

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: P140763

Luminaire Tested: **ECM-F03-LED-E1-RW-8030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P140763  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33689)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ECM-F03-LED-E1-RW-8030  
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE  
Light Source: (21) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6181.4 lumens  
Efficiency: N/A  
Efficacy: 78.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type I - Short - Full Cutoff  
BUG Rating: B3 - U0 - G3

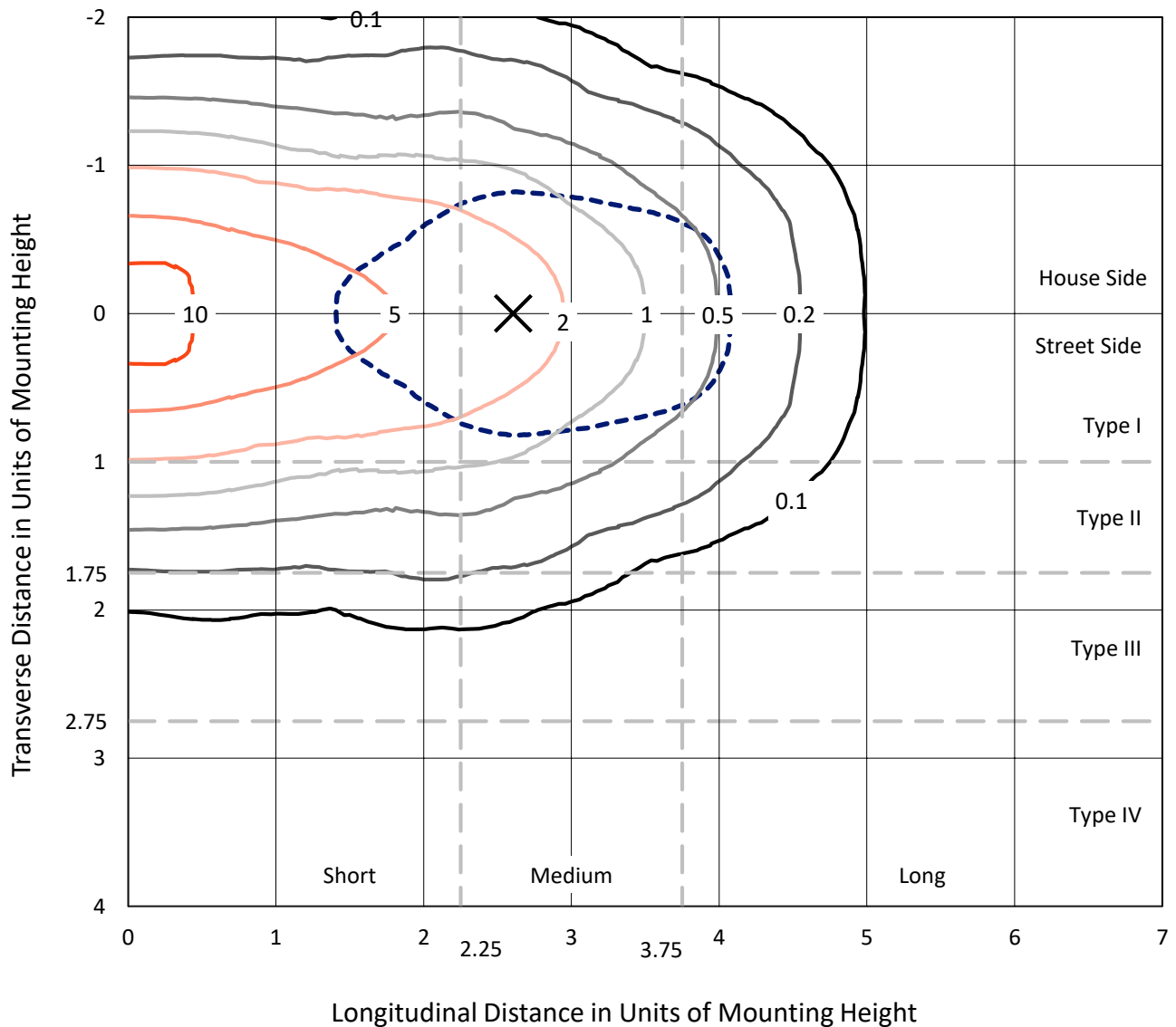
Input Watts (W): 78.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

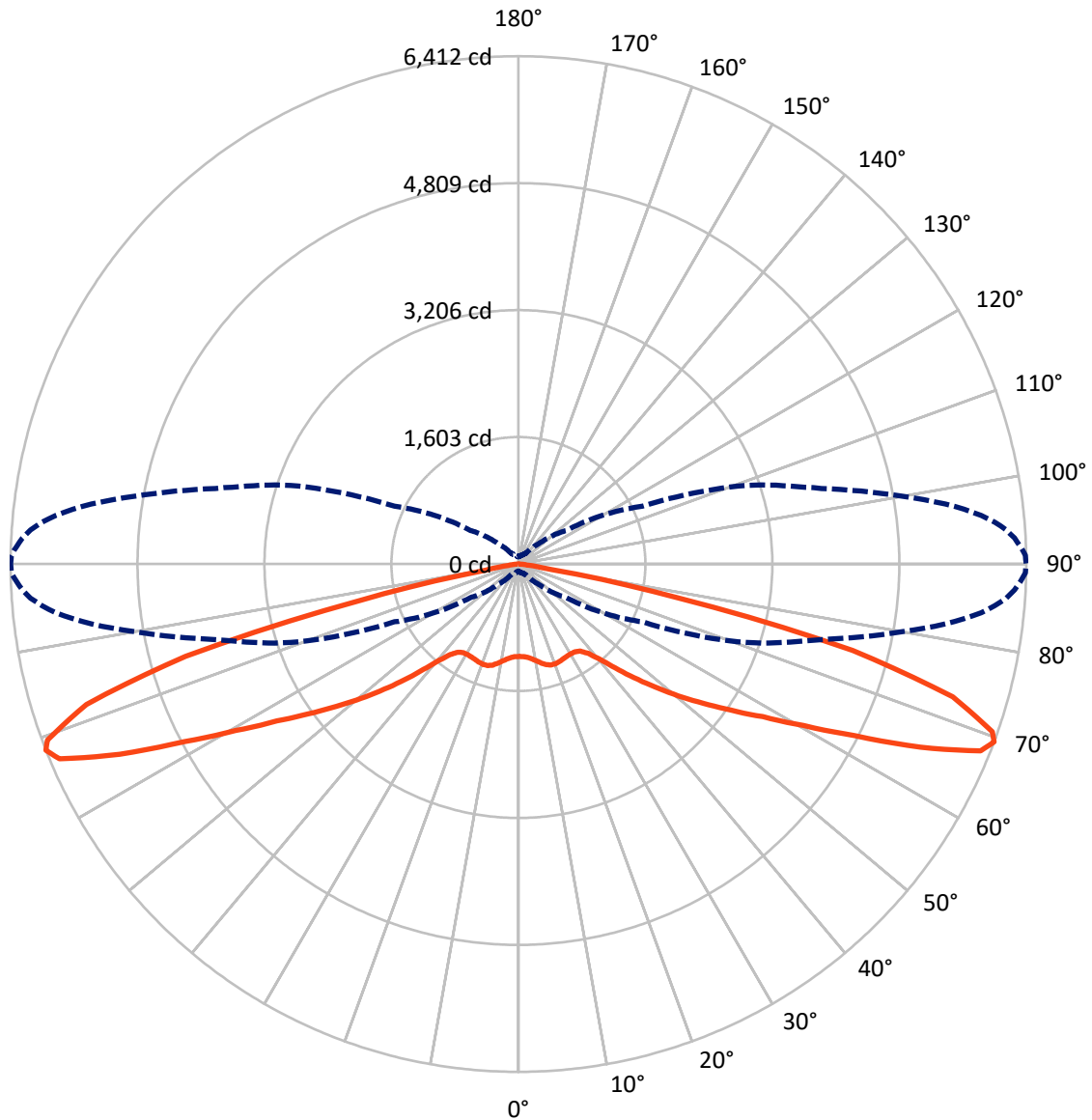
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.9 fc  
 Type I - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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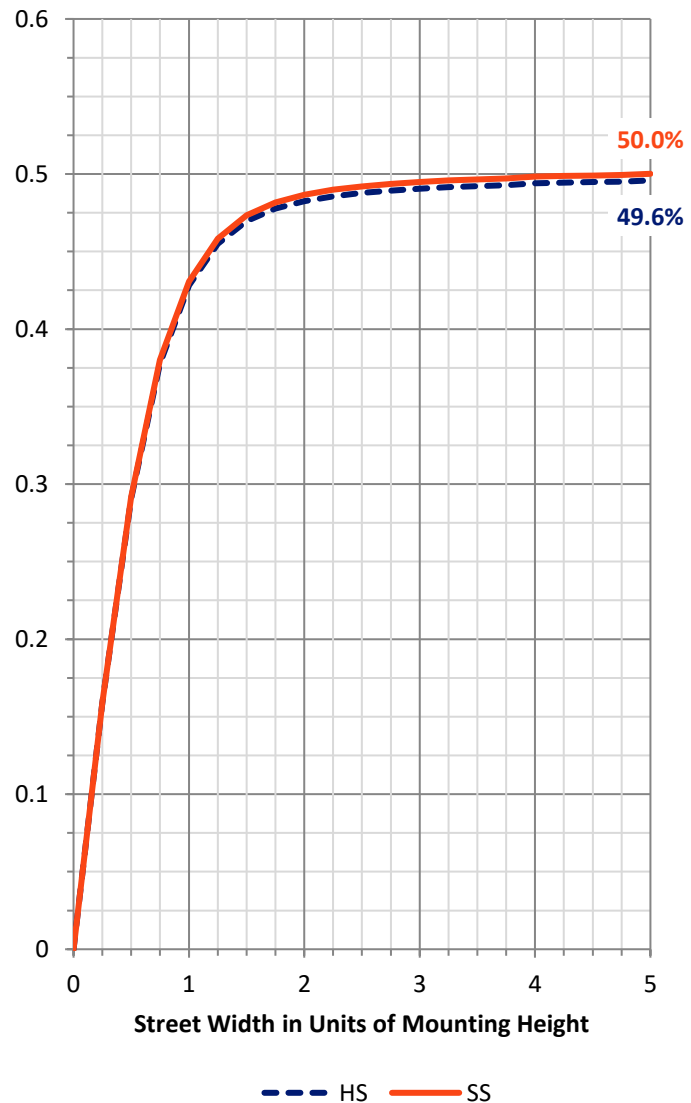
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3090.7	0.0	3090.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3090.7	0.0	3090.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6181.4	0.0	6181.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.3	1.8
10°-20°	359.2	5.8
20°-30°	580.9	9.4
30°-40°	725.6	11.7
40°-50°	907.6	14.7
50°-60°	1118.4	18.1
60°-70°	1384.5	22.4
70°-80°	904.9	14.6
80°-90°	86.0	1.4
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°	6181.4	100.0
0°-180°	6181.4	100.0



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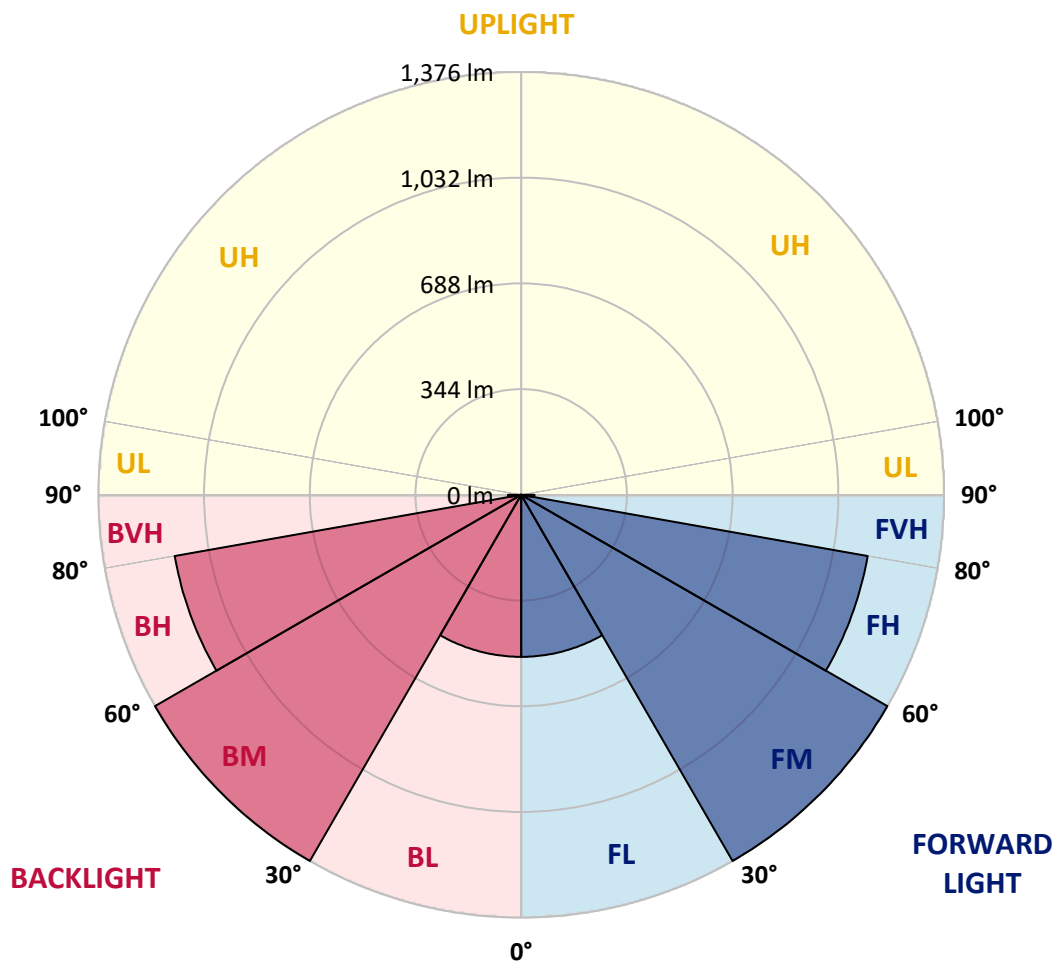
CATALOG NUMBER: ECM-F03-LED-E1-RW-8030

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	527.2	8.5			
FM (30°-60°)	1375.8	22.3			
FH (60°-80°)	1144.7	18.5			G1/1800
FVH (80°-90°)	43.0	0.7			G1/100
BL (0°-30°)	527.2	8.5	B2/1000		
BM (30°-60°)	1375.8	22.3	B2/2500		
BH (60°-80°)	1144.7	18.5	B3/2500		G3/2500
BVH (80°-90°)	43.0	0.7			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 I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	1167.0	1167.0	1167.0	1167.0	1167.0	1167.0	1167.0	1167.0	1167.0	1167.0	1167.0
2.5°	1174.7	1175.4	1173.3	1174.0	1174.7	1174.0	1173.0	1173.0	1172.6	1172.2	1171.9
5°	1182.4	1182.7	1181.6	1183.4	1183.8	1184.8	1184.8	1185.2	1184.9	1184.7	1184.5
7.5°	1193.2	1194.6	1193.6	1196.0	1198.4	1201.9	1203.6	1207.8	1207.7	1207.7	1207.6
10°	1203.2	1204.6	1204.6	1210.2	1216.2	1222.8	1229.8	1236.4	1236.8	1237.2	1237.6
12.5°	1211.0	1212.0	1213.8	1223.8	1237.0	1248.2	1260.4	1270.8	1271.3	1271.7	1272.1
15°	1207.8	1210.2	1218.2	1234.3	1257.6	1276.1	1291.0	1303.6	1304.4	1305.3	1306.1
17.5°	1196.9	1200.8	1212.4	1239.5	1275.4	1305.0	1322.8	1326.2	1326.8	1327.4	1327.9
20°	1173.6	1179.2	1197.4	1236.0	1289.0	1329.1	1346.8	1340.5	1340.0	1339.4	1338.8
22.5°	1134.6	1142.0	1164.6	1219.6	1290.0	1346.4	1363.9	1346.4	1344.5	1342.6	1340.6
25°	1082.4	1088.3	1114.1	1179.2	1274.0	1349.6	1374.6	1350.3	1347.2	1344.0	1340.9
27.5°	1019.0	1023.8	1055.9	1125.2	1234.2	1333.6	1381.6	1356.9	1352.9	1348.8	1344.8
30°	947.6	951.8	986.9	1060.8	1178.6	1298.4	1380.9	1371.8	1367.0	1362.2	1357.4
32.5°	876.5	878.2	909.6	990.8	1116.6	1246.4	1369.4	1394.8	1390.2	1385.5	1380.8
35°	798.5	804.0	837.4	926.0	1046.5	1189.4	1354.1	1427.0	1424.3	1421.6	1419.0
37.5°	735.8	737.5	773.4	865.4	989.7	1137.4	1334.6	1468.0	1469.9	1471.8	1473.7
40°	673.0	673.0	708.6	804.0	933.0	1090.8	1318.2	1518.6	1528.1	1537.6	1547.2
42.5°	604.4	609.3	644.2	739.2	877.9	1051.0	1309.8	1579.2	1597.1	1615.1	1633.1
45°	540.3	543.4	579.0	672.0	809.2	1005.8	1307.4	1646.7	1674.0	1701.3	1728.7
47.5°	477.2	481.8	515.6	601.0	734.4	945.5	1304.2	1723.8	1758.6	1793.6	1828.4
50°	418.8	421.6	459.2	536.8	660.5	867.4	1283.8	1809.8	1852.4	1895.0	1937.7
52.5°	356.8	362.3	393.3	473.4	586.0	783.4	1229.8	1903.5	1955.1	2006.6	2058.2
55°	291.9	290.5	327.8	403.0	520.8	703.0	1130.1	1984.6	2046.9	2109.1	2171.3
57.5°	213.9	218.4	252.6	328.9	445.2	635.4	1012.7	2026.8	2104.4	2182.0	2259.7
60°	153.3	159.6	189.2	249.4	370.0	569.2	892.9	1997.6	2100.4	2203.2	2306.0
62.5°	119.8	122.6	148.0	187.0	288.4	499.9	812.4	1921.6	2063.4	2205.2	2347.0
65°	104.5	107.6	130.3	150.5	219.1	434.0	764.0	1861.0	2048.1	2235.2	2422.4
67.5°	95.1	98.9	118.4	132.4	179.8	378.0	752.4	1811.5	2031.0	2250.6	2470.2
69°	90.6	94.4	112.6	125.4	166.9	360.2	739.2	1728.2	1951.1	2173.9	2396.7
70°	88.5	91.6	109.0	121.2	162.7	349.8	709.2	1633.2	1848.5	2063.9	2279.2
72.5°	81.5	83.2	99.2	111.2	154.0	292.6	561.9	1222.4	1402.4	1582.4	1762.3
75°	72.2	74.9	89.6	101.7	123.6	187.4	368.5	738.8	872.1	1005.4	1138.7
77.5°	62.0	64.4	77.0	97.2	95.1	113.6	211.8	412.8	484.9	556.9	629.0
80°	53.6	56.0	67.6	90.2	77.3	83.9	142.9	269.2	296.6	324.0	351.4
82.5°	42.2	43.9	56.8	73.5	59.9	62.4	107.0	235.2	251.7	268.2	284.7
85°	26.8	27.9	41.4	50.2	41.8	36.9	67.2	172.4	185.5	198.5	211.5
87.5°	9.4	13.2	18.4	17.4	17.4	13.2	23.7	63.8	68.8	73.9	79.0
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):**

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	1167.0	1167.0	1167.0	1167.0	1167.0	1167.0	1167.0	1167.0	1167.0	1167.0	1167.0
2.5°	1171.6	1171.2	1171.6	1171.6	1171.2	1170.8	1170.8	1170.5	1169.8	1169.8	1169.4
5°	1184.3	1184.1	1184.8	1184.4	1184.8	1184.4	1184.4	1184.1	1184.4	1183.0	1182.7
7.5°	1207.5	1207.4	1207.4	1208.5	1207.8	1207.4	1208.2	1208.2	1208.2	1207.4	1207.4
10°	1238.0	1238.4	1239.2	1239.8	1239.8	1239.8	1241.2	1240.2	1242.2	1240.2	1241.2
12.5°	1272.5	1273.0	1274.7	1275.4	1276.1	1276.1	1276.1	1278.2	1279.6	1279.2	1279.6
15°	1306.9	1307.8	1308.1	1309.2	1309.2	1309.5	1310.9	1313.4	1312.6	1314.1	1314.0
17.5°	1328.4	1329.0	1328.6	1328.6	1329.4	1330.4	1331.8	1333.2	1332.8	1333.9	1334.6
20°	1338.3	1337.8	1336.7	1336.0	1335.6	1336.4	1336.4	1336.7	1337.4	1337.4	1337.4
22.5°	1338.6	1336.7	1334.2	1332.8	1331.1	1330.1	1330.8	1330.0	1330.1	1330.1	1329.4
25°	1337.7	1334.6	1330.8	1328.0	1325.2	1323.4	1321.7	1321.0	1319.6	1319.6	1319.6
27.5°	1340.7	1336.7	1332.8	1327.6	1323.8	1321.7	1319.3	1316.8	1315.4	1314.0	1314.0
30°	1352.6	1347.8	1343.0	1336.7	1331.5	1329.8	1325.2	1322.8	1319.2	1317.6	1316.8
32.5°	1376.2	1371.5	1364.9	1358.0	1353.8	1348.6	1344.7	1339.5	1335.6	1333.2	1330.1
35°	1416.3	1413.6	1408.1	1403.6	1397.3	1391.4	1383.8	1381.0	1372.9	1371.6	1367.7
37.5°	1475.6	1477.4	1476.4	1472.9	1468.7	1463.5	1460.4	1454.4	1451.3	1448.2	1444.7
40°	1556.8	1566.3	1569.4	1573.2	1574.2	1578.8	1573.6	1572.9	1568.7	1572.2	1570.1
42.5°	1651.1	1669.0	1678.8	1690.2	1702.8	1714.3	1723.4	1738.7	1737.0	1748.8	1757.2
45°	1756.0	1783.3	1808.4	1827.5	1851.6	1878.0	1901.4	1923.0	1947.4	1961.3	1981.8
47.5°	1863.4	1898.2	1934.1	1969.6	2003.8	2038.0	2079.8	2117.8	2154.6	2179.8	2211.4
50°	1980.3	2023.0	2066.2	2109.7	2158.2	2211.8	2258.5	2308.0	2358.8	2410.4	2446.6
52.5°	2109.7	2161.3	2208.3	2254.3	2314.2	2371.0	2431.6	2493.6	2570.6	2626.7	2676.5
55°	2233.5	2295.8	2347.3	2402.4	2465.0	2528.1	2602.3	2680.0	2761.5	2842.4	2915.5
57.5°	2337.3	2414.9	2476.2	2530.9	2598.1	2671.0	2750.7	2846.8	2939.9	3040.2	3134.6
60°	2408.9	2511.7	2585.6	2651.4	2729.5	2810.3	2914.4	3028.0	3150.3	3275.0	3396.2
62.5°	2488.8	2630.6	2731.6	2825.6	2918.0	3007.8	3125.2	3266.3	3432.2	3583.0	3743.6
65°	2609.6	2796.7	2945.8	3065.6	3196.6	3327.6	3464.6	3629.3	3817.8	4037.9	4225.0
67.5°	2689.7	2909.2	3098.7	3270.5	3423.4	3582.6	3755.4	3952.6	4180.0	4404.8	4637.4
69°	2619.5	2842.4	3042.6	3231.8	3399.4	3570.8	3746.4	3944.9	4177.3	4425.6	4671.2
70°	2494.6	2710.0	2916.9	3116.1	3279.9	3458.9	3631.7	3820.9	4056.4	4304.8	4572.0
72.5°	1942.3	2122.2	2334.8	2527.0	2722.4	2885.9	3042.0	3231.8	3469.4	3705.9	3966.2
75°	1272.0	1405.3	1599.8	1757.8	1926.8	2080.2	2193.3	2381.8	2526.0	2748.6	2990.4
77.5°	701.0	773.0	874.0	1003.0	1075.8	1162.2	1275.4	1344.0	1446.4	1602.2	1674.6
80°	378.8	406.2	448.7	475.5	497.1	475.9	464.4	484.9	476.2	473.8	450.4
82.5°	301.2	317.7	339.7	355.3	345.2	299.6	251.2	216.0	193.4	162.6	139.4
85°	224.6	237.6	246.0	256.4	254.6	230.3	184.3	142.4	111.8	89.2	77.7
87.5°	84.1	89.2	91.6	111.5	102.4	97.2	75.6	55.0	42.2	30.6	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):**

	80°	81°	82°	83°	84°	85°	86°	87°	88°	89°	90°
0°	1167.0	1167.0	1167.0	1167.0	1167.0	1167.0	1167.0	1167.0	1167.0	1167.0	1167.0
2.5°	1170.2	1169.8	1169.8	1169.8	1170.2	1169.4	1168.8	1169.4	1169.1	1169.1	1169.1
5°	1184.1	1183.8	1183.8	1184.1	1183.8	1184.1	1183.8	1182.4	1183.1	1183.4	1183.8
7.5°	1208.2	1207.8	1207.8	1209.6	1209.2	1208.8	1208.4	1209.2	1208.1	1208.1	1208.8
10°	1241.2	1242.6	1242.2	1243.3	1243.0	1242.3	1241.6	1242.3	1243.4	1243.7	1242.3
12.5°	1281.6	1282.0	1281.3	1283.0	1282.0	1284.4	1281.6	1283.0	1284.4	1282.4	1283.4
15°	1314.4	1314.4	1315.8	1316.1	1315.8	1316.4	1318.6	1317.5	1316.4	1318.2	1318.9
17.5°	1334.2	1335.3	1335.6	1335.9	1336.6	1337.4	1337.7	1337.4	1337.7	1338.4	1339.8
20°	1338.8	1338.4	1339.1	1339.4	1340.5	1340.5	1341.2	1340.8	1341.9	1342.2	1342.6
22.5°	1330.8	1331.1	1331.4	1332.5	1332.2	1332.8	1333.2	1334.2	1333.9	1334.6	1334.9
25°	1320.0	1320.7	1321.1	1320.6	1320.6	1321.0	1321.4	1321.0	1322.4	1323.1	1323.1
27.5°	1312.9	1313.0	1314.0	1313.7	1313.0	1313.7	1313.4	1313.4	1313.4	1313.7	1314.7
30°	1315.8	1314.8	1314.0	1314.0	1313.7	1313.0	1312.3	1311.2	1311.2	1311.6	1311.3
32.5°	1330.8	1328.7	1327.6	1326.6	1325.9	1324.2	1322.1	1321.4	1319.6	1319.6	1318.9
35°	1369.1	1366.6	1366.6	1362.8	1360.7	1359.7	1357.9	1352.8	1353.1	1351.0	1350.3
37.5°	1445.4	1441.2	1439.4	1442.9	1436.3	1439.1	1433.2	1430.8	1432.1	1428.3	1430.4
40°	1573.6	1580.2	1577.4	1581.2	1583.0	1583.6	1583.7	1577.8	1583.7	1574.3	1577.4
42.5°	1758.6	1776.0	1782.2	1784.4	1795.2	1792.4	1789.2	1788.8	1788.5	1793.0	1790.6
45°	1991.2	1993.7	2023.3	2028.9	2034.8	2041.4	2039.7	2047.4	2052.9	2045.2	2046.3
47.5°	2229.2	2253.9	2275.6	2287.4	2300.3	2293.6	2298.8	2302.0	2321.8	2319.8	2318.0
50°	2491.2	2532.6	2544.2	2557.0	2567.1	2587.4	2585.6	2597.8	2595.7	2612.1	2614.2
52.5°	2739.6	2785.2	2831.6	2851.8	2867.1	2890.4	2899.5	2912.7	2907.8	2906.4	2918.6
55°	2986.6	3062.8	3115.8	3167.7	3196.6	3227.6	3240.9	3259.6	3268.0	3271.8	3256.5
57.5°	3231.4	3323.0	3412.6	3476.7	3521.3	3568.0	3592.8	3613.3	3637.3	3645.3	3637.7
60°	3517.8	3652.0	3769.4	3855.0	3937.2	3988.1	4041.4	4080.4	4087.8	4120.8	4142.1
62.5°	3899.3	4062.7	4211.4	4336.2	4463.6	4558.7	4654.9	4693.2	4731.2	4757.0	4772.6
65°	4419.4	4634.7	4840.2	5017.6	5174.0	5332.2	5444.3	5503.2	5578.8	5593.8	5577.4
67.5°	4875.4	5129.4	5384.7	5610.5	5779.4	5943.5	6076.5	6174.2	6244.8	6279.6	6294.3
69°	4925.5	5183.7	5444.6	5669.7	5874.2	6037.9	6174.1	6271.0	6341.3	6401.6	6412.1
70°	4822.8	5112.6	5366.2	5593.4	5804.2	5971.0	6093.0	6203.8	6283.8	6330.2	6346.6
72.5°	4233.7	4494.3	4750.3	5012.0	5192.8	5393.1	5493.4	5582.2	5688.8	5749.4	5736.2
75°	3208.4	3433.9	3657.2	3853.0	3992.3	4066.2	4183.5	4269.6	4253.9	4356.0	4358.8
77.5°	1809.8	1839.0	1990.6	1970.4	2037.2	2039.0	2056.4	2086.7	2028.6	2148.0	2062.3
80°	439.0	433.0	464.4	427.4	424.3	421.2	410.8	431.3	434.0	412.8	416.6
82.5°	128.9	123.4	120.9	117.8	123.0	121.2	122.2	123.0	126.4	121.9	126.8
85°	70.7	66.6	66.2	64.4	64.1	60.2	59.9	59.9	57.4	58.2	57.8
87.5°	27.2	25.5	24.0	23.0	22.7	21.6	20.5	18.8	16.7	15.0	13.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)