

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: P140764

Luminaire Tested: **ECM-F03-LED-E1-RW-7030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P140764  
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-7030  
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE  
Light Source: (21) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6689.4 lumens  
Efficiency: N/A  
Efficacy: 85.4 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

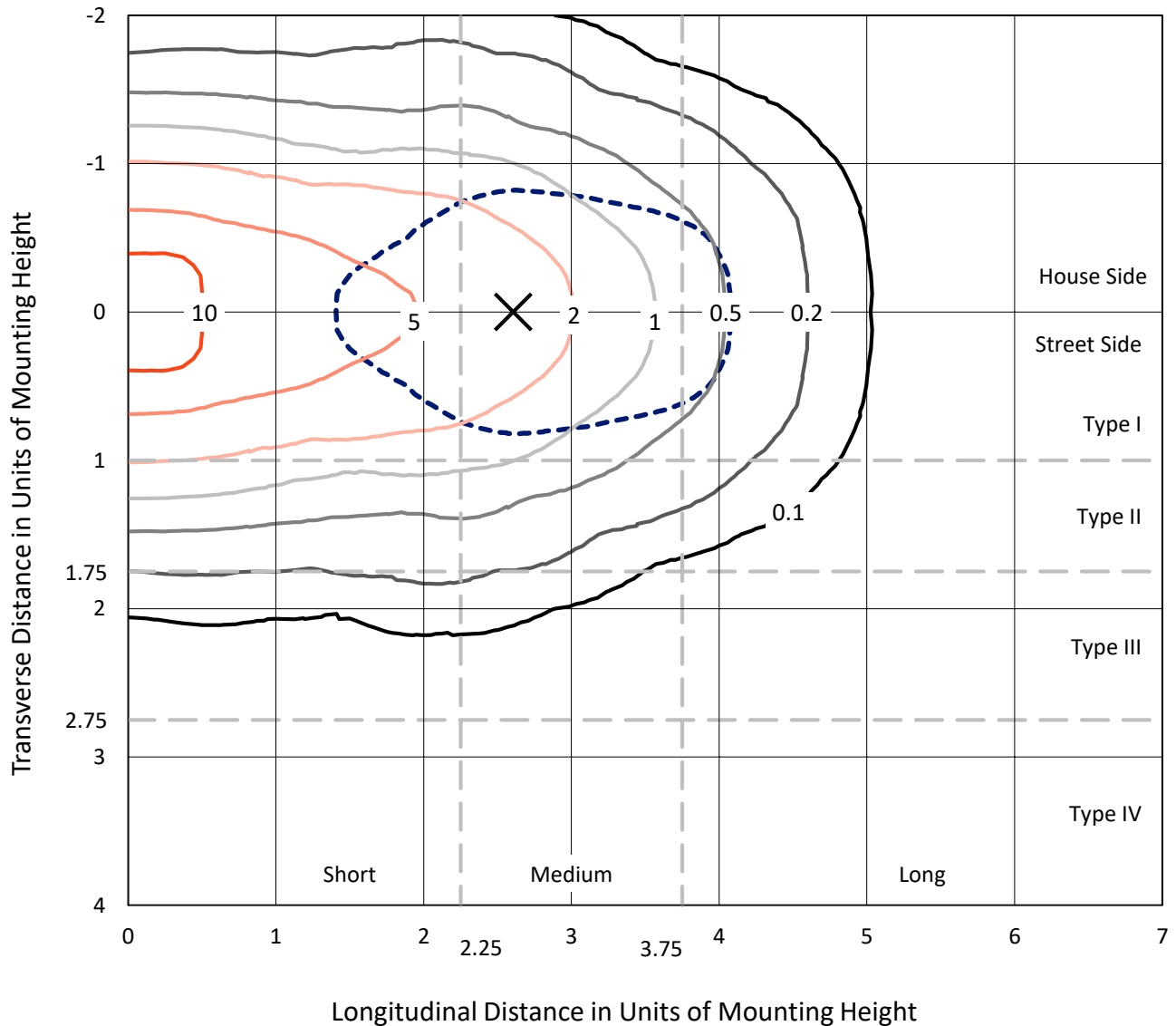
Input Watts (W): 78.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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 CATALOG NUMBER: ECM-F03-LED-E1-RW-7030

### Iso-Footcandle Lines of Horizontal Illumination

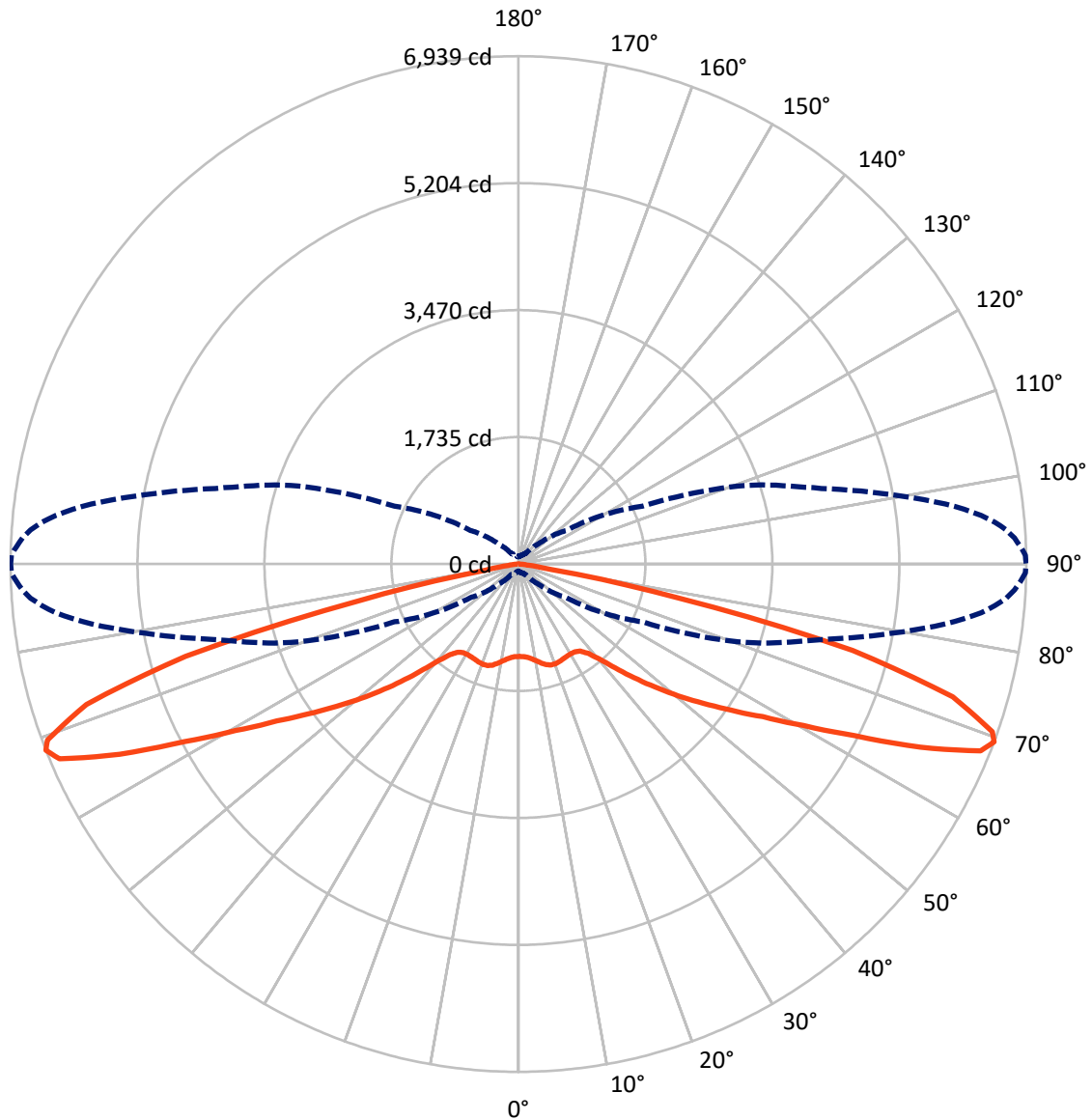
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.9 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	3344.7	0.0	3344.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3344.7	0.0	3344.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6689.4	0.0	6689.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.7	1.8
10°-20°	388.7	5.8
20°-30°	628.7	9.4
30°-40°	785.2	11.7
40°-50°	982.2	14.7
50°-60°	1210.3	18.1
60°-70°	1498.3	22.4
70°-80°	979.3	14.6
80°-90°	93.1	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°	6689.4	100.0
0°-180°	6689.4	100.0



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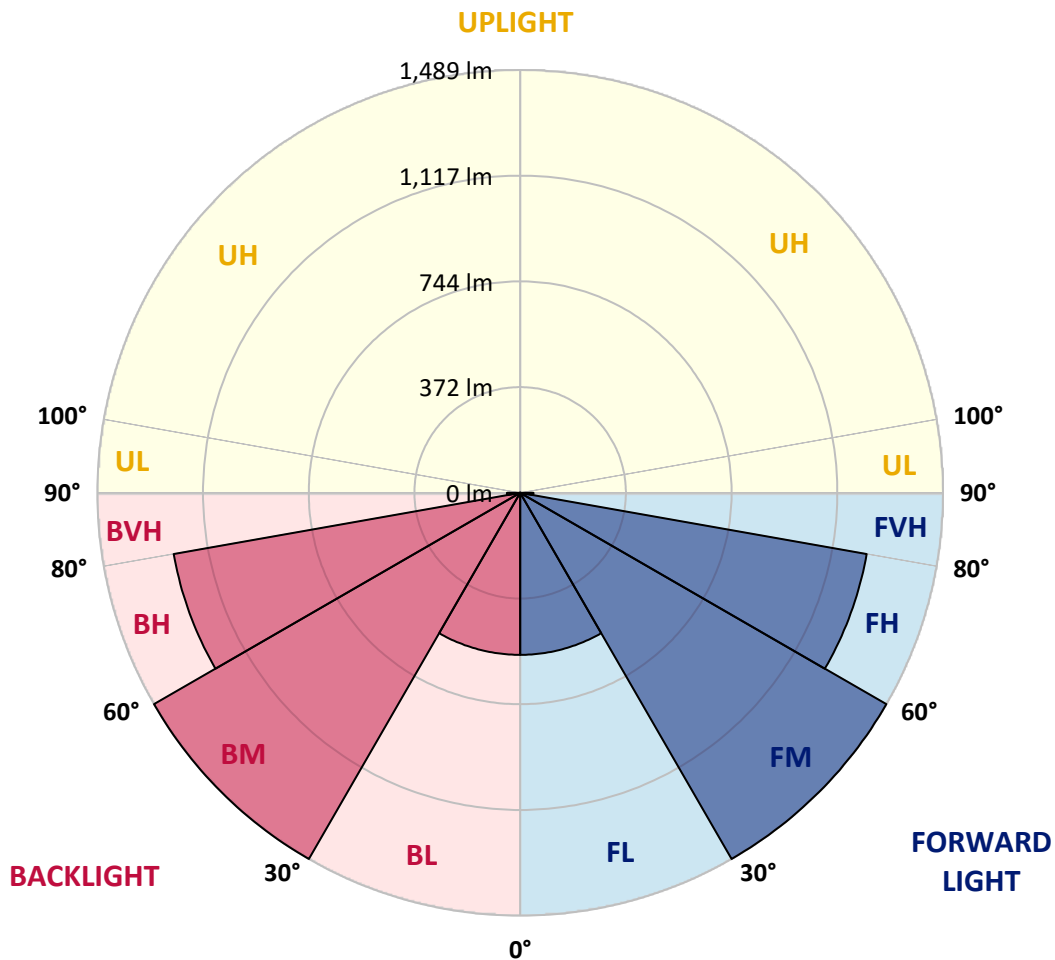
CATALOG NUMBER: ECM-F03-LED-E1-RW-7030

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	570.5	8.5			
FM	(30°-60°)	1488.8	22.3			
FH	(60°-80°)	1238.8	18.5			G1/1800
FVH	(80°-90°)	46.5	0.7			G1/100
BL	(0°-30°)	570.5	8.5	B2/1000		
BM	(30°-60°)	1488.8	22.3	B2/2500		
BH	(60°-80°)	1238.8	18.5	B3/2500		G3/2500
BVH	(80°-90°)	46.5	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°	1262.9	1262.9	1262.9	1262.9	1262.9	1262.9	1262.9	1262.9	1262.9	1262.9	1262.9
2.5°	1271.2	1271.9	1269.7	1270.4	1271.2	1270.5	1269.4	1269.4	1269.0	1268.6	1268.2
5°	1279.6	1279.9	1278.8	1280.6	1281.1	1282.2	1282.2	1282.6	1282.3	1282.1	1281.9
7.5°	1291.2	1292.8	1291.6	1294.2	1296.8	1300.6	1302.5	1307.0	1307.0	1306.9	1306.8
10°	1302.2	1303.6	1303.6	1309.7	1316.1	1323.2	1330.8	1338.0	1338.4	1338.9	1339.3
12.5°	1310.4	1311.6	1313.4	1324.4	1338.7	1350.8	1364.0	1375.2	1375.7	1376.2	1376.6
15°	1307.0	1309.7	1318.4	1335.7	1360.9	1380.9	1397.2	1410.8	1411.6	1412.6	1413.5
17.5°	1295.4	1299.5	1311.9	1341.4	1380.2	1412.2	1431.4	1435.2	1435.8	1436.4	1437.0
20°	1270.1	1276.2	1295.8	1337.6	1394.9	1438.2	1457.5	1450.6	1450.1	1449.5	1448.9
22.5°	1227.8	1235.8	1260.3	1319.9	1396.1	1457.1	1476.0	1457.1	1455.0	1452.9	1450.8
25°	1171.3	1177.8	1205.6	1276.1	1378.7	1460.4	1487.6	1461.2	1457.9	1454.5	1451.1
27.5°	1102.7	1108.0	1142.6	1217.7	1335.7	1443.1	1495.1	1468.4	1464.0	1459.6	1455.3
30°	1025.4	1030.0	1068.0	1148.0	1275.4	1405.1	1494.4	1484.6	1479.4	1474.2	1469.0
32.5°	948.6	950.4	984.4	1072.2	1208.3	1348.9	1482.0	1509.5	1504.5	1499.4	1494.4
35°	864.0	870.1	906.3	1002.1	1132.5	1287.1	1465.4	1544.2	1541.3	1538.5	1535.6
37.5°	796.2	798.1	836.9	936.4	1071.0	1230.9	1444.3	1588.7	1590.7	1592.8	1594.8
40°	728.4	728.4	766.8	870.1	1009.6	1180.4	1426.6	1643.3	1653.6	1664.0	1674.3
42.5°	654.1	659.4	697.1	800.0	950.0	1137.4	1417.5	1709.0	1728.4	1747.8	1767.3
45°	584.7	588.2	626.6	727.2	875.8	1088.4	1414.8	1782.0	1811.6	1841.2	1870.7
47.5°	516.4	521.4	558.0	650.4	794.7	1023.2	1411.5	1865.4	1903.2	1941.0	1978.7
50°	453.2	456.2	496.8	581.0	714.8	938.8	1389.2	1958.5	2004.6	2050.8	2096.9
52.5°	386.0	392.0	425.6	512.3	634.1	847.8	1330.8	2060.0	2115.7	2171.5	2227.3
55°	315.9	314.4	354.8	436.2	563.6	760.8	1222.9	2147.8	2215.1	2282.4	2349.7
57.5°	231.4	236.3	273.3	355.8	481.8	687.7	1096.0	2193.4	2277.4	2361.4	2445.4
60°	165.8	172.6	204.7	269.9	400.4	616.0	966.2	2161.7	2273.0	2384.3	2495.6
62.5°	129.7	132.7	160.2	202.4	312.2	541.0	879.2	2079.5	2232.9	2386.4	2539.8
65°	113.1	116.5	141.0	162.9	237.1	469.8	826.8	2014.0	2216.5	2419.0	2621.5
67.5°	103.0	107.1	128.2	143.3	194.5	409.0	814.3	1960.4	2197.9	2435.5	2673.1
69°	98.0	102.2	121.8	135.8	180.6	389.8	800.0	1870.3	2111.4	2352.5	2593.7
70°	95.8	99.2	118.0	131.2	176.0	378.5	767.6	1767.4	2000.4	2233.5	2466.6
72.5°	88.2	90.1	107.4	120.2	166.6	316.6	608.1	1322.8	1517.6	1712.4	1907.1
75°	78.1	81.1	96.9	110.1	133.8	202.9	398.8	799.6	943.8	1088.1	1232.3
77.5°	67.2	69.8	83.3	105.2	102.9	122.9	229.2	446.8	524.7	602.7	680.6
80°	58.0	60.7	73.1	97.6	83.7	90.8	154.6	291.4	321.0	350.7	380.3
82.5°	45.6	47.5	61.4	79.5	64.8	67.4	115.8	254.5	272.4	290.2	308.1
85°	29.0	30.2	44.8	54.3	45.2	40.0	72.8	186.6	200.7	214.8	228.9
87.5°	10.2	14.4	20.0	18.8	18.8	14.4	25.6	69.0	74.5	80.0	85.5
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°	1262.9	1262.9	1262.9	1262.9	1262.9	1262.9	1262.9	1262.9	1262.9	1262.9	1262.9
2.5°	1267.8	1267.4	1267.8	1267.8	1267.4	1267.1	1267.1	1266.7	1266.0	1266.0	1265.6
5°	1281.6	1281.4	1282.2	1281.8	1282.2	1281.8	1281.8	1281.4	1281.8	1280.3	1279.9
7.5°	1306.7	1306.6	1306.6	1307.8	1307.0	1306.7	1307.4	1307.4	1307.4	1306.7	1306.7
10°	1339.8	1340.2	1341.0	1341.8	1341.8	1341.7	1343.2	1342.1	1344.4	1342.2	1343.2
12.5°	1377.1	1377.6	1379.4	1380.2	1380.9	1380.9	1380.9	1383.2	1384.7	1384.3	1384.7
15°	1414.4	1415.2	1415.6	1416.8	1416.8	1417.1	1418.6	1421.2	1420.6	1422.0	1422.0
17.5°	1437.6	1438.2	1437.8	1437.8	1438.6	1439.8	1441.2	1442.8	1442.4	1443.5	1444.3
20°	1448.3	1447.7	1446.6	1445.8	1445.4	1446.1	1446.2	1446.6	1447.3	1447.3	1447.3
22.5°	1448.7	1446.6	1443.9	1442.4	1440.5	1439.4	1440.1	1439.4	1439.4	1439.4	1438.6
25°	1447.7	1444.3	1440.2	1437.1	1434.1	1432.2	1430.4	1429.6	1428.1	1428.1	1428.1
27.5°	1450.9	1446.5	1442.4	1436.8	1432.6	1430.4	1427.7	1425.0	1423.6	1422.1	1422.0
30°	1463.8	1458.6	1453.3	1446.6	1440.8	1439.0	1434.1	1431.5	1427.7	1425.8	1425.1
32.5°	1489.3	1484.2	1477.0	1469.6	1465.0	1459.4	1455.2	1449.6	1445.4	1442.8	1439.4
35°	1532.7	1529.8	1523.8	1518.9	1512.2	1505.8	1497.4	1494.4	1485.8	1484.2	1480.1
37.5°	1596.8	1598.8	1597.8	1593.9	1589.4	1583.8	1580.4	1573.9	1570.6	1567.2	1563.4
40°	1684.6	1695.0	1698.4	1702.5	1703.6	1708.6	1702.9	1702.2	1697.6	1701.4	1699.2
42.5°	1786.8	1806.2	1816.8	1829.2	1842.8	1855.2	1865.0	1881.6	1879.7	1892.5	1901.6
45°	1900.2	1929.8	1957.0	1977.7	2003.8	2032.4	2057.6	2081.0	2107.4	2122.5	2144.8
47.5°	2016.5	2054.3	2093.1	2131.6	2168.5	2205.4	2250.7	2291.8	2331.7	2358.8	2393.1
50°	2143.1	2189.2	2236.0	2283.1	2335.5	2393.6	2444.0	2497.6	2552.6	2608.4	2647.6
52.5°	2283.1	2338.8	2389.8	2439.6	2504.4	2565.8	2631.4	2698.6	2781.9	2842.6	2896.4
55°	2417.1	2484.4	2540.2	2599.8	2667.6	2735.8	2816.2	2900.2	2988.4	3075.9	3155.1
57.5°	2529.4	2613.4	2679.7	2738.9	2811.6	2890.5	2976.8	3080.8	3181.5	3290.0	3392.2
60°	2606.9	2718.1	2798.1	2869.3	2953.8	3041.2	3154.0	3276.8	3409.2	3544.2	3675.3
62.5°	2693.3	2846.7	2956.0	3057.8	3157.8	3255.0	3382.0	3534.8	3714.2	3877.4	4051.2
65°	2824.0	3026.6	3187.9	3317.6	3459.3	3601.1	3749.2	3927.6	4131.5	4369.8	4572.2
67.5°	2910.7	3148.3	3353.4	3539.2	3704.8	3877.0	4064.0	4277.4	4523.6	4766.8	5018.6
69°	2834.8	3075.9	3292.6	3497.4	3678.8	3864.2	4054.2	4269.2	4520.6	4789.4	5055.2
70°	2699.6	2932.7	3156.6	3372.2	3549.4	3743.2	3930.2	4134.9	4389.8	4658.6	4947.7
72.5°	2101.9	2296.6	2526.6	2734.8	2946.2	3123.0	3291.9	3497.4	3754.5	4010.5	4292.1
75°	1376.6	1520.8	1731.2	1902.3	2085.2	2251.0	2373.6	2577.6	2733.6	2974.5	3236.2
77.5°	758.6	836.6	945.9	1085.4	1164.2	1257.7	1380.2	1454.4	1565.3	1733.8	1812.2
80°	409.9	439.6	485.6	514.6	538.0	515.0	502.5	524.8	515.4	512.7	487.4
82.5°	325.9	343.8	367.6	384.6	373.6	324.2	271.8	233.8	209.2	176.1	150.8
85°	243.0	257.2	266.2	277.4	275.5	249.2	199.4	154.2	121.0	96.5	84.1
87.5°	91.0	96.5	99.2	120.6	110.8	105.2	81.8	59.6	45.6	33.2	26.8
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°	1262.9	1262.9	1262.9	1262.9	1262.9	1262.9	1262.9	1262.9	1262.9	1262.9	1262.9
2.5°	1266.3	1266.0	1266.0	1266.0	1266.4	1265.6	1264.8	1265.6	1265.2	1265.2	1265.2
5°	1281.4	1281.0	1281.0	1281.4	1281.0	1281.4	1281.0	1279.6	1280.2	1280.6	1281.0
7.5°	1307.4	1307.0	1307.0	1309.0	1308.6	1308.2	1307.8	1308.6	1307.4	1307.4	1308.2
10°	1343.2	1344.8	1344.4	1345.5	1345.2	1344.4	1343.6	1344.4	1345.5	1345.9	1344.4
12.5°	1386.9	1387.4	1386.6	1388.4	1387.4	1389.9	1387.0	1388.4	1390.0	1387.7	1388.9
15°	1422.4	1422.4	1423.9	1424.3	1423.9	1424.6	1426.9	1425.8	1424.6	1426.6	1427.3
17.5°	1443.9	1445.0	1445.4	1445.8	1446.6	1447.3	1447.6	1447.3	1447.6	1448.4	1449.9
20°	1448.8	1448.4	1449.2	1449.6	1450.7	1450.7	1451.4	1451.1	1452.2	1452.6	1452.9
22.5°	1440.2	1440.5	1440.9	1442.0	1441.6	1442.4	1442.8	1443.9	1443.6	1444.3	1444.7
25°	1428.4	1429.2	1429.6	1429.2	1429.2	1429.6	1430.0	1429.6	1431.1	1431.8	1431.8
27.5°	1420.9	1420.9	1422.0	1421.6	1420.9	1421.6	1421.3	1421.2	1421.3	1421.7	1422.8
30°	1423.9	1422.8	1422.0	1422.0	1421.6	1420.9	1420.1	1419.0	1419.0	1419.4	1419.0
32.5°	1440.2	1437.9	1436.8	1435.6	1434.8	1433.0	1430.7	1430.0	1428.0	1428.0	1427.3
35°	1481.6	1478.9	1478.9	1474.8	1472.6	1471.4	1469.5	1463.8	1464.2	1462.0	1461.2
37.5°	1564.2	1559.6	1557.8	1561.5	1554.4	1557.4	1551.0	1548.4	1549.9	1545.7	1547.9
40°	1702.9	1710.0	1707.0	1711.2	1713.0	1713.8	1713.8	1707.4	1713.8	1703.6	1707.0
42.5°	1903.1	1922.0	1928.7	1931.0	1942.7	1939.6	1936.2	1935.8	1935.5	1940.4	1937.8
45°	2154.9	2157.6	2189.6	2195.6	2202.0	2209.2	2207.4	2215.6	2221.6	2213.4	2214.5
47.5°	2412.4	2439.2	2462.6	2475.4	2489.3	2482.2	2487.8	2491.2	2512.6	2510.4	2508.5
50°	2695.9	2740.8	2753.2	2767.2	2778.1	2800.0	2798.0	2811.2	2809.0	2826.8	2829.0
52.5°	2964.7	3014.1	3064.2	3086.1	3102.7	3128.0	3137.8	3152.1	3146.8	3145.3	3158.5
55°	3232.0	3314.6	3371.8	3428.0	3459.3	3492.8	3507.2	3527.6	3536.6	3540.8	3524.2
57.5°	3497.0	3596.2	3693.0	3762.4	3810.7	3861.2	3888.0	3910.2	3936.2	3944.9	3936.6
60°	3806.9	3952.1	4079.1	4171.8	4260.8	4315.8	4373.5	4415.8	4423.7	4459.4	4482.5
62.5°	4219.7	4396.6	4557.6	4692.5	4830.5	4933.4	5037.5	5078.9	5120.0	5147.9	5164.9
65°	4782.5	5015.5	5238.0	5429.8	5599.2	5770.3	5891.7	5955.4	6037.2	6053.4	6035.7
67.5°	5276.0	5550.9	5827.2	6071.5	6254.4	6432.0	6576.0	6681.5	6758.0	6795.8	6811.6
69°	5330.4	5609.7	5892.1	6135.6	6356.9	6534.1	6681.6	6786.4	6862.4	6927.7	6939.0
70°	5219.2	5532.8	5807.2	6053.0	6281.2	6461.8	6593.7	6713.6	6800.2	6850.4	6868.1
72.5°	4581.6	4863.6	5140.8	5423.9	5619.5	5836.3	5944.8	6041.0	6156.4	6222.0	6207.6
75°	3472.2	3716.0	3957.7	4169.6	4320.4	4400.3	4527.4	4620.5	4603.5	4714.0	4717.0
77.5°	1958.5	1990.2	2154.2	2132.3	2204.7	2206.6	2225.4	2258.2	2195.2	2324.6	2231.8
80°	475.0	468.6	502.6	462.6	459.2	455.8	444.5	466.8	469.8	446.8	450.9
82.5°	139.5	133.5	130.8	127.4	133.0	131.2	132.4	133.0	136.8	132.0	137.2
85°	76.6	72.1	71.6	69.8	69.4	65.2	64.8	64.8	62.2	63.0	62.6
87.5°	29.4	27.6	26.0	24.9	24.5	23.4	22.2	20.4	18.1	16.2	15.1
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)