

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: P180876

Luminaire Tested: **ICM-E03-LED-E1-SL4-8030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180876  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33680)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ICM-E03-LED-E1-SL4-8030  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL  
Light Source: (63) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6957.9 lumens  
Efficiency: N/A  
Efficacy: 92.5 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')  
IES Classification: Type IV - Short - Full Cutoff  
BUG Rating: B1 - U0 - G2

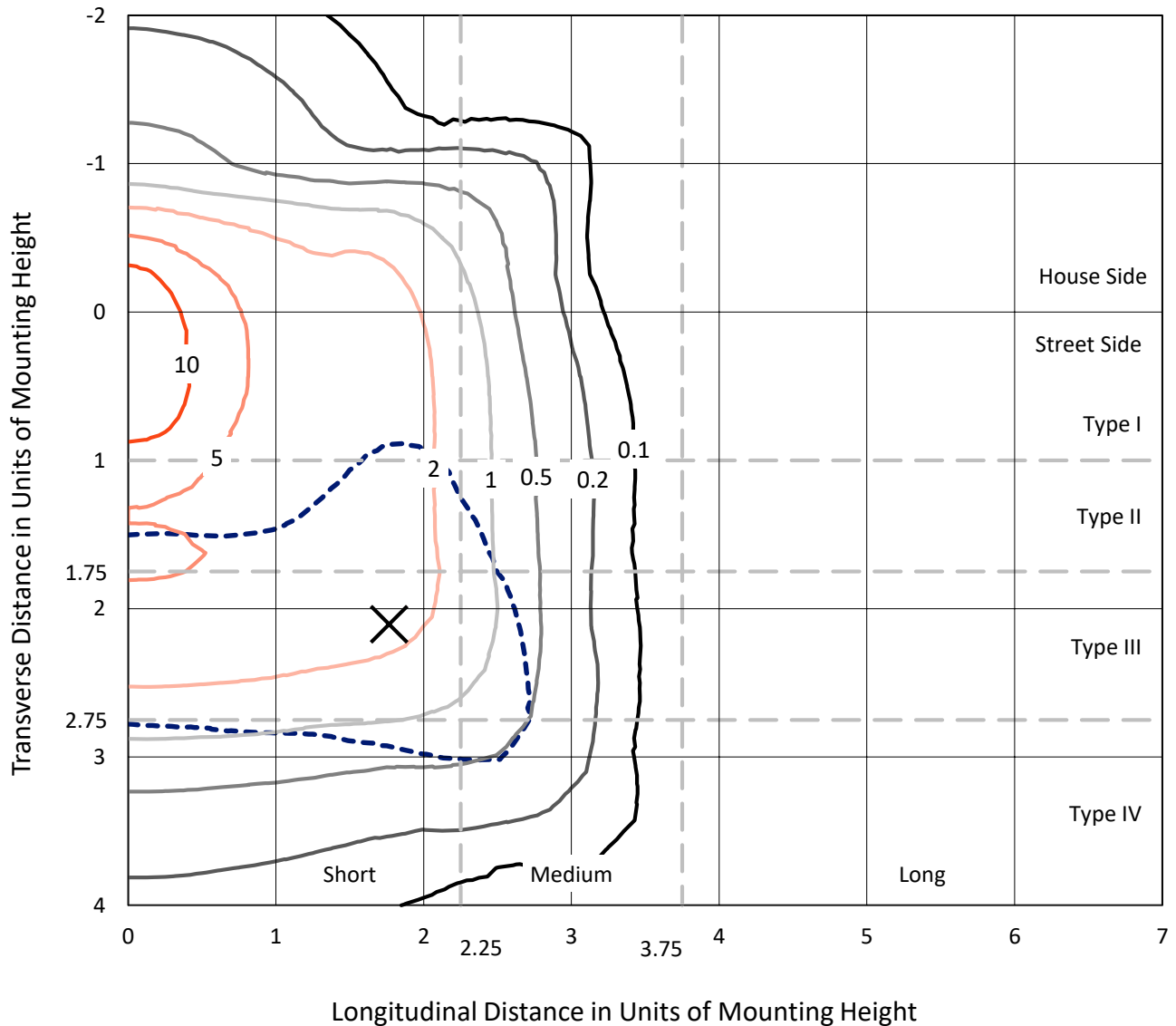
Input Watts (W): 75.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

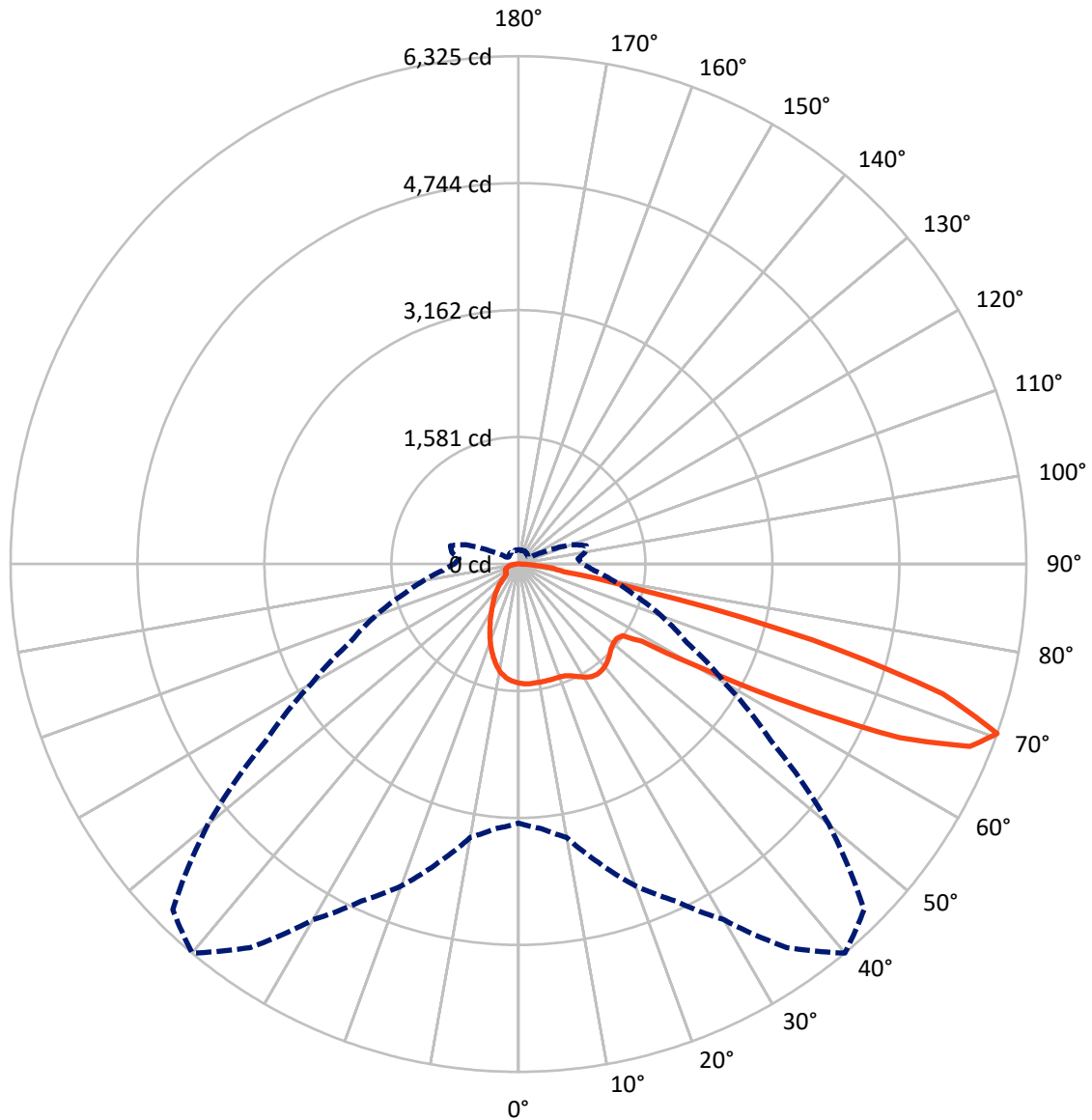
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.9 fc  
 Type IV - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1444.4	0.0	1444.4
	% Fixture	20.8	0.0	20.8
<b>Street Side</b>	Lumens	5513.5	0.0	5513.5
	% Fixture	79.2	0.0	79.2
<b>Total</b>	Lumens	6957.9	0.0	6957.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.7	2.0
10°-20°	379.7	5.5
20°-30°	562.1	8.1
30°-40°	710.3	10.2
40°-50°	803.3	11.5
50°-60°	1143.2	16.4
60°-70°	2129.0	30.6
70°-80°	975.7	14.0
80°-90°	115.8	1.7
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°	6957.9	100.0
0°-180°	6957.9	100.0



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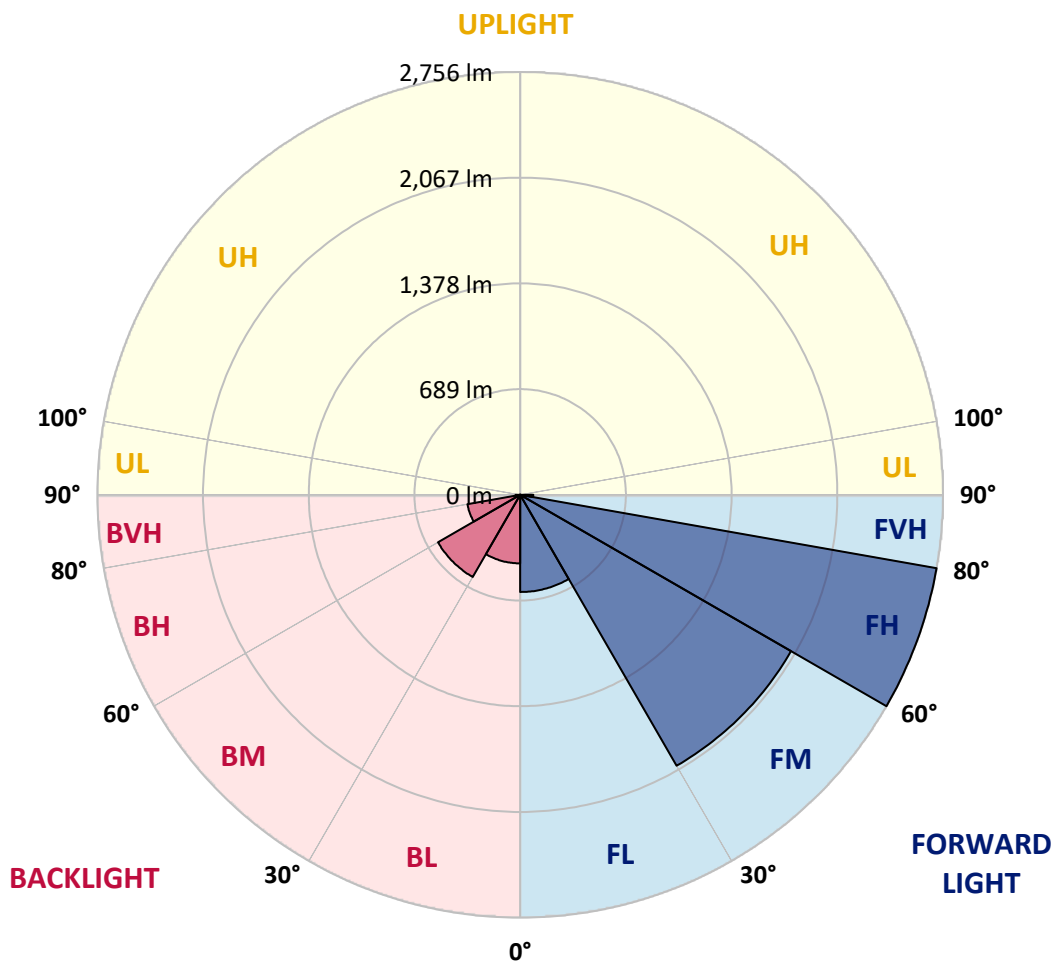
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	633.6	9.1			
FM (30°-60°)	2038.4	29.3			
FH (60°-80°)	2755.6	39.6			G2/5000
FVH (80°-90°)	85.9	1.2			G1/100
BL (0°-30°)	446.9	6.4	B1/500		
BM (30°-60°)	618.4	8.9	B1/1000		
BH (60°-80°)	349.2	5.0	B1/500		G1/500
BVH (80°-90°)	29.9	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-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1484.7	1484.7	1484.7	1484.7	1484.7	1484.7	1484.7	1484.7	1484.7	1484.7	1484.7
2.5°	1507.5	1511.4	1506.6	1505.9	1505.9	1505.0	1500.4	1499.5	1493.3	1494.1	1495.6
5°	1518.4	1520.0	1516.8	1516.0	1514.5	1511.4	1507.5	1502.7	1498.0	1493.3	1489.4
7.5°	1529.4	1527.8	1525.5	1525.5	1523.1	1518.4	1510.5	1504.3	1494.1	1488.6	1481.5
10°	1545.1	1542.7	1539.6	1538.1	1534.1	1527.1	1516.0	1507.5	1494.9	1483.8	1472.1
12.5°	1560.0	1559.3	1554.5	1552.2	1545.9	1538.8	1525.5	1512.1	1495.6	1478.3	1462.7
15°	1586.7	1583.5	1578.9	1574.1	1563.9	1554.5	1534.1	1518.4	1494.9	1472.1	1447.7
17.5°	1633.0	1627.5	1622.8	1612.7	1600.1	1583.5	1553.8	1527.1	1494.9	1461.9	1434.4
20°	1717.9	1706.1	1699.7	1686.4	1664.5	1634.6	1588.3	1545.1	1497.2	1454.8	1417.9
22.5°	1813.6	1805.8	1797.1	1788.5	1754.0	1710.8	1647.9	1583.5	1511.4	1451.6	1404.6
25°	1921.1	1911.0	1906.2	1891.4	1859.2	1809.7	1724.1	1634.6	1543.5	1464.2	1404.6
27.5°	2016.9	2013.8	2013.0	1995.7	1965.1	1907.1	1805.8	1698.2	1587.5	1490.1	1416.4
30°	2104.1	2100.9	2099.4	2090.0	2054.6	1985.6	1875.6	1754.7	1635.4	1526.2	1438.3
32.5°	2196.8	2186.5	2181.9	2163.7	2123.7	2042.9	1917.2	1791.6	1673.0	1561.6	1462.7
35°	2272.1	2263.5	2254.1	2228.1	2171.6	2075.8	1935.3	1804.2	1688.0	1581.2	1475.3
37.5°	2327.1	2318.4	2305.1	2272.1	2202.2	2086.8	1934.5	1800.3	1682.5	1578.1	1477.6
40°	2351.5	2342.8	2328.7	2287.0	2207.7	2080.6	1919.6	1782.2	1666.0	1561.6	1468.2
42.5°	2342.0	2335.7	2317.7	2277.6	2190.4	2052.3	1889.8	1748.5	1634.6	1534.9	1447.0
45°	2305.9	2301.1	2283.9	2241.5	2151.2	2006.7	1845.8	1706.1	1596.9	1502.0	1418.7
47.5°	2251.7	2250.2	2232.9	2191.3	2101.8	1961.2	1800.3	1664.5	1559.3	1469.8	1395.2
50°	2192.0	2184.2	2175.5	2137.0	2055.5	1922.0	1767.3	1638.5	1538.1	1458.0	1384.9
52.5°	2154.3	2152.0	2144.1	2109.6	2031.1	1899.2	1752.4	1629.1	1536.5	1455.6	1379.5
55°	2488.9	2494.3	2422.1	2272.1	2140.2	1962.0	1797.1	1677.0	1574.9	1493.3	1437.5
57.5°	3681.4	3657.0	3533.0	3235.5	2899.5	2455.8	2136.3	1942.3	1816.0	1830.1	1858.3
60°	4289.0	4284.4	4261.6	4146.2	3922.4	3584.9	3210.3	2780.9	2644.3	2659.2	2670.2
62.5°	4560.7	4567.7	4585.1	4541.9	4483.0	4384.9	4198.0	4025.2	3842.3	3774.1	3591.1
65°	4686.4	4698.9	4738.2	4762.4	4785.2	4802.5	4876.3	5078.9	5212.4	4962.7	4381.7
67.5°	4426.4	4486.9	4616.5	4742.8	4855.9	5016.9	5266.5	5736.8	6064.2	5757.2	4914.8
70°	3226.8	3309.2	3457.6	3848.6	4266.3	4631.4	5115.0	5831.0	6324.9	6087.8	5046.7
72.5°	2023.3	2046.0	2111.9	2255.6	2565.8	3034.4	3880.0	4954.1	5524.0	5334.8	4265.5
75°	1283.6	1291.5	1289.1	1322.1	1374.7	1476.8	1811.3	2926.2	3784.2	3489.0	2377.3
77.5°	764.7	776.5	781.2	791.4	816.6	852.7	880.1	995.5	1586.7	1540.4	862.8
80°	640.7	650.1	642.2	639.9	624.2	613.2	626.5	613.2	569.2	548.0	504.8
82.5°	339.2	338.4	336.0	358.8	405.1	441.2	468.7	462.4	418.4	356.5	302.2
85°	186.0	192.4	192.4	200.2	193.1	194.0	200.2	211.2	195.5	163.3	133.5
87.5°	15.7	24.4	19.6	24.4	32.9	23.5	22.8	22.8	19.6	14.1	12.6
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°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1484.7	1484.7	1484.7	1484.7	1484.7	1484.7	1484.7	1484.7	1484.7	1484.7	1484.7
2.5°	1491.7	1490.1	1487.0	1484.7	1484.7	1480.8	1478.3	1476.8	1476.0	1472.8	1472.8
5°	1487.0	1481.5	1476.0	1472.1	1469.8	1465.8	1459.5	1456.4	1452.5	1449.3	1447.7
7.5°	1476.8	1466.6	1458.0	1451.6	1443.8	1437.5	1429.7	1422.6	1415.5	1412.4	1410.9
10°	1461.1	1447.7	1434.4	1422.6	1411.6	1400.7	1390.4	1380.2	1371.6	1365.3	1359.0
12.5°	1446.1	1425.8	1408.5	1391.3	1374.0	1360.6	1346.4	1331.5	1319.0	1307.2	1304.1
15°	1425.8	1402.2	1380.2	1359.0	1337.9	1315.8	1298.6	1282.1	1261.7	1248.3	1238.1
17.5°	1406.9	1378.6	1352.0	1326.8	1300.9	1278.1	1252.3	1230.2	1209.9	1189.4	1174.5
20°	1386.5	1355.9	1327.6	1299.4	1271.1	1242.1	1212.2	1183.9	1158.8	1134.5	1110.1
22.5°	1368.5	1337.0	1309.6	1279.0	1247.5	1214.6	1180.0	1144.7	1115.6	1084.3	1056.0
25°	1357.5	1322.9	1294.6	1264.8	1230.2	1194.1	1154.9	1113.3	1078.0	1041.9	1008.1
27.5°	1357.5	1312.8	1283.6	1253.9	1218.5	1180.0	1136.8	1091.3	1051.3	1011.3	969.6
30°	1369.2	1314.2	1275.0	1243.6	1207.5	1165.9	1118.0	1070.1	1026.1	979.1	939.0
32.5°	1380.2	1317.4	1268.8	1228.7	1187.1	1146.2	1097.6	1046.5	997.9	953.1	910.7
35°	1387.3	1317.4	1256.9	1206.0	1158.8	1118.8	1070.9	1019.8	970.4	926.4	887.2
37.5°	1388.1	1311.2	1238.1	1180.0	1130.5	1088.9	1043.4	995.5	948.4	907.6	874.6
40°	1380.2	1298.6	1219.3	1152.6	1100.8	1058.3	1016.8	973.5	931.2	897.4	869.1
42.5°	1366.1	1285.2	1201.2	1130.5	1076.4	1032.4	994.0	957.0	920.2	891.1	867.5
45°	1344.9	1267.2	1184.8	1117.2	1063.8	1017.5	979.8	949.2	917.8	893.5	869.9
47.5°	1326.1	1260.8	1190.2	1125.9	1070.1	1022.2	983.7	957.9	933.5	917.0	884.8
50°	1322.1	1257.8	1192.6	1132.9	1076.4	1027.7	994.0	980.6	973.5	963.4	913.9
52.5°	1311.2	1256.9	1209.9	1176.8	1140.8	1118.0	1082.7	1095.3	1087.4	1051.3	961.8
55°	1426.5	1442.2	1486.2	1549.0	1607.1	1620.5	1616.6	1601.6	1522.3	1309.6	1077.2
57.5°	1961.2	2050.0	2133.1	2170.1	2165.3	2123.7	2093.9	2033.4	1918.8	1659.7	1304.8
60°	2703.9	2718.1	2674.1	2608.9	2499.0	2407.2	2309.0	2195.9	2029.5	1775.9	1444.6
62.5°	3387.7	3197.8	3002.3	2818.5	2651.4	2505.3	2368.7	2210.9	1994.2	1729.6	1426.5
65°	3870.6	3468.7	3160.1	2896.3	2659.9	2455.8	2285.5	2080.6	1836.4	1597.7	1322.1
67.5°	4119.5	3503.2	3029.8	2662.3	2327.1	2044.5	1817.5	1618.1	1436.8	1332.4	1157.2
70°	3841.5	2973.2	2313.7	1898.4	1497.2	1200.5	948.4	796.1	743.5	842.4	876.2
72.5°	2862.5	1935.3	1376.3	1064.7	815.7	650.1	498.5	391.8	318.8	334.4	434.1
75°	1353.5	835.4	590.4	449.1	357.2	296.0	241.8	221.4	185.3	153.9	144.5
77.5°	526.8	383.9	317.2	232.4	164.8	132.7	113.0	109.1	111.4	108.4	106.8
80°	401.2	271.6	170.3	124.8	107.5	95.0	84.0	80.8	82.4	86.3	90.3
82.5°	223.7	139.7	103.6	90.3	80.8	69.1	62.8	58.1	58.9	63.6	72.2
85°	86.3	67.5	62.0	59.6	55.7	44.7	38.5	39.3	44.7	53.4	53.4
87.5°	9.4	9.4	12.6	9.4	9.4	9.4	8.7	10.2	11.0	14.1	16.5
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1484.7	1484.7	1484.7	1484.7	1484.7	1484.7	1484.7	1484.7	1484.7	1484.7	1484.7
2.5°	1471.3	1471.3	1471.3	1469.8	1470.5	1467.4	1467.4	1465.0	1468.9	1466.6	1465.8
5°	1448.6	1447.7	1444.6	1444.6	1444.6	1444.6	1447.0	1440.7	1445.4	1445.4	1443.1
7.5°	1410.1	1410.1	1401.4	1406.1	1404.6	1406.9	1410.1	1406.9	1411.6	1414.8	1412.4
10°	1356.7	1356.7	1349.6	1355.1	1352.8	1358.2	1363.7	1360.6	1363.7	1368.5	1370.1
12.5°	1297.8	1294.6	1288.4	1290.7	1290.7	1293.9	1296.2	1300.1	1304.1	1310.3	1313.5
15°	1229.5	1224.8	1216.9	1216.9	1212.2	1213.8	1218.5	1220.1	1227.9	1236.6	1246.8
17.5°	1159.6	1147.8	1139.2	1129.0	1121.1	1127.4	1132.9	1136.8	1143.2	1156.5	1163.5
20°	1093.7	1070.1	1053.6	1040.3	1031.6	1035.5	1042.6	1047.4	1052.8	1056.0	1058.3
22.5°	1028.5	1001.8	979.1	962.5	948.4	952.4	949.2	946.9	950.8	940.6	939.8
25°	972.0	940.6	910.0	890.3	873.0	867.5	851.1	847.2	836.2	827.5	821.2
27.5°	931.2	890.3	856.6	833.8	806.3	785.9	764.7	743.5	731.7	717.6	710.5
30°	899.0	855.8	815.7	777.3	741.1	709.8	681.5	654.0	635.2	614.7	601.4
32.5°	869.1	829.1	780.4	727.8	679.2	643.8	606.9	575.4	545.7	519.0	499.4
35°	848.7	803.9	742.0	677.6	622.6	581.0	541.8	496.9	460.8	426.3	405.1
37.5°	837.7	782.8	706.6	635.2	574.0	526.8	478.1	426.3	382.3	350.1	318.0
40°	829.1	761.6	675.2	597.5	533.1	476.6	420.0	358.8	310.1	276.4	251.3
42.5°	819.6	738.1	647.7	567.6	496.2	430.2	362.0	296.7	250.4	226.9	215.9
45°	809.5	717.6	621.8	539.4	460.1	380.0	301.5	241.0	213.6	205.7	205.7
47.5°	807.1	704.3	603.0	511.9	419.3	321.9	245.8	208.1	200.2	201.8	204.9
50°	816.6	700.3	586.5	479.7	365.1	260.7	208.1	195.5	197.0	201.8	206.5
52.5°	839.3	703.4	569.2	435.0	300.7	215.2	192.4	191.5	196.3	203.4	208.1
55°	877.8	703.4	536.2	368.2	240.3	193.1	186.9	190.0	196.3	202.5	206.5
57.5°	960.2	696.4	478.1	294.4	201.0	185.3	185.3	189.2	194.7	201.0	204.1
60°	1058.3	687.0	396.5	227.7	181.4	179.0	184.5	189.2	194.0	199.4	202.5
62.5°	1064.7	662.6	314.0	188.5	171.2	175.1	183.7	190.0	191.5	195.5	199.4
65°	978.2	577.9	249.7	168.8	166.4	172.7	181.4	186.0	186.9	188.5	192.4
67.5°	856.6	471.1	201.8	159.3	161.8	168.8	173.5	177.4	179.8	183.7	184.5
70°	703.4	378.4	172.7	150.0	152.3	160.2	164.1	168.0	172.7	177.4	175.1
72.5°	498.5	294.4	151.5	139.7	142.9	150.0	154.7	157.8	161.8	166.4	163.3
75°	212.0	205.7	131.1	126.4	131.1	135.8	140.6	145.2	149.2	151.5	151.5
77.5°	108.4	120.9	113.0	113.0	116.2	120.9	124.8	129.6	131.9	134.2	137.4
80°	91.8	93.4	95.0	98.1	101.3	106.0	110.0	113.9	114.6	115.4	117.0
82.5°	76.2	79.3	80.8	85.6	87.9	89.5	91.8	91.8	93.4	93.4	91.1
85°	55.0	58.9	61.2	62.0	61.2	62.0	62.8	64.4	68.3	68.3	65.2
87.5°	15.7	14.9	18.9	19.6	21.2	24.4	27.4	32.9	34.5	36.1	36.1
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°	170°	175°	180°
0°	1484.7	1484.7	1484.7	1484.7
2.5°	1465.0	1466.6	1463.5	1464.2
5°	1443.1	1446.1	1442.2	1447.0
7.5°	1414.8	1419.5	1418.7	1417.9
10°	1374.0	1380.2	1380.2	1382.6
12.5°	1322.1	1326.1	1329.2	1330.8
15°	1252.3	1259.4	1263.3	1263.3
17.5°	1168.3	1172.9	1175.4	1172.2
20°	1061.5	1059.9	1060.7	1052.8
22.5°	938.2	940.6	933.5	935.1
25°	817.3	813.4	816.6	811.8
27.5°	700.3	701.1	692.5	696.4
30°	588.8	584.9	574.0	579.4
32.5°	481.3	471.1	459.3	452.2
35°	380.0	364.3	358.8	356.5
37.5°	298.3	281.0	275.5	269.3
40°	237.1	230.8	228.5	230.0
42.5°	212.7	212.7	214.3	215.2
45°	206.5	208.8	211.2	212.0
47.5°	207.3	209.6	212.7	213.6
50°	208.8	211.2	213.6	214.3
52.5°	209.6	209.6	211.2	212.0
55°	208.1	207.3	208.1	208.8
57.5°	204.9	203.4	204.1	206.5
60°	203.4	201.0	202.5	204.1
62.5°	199.4	198.6	200.2	201.0
65°	190.8	191.5	194.0	194.0
67.5°	182.9	183.7	184.5	185.3
70°	173.5	174.3	175.9	176.7
72.5°	162.5	165.7	168.0	171.2
75°	153.9	157.0	161.8	164.8
77.5°	139.0	141.3	146.8	150.7
80°	117.8	117.0	117.8	120.1
82.5°	90.3	90.3	89.5	88.7
85°	63.6	62.8	60.5	60.5
87.5°	34.5	33.8	32.9	31.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)