

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: P181662

Luminaire Tested: **ICM-F05-LED-E1-T4-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181662
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33673)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-F05-LED-E1-T4-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (35) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9793.4 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 133.3
Input Voltage (V): NR
Input Current (A_{in}): 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

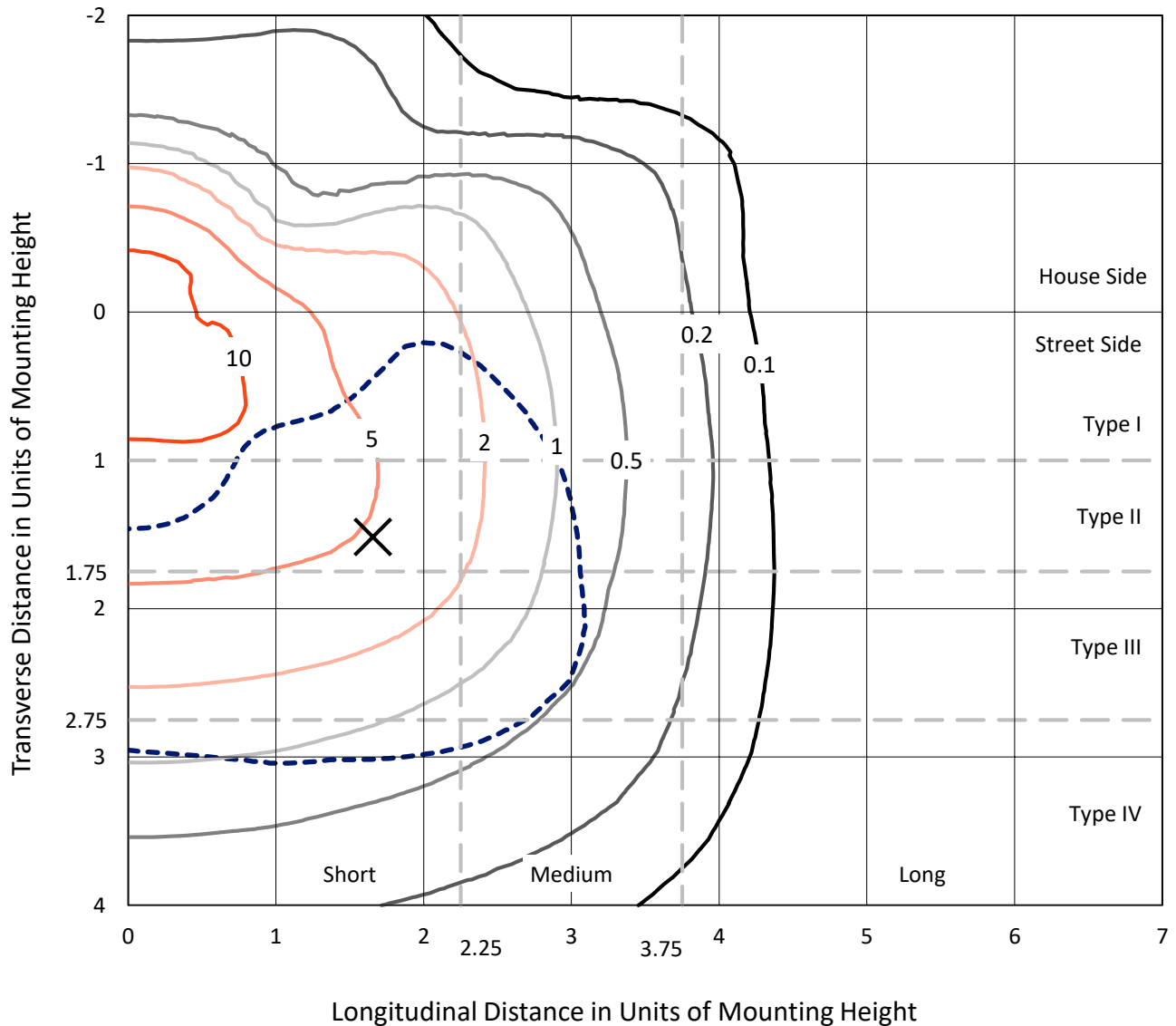


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

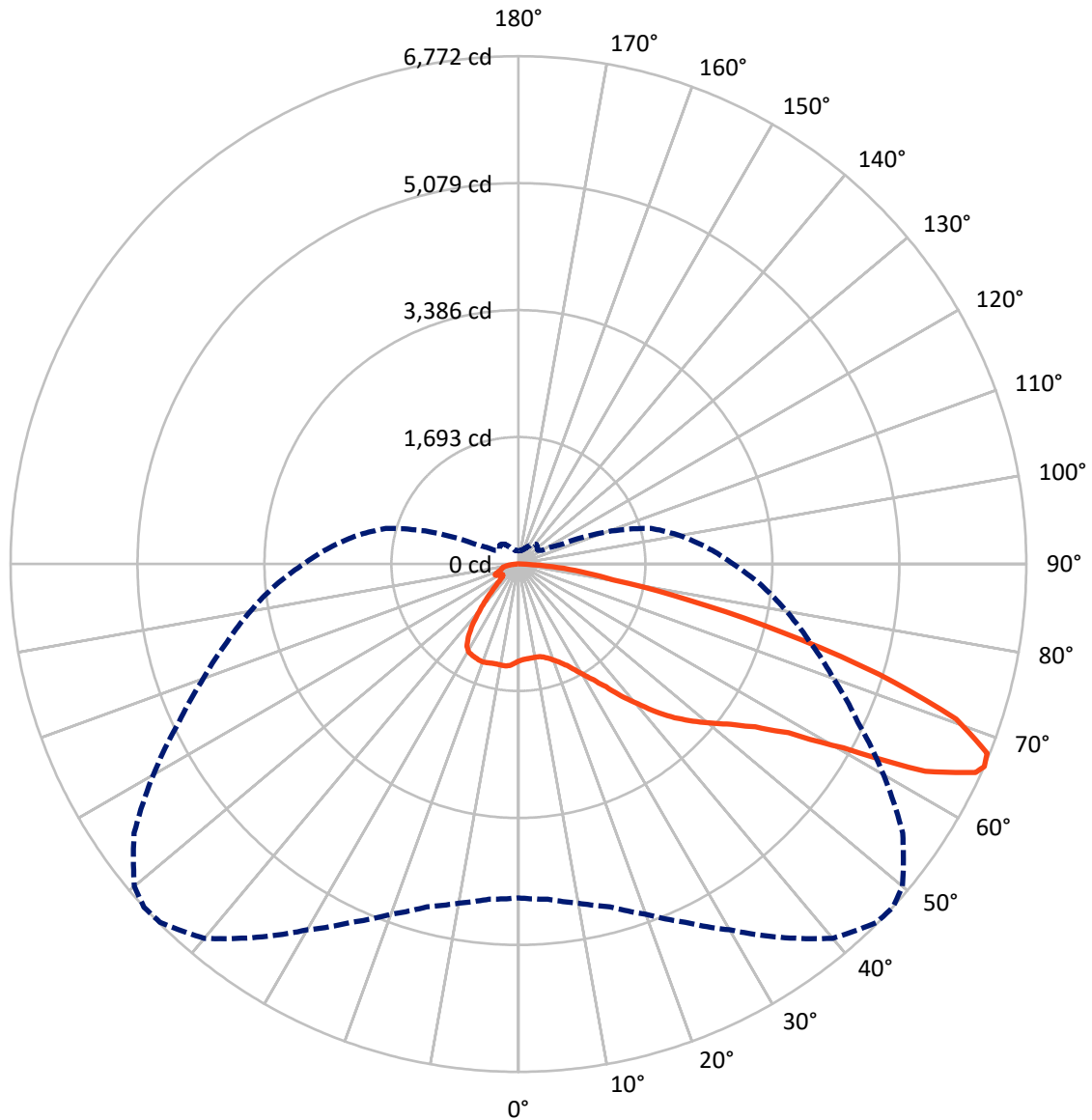


Based on 10 foot mounting height. Maximum calculated value = 13.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2089.7	0.0	2089.7
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	7703.7	0.0	7703.7
	% Fixture	78.7	0.0	78.7
Total	Lumens	9793.4	0.0	9793.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.3	1.3
10°-20°	380.6	3.9
20°-30°	655.5	6.7
30°-40°	991.8	10.1
40°-50°	1285.5	13.1
50°-60°	1772.3	18.1
60°-70°	2753.5	28.1
70°-80°	1601.2	16.3
80°-90°	227.7	2.3
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°	9793.4	100.0
0°-180°	9793.4	100.0



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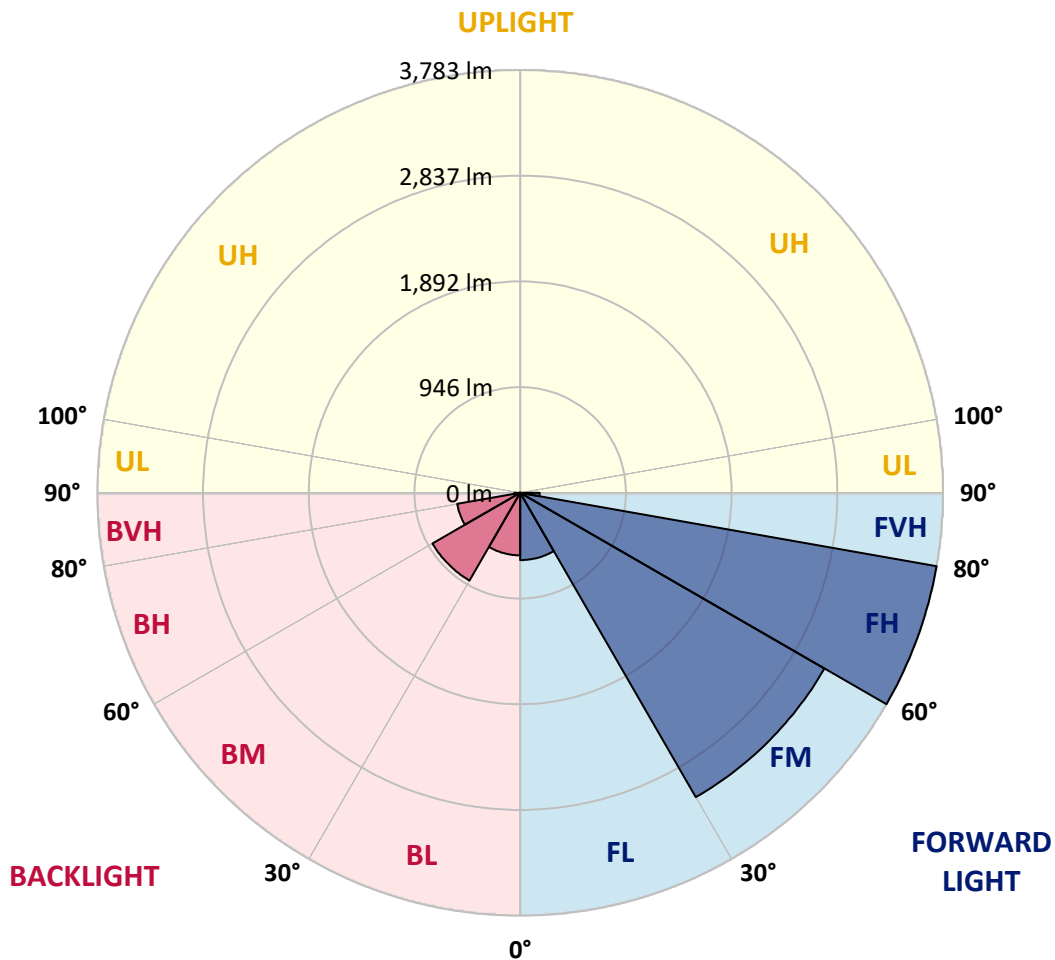
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	602.1	6.1			
FM	(30°-60°)	3143.7	32.1			
FH	(60°-80°)	3783.2	38.6			G2/5000
FVH	(80°-90°)	174.7	1.8			G2/225
BL	(0°-30°)	559.3	5.7	B2/1000		
BM	(30°-60°)	905.9	9.2	B1/1000		
BH	(60°-80°)	571.5	5.8	B2/1000		G2/1000
BVH	(80°-90°)	52.9	0.5			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	1290.9	1290.9	1290.9	1290.9	1290.9	1290.9	1290.9	1290.9	1290.9	1290.9	1290.9
2.5°	1267.1	1271.4	1268.2	1269.2	1269.2	1270.3	1270.3	1271.4	1270.3	1273.6	1275.7
5°	1244.4	1246.6	1245.5	1247.6	1249.8	1254.1	1253.0	1258.4	1259.5	1262.8	1268.2
7.5°	1235.7	1233.6	1234.7	1238.0	1240.1	1242.2	1244.4	1248.8	1252.0	1259.5	1263.8
10°	1244.4	1243.4	1244.4	1246.6	1246.6	1247.6	1245.5	1249.8	1252.0	1258.4	1262.8
12.5°	1280.1	1280.1	1277.9	1277.9	1275.7	1273.6	1268.2	1264.9	1263.8	1264.9	1267.1
15°	1337.3	1335.2	1330.8	1327.5	1323.3	1315.7	1308.1	1301.7	1297.3	1290.9	1288.7
17.5°	1393.5	1390.2	1386.0	1381.6	1376.2	1368.7	1356.8	1349.2	1337.3	1329.8	1325.4
20°	1458.3	1451.8	1446.4	1441.0	1430.2	1428.0	1416.2	1403.2	1389.1	1371.9	1369.7
22.5°	1542.5	1531.7	1525.3	1522.1	1511.3	1508.0	1488.6	1470.1	1452.8	1430.2	1424.8
25°	1627.9	1617.1	1613.9	1609.5	1602.0	1597.7	1579.3	1558.7	1536.1	1504.8	1498.2
27.5°	1711.1	1712.1	1703.5	1706.7	1704.6	1697.0	1678.6	1658.1	1640.8	1604.1	1596.6
30°	1814.8	1808.3	1803.9	1810.4	1802.9	1803.9	1787.7	1776.9	1748.8	1727.3	1712.1
32.5°	1922.8	1921.7	1928.2	1932.5	1931.5	1929.2	1916.3	1905.5	1880.7	1849.3	1842.9
35°	2070.8	2077.2	2082.6	2102.1	2102.1	2116.1	2103.2	2090.2	2061.0	2023.3	2010.2
37.5°	2171.3	2173.4	2195.0	2220.9	2253.3	2283.5	2292.2	2295.5	2283.5	2255.5	2236.0
40°	2263.1	2267.4	2302.0	2341.9	2389.4	2448.9	2484.5	2500.7	2503.9	2491.0	2448.9
42.5°	2354.9	2361.3	2397.0	2455.4	2521.2	2596.9	2659.5	2699.5	2722.2	2722.2	2697.3
45°	2461.8	2470.4	2509.3	2573.0	2649.8	2744.9	2831.3	2907.9	2944.7	2946.8	2923.1
47.5°	2588.2	2595.7	2641.1	2706.0	2784.8	2880.9	2990.1	3077.5	3145.6	3149.9	3130.4
50°	2751.3	2762.2	2799.9	2858.3	2939.3	3036.5	3145.6	3267.6	3338.9	3356.2	3335.7
52.5°	2967.4	2969.5	3000.9	3054.8	3133.7	3226.6	3342.2	3475.1	3569.0	3583.1	3549.6
55°	3265.5	3262.3	3282.8	3341.1	3400.5	3472.9	3592.8	3741.9	3846.6	3868.2	3833.7
57.5°	3670.5	3667.4	3684.6	3698.6	3809.9	3880.1	3997.9	4140.5	4242.0	4304.7	4245.2
60°	4298.2	4294.9	4323.0	4405.1	4488.3	4590.9	4705.4	4876.1	5018.7	5037.1	4978.7
62.5°	4753.0	4769.1	4830.7	4926.9	5095.4	5296.3	5505.9	5730.5	6023.3	6116.2	6088.1
65°	4594.2	4626.5	4711.9	4857.7	5082.4	5360.0	5688.4	6095.7	6487.8	6707.1	6700.6
66°	4451.6	4487.2	4592.0	4732.4	4970.1	5273.6	5632.2	6076.2	6514.8	6756.8	6771.9
67.5°	4192.3	4232.3	4334.9	4501.2	4732.4	5055.4	5441.1	5923.9	6419.8	6701.6	6741.6
70°	3687.8	3733.2	3807.7	3945.0	4172.9	4461.3	4867.5	5299.6	5819.1	6142.1	6190.7
72.5°	3082.9	3122.9	3206.1	3318.4	3505.3	3686.8	4005.4	4324.1	4695.7	5064.0	5028.4
75°	2213.4	2230.6	2280.3	2402.4	2502.9	2666.0	2922.0	3183.4	3437.2	3605.8	3629.5
77.5°	1150.4	1195.8	1266.1	1401.0	1510.1	1657.0	1823.4	2020.0	2205.8	2360.3	2318.2
80°	752.9	772.4	835.0	904.1	984.1	1078.1	1189.3	1262.8	1286.5	1276.8	1286.5
82.5°	434.2	469.9	553.0	606.0	665.4	697.9	786.4	870.6	918.1	858.8	837.2
85°	55.1	71.3	224.7	283.0	324.1	372.7	399.7	450.4	420.2	375.9	458.0
87.5°	11.9	10.8	15.2	32.4	33.5	28.1	52.9	56.2	34.6	17.3	21.6
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	1290.9	1290.9	1290.9	1290.9	1290.9	1290.9	1290.9	1290.9	1290.9	1290.9	1290.9
2.5°	1277.9	1279.0	1281.1	1284.4	1286.5	1288.7	1290.9	1294.1	1296.3	1298.4	1302.7
5°	1272.5	1276.8	1281.1	1285.5	1290.9	1299.5	1304.9	1309.2	1313.6	1322.1	1325.4
7.5°	1269.2	1276.8	1283.3	1290.9	1299.5	1307.1	1316.8	1322.1	1328.7	1334.1	1340.6
10°	1267.1	1277.9	1284.4	1295.2	1304.9	1312.5	1323.3	1329.8	1337.3	1343.8	1347.0
12.5°	1271.4	1276.8	1283.3	1294.1	1306.0	1316.8	1328.7	1334.1	1340.6	1346.0	1347.0
15°	1289.8	1289.8	1290.9	1299.5	1311.4	1320.0	1329.8	1335.2	1338.4	1341.6	1341.6
17.5°	1323.3	1315.7	1310.3	1311.4	1319.0	1324.4	1329.8	1329.8	1327.5	1326.5	1324.4
20°	1362.1	1352.5	1341.6	1334.1	1331.9	1327.5	1324.4	1313.6	1304.9	1297.3	1291.9
22.5°	1418.3	1403.2	1388.1	1374.1	1361.0	1344.8	1326.5	1304.9	1284.4	1270.3	1261.7
25°	1487.5	1475.5	1457.2	1435.6	1419.5	1389.1	1365.4	1334.1	1308.1	1289.8	1274.6
27.5°	1585.8	1571.7	1554.4	1535.0	1511.3	1477.8	1448.6	1411.8	1380.5	1353.5	1334.1
30°	1707.8	1689.5	1676.5	1652.8	1636.6	1598.7	1569.6	1524.2	1463.7	1420.5	1393.5
32.5°	1833.1	1812.6	1801.8	1783.5	1765.0	1742.4	1698.1	1627.9	1550.1	1479.9	1433.4
35°	2000.6	1979.0	1959.5	1943.3	1916.3	1874.2	1835.3	1751.0	1644.1	1545.8	1468.0
37.5°	2211.2	2175.5	2127.0	2085.9	2038.3	1977.9	1918.4	1832.0	1710.0	1582.5	1478.8
40°	2435.9	2373.2	2304.1	2227.4	2145.3	2057.8	1989.8	1902.2	1765.0	1613.9	1471.3
42.5°	2670.3	2570.9	2474.8	2366.7	2252.3	2148.6	2060.0	1963.8	1806.2	1622.5	1441.0
45°	2902.5	2791.3	2645.4	2503.9	2359.2	2230.6	2131.3	2023.3	1843.9	1625.7	1401.0
47.5°	3094.8	2980.3	2814.0	2636.9	2465.0	2319.3	2202.5	2085.9	1894.7	1648.4	1391.4
50°	3297.9	3158.5	2973.9	2764.3	2569.9	2406.7	2282.5	2161.5	1966.0	1706.7	1422.6
52.5°	3519.4	3359.5	3143.5	2909.0	2696.2	2513.7	2378.6	2254.4	2056.8	1788.8	1482.1
55°	3789.4	3593.9	3359.5	3094.8	2866.9	2664.9	2515.8	2368.9	2164.8	1886.1	1556.6
57.5°	4202.1	3962.3	3698.6	3397.3	3144.5	2905.8	2727.6	2558.0	2332.2	2030.8	1658.1
60°	4948.5	4692.5	4350.1	3985.0	3687.8	3409.1	3147.7	2937.1	2659.5	2316.0	1882.8
62.5°	6017.9	5677.6	5220.7	4709.7	4320.9	3919.0	3624.1	3310.9	2966.3	2595.7	2147.5
65°	6612.0	6199.4	5587.9	4994.9	4494.8	4058.4	3683.6	3320.6	2938.2	2583.9	2209.0
66°	6685.4	6255.6	5620.4	4996.0	4471.0	4022.7	3628.5	3252.6	2861.5	2523.4	2183.1
67.5°	6655.2	6215.6	5561.0	4902.0	4368.4	3886.6	3479.4	3089.4	2699.5	2384.0	2096.7
70°	6159.4	5742.5	5099.7	4461.3	3954.6	3479.4	3090.5	2707.0	2349.5	2079.5	1867.7
72.5°	5114.8	4758.4	4199.8	3698.6	3301.1	2909.0	2579.6	2213.4	1910.9	1711.1	1585.8
75°	3692.2	3476.1	2967.4	2680.0	2331.1	2070.8	1751.0	1533.9	1316.8	1219.5	1198.0
77.5°	2332.2	2041.6	1718.6	1415.1	1163.4	964.7	750.8	637.3	531.4	520.7	628.7
80°	1180.7	1062.9	818.8	652.5	548.7	444.0	351.1	265.8	185.8	223.6	267.9
82.5°	773.4	644.9	505.6	415.9	361.9	300.3	233.3	162.0	118.8	134.0	183.6
85°	418.0	356.5	287.4	226.9	183.6	164.2	110.1	77.8	76.7	82.1	104.7
87.5°	30.2	30.2	23.7	21.6	26.0	21.6	19.4	19.4	18.3	19.4	26.0
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1290.9	1290.9	1290.9	1290.9	1290.9	1290.9	1290.9	1290.9	1290.9	1290.9	1290.9
2.5°	1304.9	1308.1	1309.2	1314.6	1317.9	1320.0	1322.1	1322.1	1323.3	1326.5	1327.5
5°	1329.8	1335.2	1341.6	1346.0	1348.1	1354.6	1356.8	1356.8	1358.9	1363.3	1366.5
7.5°	1344.8	1352.5	1358.9	1361.0	1365.4	1367.5	1370.8	1372.9	1372.9	1377.3	1379.5
10°	1350.2	1354.6	1361.0	1361.0	1365.4	1365.4	1368.7	1369.7	1369.7	1374.1	1377.3
12.5°	1350.2	1352.5	1357.9	1357.9	1361.0	1362.1	1366.5	1369.7	1370.8	1376.2	1380.5
15°	1343.8	1346.0	1350.2	1351.4	1358.9	1363.3	1372.9	1379.5	1379.5	1384.8	1387.0
17.5°	1325.4	1330.8	1339.5	1348.1	1362.1	1371.9	1383.7	1389.1	1384.8	1381.6	1378.3
20°	1295.2	1304.9	1325.4	1347.0	1371.9	1384.8	1391.4	1386.0	1370.8	1355.6	1346.0
22.5°	1264.9	1284.4	1319.0	1351.4	1379.5	1388.1	1384.8	1365.4	1340.6	1322.1	1309.2
25°	1279.0	1301.7	1335.2	1364.3	1382.7	1380.5	1367.5	1340.6	1313.6	1289.8	1268.2
27.5°	1337.3	1362.1	1380.5	1390.2	1388.1	1372.9	1352.5	1322.1	1289.8	1258.4	1228.2
30°	1392.4	1405.4	1409.7	1402.1	1384.8	1360.0	1334.1	1299.5	1256.3	1217.4	1182.8
32.5°	1417.2	1404.3	1383.7	1363.3	1335.2	1313.6	1277.9	1240.1	1186.1	1139.6	1105.0
35°	1417.2	1365.4	1313.6	1270.3	1228.2	1201.2	1160.2	1109.4	1059.7	1020.8	993.8
37.5°	1386.0	1286.5	1201.2	1131.0	1078.1	1048.9	987.4	942.0	899.8	886.9	869.6
40°	1328.7	1181.8	1058.6	966.8	899.8	856.7	795.1	763.7	747.5	741.0	737.8
42.5°	1252.0	1065.1	900.9	787.4	715.1	666.5	625.4	606.0	604.9	603.8	603.8
45°	1169.9	939.8	747.5	612.5	548.7	505.6	486.1	478.5	485.0	483.9	485.0
47.5°	1119.1	844.7	607.1	463.4	414.8	386.7	377.0	380.3	385.7	383.4	383.4
50°	1112.7	796.1	513.1	360.7	324.1	310.0	307.8	307.8	311.1	308.9	307.8
52.5°	1136.4	788.6	464.5	310.0	280.8	268.9	266.8	265.8	264.7	258.1	252.7
55°	1177.4	805.9	450.4	297.0	266.8	253.9	250.6	248.5	244.1	235.4	225.8
57.5°	1259.5	859.8	463.4	303.5	271.2	260.4	257.1	257.1	248.5	234.4	220.4
60°	1457.2	997.0	516.4	328.4	291.6	280.8	283.0	282.0	268.9	248.5	226.9
62.5°	1712.1	1176.4	585.5	363.0	317.6	315.4	326.2	324.1	302.4	271.2	239.8
65°	1829.9	1260.7	604.9	370.5	323.0	332.7	354.3	352.2	325.1	282.0	242.0
66°	1832.0	1260.7	596.3	364.0	315.4	327.4	348.9	347.8	320.8	277.6	237.7
67.5°	1787.7	1226.1	571.4	351.1	300.3	308.9	328.4	327.4	302.4	266.8	229.0
70°	1621.4	1097.5	507.7	328.4	279.8	275.4	282.0	277.6	261.4	236.6	210.6
72.5°	1389.1	921.4	442.9	311.1	265.8	248.5	244.1	240.9	227.9	213.9	197.7
75°	1094.2	729.1	388.8	298.1	252.7	230.0	222.5	218.2	209.6	199.8	186.9
77.5°	675.2	521.8	339.2	280.8	243.1	220.4	215.0	208.5	195.5	183.6	174.0
80°	301.4	323.0	278.7	245.2	217.1	196.6	188.0	178.2	165.3	157.7	152.3
82.5°	200.9	208.5	202.0	183.6	164.2	148.0	135.1	135.1	132.8	126.4	124.2
85°	128.6	129.6	125.3	113.4	105.9	96.1	90.7	91.8	96.1	95.1	94.0
87.5°	29.2	29.2	34.6	32.4	37.8	40.0	43.2	46.4	52.9	52.9	56.2
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):

	160°	165°	170°	175°	180°
0°	1290.9	1290.9	1290.9	1290.9	1290.9
2.5°	1328.7	1330.8	1333.0	1329.8	1330.8
5°	1366.5	1365.4	1370.8	1367.5	1369.7
7.5°	1378.3	1379.5	1383.7	1383.7	1384.8
10°	1379.5	1381.6	1387.0	1390.2	1392.4
12.5°	1384.8	1389.1	1397.8	1399.9	1399.9
15°	1389.1	1391.4	1396.8	1398.9	1401.0
17.5°	1374.1	1369.7	1371.9	1372.9	1371.9
20°	1336.2	1331.9	1330.8	1326.5	1328.7
22.5°	1295.2	1283.3	1275.7	1267.1	1267.1
25°	1245.5	1227.2	1212.0	1196.8	1200.1
27.5°	1199.1	1175.3	1160.2	1150.4	1148.3
30°	1153.7	1128.8	1114.8	1102.9	1102.9
32.5°	1078.1	1060.8	1042.4	1034.9	1033.8
35°	973.3	962.5	947.4	944.1	938.7
37.5°	855.5	852.3	839.4	838.2	832.8
40°	732.4	734.5	730.2	728.1	724.8
42.5°	609.2	620.0	617.9	616.8	614.6
45°	491.5	499.1	500.1	503.4	508.7
47.5°	386.7	388.8	391.1	390.0	391.1
50°	302.4	297.0	296.0	292.7	296.0
52.5°	244.1	235.4	231.2	226.9	224.7
55°	215.0	206.3	202.0	199.8	197.7
57.5°	207.4	198.8	192.3	188.0	186.9
60°	209.6	196.6	188.0	182.5	181.5
62.5°	215.0	197.7	185.8	180.4	179.3
65°	213.9	195.5	184.7	178.2	177.1
66°	210.6	193.4	182.5	177.1	176.1
67.5°	205.2	190.1	180.4	176.1	174.0
70°	195.5	185.8	178.2	172.8	170.7
72.5°	186.9	179.3	172.8	167.4	166.3
75°	177.1	170.7	164.2	159.9	158.8
77.5°	165.3	158.8	154.5	151.3	150.1
80°	145.9	141.5	137.2	132.8	132.8
82.5°	121.0	117.8	113.4	110.1	109.1
85°	92.9	92.9	89.7	86.4	85.3
87.5°	55.1	54.0	54.0	50.8	50.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)