

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: P181448

Luminaire Tested: **ICM-E04-LED-E1-T3-7030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P181448  
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-E04-LED-E1-T3-7030  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 3  
Light Source: (84) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10480.8 lumens  
Efficiency: N/A  
Efficacy: 107.8 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')  
IES Classification: Type III - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G3

Input Watts (W): 97.2  
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

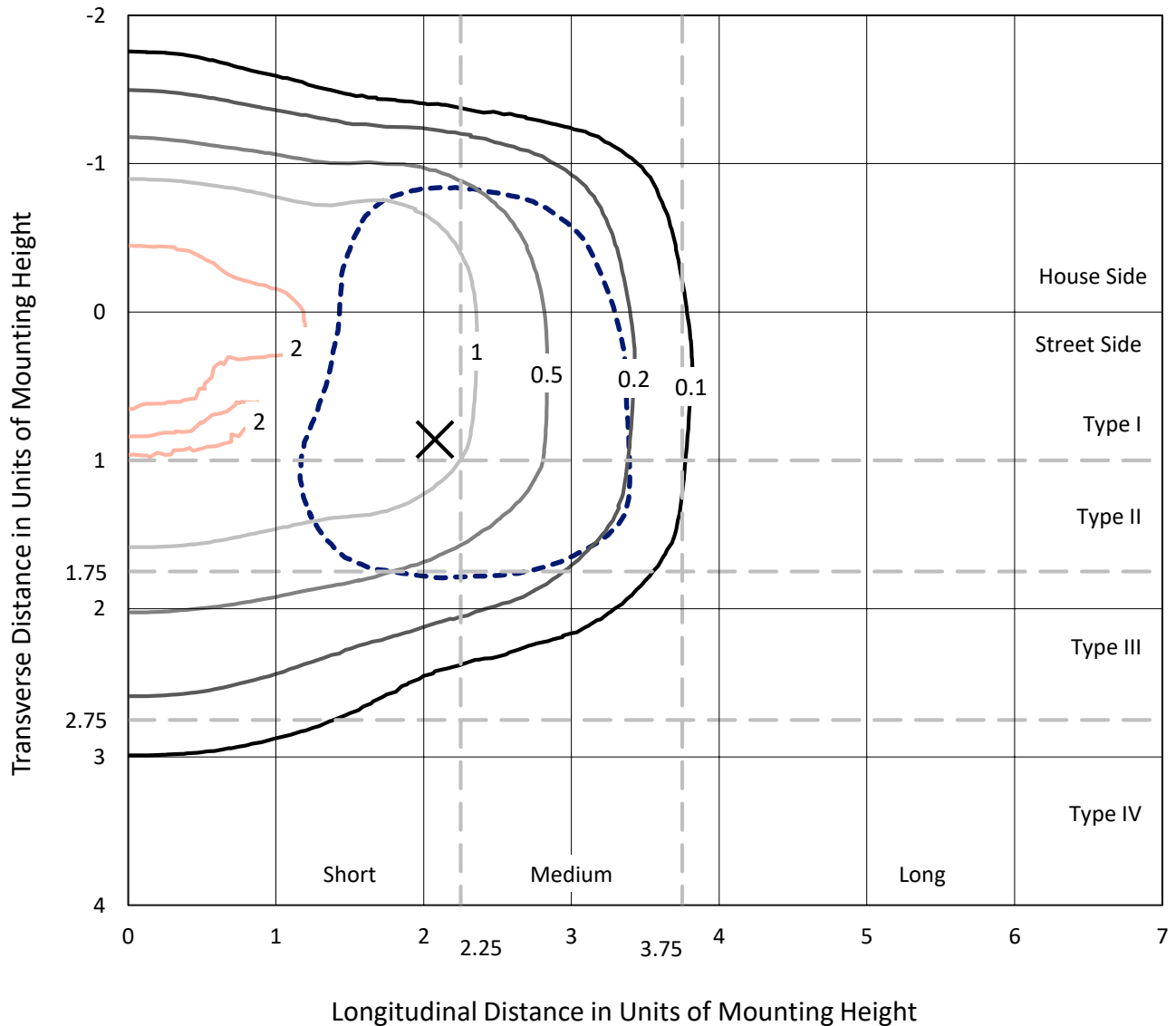


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

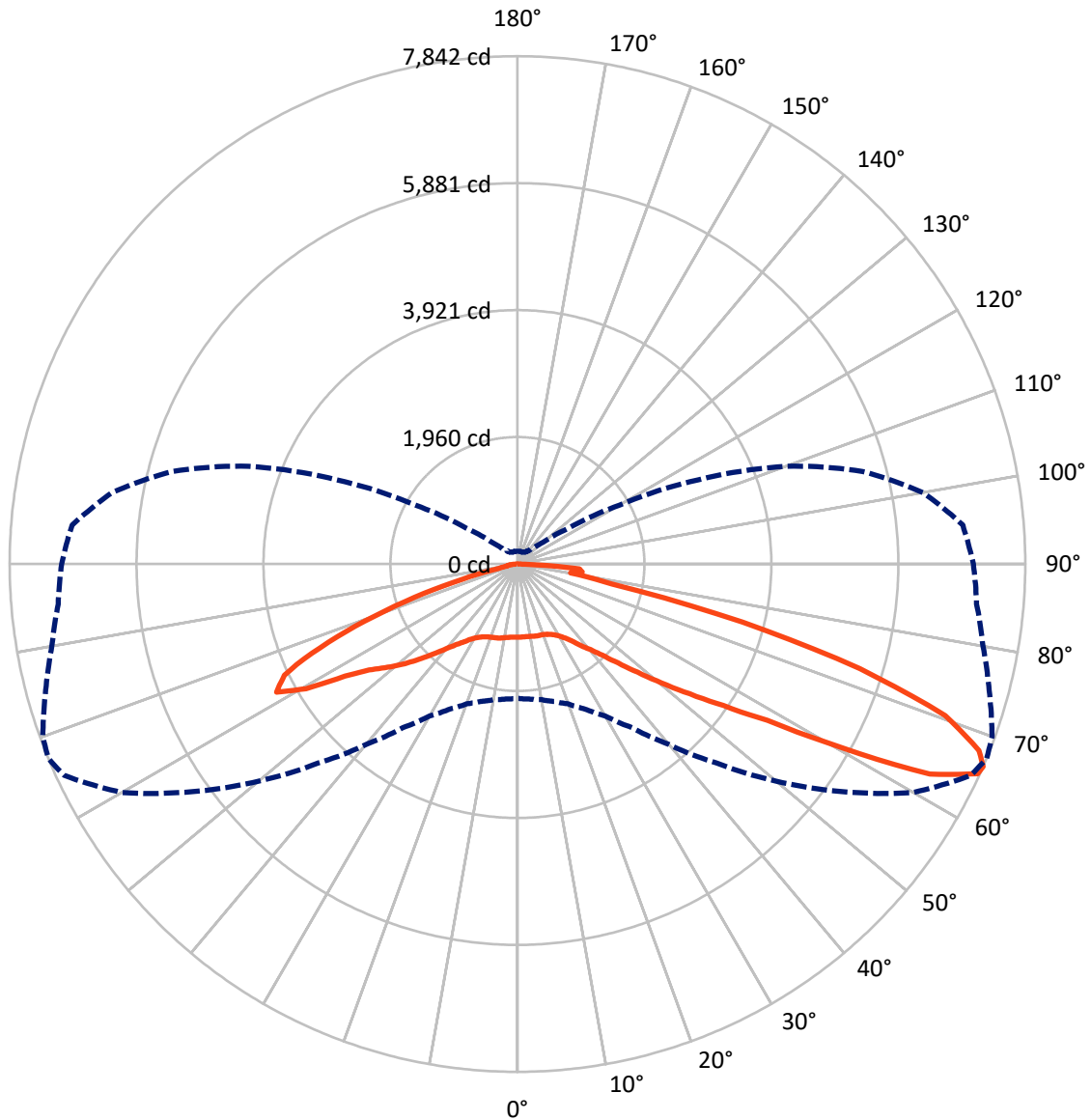


Based on 20 foot mounting height. Maximum calculated value = 2.8 fc  
 Type III - Short - Semi-Cutoff

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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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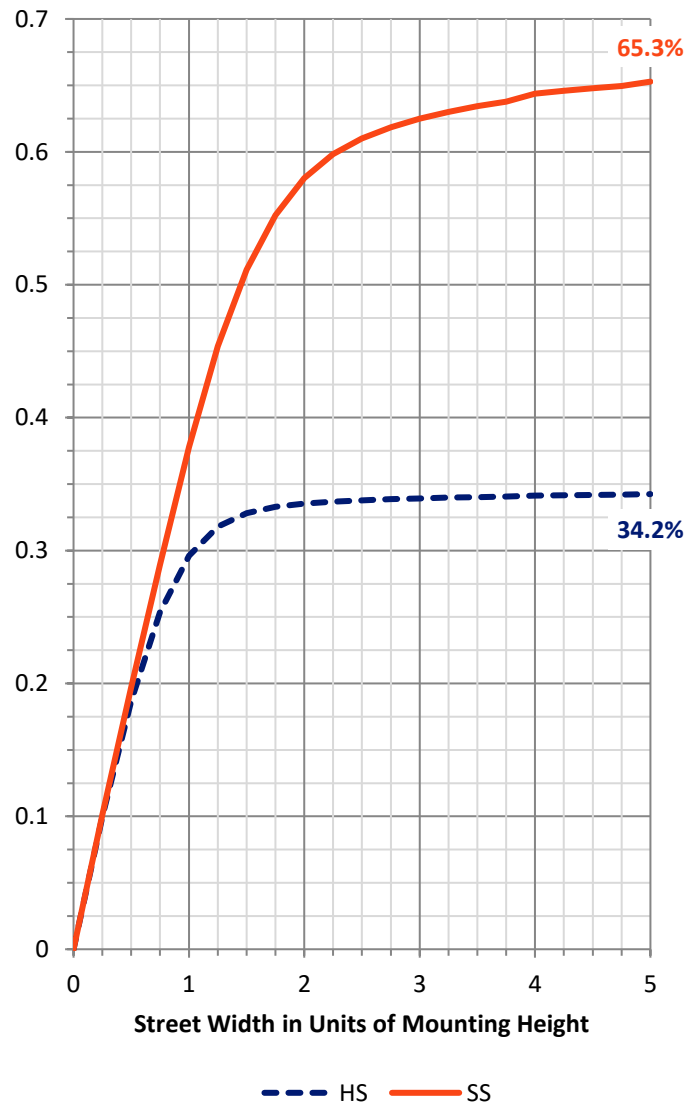
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3619.4	0.0	3619.4
	% Fixture	34.5	0.0	34.5
<b>Street Side</b>	Lumens	6861.5	0.0	6861.5
	% Fixture	65.5	0.0	65.5
<b>Total</b>	Lumens	10480.8	0.0	10480.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.2	1.0
10°-20°	319.3	3.0
20°-30°	548.7	5.2
30°-40°	890.9	8.5
40°-50°	1487.4	14.2
50°-60°	2342.1	22.3
60°-70°	3193.8	30.5
70°-80°	1382.6	13.2
80°-90°	207.9	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°	10480.8	100.0
0°-180°	10480.8	100.0



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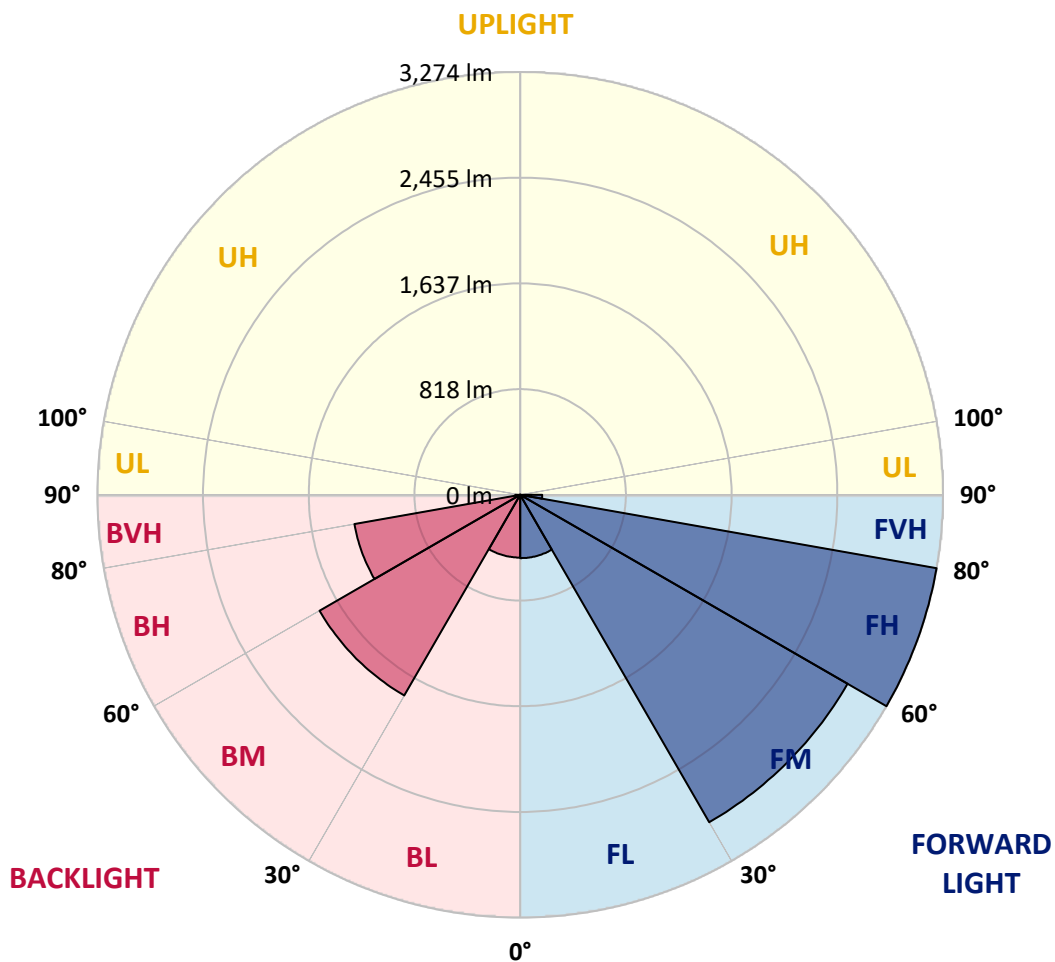
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	490.3	4.7			
FM	(30°-60°)	2926.9	27.9			
FH	(60°-80°)	3273.5	31.2			G2/5000
FVH	(80°-90°)	170.7	1.6			G2/225
BL	(0°-30°)	485.8	4.6	B1/500		
BM	(30°-60°)	1793.5	17.1	B2/2500		
BH	(60°-80°)	1302.8	12.4	B3/2500		G3/2500
BVH	(80°-90°)	37.2	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1129.4	1129.4	1129.4	1129.4	1129.4	1129.4	1129.4	1129.4	1129.4	1129.4	1129.4
2.5°	1134.0	1138.5	1134.0	1135.1	1136.3	1135.1	1134.0	1134.0	1130.6	1132.8	1135.1
5°	1129.4	1132.8	1131.7	1132.8	1134.0	1132.8	1131.7	1132.8	1130.6	1131.7	1135.1
7.5°	1123.8	1122.6	1123.8	1126.1	1128.3	1128.3	1128.3	1129.4	1128.3	1128.3	1131.7
10°	1106.8	1107.9	1110.1	1113.6	1114.7	1118.1	1118.1	1121.5	1122.6	1124.9	1129.4
12.5°	1085.3	1086.4	1088.7	1090.9	1096.6	1102.2	1102.2	1110.1	1113.6	1119.3	1127.2
15°	1069.4	1070.5	1072.8	1075.1	1079.6	1085.3	1088.7	1097.7	1103.4	1113.6	1124.9
17.5°	1078.4	1077.3	1079.6	1080.8	1080.8	1085.3	1085.3	1092.1	1098.9	1107.9	1122.6
20°	1104.6	1104.6	1106.8	1106.8	1105.7	1107.9	1103.4	1103.4	1104.6	1109.0	1119.3
22.5°	1130.6	1129.4	1134.0	1136.3	1137.4	1140.8	1136.3	1135.1	1129.4	1126.1	1129.4
25°	1155.5	1154.3	1160.0	1163.4	1169.1	1172.5	1172.5	1172.5	1168.0	1162.3	1158.9
27.5°	1194.1	1194.1	1199.7	1203.1	1207.6	1214.4	1217.8	1217.8	1219.0	1211.0	1205.3
30°	1258.6	1259.7	1260.8	1265.4	1270.0	1272.2	1276.8	1280.1	1283.5	1279.0	1270.0
32.5°	1335.6	1328.8	1328.8	1335.6	1341.3	1348.1	1350.3	1354.9	1361.7	1358.2	1357.1
35°	1427.4	1425.1	1422.9	1425.1	1431.9	1439.8	1448.9	1456.8	1452.3	1459.1	1455.7
37.5°	1563.4	1565.6	1566.7	1566.7	1565.6	1567.8	1572.4	1580.3	1578.1	1580.3	1584.8
40°	1787.6	1779.7	1771.7	1772.9	1761.6	1763.8	1745.7	1753.7	1754.8	1746.8	1750.2
42.5°	2011.9	2016.5	2019.8	2028.9	2021.0	2016.5	1999.5	1999.5	1990.4	1982.5	1980.2
45°	2254.3	2263.5	2264.6	2282.7	2275.9	2290.6	2303.1	2299.6	2284.9	2283.8	2267.9
47.5°	2448.1	2462.8	2478.6	2500.2	2517.2	2550.1	2588.6	2607.8	2619.2	2628.2	2610.1
50°	2593.0	2599.9	2640.7	2674.6	2712.0	2766.4	2819.6	2888.8	2944.3	2970.3	2995.3
52.5°	2671.3	2688.2	2732.4	2785.7	2851.4	2932.9	3019.0	3128.9	3224.1	3287.6	3344.1
55°	2688.2	2705.2	2755.1	2823.1	2912.6	3022.4	3145.9	3295.5	3438.2	3560.5	3679.5
57.5°	2640.7	2659.9	2713.1	2791.4	2896.7	3030.3	3185.6	3381.5	3578.6	3776.9	3952.5
60°	2553.4	2577.2	2626.0	2703.0	2819.6	2970.3	3156.1	3402.0	3678.3	3982.0	4318.4
62.5°	2409.6	2434.5	2479.8	2564.8	2684.9	2851.4	3066.6	3372.5	3763.3	4241.3	4838.4
65°	2178.4	2189.8	2245.3	2331.4	2437.9	2621.4	2858.2	3227.5	3736.1	4401.1	5223.6
66°	2074.2	2093.5	2127.5	2196.6	2298.5	2470.7	2708.7	3083.6	3633.0	4345.6	5213.3
67.5°	1911.1	1925.9	1948.5	1994.9	2057.2	2184.1	2409.6	2764.1	3318.1	4064.7	4997.0
70°	1545.2	1552.0	1582.6	1598.4	1620.0	1661.9	1743.5	1947.4	2379.0	3080.2	4033.0
72.5°	1053.6	1072.8	1105.7	1151.0	1209.9	1266.5	1305.0	1331.1	1424.0	1837.5	2687.1
75°	772.6	793.0	834.9	895.0	998.1	1115.8	1238.2	1294.8	1256.3	1203.1	1496.5
77.5°	448.6	475.8	510.9	568.7	663.8	820.2	1029.8	1215.5	1341.3	1349.2	1281.2
80°	189.2	192.6	214.1	243.5	302.5	412.4	575.4	842.8	1121.5	1309.6	1353.8
82.5°	43.1	53.2	68.0	80.5	98.5	135.9	201.7	335.4	606.1	950.4	1239.4
85°	15.8	15.8	21.5	31.7	36.3	40.7	53.2	84.9	145.0	267.4	557.4
87.5°	0.0	1.1	2.2	2.2	4.6	5.7	9.0	12.5	11.3	10.2	34.0
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°	1129.4	1129.4	1129.4	1129.4	1129.4	1129.4	1129.4	1129.4	1129.4	1129.4	1129.4
2.5°	1132.8	1131.7	1129.4	1129.4	1129.4	1129.4	1127.2	1128.3	1126.1	1127.2	1127.2
5°	1131.7	1131.7	1130.6	1128.3	1129.4	1129.4	1130.6	1128.3	1128.3	1129.4	1128.3
7.5°	1131.7	1130.6	1130.6	1130.6	1131.7	1130.6	1131.7	1131.7	1131.7	1132.8	1132.8
10°	1131.7	1131.7	1134.0	1135.1	1135.1	1136.3	1139.6	1139.6	1140.8	1141.9	1144.2
12.5°	1132.8	1137.4	1140.8	1144.2	1145.3	1147.5	1153.2	1153.2	1155.5	1158.9	1160.0
15°	1134.0	1140.8	1147.5	1149.9	1152.1	1156.7	1162.3	1164.6	1168.0	1171.4	1173.6
17.5°	1132.8	1141.9	1149.9	1153.2	1156.7	1162.3	1169.1	1171.4	1175.9	1180.4	1184.9
20°	1131.7	1144.2	1156.7	1161.1	1165.7	1173.6	1182.7	1188.4	1192.8	1199.7	1204.2
22.5°	1138.5	1153.2	1170.2	1177.0	1184.9	1195.2	1207.6	1214.4	1220.1	1226.9	1230.2
25°	1160.0	1171.4	1191.7	1203.1	1213.3	1230.2	1247.3	1255.2	1262.0	1267.6	1268.8
27.5°	1196.3	1199.7	1224.6	1239.4	1254.1	1281.2	1301.7	1307.3	1319.7	1324.3	1323.2
30°	1255.2	1249.5	1270.0	1292.6	1314.1	1351.5	1376.4	1391.2	1402.4	1402.4	1393.4
32.5°	1340.2	1331.1	1336.8	1362.8	1387.7	1442.1	1471.5	1490.8	1498.8	1496.5	1477.2
35°	1451.2	1445.5	1442.1	1462.5	1502.1	1565.6	1604.1	1614.3	1626.8	1624.5	1599.5
37.5°	1582.6	1578.1	1578.1	1601.9	1640.4	1734.4	1776.3	1783.1	1782.0	1763.8	1717.4
40°	1737.8	1735.5	1725.3	1738.9	1771.7	1894.2	1950.8	1959.8	1947.4	1917.9	1863.5
42.5°	1960.9	1947.4	1915.6	1923.5	1948.5	2067.5	2141.0	2166.0	2153.5	2124.1	2035.7
45°	2252.1	2237.4	2184.1	2177.3	2190.9	2295.2	2390.3	2395.9	2393.7	2356.3	2252.1
47.5°	2594.2	2571.6	2514.9	2496.8	2492.3	2588.6	2680.3	2689.4	2683.7	2628.2	2488.9
50°	2964.7	2931.8	2894.4	2882.0	2863.8	2932.9	3025.8	3027.0	3004.3	2927.3	2796.9
52.5°	3360.0	3348.7	3341.9	3329.4	3321.5	3381.5	3438.2	3404.2	3370.3	3289.8	3176.5
55°	3758.8	3805.2	3852.8	3857.3	3870.9	3935.5	3934.3	3841.5	3816.6	3772.4	3660.2
57.5°	4182.4	4354.6	4504.2	4550.6	4595.9	4716.0	4704.7	4613.0	4581.2	4526.8	4434.0
60°	4759.1	5223.6	5655.2	5758.3	5829.6	5973.5	5959.9	5818.3	5884.0	5879.5	5759.4
62.5°	5566.8	6339.4	6986.3	7144.9	7194.7	7210.6	7124.4	6971.5	7036.1	7108.6	6739.3
65°	6114.0	7022.5	7686.4	7808.7	7815.5	7626.3	7434.8	7254.7	7238.8	7176.6	6648.7
66°	6126.5	7056.5	7722.6	7841.5	7799.7	7541.3	7298.9	7117.6	7039.5	6902.5	6355.3
67.5°	5906.6	6844.7	7561.7	7687.5	7595.8	7229.8	6895.7	6662.3	6509.3	6287.3	5804.7
70°	4960.7	5890.8	6774.4	7008.9	7038.4	6492.3	6029.0	5754.8	5548.7	5243.9	4828.2
72.5°	3688.6	4529.1	5308.5	5532.8	5647.2	5211.1	4820.2	4611.8	4329.7	4009.1	3713.4
75°	2312.1	2905.8	3428.0	3585.4	3477.8	3140.2	2905.8	2818.5	2540.9	2349.5	2214.7
77.5°	1322.1	1507.8	1549.8	1489.7	1362.8	1043.4	742.1	549.4	476.9	527.9	582.2
80°	1290.3	1182.7	942.5	829.2	751.1	516.6	303.6	208.5	173.3	177.9	192.6
82.5°	1398.0	1499.9	1234.8	1007.1	845.1	571.0	314.9	167.6	113.3	133.7	150.7
85°	908.6	1264.3	1138.5	959.5	777.1	488.3	259.4	87.3	57.8	75.9	104.2
87.5°	91.7	100.8	86.1	116.7	87.3	40.7	20.4	12.5	11.3	13.6	20.4
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):**

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1129.4	1129.4	1129.4	1129.4	1129.4	1129.4	1129.4	1129.4	1129.4	1129.4	1129.4
2.5°	1128.3	1128.3	1129.4	1130.6	1131.7	1132.8	1132.8	1132.8	1132.8	1135.1	1134.0
5°	1130.6	1132.8	1135.1	1136.3	1138.5	1138.5	1141.9	1140.8	1140.8	1144.2	1145.3
7.5°	1135.1	1138.5	1143.1	1141.9	1146.4	1145.3	1147.5	1147.5	1144.2	1145.3	1143.1
10°	1145.3	1149.9	1152.1	1148.7	1149.9	1145.3	1144.2	1138.5	1131.7	1128.3	1123.8
12.5°	1162.3	1166.8	1166.8	1161.1	1154.3	1144.2	1136.3	1123.8	1113.6	1107.9	1102.2
15°	1177.0	1181.6	1180.4	1171.4	1161.1	1145.3	1134.0	1119.3	1104.6	1095.4	1089.8
17.5°	1188.4	1190.6	1187.3	1174.8	1163.4	1148.7	1137.4	1121.5	1104.6	1093.2	1083.0
20°	1205.3	1203.1	1195.2	1179.3	1166.8	1153.2	1144.2	1130.6	1111.4	1096.6	1081.9
22.5°	1230.2	1221.2	1206.5	1189.5	1177.0	1164.6	1155.5	1140.8	1121.5	1103.4	1086.4
25°	1263.1	1245.0	1224.6	1206.5	1195.2	1181.6	1171.4	1155.5	1135.1	1114.7	1094.3
27.5°	1310.7	1279.0	1252.9	1237.0	1224.6	1207.6	1195.2	1174.8	1153.2	1129.4	1106.8
30°	1363.9	1320.9	1296.0	1283.5	1270.0	1251.8	1232.6	1206.5	1181.6	1155.5	1128.3
32.5°	1433.0	1380.9	1357.1	1344.7	1326.5	1303.9	1281.2	1251.8	1216.7	1182.7	1149.9
35°	1523.6	1470.4	1445.5	1426.2	1401.3	1371.9	1339.0	1299.4	1251.8	1206.5	1164.6
37.5°	1621.1	1563.4	1539.5	1519.2	1481.8	1443.3	1396.8	1339.0	1274.4	1214.4	1162.3
40°	1744.6	1691.4	1660.8	1625.6	1581.4	1514.6	1442.1	1358.2	1275.5	1202.0	1140.8
42.5°	1900.9	1847.6	1802.3	1746.8	1669.8	1566.7	1463.6	1354.9	1255.2	1171.4	1105.7
45°	2108.2	2043.6	1965.5	1868.1	1743.5	1599.5	1464.8	1333.4	1216.7	1123.8	1053.6
47.5°	2362.0	2263.5	2135.5	1971.2	1792.2	1608.7	1446.6	1290.3	1156.7	1055.8	977.7
50°	2663.3	2508.1	2297.4	2056.1	1817.1	1595.1	1401.3	1225.8	1071.6	964.0	871.2
52.5°	3007.7	2754.0	2443.5	2117.3	1815.9	1549.8	1324.3	1128.3	960.7	840.6	752.2
55°	3412.1	3034.9	2594.2	2162.6	1784.2	1465.9	1206.5	991.3	823.5	712.6	631.0
57.5°	4004.6	3490.3	2857.0	2232.9	1720.8	1336.8	1046.7	827.0	679.7	574.3	505.2
60°	5087.6	4250.4	3330.5	2374.4	1623.4	1147.5	859.8	651.4	527.9	443.0	396.5
62.5°	5903.3	4838.4	3586.6	2342.7	1427.4	914.2	637.8	474.7	388.6	330.8	301.3
65°	5786.5	4656.0	3313.6	2017.6	1119.3	644.6	423.7	322.9	267.4	240.2	223.2
66°	5522.6	4418.1	3076.8	1815.9	967.4	535.8	348.9	270.8	230.0	210.7	199.4
67.5°	5021.9	3976.3	2653.1	1488.6	743.2	388.6	262.8	214.1	186.9	179.0	171.1
70°	4174.5	3170.8	1862.4	866.6	379.5	216.4	166.5	149.5	142.7	141.6	139.3
72.5°	3199.2	2244.2	1096.6	410.0	197.1	143.9	129.1	123.4	121.2	121.2	122.3
75°	1960.9	1260.8	484.8	200.6	138.2	121.2	114.4	112.2	111.0	112.2	111.0
77.5°	654.8	401.0	207.4	151.8	125.8	112.2	107.6	105.4	105.4	105.4	105.4
80°	200.6	174.4	158.6	140.5	119.0	106.5	99.7	98.5	99.7	100.8	97.4
82.5°	150.7	142.7	133.7	124.7	107.6	95.2	92.9	92.9	92.9	89.5	84.9
85°	111.0	109.9	90.6	84.9	79.3	79.3	79.3	79.3	75.9	70.2	65.7
87.5°	20.4	19.3	20.4	21.5	31.7	34.0	34.0	36.3	39.6	37.4	37.4
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):**

	160°	165°	170°	175°	180°
0°	1129.4	1129.4	1129.4	1129.4	1129.4
2.5°	1134.0	1132.8	1136.3	1134.0	1135.1
5°	1144.2	1143.1	1145.3	1143.1	1146.4
7.5°	1140.8	1138.5	1137.4	1138.5	1139.6
10°	1117.0	1114.7	1113.6	1112.5	1113.6
12.5°	1096.6	1092.1	1092.1	1089.8	1090.9
15°	1081.9	1078.4	1077.3	1075.1	1076.2
17.5°	1075.1	1069.4	1067.2	1064.8	1064.8
20°	1070.5	1063.7	1060.4	1058.1	1056.9
22.5°	1070.5	1060.4	1055.8	1053.6	1052.4
25°	1075.1	1062.6	1055.8	1052.4	1051.3
27.5°	1084.1	1068.3	1060.4	1055.8	1055.8
30°	1100.0	1079.6	1068.3	1062.6	1061.5
32.5°	1115.8	1088.7	1072.8	1066.1	1063.7
35°	1123.8	1088.7	1069.4	1058.1	1055.8
37.5°	1114.7	1074.0	1050.1	1033.1	1029.8
40°	1086.4	1043.4	1017.3	1001.4	999.2
42.5°	1049.0	1007.1	976.5	965.2	961.8
45°	998.1	948.2	917.6	901.8	902.9
47.5°	910.8	859.8	832.7	818.0	820.2
50°	807.7	757.9	734.1	718.2	721.6
52.5°	694.4	649.1	626.4	618.5	616.3
55°	575.4	540.4	524.5	515.4	512.0
57.5°	466.7	441.8	430.5	419.2	420.3
60°	368.2	355.7	352.3	339.8	338.7
62.5°	290.0	282.0	278.7	269.6	270.8
65°	219.8	217.5	219.8	214.1	216.4
66°	198.2	199.4	199.4	196.0	198.2
67.5°	171.1	173.3	176.7	173.3	175.6
70°	141.6	143.9	146.1	146.1	146.1
72.5°	123.4	125.8	126.9	126.9	126.9
75°	113.3	114.4	115.5	113.3	113.3
77.5°	106.5	106.5	104.2	103.1	102.0
80°	96.3	95.2	91.7	89.5	89.5
82.5°	80.5	78.1	75.9	72.5	72.5
85°	61.2	58.9	56.7	52.1	49.9
87.5°	31.7	32.8	31.7	26.0	22.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)