179.5	87.4	101.5	119.3	110.8	87.9
77.5°	159.0	163.6	192.2	189.4	199.2	100.1	74.8	87.0	92.1	81.4	71.5
80°	73.9	72.5	71.1	72.0	70.6	64.1	60.7	68.3	64.1	52.4	47.7
82.5°	45.9	44.9	43.4	43.0	47.7	51.0	53.3	53.8	42.5	36.5	35.1
85°	22.0	22.0	21.5	22.4	28.1	41.6	44.9	39.7	28.6	26.1	24.7
87.5°	4.2	4.2	4.7	4.2	5.6	9.9	11.3	13.1	10.8	11.3	12.7
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°	175°	180°
0°	465.2	465.2	465.2
2.5°	451.3	450.3	450.3
5°	441.9	441.4	441.4
7.5°	439.5	440.0	439.5
10°	448.5	448.0	449.9
12.5°	468.1	469.5	469.0
15°	488.7	489.6	489.6
17.5°	494.7	491.4	491.0
20°	478.8	472.7	471.4
22.5°	448.9	437.7	438.1
25°	411.0	397.5	398.4
27.5°	367.1	352.6	352.1
30°	314.2	298.3	290.4
32.5°	250.6	231.4	231.4
35°	188.5	173.0	167.4
37.5°	143.1	134.2	131.3
40°	119.3	115.1	114.0
42.5°	108.5	107.1	106.6
45°	102.9	102.0	101.5
47.5°	97.8	97.3	96.8
50°	94.0	93.5	93.0
52.5°	90.7	89.8	89.3
55°	86.0	86.0	86.0
57.5°	83.3	83.3	82.8
60°	80.5	80.0	80.0
62.5°	78.0	77.1	77.6
65°	76.7	75.3	75.3
67°	75.7	72.9	72.9
67.5°	75.7	72.0	72.0
70°	74.3	68.3	67.3
72.5°	72.9	64.1	62.7
75°	69.2	60.7	59.3
77.5°	59.3	54.2	53.3
80°	45.9	39.7	40.7
82.5°	33.2	28.6	28.1
85°	23.8	20.6	20.6
87.5°	12.7	10.8	11.3
90°	0.0	0.0	0.0

(END OF REPORT)