

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: P181647

Luminaire Tested: **ICM-E04-LED-E1-T4-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181647
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-E04-LED-E1-T4-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (84) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9490.6 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 97.2
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

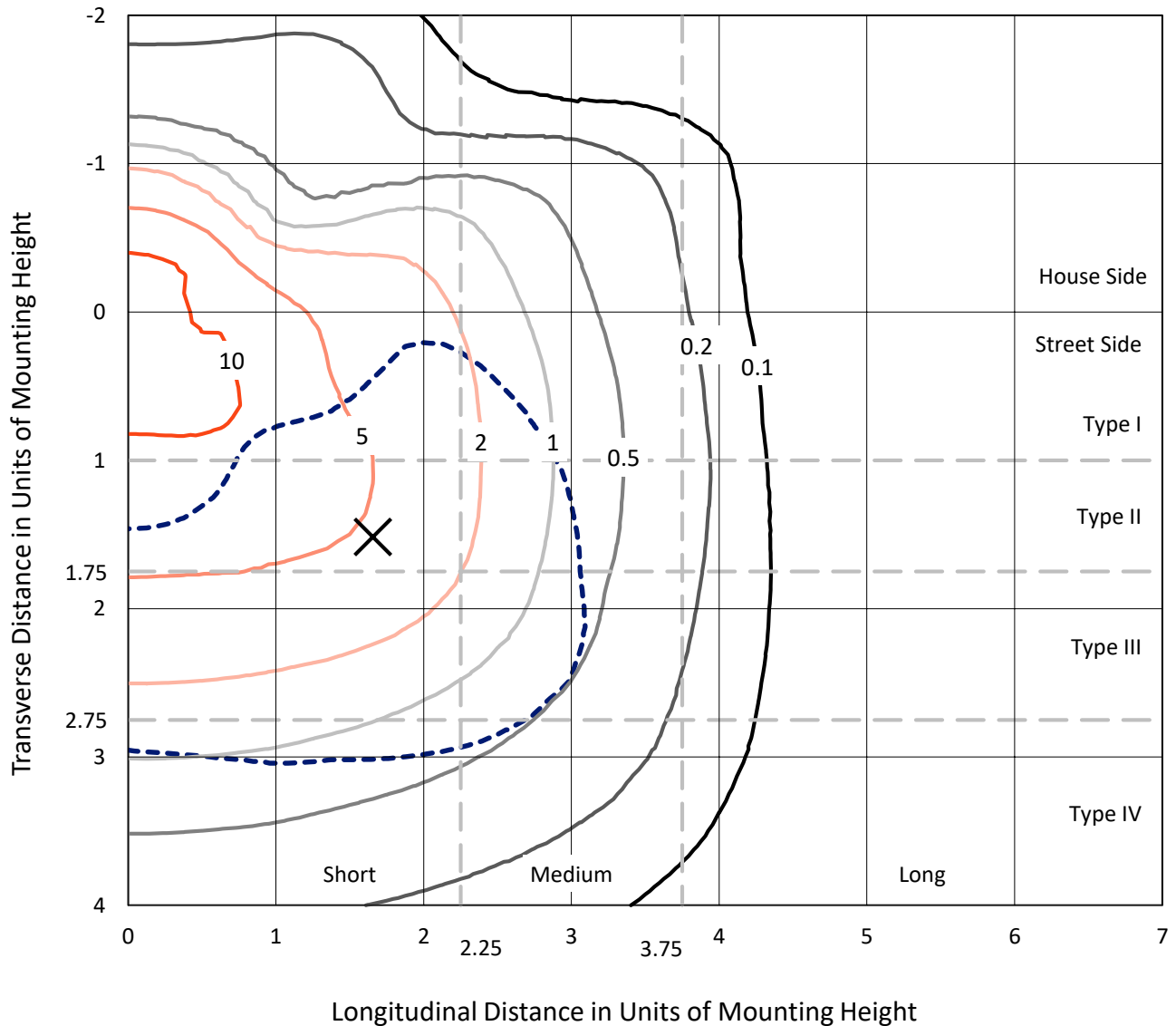


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

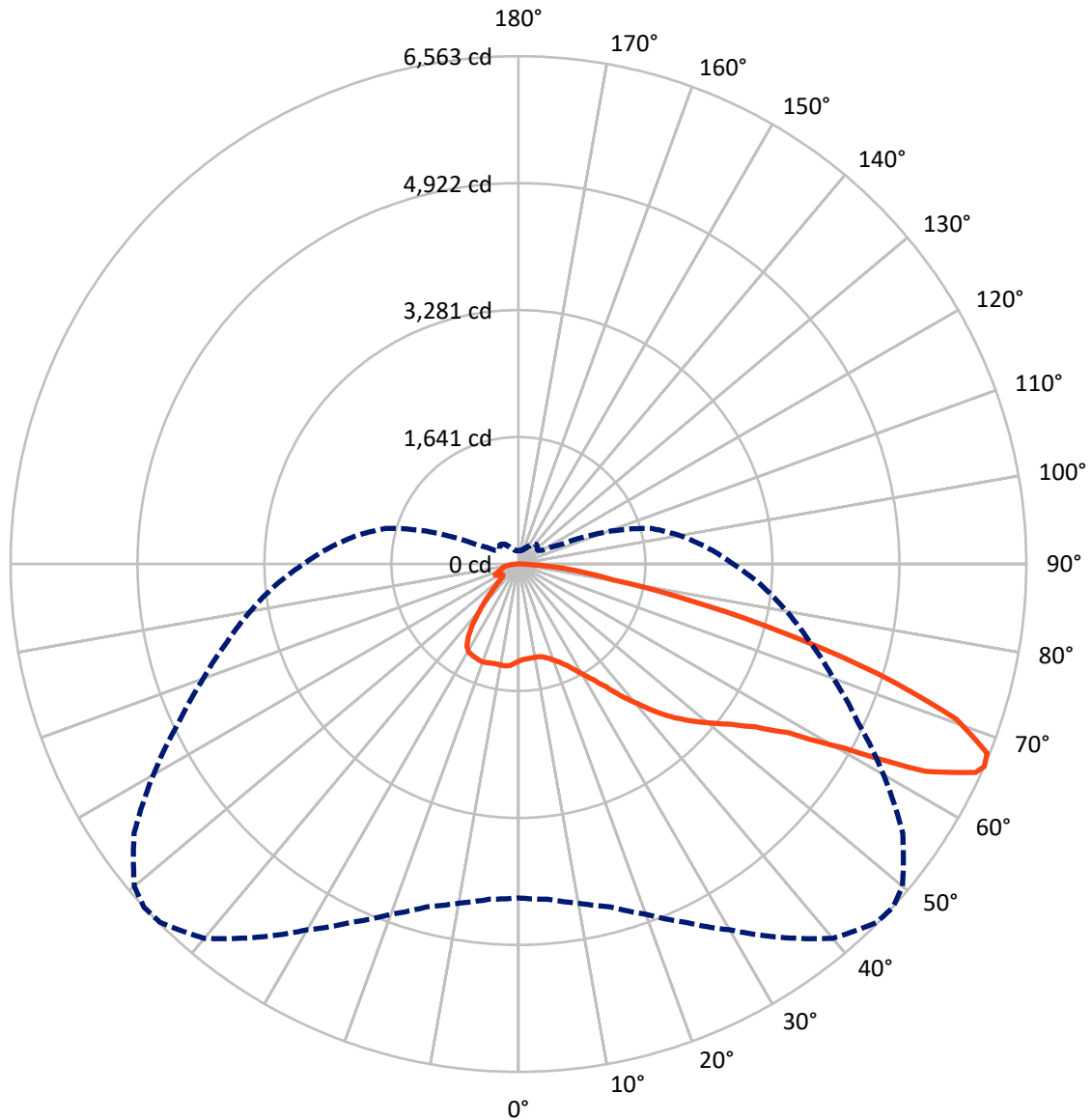


Based on 10 foot mounting height. Maximum calculated value = 13.1 fc
 Type IV - Short - Semi-Cutoff

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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	2025.1	0.0	2025.1
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	7465.5	0.0	7465.5
	% Fixture	78.7	0.0	78.7
Total	Lumens	9490.6	0.0	9490.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.5	1.3
10°-20°	368.8	3.9
20°-30°	635.3	6.7
30°-40°	961.1	10.1
40°-50°	1245.7	13.1
50°-60°	1717.5	18.1
60°-70°	2668.4	28.1
70°-80°	1551.7	16.3
80°-90°	220.7	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°	9490.6	100.0
0°-180°	9490.6	100.0



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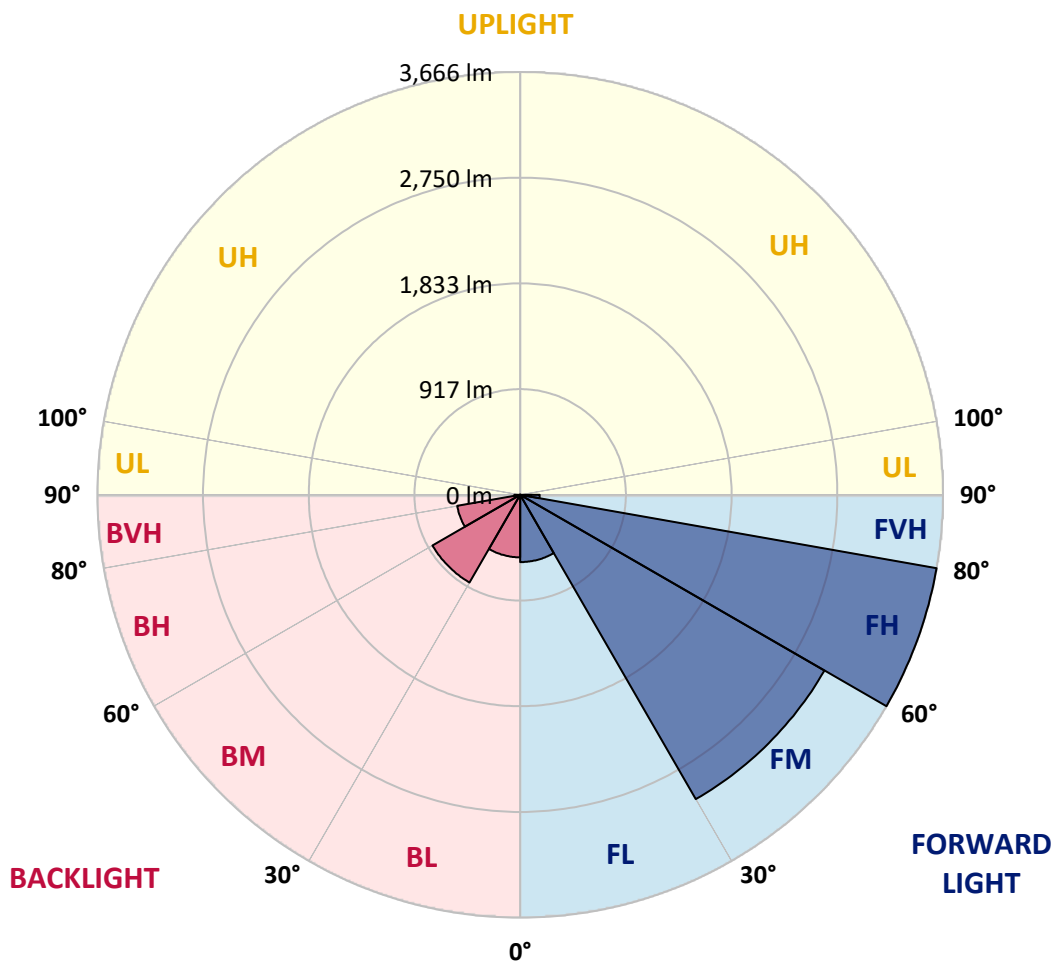
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	583.5	6.1			
FM	(30°-60°)	3046.5	32.1			
FH	(60°-80°)	3666.2	38.6			G2/5000
FVH	(80°-90°)	169.3	1.8			G2/225
BL	(0°-30°)	542.1	5.7	B2/1000		
BM	(30°-60°)	877.8	9.2	B1/1000		
BH	(60°-80°)	553.8	5.8	B2/1000		G2/1000
BVH	(80°-90°)	51.3	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°	1251.0	1251.0	1251.0	1251.0	1251.0	1251.0	1251.0	1251.0	1251.0	1251.0	1251.0
2.5°	1227.9	1232.1	1228.9	1230.1	1230.1	1231.1	1231.1	1232.1	1231.1	1234.2	1236.3
5°	1206.0	1208.0	1207.0	1209.0	1211.2	1215.4	1214.3	1219.5	1220.6	1223.7	1228.9
7.5°	1197.6	1195.4	1196.5	1199.6	1201.8	1203.8	1206.0	1210.1	1213.2	1220.6	1224.8
10°	1206.0	1204.8	1206.0	1208.0	1208.0	1209.0	1207.0	1211.2	1213.2	1219.5	1223.7
12.5°	1240.5	1240.5	1238.4	1238.4	1236.3	1234.2	1228.9	1225.9	1224.8	1225.9	1227.9
15°	1295.9	1293.9	1289.7	1286.5	1282.3	1275.0	1267.7	1261.4	1257.2	1251.0	1248.8
17.5°	1350.4	1347.3	1343.1	1338.9	1333.7	1326.3	1314.8	1307.4	1295.9	1288.7	1284.5
20°	1413.2	1406.9	1401.7	1396.5	1386.0	1383.9	1372.4	1359.8	1346.2	1329.5	1327.4
22.5°	1494.9	1484.4	1478.1	1475.0	1464.5	1461.3	1442.5	1424.8	1408.0	1386.0	1380.8
25°	1577.6	1567.1	1563.9	1559.7	1552.5	1548.3	1530.4	1510.5	1488.6	1458.2	1451.9
27.5°	1658.1	1659.2	1650.8	1654.0	1651.9	1644.6	1626.7	1606.9	1590.1	1554.5	1547.2
30°	1758.6	1752.4	1748.2	1754.4	1747.2	1748.2	1732.5	1722.1	1694.8	1673.9	1659.2
32.5°	1863.4	1862.2	1868.6	1872.8	1871.7	1869.6	1857.0	1846.6	1822.5	1792.1	1785.9
35°	2006.7	2013.0	2018.2	2037.1	2037.1	2050.7	2038.2	2025.6	1997.3	1960.7	1948.1
37.5°	2104.1	2106.2	2127.2	2152.3	2183.6	2212.9	2221.3	2224.5	2212.9	2185.8	2166.9
40°	2193.0	2197.2	2230.8	2269.5	2315.5	2373.1	2407.6	2423.4	2426.5	2414.0	2373.1
42.5°	2282.1	2288.4	2322.9	2379.5	2443.3	2516.6	2577.2	2616.0	2638.0	2638.0	2613.9
45°	2385.7	2394.1	2431.7	2493.5	2567.8	2659.9	2743.7	2818.1	2853.6	2855.7	2832.7
47.5°	2508.2	2515.5	2559.5	2622.2	2698.7	2791.8	2897.6	2982.3	3048.3	3052.5	3033.7
50°	2666.2	2676.7	2713.3	2769.9	2848.4	2942.6	3048.3	3166.6	3235.7	3252.5	3232.6
52.5°	2875.6	2877.7	2908.0	2960.4	3036.9	3126.8	3238.8	3367.6	3458.7	3472.3	3439.8
55°	3164.5	3161.4	3181.3	3237.8	3295.4	3365.5	3481.7	3626.2	3727.7	3748.7	3715.2
57.5°	3557.0	3554.0	3570.7	3584.3	3692.1	3760.2	3874.3	4012.5	4110.8	4171.6	4114.0
60°	4165.3	4162.2	4189.3	4269.0	4349.5	4449.0	4559.9	4725.3	4863.5	4881.3	4824.8
62.5°	4606.0	4621.7	4681.3	4774.5	4937.8	5132.6	5335.7	5553.3	5837.1	5927.1	5899.9
65°	4452.1	4483.6	4566.3	4707.6	4925.2	5194.3	5512.5	5907.2	6287.2	6499.7	6493.4
66°	4313.9	4348.5	4450.0	4586.1	4816.4	5110.5	5458.1	5888.3	6313.3	6547.9	6562.5
67.5°	4062.7	4101.4	4200.9	4362.1	4586.1	4899.1	5272.8	5740.8	6221.2	6494.5	6533.2
70°	3573.8	3617.8	3690.1	3823.0	4043.8	4323.4	4717.0	5135.7	5639.2	5952.2	5999.3
72.5°	2987.6	3026.3	3107.0	3215.8	3397.0	3572.8	3881.6	4190.4	4550.5	4907.5	4873.0
75°	2144.9	2161.7	2209.9	2328.1	2425.5	2583.6	2831.6	3084.9	3331.0	3494.3	3517.3
77.5°	1114.9	1158.8	1226.9	1357.7	1463.5	1605.8	1767.0	1957.6	2137.6	2287.3	2246.4
80°	729.6	748.5	809.2	876.2	953.7	1044.8	1152.6	1223.7	1246.8	1237.3	1246.8
82.5°	420.8	455.4	536.0	587.3	644.8	676.3	762.1	843.7	889.8	832.2	811.3
85°	53.4	69.1	217.8	274.2	314.0	361.1	387.4	436.6	407.2	364.3	443.8
87.5°	11.5	10.5	14.7	31.4	32.5	27.3	51.3	54.4	33.5	16.7	20.9
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°	1251.0	1251.0	1251.0	1251.0	1251.0	1251.0	1251.0	1251.0	1251.0	1251.0	1251.0
2.5°	1238.4	1239.4	1241.5	1244.7	1246.8	1248.8	1251.0	1254.1	1256.2	1258.2	1262.4
5°	1233.1	1237.3	1241.5	1245.7	1251.0	1259.4	1264.6	1268.8	1272.9	1281.3	1284.5
7.5°	1230.1	1237.3	1243.6	1251.0	1259.4	1266.6	1276.1	1281.3	1287.5	1292.8	1299.1
10°	1227.9	1238.4	1244.7	1255.2	1264.6	1271.9	1282.3	1288.7	1295.9	1302.2	1305.4
12.5°	1232.1	1237.3	1243.6	1254.1	1265.6	1276.1	1287.5	1292.8	1299.1	1304.4	1305.4
15°	1249.9	1249.9	1251.0	1259.4	1270.8	1279.2	1288.7	1293.9	1297.0	1300.1	1300.1
17.5°	1282.3	1275.0	1269.8	1270.8	1278.1	1283.4	1288.7	1288.7	1286.5	1285.5	1283.4
20°	1320.0	1310.6	1300.1	1292.8	1290.7	1286.5	1283.4	1272.9	1264.6	1257.2	1252.0
22.5°	1374.4	1359.8	1345.1	1331.5	1319.0	1303.3	1285.5	1264.6	1244.7	1231.1	1222.7
25°	1441.5	1430.0	1412.2	1391.3	1375.5	1346.2	1323.2	1292.8	1267.7	1249.9	1235.3
27.5°	1536.8	1523.1	1506.3	1487.5	1464.5	1432.0	1403.8	1368.2	1337.9	1311.6	1292.8
30°	1655.0	1637.2	1624.7	1601.6	1586.0	1549.3	1521.0	1477.0	1418.4	1376.6	1350.4
32.5°	1776.5	1756.6	1746.1	1728.3	1710.5	1688.5	1645.6	1577.6	1502.1	1434.1	1389.1
35°	1938.7	1917.8	1898.9	1883.3	1857.0	1816.2	1778.5	1696.8	1593.2	1498.0	1422.6
37.5°	2142.8	2108.3	2061.2	2021.4	1975.4	1916.8	1859.2	1775.4	1657.1	1533.6	1433.1
40°	2360.6	2299.8	2232.9	2158.5	2079.0	1994.2	1928.2	1843.5	1710.5	1563.9	1425.8
42.5°	2587.7	2491.5	2398.2	2293.6	2182.6	2082.2	1996.3	1903.1	1750.2	1572.3	1396.5
45°	2812.8	2704.9	2563.6	2426.5	2286.2	2161.7	2065.4	1960.7	1786.9	1575.5	1357.7
47.5°	2999.1	2888.2	2727.0	2555.3	2388.9	2247.5	2134.4	2021.4	1836.1	1597.4	1348.3
50°	3195.9	3060.9	2881.9	2678.8	2490.3	2332.3	2211.9	2094.7	1905.2	1654.0	1378.6
52.5°	3410.5	3255.6	3046.3	2819.1	2612.9	2435.9	2305.1	2184.7	1993.1	1733.5	1436.2
55°	3672.2	3482.7	3255.6	2999.1	2778.2	2582.5	2438.1	2295.6	2097.8	1827.7	1508.5
57.5°	4072.1	3839.7	3584.3	3292.2	3047.3	2815.9	2643.2	2478.9	2260.1	1968.0	1606.9
60°	4795.5	4547.4	4215.6	3861.7	3573.8	3303.7	3050.4	2846.2	2577.2	2244.4	1824.6
62.5°	5831.8	5502.1	5059.3	4564.1	4187.3	3797.9	3512.1	3208.5	2874.5	2515.5	2081.0
65°	6407.6	6007.7	5415.2	4840.5	4355.8	3932.9	3569.6	3217.9	2847.4	2504.0	2140.8
66°	6478.7	6062.1	5446.5	4841.5	4332.8	3898.3	3516.3	3151.9	2773.0	2445.4	2115.6
67.5°	6449.4	6023.4	5389.1	4750.4	4233.3	3766.4	3371.8	2993.9	2616.0	2310.3	2031.8
70°	5969.0	5564.9	4942.0	4323.4	3832.4	3371.8	2994.9	2623.4	2276.9	2015.1	1810.0
72.5°	4956.7	4611.2	4070.0	3584.3	3199.1	2819.1	2499.8	2144.9	1851.8	1658.1	1536.8
75°	3578.0	3368.7	2875.6	2597.1	2259.0	2006.7	1696.8	1486.5	1276.1	1181.9	1160.9
77.5°	2260.1	1978.5	1665.5	1371.4	1127.4	934.8	727.5	617.6	515.1	504.6	609.2
80°	1144.2	1030.1	793.5	632.3	531.8	430.2	340.2	257.5	180.1	216.7	259.6
82.5°	749.5	624.9	490.0	403.0	350.7	291.0	226.1	157.0	115.2	129.8	178.0
85°	405.1	345.5	278.4	219.8	178.0	159.1	106.8	75.3	74.3	79.5	101.6
87.5°	29.3	29.3	23.1	20.9	25.1	20.9	18.9	18.9	17.8	18.9	25.1
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1251.0	1251.0	1251.0	1251.0	1251.0	1251.0	1251.0	1251.0	1251.0	1251.0	1251.0
2.5°	1264.6	1267.7	1268.8	1274.0	1277.1	1279.2	1281.3	1281.3	1282.3	1285.5	1286.5
5°	1288.7	1293.9	1300.1	1304.4	1306.4	1312.8	1314.8	1314.8	1316.9	1321.1	1324.2
7.5°	1303.3	1310.6	1316.9	1319.0	1323.2	1325.3	1328.4	1330.5	1330.5	1334.7	1336.8
10°	1308.6	1312.8	1319.0	1319.0	1323.2	1323.2	1326.3	1327.4	1327.4	1331.5	1334.7
12.5°	1308.6	1310.6	1315.8	1315.8	1319.0	1320.0	1324.2	1327.4	1328.4	1333.7	1337.9
15°	1302.2	1304.4	1308.6	1309.6	1316.9	1321.1	1330.5	1336.8	1336.8	1342.1	1344.1
17.5°	1284.5	1289.7	1298.1	1306.4	1320.0	1329.5	1340.9	1346.2	1342.1	1338.9	1335.7
20°	1255.2	1264.6	1284.5	1305.4	1329.5	1342.1	1348.3	1343.1	1328.4	1313.8	1304.4
22.5°	1225.9	1244.7	1278.1	1309.6	1336.8	1345.1	1342.1	1323.2	1299.1	1281.3	1268.8
25°	1239.4	1261.4	1293.9	1322.1	1339.9	1337.9	1325.3	1299.1	1272.9	1249.9	1228.9
27.5°	1295.9	1320.0	1337.9	1347.3	1345.1	1330.5	1310.6	1281.3	1249.9	1219.5	1190.2
30°	1349.3	1361.9	1366.1	1358.8	1342.1	1318.0	1292.8	1259.4	1217.4	1179.7	1146.2
32.5°	1373.4	1360.8	1340.9	1321.1	1293.9	1272.9	1238.4	1201.8	1149.4	1104.4	1070.9
35°	1373.4	1323.2	1272.9	1231.1	1190.2	1164.1	1124.3	1075.1	1026.9	989.2	963.1
37.5°	1343.1	1246.8	1164.1	1096.0	1044.8	1016.5	956.8	912.8	872.0	859.4	842.7
40°	1287.5	1145.2	1025.9	936.9	872.0	830.1	770.4	740.1	724.4	718.1	715.0
42.5°	1213.2	1032.2	873.0	763.2	693.0	645.9	606.1	587.3	586.2	585.2	585.2
45°	1133.7	910.7	724.4	593.6	531.8	490.0	471.1	463.7	470.0	468.9	470.0
47.5°	1084.5	818.6	588.3	449.1	402.0	374.8	365.3	368.5	373.7	371.6	371.6
50°	1078.2	771.5	497.2	349.7	314.0	300.5	298.3	298.3	301.5	299.4	298.3
52.5°	1101.2	764.2	450.1	300.5	272.2	260.7	258.6	257.5	256.5	250.2	244.9
55°	1141.0	780.9	436.6	287.9	258.6	246.0	242.9	240.7	236.6	228.2	218.8
57.5°	1220.6	833.3	449.1	294.1	262.8	252.3	249.1	249.1	240.7	227.2	213.6
60°	1412.2	966.2	500.4	318.2	282.6	272.2	274.2	273.2	260.7	240.7	219.8
62.5°	1659.2	1140.0	567.4	351.7	307.7	305.7	316.1	314.0	293.1	262.8	232.4
65°	1773.3	1221.6	586.2	359.1	313.0	322.4	343.4	341.3	315.1	273.2	234.5
66°	1775.4	1221.6	577.9	352.7	305.7	317.2	338.1	337.1	310.9	269.0	230.3
67.5°	1732.5	1188.1	553.8	340.2	291.0	299.4	318.2	317.2	293.1	258.6	222.0
70°	1571.3	1063.5	492.0	318.2	271.2	267.0	273.2	269.0	253.3	229.2	204.1
72.5°	1346.2	892.9	429.2	301.5	257.5	240.7	236.6	233.4	220.8	207.3	191.5
75°	1060.5	706.6	376.8	288.9	244.9	223.0	215.6	211.4	203.1	193.7	181.1
77.5°	654.2	505.6	328.7	272.2	235.5	213.6	208.3	202.0	189.5	178.0	168.6
80°	292.1	313.0	270.0	237.6	210.4	190.5	182.1	172.7	160.2	152.8	147.6
82.5°	194.7	202.0	195.7	178.0	159.1	143.4	130.9	130.9	128.7	122.5	120.4
85°	124.6	125.6	121.4	110.0	102.6	93.2	87.9	89.0	93.2	92.1	91.1
87.5°	28.3	28.3	33.5	31.4	36.7	38.7	41.9	45.0	51.3	51.3	54.4
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°	1251.0	1251.0	1251.0	1251.0	1251.0
2.5°	1287.5	1289.7	1291.7	1288.7	1289.7
5°	1324.2	1323.2	1328.4	1325.3	1327.4
7.5°	1335.7	1336.8	1340.9	1340.9	1342.1
10°	1336.8	1338.9	1344.1	1347.3	1349.3
12.5°	1342.1	1346.2	1354.6	1356.7	1356.7
15°	1346.2	1348.3	1353.5	1355.6	1357.7
17.5°	1331.5	1327.4	1329.5	1330.5	1329.5
20°	1294.9	1290.7	1289.7	1285.5	1287.5
22.5°	1255.2	1243.6	1236.3	1227.9	1227.9
25°	1207.0	1189.2	1174.5	1159.9	1163.0
27.5°	1162.0	1138.9	1124.3	1114.9	1112.8
30°	1118.0	1094.0	1080.3	1068.8	1068.8
32.5°	1044.8	1028.0	1010.1	1002.9	1001.8
35°	943.2	932.7	918.1	914.9	909.7
37.5°	829.1	826.0	813.4	812.3	807.1
40°	709.8	711.8	707.6	705.6	702.4
42.5°	590.4	600.8	598.8	597.8	595.6
45°	476.3	483.6	484.7	487.8	493.0
47.5°	374.8	376.8	379.0	377.9	379.0
50°	293.1	287.9	286.8	283.7	286.8
52.5°	236.6	228.2	224.0	219.8	217.8
55°	208.3	199.9	195.7	193.7	191.5
57.5°	201.0	192.7	186.3	182.1	181.1
60°	203.1	190.5	182.1	176.9	175.9
62.5°	208.3	191.5	180.1	174.8	173.8
65°	207.3	189.5	179.0	172.7	171.7
66°	204.1	187.3	176.9	171.7	170.6
67.5°	198.9	184.3	174.8	170.6	168.6
70°	189.5	180.1	172.7	167.5	165.4
72.5°	181.1	173.8	167.5	162.2	161.2
75°	171.7	165.4	159.1	154.9	153.9
77.5°	160.2	153.9	149.7	146.5	145.5
80°	141.3	137.1	132.9	128.7	128.7
82.5°	117.2	114.1	110.0	106.8	105.8
85°	90.0	90.0	86.9	83.7	82.7
87.5°	53.4	52.4	52.4	49.2	49.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)