

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: P181250

Luminaire Tested: **ICM-F03-LED-E1-T2-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181250
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33671)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-F03-LED-E1-T2-7030
Description: ICON SITE MEDIUM LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6446.9 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

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

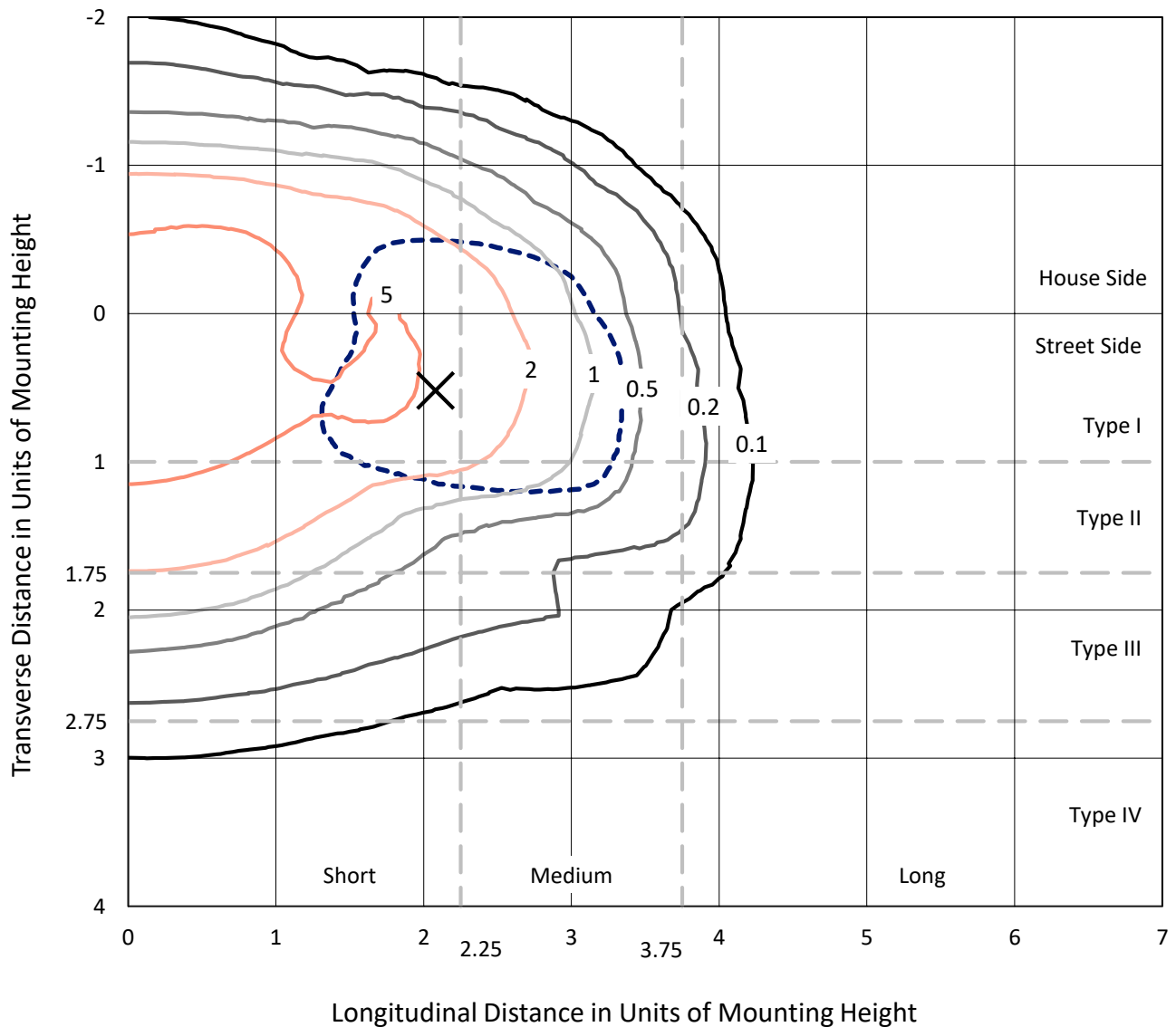


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

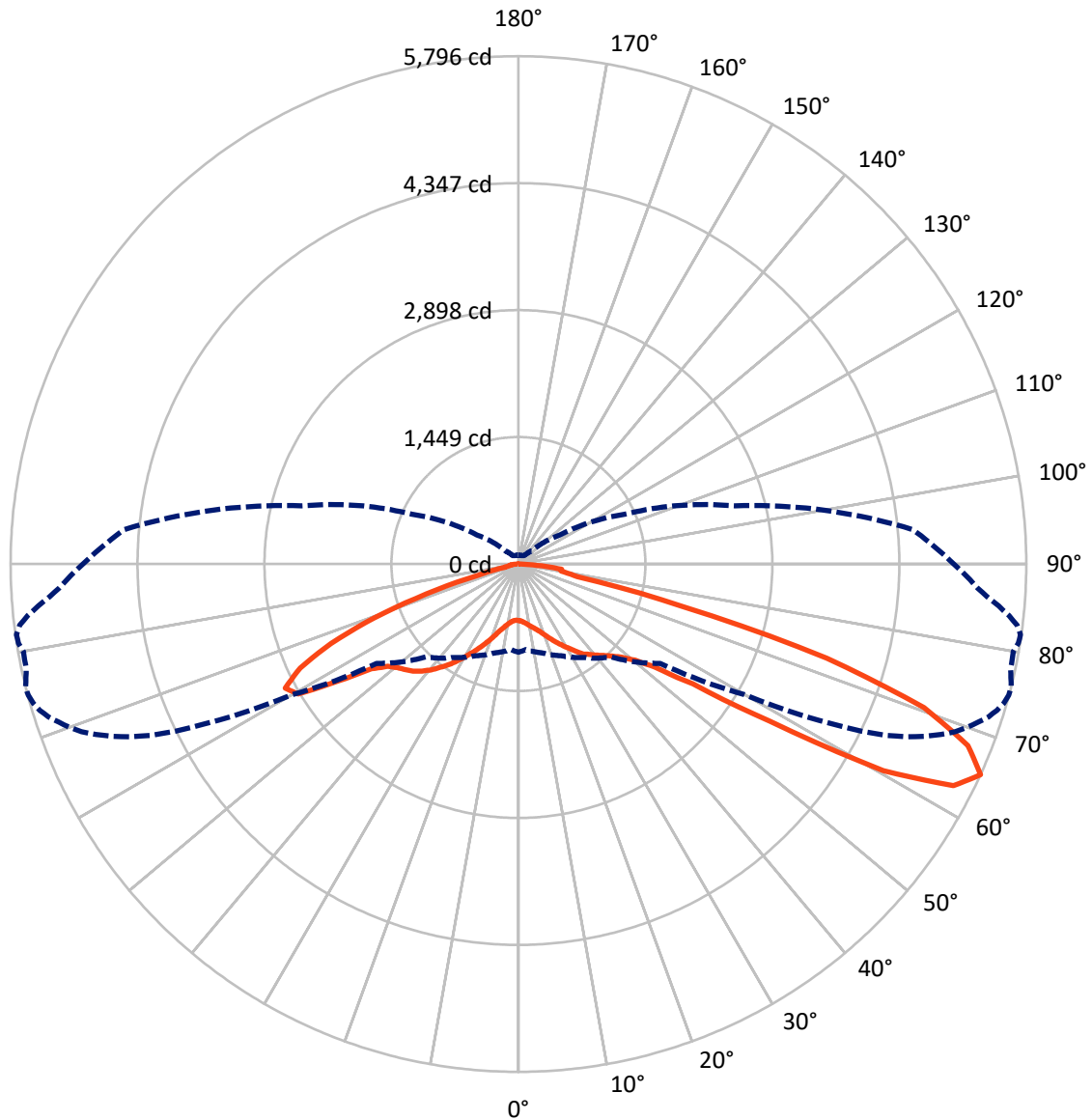


Based on 10 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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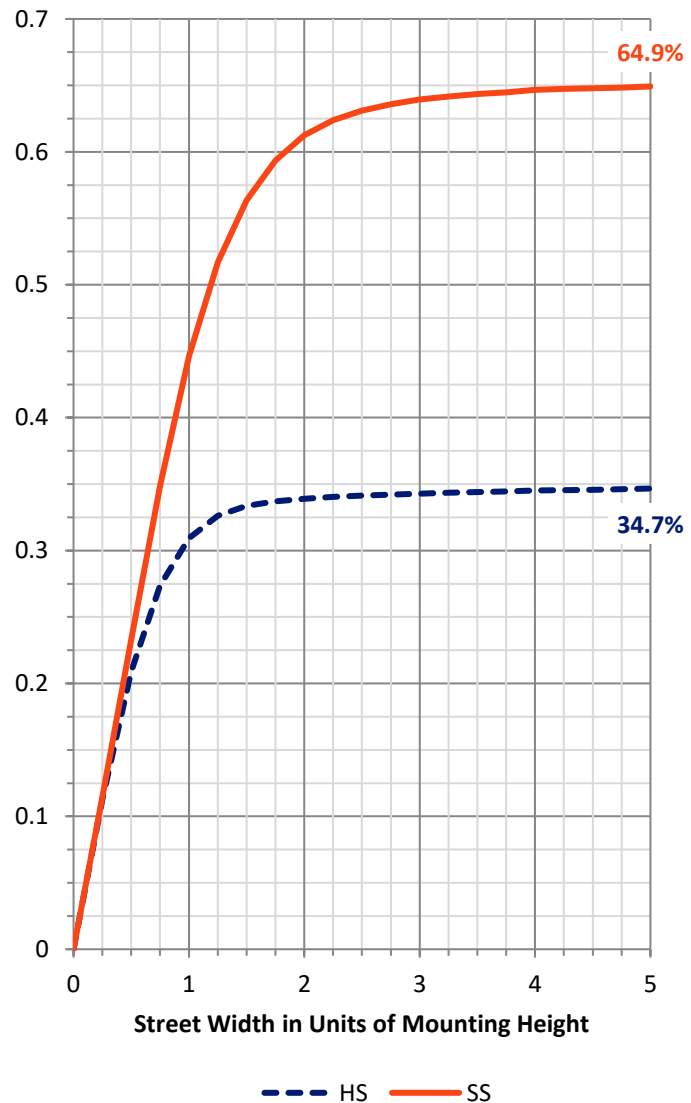
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2257.6	0.0	2257.6
	% Fixture	35.0	0.0	35.0
Street Side	Lumens	4189.4	0.0	4189.4
	% Fixture	65.0	0.0	65.0
Total	Lumens	6446.9	0.0	6446.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.5	1.0
10°-20°	221.7	3.4
20°-30°	435.6	6.8
30°-40°	723.7	11.2
40°-50°	1063.4	16.5
50°-60°	1472.3	22.8
60°-70°	1757.3	27.3
70°-80°	621.5	9.6
80°-90°	86.8	1.3
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°	6446.9	100.0
0°-180°	6446.9	100.0



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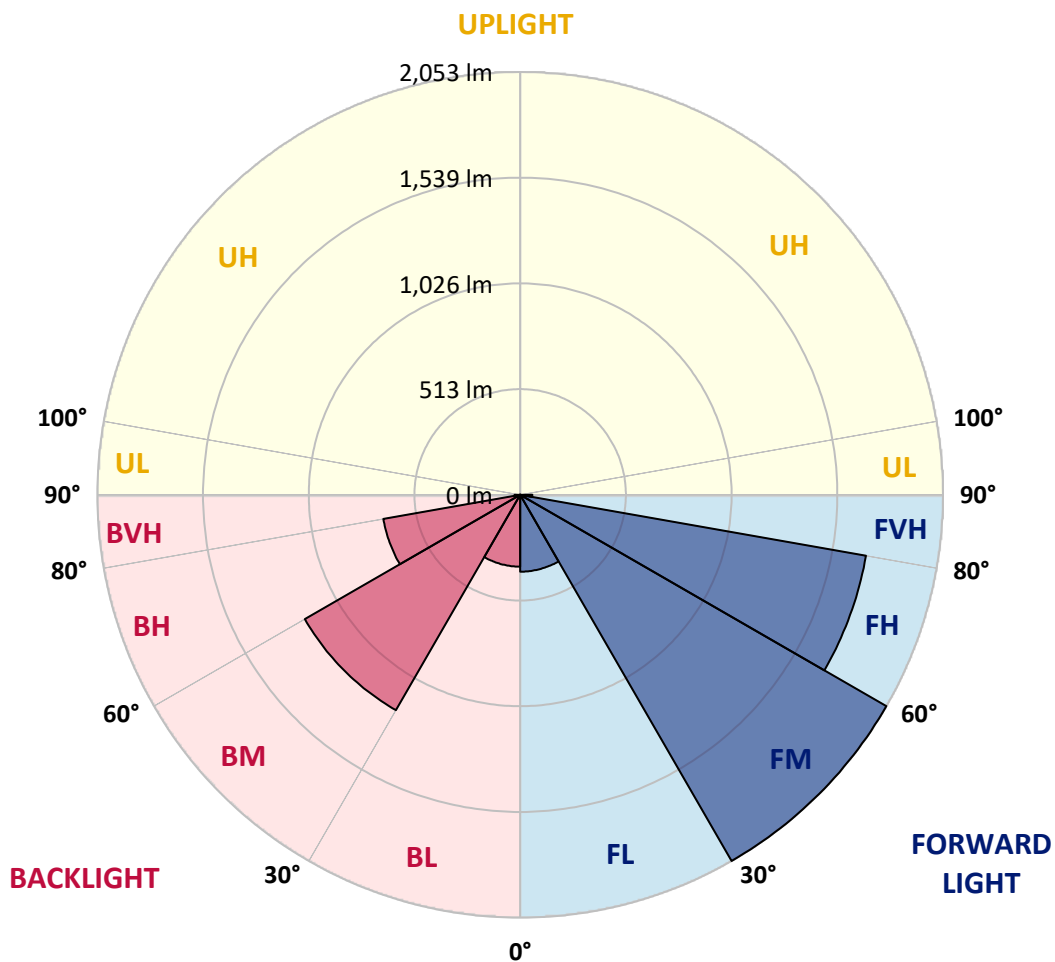
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	373.0	5.8			
FM	(30°-60°)	2052.5	31.8			
FH	(60°-80°)	1704.5	26.4			G1/1800
FVH	(80°-90°)	59.4	0.9			G1/100
BL	(0°-30°)	348.8	5.4	B1/500		
BM	(30°-60°)	1207.0	18.7	B2/2500		
BH	(60°-80°)	674.3	10.5	B2/1000		G2/1000
BVH	(80°-90°)	27.5	0.4			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	644.6	644.6	644.6	644.6	644.6	644.6	644.6	644.6	644.6	644.6	644.6
2.5°	672.7	673.3	671.9	671.3	669.1	665.6	662.8	660.0	660.0	660.0	657.9
5°	702.1	703.5	700.7	698.6	692.3	688.7	683.8	680.4	679.0	678.2	676.1
7.5°	739.3	737.1	732.9	731.5	726.6	718.9	709.8	702.8	702.8	702.1	702.8
10°	776.5	770.8	768.7	766.6	758.9	749.1	738.6	730.9	730.1	729.5	727.4
12.5°	813.6	811.5	809.4	801.7	794.0	778.5	766.6	758.9	758.2	758.9	756.1
15°	862.7	857.8	855.7	842.3	825.6	808.7	794.0	787.0	784.8	785.6	783.4
17.5°	900.6	900.6	895.6	880.9	859.2	836.1	820.7	816.4	815.7	815.7	816.4
20°	930.7	930.1	925.1	913.2	887.3	864.1	856.4	855.0	854.3	854.3	856.4
22.5°	947.5	946.1	944.1	930.7	910.4	895.0	895.6	899.9	901.3	902.7	905.5
25°	956.0	953.9	953.2	944.1	929.3	927.3	939.9	951.1	953.9	956.7	960.2
27.5°	970.1	966.5	967.9	964.4	960.9	967.3	993.2	1005.1	1007.2	1010.7	1012.8
30°	1008.6	1007.2	1012.8	1014.2	1017.0	1026.1	1050.0	1061.2	1066.1	1066.1	1075.9
32.5°	1082.2	1083.0	1084.4	1099.1	1104.0	1110.3	1122.9	1132.0	1132.8	1133.5	1142.6
35°	1181.1	1185.3	1197.3	1209.9	1221.9	1221.1	1213.4	1218.3	1214.8	1219.0	1219.7
37.5°	1306.0	1300.4	1318.0	1346.7	1364.9	1360.0	1325.6	1303.2	1309.5	1306.7	1304.6
40°	1402.1	1408.4	1442.1	1479.9	1494.0	1509.4	1464.5	1426.0	1420.3	1409.8	1403.5
42.5°	1534.6	1535.4	1562.7	1590.8	1631.5	1665.1	1636.4	1580.9	1564.1	1551.5	1524.1
45°	1657.4	1655.3	1677.8	1712.1	1760.5	1808.8	1819.5	1759.1	1752.8	1730.3	1694.5
47.5°	1739.5	1736.7	1752.1	1796.9	1875.5	1954.8	1998.2	1980.0	1968.1	1959.0	1902.9
50°	1794.9	1789.2	1806.8	1854.5	1942.2	2064.2	2177.8	2193.2	2188.4	2188.4	2152.6
52.5°	1836.3	1836.3	1848.8	1887.5	1976.6	2128.8	2332.1	2410.0	2416.3	2423.3	2421.2
55°	1813.1	1816.6	1848.2	1904.3	1998.2	2173.6	2459.8	2630.2	2665.3	2694.7	2728.4
57.5°	1733.9	1745.8	1787.8	1879.7	2003.9	2207.3	2601.5	2938.8	3037.7	3123.3	3256.6
60°	1618.1	1633.6	1694.5	1811.7	1962.5	2152.6	2651.3	3199.7	3356.9	3543.5	3891.4
62.5°	1419.6	1435.1	1494.7	1611.8	1740.8	1942.9	2445.0	3238.3	3489.4	3753.9	4279.9
65°	1005.8	981.2	1050.0	1155.2	1303.2	1498.9	1975.8	2979.6	3340.8	3699.2	4348.7
67.5°	560.4	558.3	600.4	679.0	820.7	1031.1	1361.4	2285.1	2617.6	3023.7	3821.2
70°	386.5	390.7	417.3	502.2	619.4	801.0	970.1	1435.1	1674.2	1949.9	2734.1
72.5°	271.4	280.6	295.3	345.8	465.8	674.7	991.1	857.8	977.0	1165.0	1644.1
75°	159.3	165.5	176.1	200.6	265.1	451.0	1026.1	754.0	754.0	798.1	994.6
77.5°	98.2	98.2	104.5	114.3	141.0	220.9	730.9	847.3	823.4	798.1	800.3
80°	50.5	54.0	63.2	68.0	78.5	101.0	328.3	790.5	866.9	918.1	882.3
82.5°	23.2	26.0	38.6	41.4	45.6	53.3	112.9	449.6	602.5	793.3	991.1
85°	11.9	11.9	20.4	25.2	27.3	24.6	41.4	181.7	275.0	419.4	656.5
87.5°	2.1	2.1	3.5	4.2	6.3	5.6	7.0	10.5	17.5	19.0	19.6
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	644.6	644.6	644.6	644.6	644.6	644.6	644.6	644.6	644.6	644.6	644.6
2.5°	657.2	657.9	657.2	656.5	655.1	655.1	655.1	654.4	654.4	654.4	653.7
5°	676.1	673.3	674.1	672.7	671.9	671.3	671.9	670.5	669.1	669.9	669.1
7.5°	700.0	698.6	695.8	695.8	695.1	693.7	693.7	691.5	690.9	689.5	688.7
10°	726.6	723.2	724.6	723.2	723.8	721.0	719.6	718.2	716.8	716.8	717.5
12.5°	754.0	753.3	751.2	749.8	749.8	747.7	748.4	747.7	745.6	744.8	742.8
15°	782.1	782.1	779.9	780.7	779.9	778.5	777.1	777.1	775.7	774.3	775.1
17.5°	815.0	815.0	815.0	815.0	815.7	813.6	814.3	812.9	811.5	814.3	814.3
20°	857.8	860.6	860.6	859.9	863.4	861.3	860.6	864.1	860.6	865.5	864.8
22.5°	906.9	909.7	909.7	912.5	913.2	915.4	916.7	915.4	918.1	920.9	920.9
25°	961.6	964.4	966.5	970.7	972.8	971.4	972.1	975.6	977.0	979.8	982.6
27.5°	1019.2	1019.8	1022.6	1027.5	1031.1	1032.5	1033.1	1038.8	1039.4	1040.8	1043.6
30°	1075.3	1082.2	1080.8	1087.2	1089.3	1091.4	1095.5	1097.7	1102.6	1105.4	1105.4
32.5°	1141.1	1139.7	1145.4	1150.2	1153.8	1157.3	1160.8	1163.6	1166.4	1167.8	1174.8
35°	1223.3	1226.1	1226.1	1226.7	1235.2	1235.8	1238.7	1244.9	1247.1	1251.3	1254.1
37.5°	1304.6	1299.6	1299.0	1299.0	1296.2	1298.2	1299.0	1299.6	1302.5	1303.2	1306.0
40°	1395.7	1389.5	1383.8	1380.4	1374.7	1367.0	1365.6	1362.1	1364.2	1363.5	1364.2
42.5°	1520.7	1503.1	1489.8	1479.9	1468.8	1460.3	1454.0	1444.8	1438.5	1430.8	1429.4
45°	1679.8	1646.9	1624.4	1608.3	1592.2	1569.0	1555.7	1541.7	1529.0	1516.4	1505.9
47.5°	1888.8	1853.8	1818.1	1788.6	1763.3	1726.2	1688.3	1667.2	1642.7	1620.9	1605.5
50°	2135.1	2092.9	2076.1	2034.7	2003.2	1947.1	1900.1	1865.7	1816.6	1783.6	1754.9
52.5°	2386.8	2376.3	2367.2	2332.1	2295.0	2262.7	2221.3	2161.0	2111.2	2073.3	2014.4
55°	2729.8	2734.7	2731.3	2712.3	2699.0	2668.1	2651.3	2598.6	2576.2	2521.5	2459.8
57.5°	3307.1	3346.3	3396.1	3415.7	3442.4	3417.2	3446.6	3482.4	3393.3	3424.2	3368.8
60°	4044.2	4224.5	4331.8	4463.7	4550.0	4670.5	4692.3	4723.8	4714.7	4732.3	4768.0
62.5°	4494.5	4708.5	4914.0	5063.4	5223.3	5311.7	5418.3	5492.6	5569.8	5621.7	5606.9
65°	4627.1	4847.3	5033.9	5197.3	5340.4	5448.4	5547.3	5640.6	5711.5	5761.2	5790.7
67.5°	4140.3	4427.9	4624.3	4815.8	5000.2	5113.9	5196.6	5287.1	5390.9	5477.1	5494.0
70°	3115.6	3546.9	3825.4	4054.7	4271.5	4424.4	4540.1	4624.3	4705.0	4766.6	4834.0
72.5°	1948.5	2325.8	2644.3	2941.6	3171.7	3382.2	3479.6	3666.2	3641.6	3688.7	3739.1
75°	1167.8	1351.5	1526.9	1736.7	1857.3	2032.7	2064.2	2095.1	2078.9	2026.3	2065.6
77.5°	811.5	841.7	840.3	828.4	815.7	784.8	744.8	723.2	708.4	687.4	695.8
80°	816.4	751.2	651.6	547.8	452.4	389.3	364.0	364.0	390.0	427.2	464.3
82.5°	975.6	906.2	808.0	676.1	535.9	436.3	369.7	343.0	347.9	385.8	433.5
85°	657.9	673.3	590.6	540.1	427.8	333.1	279.2	226.5	200.6	206.9	234.2
87.5°	23.8	28.7	10.5	14.0	9.9	8.4	8.4	9.1	6.3	7.7	7.0
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	644.6	644.6	644.6	644.6	644.6	644.6	644.6	644.6	644.6	644.6	644.6
2.5°	653.0	652.3	652.3	650.9	650.9	650.2	650.2	649.5	648.7	648.7	648.1
5°	668.5	667.7	666.3	665.6	664.2	664.2	663.5	662.1	662.1	660.7	660.0
7.5°	690.1	688.7	687.4	686.7	686.0	683.8	683.8	682.4	682.4	681.0	680.4
10°	716.1	714.7	713.3	714.1	711.9	711.2	709.8	709.8	707.7	707.0	707.0
12.5°	744.2	743.4	743.4	741.4	740.7	740.0	737.1	737.1	737.1	735.7	736.5
15°	774.3	775.1	772.9	775.1	774.3	772.2	772.2	772.2	769.4	772.9	770.1
17.5°	815.0	817.1	815.7	816.4	815.0	815.0	815.7	815.0	816.4	816.4	820.7
20°	865.5	866.2	869.8	868.3	868.3	867.6	869.0	869.8	872.6	871.2	874.0
22.5°	920.9	924.5	925.1	927.9	927.9	927.3	928.7	931.4	932.8	935.0	934.2
25°	984.1	986.1	988.9	985.5	991.1	991.1	992.5	996.0	996.7	996.7	1001.6
27.5°	1043.0	1048.6	1049.3	1052.8	1050.7	1052.1	1057.0	1059.1	1061.9	1061.9	1063.4
30°	1109.6	1111.7	1113.1	1117.3	1116.7	1117.3	1118.1	1121.5	1121.5	1125.0	1128.6
32.5°	1178.3	1179.7	1181.1	1185.3	1186.8	1189.6	1188.2	1191.0	1194.5	1195.2	1197.3
35°	1260.4	1261.8	1263.2	1269.5	1270.2	1275.2	1276.6	1275.2	1280.8	1277.2	1280.8
37.5°	1308.1	1314.4	1315.8	1320.0	1318.6	1322.1	1324.2	1327.1	1328.5	1331.3	1336.8
40°	1366.3	1368.4	1372.7	1374.7	1377.5	1378.2	1381.0	1383.2	1385.2	1391.5	1397.9
42.5°	1426.0	1428.8	1430.8	1433.7	1437.1	1439.9	1442.1	1448.4	1449.8	1454.0	1465.9
45°	1498.1	1496.8	1497.5	1498.1	1499.5	1503.1	1509.4	1515.7	1519.9	1529.8	1539.5
47.5°	1587.9	1578.8	1575.4	1569.7	1571.1	1578.8	1580.2	1590.8	1599.2	1608.3	1620.2
50°	1724.0	1699.5	1684.8	1670.1	1668.7	1672.8	1678.4	1689.7	1699.5	1711.4	1728.2
52.5°	1952.7	1905.7	1876.2	1835.5	1824.3	1822.2	1818.1	1824.3	1827.2	1843.3	1874.8
55°	2415.6	2328.7	2272.5	2209.4	2150.4	2132.9	2099.3	2106.2	2099.3	2109.1	2156.1
57.5°	3382.2	3312.7	3258.0	3177.3	3076.3	2969.0	2942.3	2832.2	2854.0	2917.1	2876.4
60°	4785.6	4760.4	4721.1	4682.5	4544.3	4466.4	4339.6	4325.5	4236.4	4237.1	4178.9
62.5°	5571.2	5603.5	5579.6	5568.4	5560.7	5536.1	5473.0	5397.2	5283.6	5201.5	5080.9
65°	5795.6	5768.2	5742.3	5738.8	5736.7	5776.7	5785.8	5732.5	5629.4	5501.7	5362.8
67.5°	5534.0	5518.5	5519.9	5490.5	5508.8	5578.2	5626.5	5611.8	5517.2	5362.8	5186.1
70°	4911.2	4881.0	4911.8	4950.4	4977.8	5017.8	5066.2	5078.1	4991.8	4833.3	4653.1
72.5°	3677.4	3682.3	3711.7	3722.3	3832.4	3821.2	3864.7	3723.0	3660.6	3509.8	3417.2
75°	1935.2	1903.5	1985.7	1811.7	1740.2	1790.0	1650.3	1516.4	1544.5	1567.6	1400.7
77.5°	683.8	639.6	564.7	534.4	444.7	376.7	307.9	277.8	261.6	253.2	242.7
80°	491.0	505.0	489.6	453.1	385.0	308.7	243.4	192.2	164.8	150.1	140.3
82.5°	496.6	552.0	576.6	566.0	504.3	381.6	251.8	160.7	119.3	99.6	92.6
85°	266.5	291.8	280.6	236.4	212.6	127.0	87.0	58.2	49.1	44.9	41.4
87.5°	10.5	8.4	7.0	7.0	7.7	8.4	7.0	7.7	7.0	7.0	7.0
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):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	644.6	644.6	644.6	644.6	644.6	644.6	644.6	644.6	644.6	644.6	644.6
2.5°	646.7	646.7	646.7	646.0	644.6	641.1	637.6	634.8	632.7	630.5	627.7
5°	659.4	657.9	657.9	657.9	652.3	646.7	641.8	636.8	632.7	629.1	626.3
7.5°	680.4	679.6	676.8	676.1	671.9	662.8	657.2	648.7	643.9	639.0	637.6
10°	705.6	704.9	704.2	703.5	697.9	688.7	681.8	674.1	667.0	660.0	653.0
12.5°	735.1	734.3	733.7	731.5	729.5	724.6	716.8	708.4	700.0	685.3	677.6
15°	771.5	772.9	771.5	770.8	769.4	770.1	765.2	753.3	740.0	721.0	704.9
17.5°	819.9	818.5	817.9	820.7	819.9	823.4	822.1	806.6	786.2	756.1	728.0
20°	873.2	873.2	876.0	878.1	884.5	893.6	889.4	870.4	833.2	791.2	754.7
22.5°	937.0	938.4	941.3	939.9	949.7	964.4	965.8	939.2	890.8	832.6	781.3
25°	1003.7	1005.1	1002.3	1006.5	1022.6	1043.6	1047.9	1010.1	946.1	870.4	803.8
27.5°	1066.8	1068.2	1068.2	1073.9	1089.3	1125.0	1129.2	1087.2	1002.3	903.4	819.9
30°	1128.6	1134.1	1135.5	1136.9	1160.1	1209.9	1219.0	1158.0	1051.4	927.9	831.2
32.5°	1206.4	1208.5	1211.3	1214.8	1241.5	1302.5	1302.5	1219.0	1083.0	943.4	833.2
35°	1289.9	1290.5	1296.8	1297.6	1335.5	1396.5	1384.6	1269.5	1105.4	939.9	817.9
37.5°	1340.4	1343.2	1349.5	1357.9	1397.9	1484.2	1456.8	1313.0	1109.6	916.7	782.8
40°	1402.8	1408.4	1414.7	1423.2	1482.7	1573.2	1517.8	1340.4	1092.1	871.2	730.1
42.5°	1470.1	1477.9	1487.6	1503.1	1574.0	1651.8	1564.1	1344.6	1052.1	819.9	667.7
45°	1545.9	1559.9	1571.1	1589.3	1669.3	1719.8	1592.2	1320.0	1001.6	752.6	601.1
47.5°	1633.6	1644.8	1664.4	1684.0	1764.0	1766.2	1595.0	1272.3	932.8	685.3	530.2
50°	1741.6	1748.6	1778.1	1790.0	1865.0	1814.5	1574.6	1207.8	860.6	609.5	451.7
52.5°	1885.3	1895.2	1933.0	1951.3	2004.6	1880.5	1545.9	1137.7	777.9	524.7	371.1
55°	2169.4	2212.2	2238.8	2270.4	2304.8	2029.9	1533.2	1062.6	684.6	426.4	293.9
57.5°	2966.9	2952.9	3011.7	3083.4	3082.6	2371.5	1609.0	998.1	574.4	326.1	225.9
60°	4155.1	4168.4	4138.3	4181.0	4045.0	2795.1	1712.8	930.1	450.3	242.7	172.6
62.5°	5038.1	4961.0	4918.2	4867.7	4568.2	2841.3	1637.0	790.5	327.5	170.4	132.6
65°	5247.1	5156.7	5064.8	4968.7	4517.0	2561.5	1343.2	580.1	211.8	117.1	105.2
67.5°	5041.0	4895.8	4778.6	4679.7	4138.9	2123.1	982.0	356.3	121.3	94.7	89.8
70°	4506.4	4345.8	4156.5	4045.6	3485.2	1564.8	629.1	192.2	93.3	84.2	82.0
72.5°	3298.6	3166.8	2959.9	2832.9	2502.5	951.1	351.4	108.0	87.0	80.7	77.9
75°	1284.9	1216.2	1130.0	1136.9	1014.9	420.8	159.3	93.3	84.8	79.3	76.5
77.5°	220.9	215.4	199.2	199.2	226.5	153.6	106.0	94.0	84.2	77.9	72.9
80°	132.6	129.8	123.4	122.0	117.9	108.0	101.7	95.3	82.8	73.7	67.3
82.5°	87.0	83.4	81.4	80.7	87.6	94.7	95.3	94.7	78.5	63.8	54.7
85°	37.2	37.2	37.2	37.9	50.5	76.5	78.5	84.2	64.6	49.8	39.3
87.5°	6.3	7.7	7.7	8.4	9.1	16.8	21.0	27.3	21.8	21.0	19.0
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):

	165°	175°	180°
0°	644.6	644.6	644.6
2.5°	627.1	625.7	625.7
5°	624.9	623.5	624.3
7.5°	633.4	630.5	631.3
10°	648.7	646.0	644.6
12.5°	668.5	664.9	664.9
15°	688.7	680.4	679.6
17.5°	705.6	695.1	693.7
20°	724.6	710.5	708.4
22.5°	742.1	723.2	720.4
25°	754.7	731.5	728.0
27.5°	760.3	732.9	730.1
30°	764.6	733.7	729.5
32.5°	760.3	727.4	723.8
35°	737.1	701.4	699.3
37.5°	697.2	657.2	654.4
40°	644.6	602.5	595.4
42.5°	577.2	538.0	530.2
45°	512.0	467.2	463.6
47.5°	441.9	399.1	401.2
50°	368.2	329.7	328.9
52.5°	298.0	264.5	262.3
55°	235.0	211.2	209.0
57.5°	185.9	173.2	171.2
60°	151.5	145.2	143.1
62.5°	122.0	119.9	119.3
65°	101.7	101.7	101.7
67.5°	88.4	89.1	89.1
70°	81.4	82.0	81.4
72.5°	78.5	80.7	80.7
75°	76.5	77.9	75.1
77.5°	75.1	75.7	70.9
80°	74.3	73.7	64.6
82.5°	64.6	62.4	54.7
85°	58.9	44.9	37.9
87.5°	30.1	21.0	16.1
90°	0.0	0.0	0.0

(END OF REPORT)