

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: P181428

Luminaire Tested: **ICM-E02-LED-E1-T3-7030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P181428  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33672)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ICM-E02-LED-E1-T3-7030  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3  
Light Source: (42) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5240.4 lumens  
Efficiency: N/A  
Efficacy: 100.6 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: B2 - U0 - G2

Input Watts (W): 52.1  
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

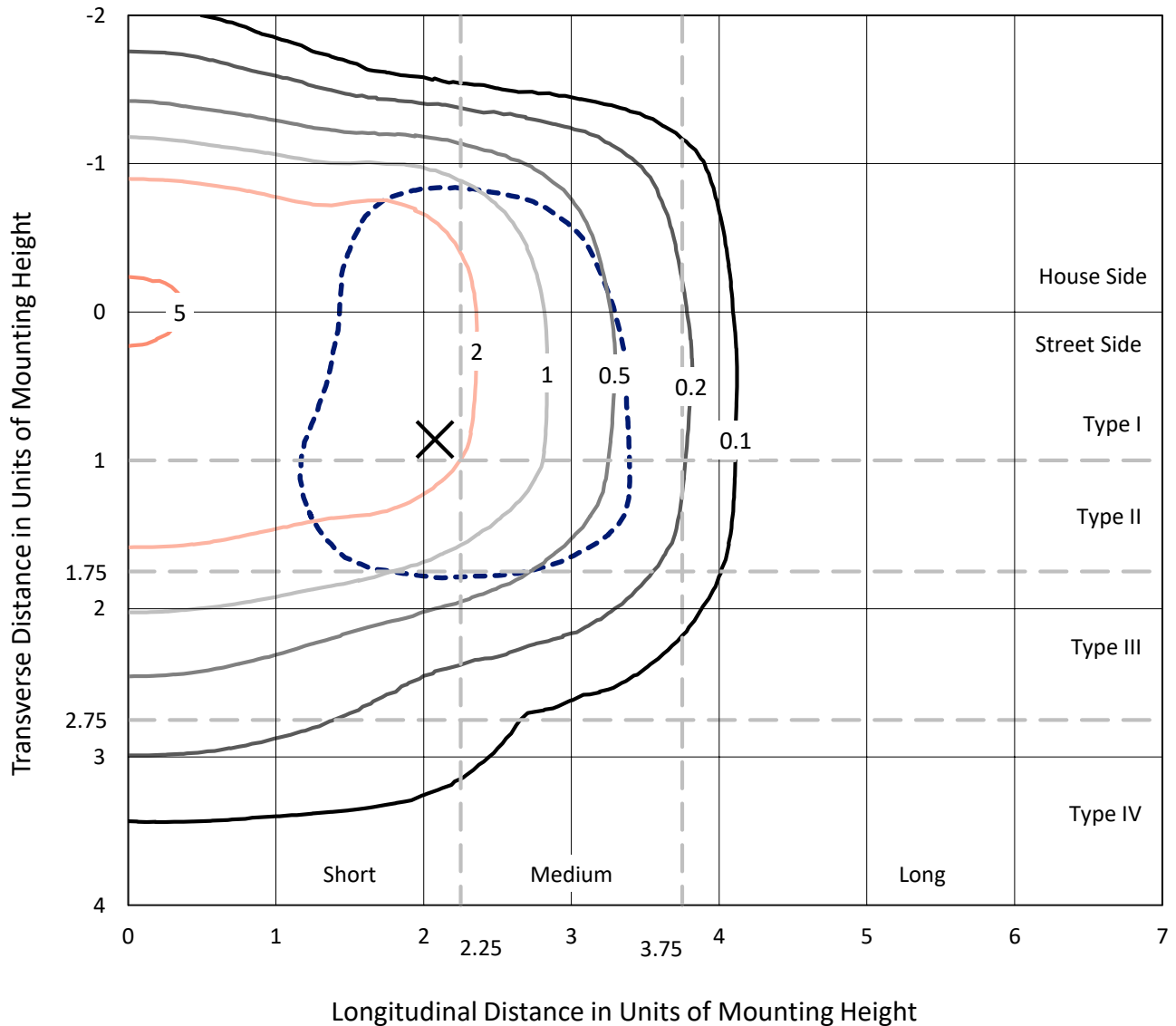


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

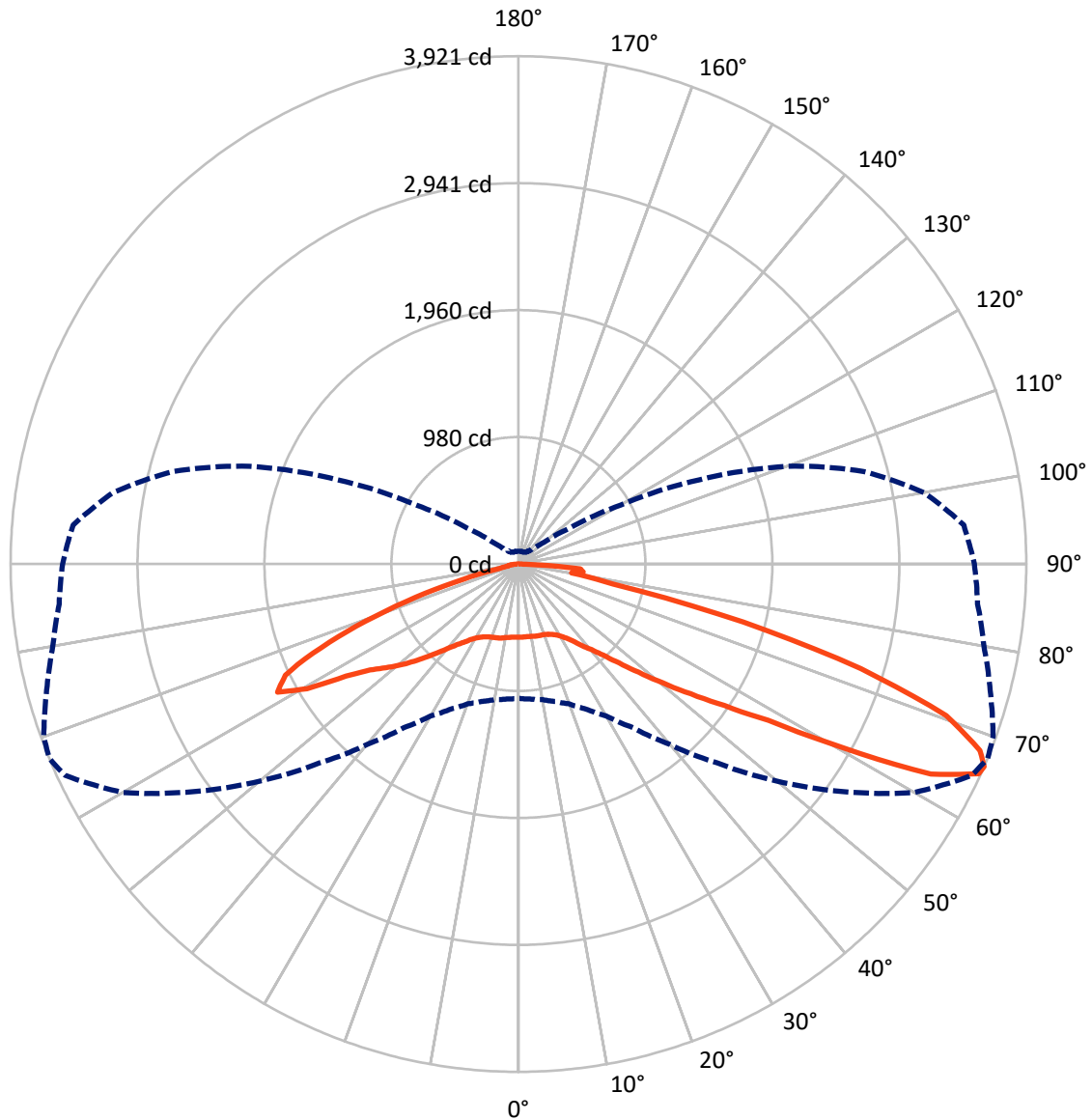


Based on 10 foot mounting height. Maximum calculated value = 5.6 fc  
 Type III - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1809.7	0.0	1809.7
	% Fixture	34.5	0.0	34.5
<b>Street Side</b>	Lumens	3430.7	0.0	3430.7
	% Fixture	65.5	0.0	65.5
<b>Total</b>	Lumens	5240.4	0.0	5240.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.1	1.0
10°-20°	159.6	3.0
20°-30°	274.4	5.2
30°-40°	445.5	8.5
40°-50°	743.7	14.2
50°-60°	1171.1	22.3
60°-70°	1596.9	30.5
70°-80°	691.3	13.2
80°-90°	103.9	2.0
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°	5240.4	100.0
0°-180°	5240.4	100.0



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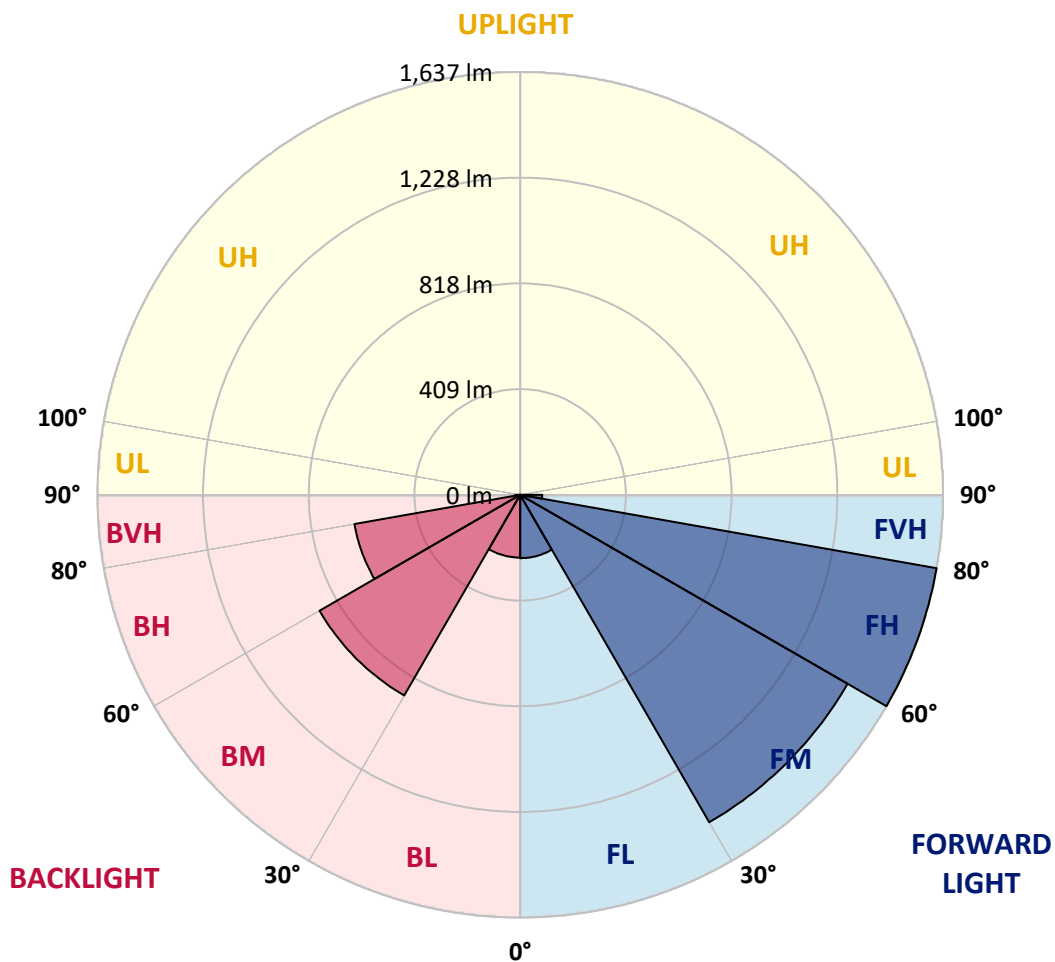
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	245.2	4.7			
FM	(30°-60°)	1463.5	27.9			
FH	(60°-80°)	1636.8	31.2			G1/1800
FVH	(80°-90°)	85.3	1.6			G1/100
BL	(0°-30°)	242.9	4.6	B1/500		
BM	(30°-60°)	896.8	17.1	B1/1000		
BH	(60°-80°)	651.4	12.4	B2/1000		G2/1000
BVH	(80°-90°)	18.6	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	564.7	564.7	564.7	564.7	564.7	564.7	564.7	564.7	564.7	564.7	564.7
2.5°	567.0	569.2	567.0	567.5	568.1	567.5	567.0	567.0	565.3	566.4	567.5
5°	564.7	566.4	565.9	566.4	567.0	566.4	565.9	566.4	565.3	565.9	567.5
7.5°	561.9	561.3	561.9	563.0	564.2	564.2	564.2	564.7	564.2	564.2	565.9
10°	553.4	554.0	555.1	556.7	557.4	559.1	559.1	560.7	561.3	562.4	564.7
12.5°	542.6	543.2	544.4	545.5	548.3	551.2	551.2	555.1	556.7	559.6	563.6
15°	534.7	535.3	536.4	537.5	539.8	542.6	544.4	548.8	551.7	556.7	562.4
17.5°	539.3	538.7	539.8	540.4	540.4	542.6	542.6	546.0	549.4	554.0	561.3
20°	552.3	552.3	553.4	553.4	552.8	554.0	551.7	551.7	552.3	554.5	559.6
22.5°	565.3	564.7	567.0	568.1	568.7	570.4	568.1	567.5	564.7	563.0	564.7
25°	577.8	577.2	580.0	581.7	584.6	586.2	586.2	586.2	584.0	581.1	579.4
27.5°	597.0	597.0	599.8	601.6	603.8	607.2	608.9	608.9	609.5	605.5	602.7
30°	629.3	629.9	630.4	632.7	635.0	636.1	638.3	640.1	641.8	639.4	635.0
32.5°	667.8	664.4	664.4	667.8	670.6	674.1	675.2	677.4	680.8	679.2	678.6
35°	713.7	712.6	711.4	712.6	715.9	719.9	724.5	728.4	726.1	729.6	727.8
37.5°	781.7	782.8	783.4	783.4	782.8	783.9	786.2	790.1	789.0	790.1	792.5
40°	893.8	889.9	885.9	886.4	880.7	882.0	872.8	876.8	877.4	873.4	875.2
42.5°	1006.0	1008.2	1010.0	1014.4	1010.5	1008.2	999.7	999.7	995.2	991.3	990.1
45°	1127.2	1131.7	1132.3	1141.3	1138.0	1145.3	1151.5	1149.9	1142.5	1141.9	1134.0
47.5°	1224.0	1231.4	1239.4	1250.1	1258.6	1275.0	1294.2	1303.9	1309.6	1314.1	1305.0
50°	1296.6	1299.9	1320.3	1337.3	1356.0	1383.2	1409.9	1444.4	1472.1	1485.1	1497.6
52.5°	1335.6	1344.1	1366.2	1392.8	1425.7	1466.4	1509.5	1564.5	1612.0	1643.7	1672.1
55°	1344.1	1352.7	1377.5	1411.5	1456.3	1511.2	1572.9	1647.7	1719.1	1780.3	1839.7
57.5°	1320.3	1330.0	1356.6	1395.6	1448.4	1515.2	1592.8	1690.8	1789.3	1888.5	1976.3
60°	1276.8	1288.6	1312.9	1351.5	1409.9	1485.1	1578.1	1700.9	1839.2	1991.0	2159.2
62.5°	1204.8	1217.2	1239.9	1282.4	1342.4	1425.7	1533.3	1686.2	1881.7	2120.7	2419.2
65°	1089.2	1094.9	1122.6	1165.7	1219.0	1310.7	1429.1	1613.8	1868.1	2200.6	2611.7
66°	1037.1	1046.7	1063.7	1098.3	1149.3	1235.4	1354.3	1541.8	1816.5	2172.8	2606.7
67.5°	955.5	962.9	974.2	997.5	1028.7	1092.1	1204.8	1382.1	1659.1	2032.3	2498.5
70°	772.6	776.0	791.3	799.3	810.0	831.0	871.7	973.7	1189.5	1540.1	2016.5
72.5°	526.8	536.4	552.8	575.4	604.9	633.3	652.6	665.6	712.0	918.7	1343.5
75°	386.3	396.5	417.5	447.4	499.0	558.0	619.1	647.4	628.2	601.6	748.3
77.5°	224.3	237.9	255.4	284.4	331.9	410.0	514.9	607.7	670.6	674.6	640.7
80°	94.6	96.3	107.1	121.8	151.3	206.1	287.7	421.4	560.7	654.8	676.8
82.5°	21.5	26.6	34.0	40.2	49.3	68.0	100.8	167.6	303.1	475.3	619.6
85°	7.9	7.9	10.8	15.8	18.1	20.4	26.6	42.5	72.5	133.7	278.7
87.5°	0.0	0.6	1.1	1.1	2.2	2.8	4.6	6.2	5.7	5.1	17.0
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):**

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	564.7	564.7	564.7	564.7	564.7	564.7	564.7	564.7	564.7	564.7	564.7
2.5°	566.4	565.9	564.7	564.7	564.7	564.7	563.6	564.2	563.0	563.6	563.6
5°	565.9	565.9	565.3	564.2	564.7	564.7	565.3	564.2	564.2	564.7	564.2
7.5°	565.9	565.3	565.3	565.3	565.9	565.3	565.9	565.9	565.9	566.4	566.4
10°	565.9	565.9	567.0	567.5	567.5	568.1	569.9	569.9	570.4	571.0	572.1
12.5°	566.4	568.7	570.4	572.1	572.7	573.8	576.7	576.7	577.8	579.4	580.0
15°	567.0	570.4	573.8	574.9	576.1	578.3	581.1	582.2	584.0	585.7	586.8
17.5°	566.4	571.0	574.9	576.7	578.3	581.1	584.6	585.7	587.9	590.2	592.5
20°	565.9	572.1	578.3	580.6	582.9	586.8	591.4	594.1	596.5	599.8	602.1
22.5°	569.2	576.7	585.1	588.5	592.5	597.6	603.8	607.2	610.1	613.4	615.2
25°	580.0	585.7	595.9	601.6	606.6	615.2	623.6	627.6	631.0	633.9	634.4
27.5°	598.1	599.8	612.3	619.6	627.1	640.7	650.8	653.7	659.9	662.1	661.6
30°	627.6	624.7	635.0	646.3	657.0	675.7	688.2	695.5	701.2	701.2	696.7
32.5°	670.1	665.6	668.4	681.4	693.9	721.0	735.8	745.4	749.4	748.3	738.6
35°	725.6	722.8	721.0	731.3	751.1	782.8	802.1	807.2	813.4	812.3	799.8
37.5°	791.3	789.0	789.0	800.9	820.2	867.2	888.2	891.5	891.0	882.0	858.7
40°	868.9	867.7	862.7	869.5	885.9	947.1	975.4	979.9	973.7	959.0	931.7
42.5°	980.5	973.7	957.9	961.8	974.2	1033.7	1070.5	1083.0	1076.8	1062.1	1017.9
45°	1126.1	1118.7	1092.1	1088.7	1095.4	1147.5	1195.2	1198.0	1196.8	1178.1	1126.1
47.5°	1297.1	1285.8	1257.5	1248.4	1246.1	1294.2	1340.2	1344.7	1341.9	1314.1	1244.5
50°	1482.3	1465.9	1447.2	1440.9	1431.9	1466.4	1512.9	1513.5	1502.1	1463.6	1398.5
52.5°	1680.0	1674.3	1671.0	1664.8	1660.8	1690.8	1719.1	1702.1	1685.1	1644.8	1588.3
55°	1879.4	1902.6	1926.4	1928.7	1935.5	1967.7	1967.2	1920.8	1908.3	1886.2	1830.2
57.5°	2091.3	2177.3	2252.1	2275.4	2298.0	2358.1	2352.4	2306.4	2290.6	2263.5	2216.9
60°	2379.5	2611.7	2827.6	2879.1	2914.8	2986.7	2979.9	2909.1	2942.0	2939.7	2879.6
62.5°	2783.4	3169.7	3493.1	3572.4	3597.3	3605.2	3562.3	3485.8	3518.1	3554.3	3369.6
65°	3056.9	3511.3	3843.2	3904.3	3907.7	3813.1	3717.4	3627.4	3619.5	3588.3	3324.3
66°	3063.2	3528.2	3861.3	3920.8	3899.8	3770.6	3649.4	3558.8	3519.7	3451.2	3177.6
67.5°	2953.3	3422.3	3780.9	3843.7	3797.9	3614.9	3447.8	3331.1	3254.6	3143.6	2902.3
70°	2480.4	2945.4	3387.2	3504.5	3519.2	3246.2	3014.5	2877.4	2774.3	2622.0	2414.1
72.5°	1844.3	2264.6	2654.2	2766.4	2823.6	2605.5	2410.2	2305.9	2164.9	2004.6	1856.8
75°	1156.1	1452.8	1714.0	1792.8	1738.9	1570.1	1452.8	1409.2	1270.5	1174.8	1107.4
77.5°	661.0	753.9	774.9	744.8	681.4	521.7	371.0	274.7	238.4	263.9	291.2
80°	645.1	591.4	471.3	414.6	375.5	258.3	151.8	104.2	86.7	88.9	96.3
82.5°	699.0	750.0	617.4	503.5	422.5	285.5	157.5	83.8	56.7	66.9	75.3
85°	454.2	632.1	569.2	479.7	388.6	244.1	129.7	43.6	28.9	38.0	52.1
87.5°	45.9	50.4	43.1	58.3	43.6	20.4	10.2	6.2	5.7	6.8	10.2
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):**

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	564.7	564.7	564.7	564.7	564.7	564.7	564.7	564.7	564.7	564.7	564.7
2.5°	564.2	564.2	564.7	565.3	565.9	566.4	566.4	566.4	566.4	567.5	567.0
5°	565.3	566.4	567.5	568.1	569.2	569.2	571.0	570.4	570.4	572.1	572.7
7.5°	567.5	569.2	571.5	571.0	573.2	572.7	573.8	573.8	572.1	572.7	571.5
10°	572.7	574.9	576.1	574.3	574.9	572.7	572.1	569.2	565.9	564.2	561.9
12.5°	581.1	583.4	583.4	580.6	577.2	572.1	568.1	561.9	556.7	554.0	551.2
15°	588.5	590.8	590.2	585.7	580.6	572.7	567.0	559.6	552.3	547.7	544.9
17.5°	594.1	595.4	593.6	587.4	581.7	574.3	568.7	560.7	552.3	546.6	541.5
20°	602.7	601.6	597.6	589.7	583.4	576.7	572.1	565.3	555.6	548.3	540.9
22.5°	615.2	610.6	603.3	594.7	588.5	582.2	577.8	570.4	560.7	551.7	543.2
25°	631.5	622.5	612.3	603.3	597.6	590.8	585.7	577.8	567.5	557.4	547.2
27.5°	655.4	639.4	626.4	618.5	612.3	603.8	597.6	587.4	576.7	564.7	553.4
30°	682.0	660.5	648.0	641.8	635.0	625.9	616.3	603.3	590.8	577.8	564.2
32.5°	716.6	690.4	678.6	672.4	663.3	651.9	640.7	625.9	608.4	591.4	574.9
35°	761.9	735.3	722.8	713.1	700.7	686.0	669.5	649.7	625.9	603.3	582.2
37.5°	810.5	781.7	769.8	759.5	740.8	721.6	698.4	669.5	637.2	607.2	581.1
40°	872.3	845.7	830.3	812.8	790.7	757.3	721.0	679.2	637.8	600.9	570.4
42.5°	950.4	923.8	901.2	873.4	834.9	783.4	731.8	677.4	627.6	585.7	552.8
45°	1054.1	1021.9	982.7	934.1	871.7	799.8	732.4	666.7	608.4	561.9	526.8
47.5°	1181.0	1131.7	1067.7	985.6	896.1	804.3	723.4	645.1	578.3	527.9	488.8
50°	1331.6	1254.1	1148.7	1028.1	908.6	797.5	700.7	612.8	535.8	482.0	435.5
52.5°	1503.8	1376.9	1221.8	1058.6	908.0	774.9	662.1	564.2	480.3	420.3	376.1
55°	1706.1	1517.4	1297.1	1081.3	892.1	732.9	603.3	495.6	411.8	356.3	315.5
57.5°	2002.3	1745.1	1428.5	1116.4	860.4	668.4	523.4	413.5	339.8	287.2	252.7
60°	2543.8	2125.2	1665.3	1187.3	811.7	573.8	430.0	325.7	263.9	221.5	198.2
62.5°	2951.6	2419.2	1793.3	1171.4	713.7	457.1	318.9	237.3	194.3	165.4	150.7
65°	2893.3	2328.0	1656.8	1008.8	559.6	322.3	211.8	161.4	133.7	120.1	111.6
66°	2761.3	2209.0	1538.4	908.0	483.7	267.9	174.4	135.3	115.0	105.4	99.7
67.5°	2511.0	1988.1	1326.5	744.3	371.5	194.3	131.4	107.1	93.5	89.5	85.5
70°	2087.3	1585.4	931.2	433.3	189.8	108.2	83.3	74.8	71.3	70.8	69.7
72.5°	1599.5	1122.1	548.3	205.0	98.5	71.9	64.6	61.8	60.7	60.7	61.2
75°	980.5	630.4	242.4	100.3	69.1	60.7	57.2	56.1	55.5	56.1	55.5
77.5°	327.4	200.6	103.6	75.9	62.9	56.1	53.8	52.7	52.7	52.7	52.7
80°	100.3	87.3	79.3	70.2	59.4	53.2	49.9	49.3	49.9	50.4	48.7
82.5°	75.3	71.3	66.9	62.3	53.8	47.5	46.4	46.4	46.4	44.7	42.5
85°	55.5	55.0	45.3	42.5	39.6	39.6	39.6	39.6	38.0	35.2	32.8
87.5°	10.2	9.7	10.2	10.8	15.8	17.0	17.0	18.1	19.8	18.7	18.7
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):**

	160°	165°	170°	175°	180°
0°	564.7	564.7	564.7	564.7	564.7
2.5°	567.0	566.4	568.1	567.0	567.5
5°	572.1	571.5	572.7	571.5	573.2
7.5°	570.4	569.2	568.7	569.2	569.9
10°	558.5	557.4	556.7	556.2	556.7
12.5°	548.3	546.0	546.0	544.9	545.5
15°	540.9	539.3	538.7	537.5	538.1
17.5°	537.5	534.7	533.6	532.5	532.5
20°	535.3	531.9	530.1	529.0	528.5
22.5°	535.3	530.1	527.9	526.8	526.2
25°	537.5	531.3	527.9	526.2	525.7
27.5°	542.0	534.1	530.1	527.9	527.9
30°	550.0	539.8	534.1	531.3	530.7
32.5°	558.0	544.4	536.4	533.0	531.9
35°	561.9	544.4	534.7	529.0	527.9
37.5°	557.4	536.9	525.1	516.6	514.9
40°	543.2	521.7	508.7	500.7	499.5
42.5°	524.5	503.5	488.3	482.6	480.9
45°	499.0	474.0	458.8	450.9	451.4
47.5°	455.4	430.0	416.3	408.9	410.0
50°	403.8	379.0	367.1	359.1	360.8
52.5°	347.3	324.6	313.2	309.3	308.1
55°	287.7	270.1	262.2	257.7	256.0
57.5°	233.4	220.9	215.3	209.6	210.1
60°	184.1	177.9	176.2	170.0	169.4
62.5°	145.0	141.0	139.3	134.8	135.3
65°	109.9	108.7	109.9	107.1	108.2
66°	99.2	99.7	99.7	98.0	99.2
67.5°	85.5	86.7	88.4	86.7	87.8
70°	70.8	71.9	73.0	73.0	73.0
72.5°	61.8	62.9	63.4	63.4	63.4
75°	56.7	57.2	57.8	56.7	56.7
77.5°	53.2	53.2	52.1	51.5	51.0
80°	48.2	47.5	45.9	44.7	44.7
82.5°	40.2	39.1	38.0	36.3	36.3
85°	30.6	29.5	28.3	26.0	24.9
87.5°	15.8	16.5	15.8	13.0	11.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)