

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: P181246

Luminaire Tested: **ICM-E03-LED-E1-T2-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181246
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-E03-LED-E1-T2-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (63) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7216.4 lumens
Efficiency: N/A
Efficacy: 96.0 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): 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

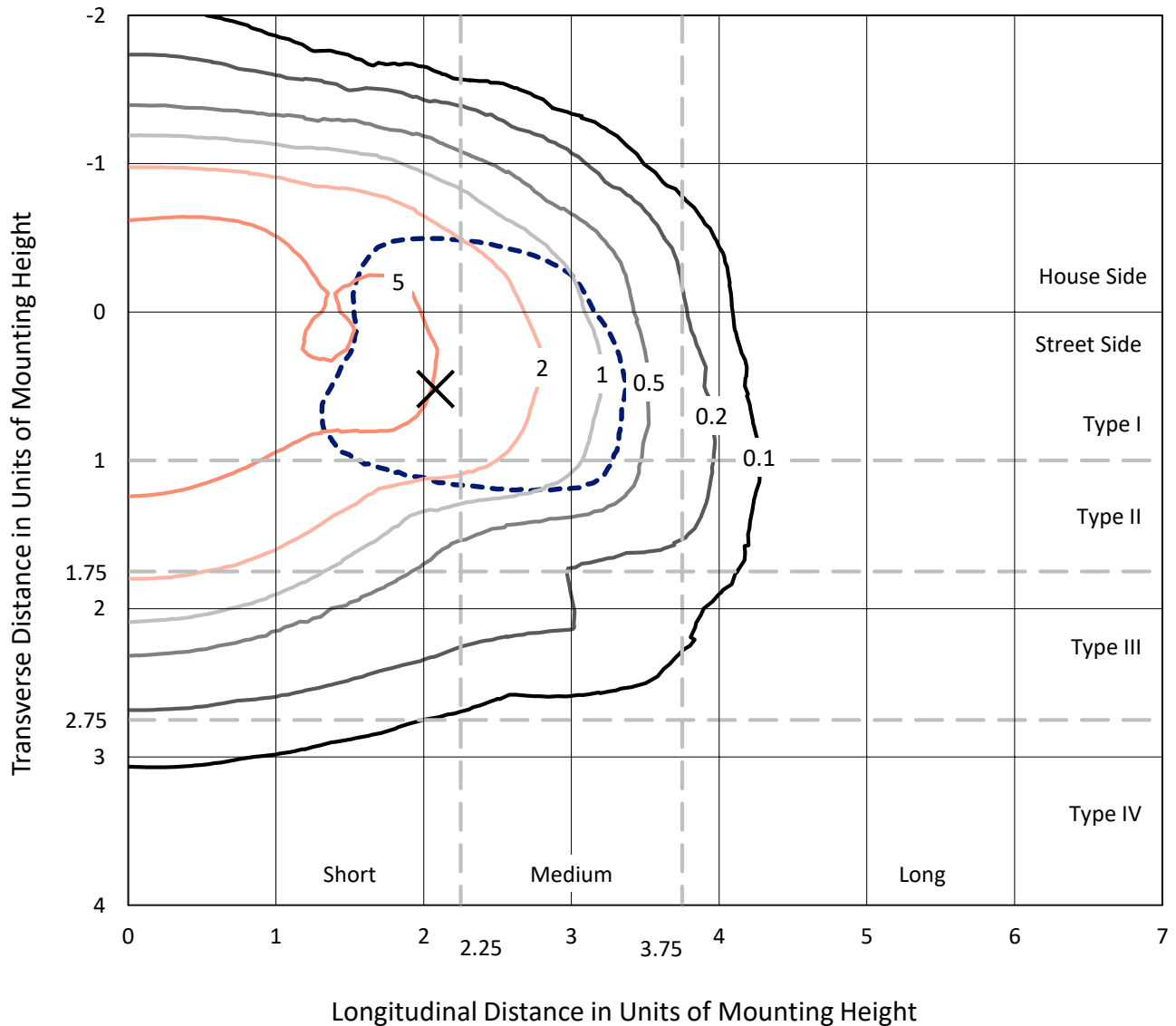


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

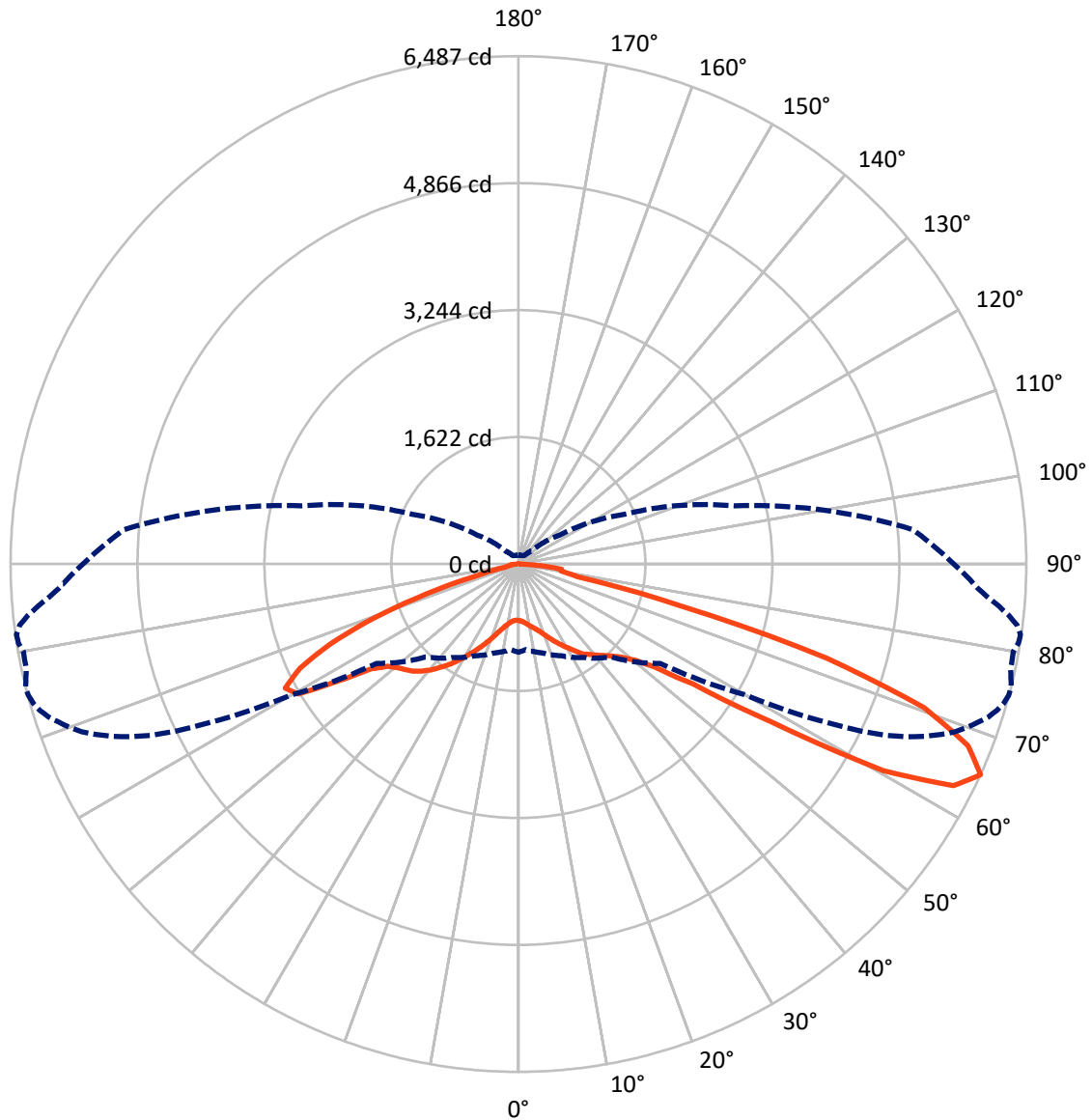


Based on 10 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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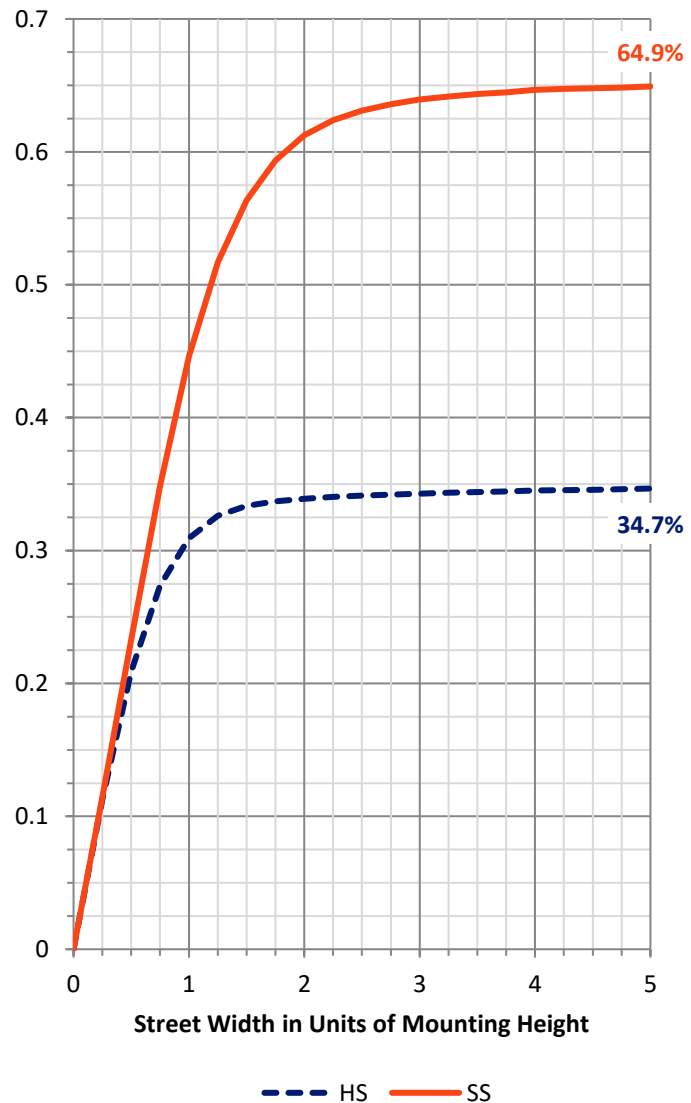
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2527.0	0.0	2527.0
	% Fixture	35.0	0.0	35.0
Street Side	Lumens	4689.4	0.0	4689.4
	% Fixture	65.0	0.0	65.0
Total	Lumens	7216.4	0.0	7216.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.2	1.0
10°-20°	248.2	3.4
20°-30°	487.6	6.8
30°-40°	810.1	11.2
40°-50°	1190.4	16.5
50°-60°	1648.0	22.8
60°-70°	1967.1	27.3
70°-80°	695.7	9.6
80°-90°	97.2	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°	7216.4	100.0
0°-180°	7216.4	100.0

Coefficient of Utilization



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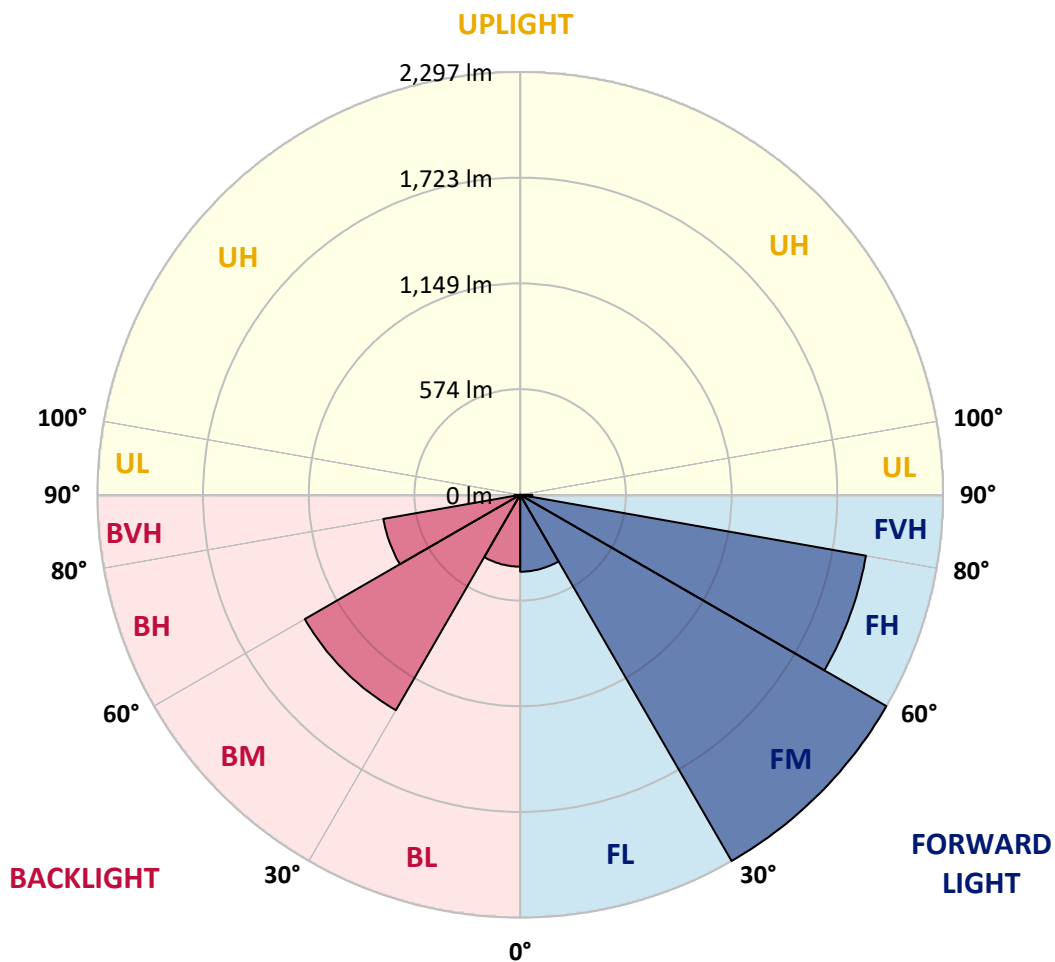
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	417.6	5.8			
FM (30°-60°)	2297.5	31.8			
FH (60°-80°)	1907.9	26.4			G2/5000
FVH (80°-90°)	66.4	0.9			G1/100
BL (0°-30°)	390.4	5.4	B1/500		
BM (30°-60°)	1351.0	18.7	B2/2500		
BH (60°-80°)	754.8	10.5	B2/1000		G2/1000
BVH (80°-90°)	30.8	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°	721.5	721.5	721.5	721.5	721.5	721.5	721.5	721.5	721.5	721.5	721.5
2.5°	752.9	753.7	752.1	751.4	749.0	745.0	742.0	738.8	738.8	738.8	736.5
5°	785.9	787.4	784.3	782.0	774.9	771.0	765.5	761.6	760.0	759.2	756.8
7.5°	827.5	825.1	820.5	818.9	813.4	804.7	794.5	786.7	786.7	785.9	786.7
10°	869.1	862.8	860.5	858.1	849.5	838.5	826.7	818.1	817.3	816.6	814.1
12.5°	910.7	908.4	906.1	897.4	888.7	871.4	858.1	849.5	848.7	849.5	846.3
15°	965.7	960.2	957.9	942.9	924.1	905.2	888.7	880.9	878.5	879.4	876.9
17.5°	1008.1	1008.1	1002.6	986.1	961.8	935.8	918.6	913.9	913.1	913.1	913.9
20°	1041.9	1041.0	1035.5	1022.2	993.1	967.3	958.6	957.0	956.3	956.3	958.6
22.5°	1060.7	1059.1	1056.8	1041.9	1019.1	1001.8	1002.6	1007.3	1008.8	1010.4	1013.6
25°	1070.1	1067.7	1067.0	1056.8	1040.3	1038.0	1052.0	1064.7	1067.7	1070.9	1074.8
27.5°	1085.8	1081.9	1083.4	1079.5	1075.6	1082.7	1111.7	1125.0	1127.4	1131.4	1133.7
30°	1129.0	1127.4	1133.7	1135.3	1138.4	1148.7	1175.4	1187.9	1193.4	1193.4	1204.4
32.5°	1211.4	1212.2	1213.8	1230.2	1235.7	1242.8	1256.9	1267.2	1267.9	1268.8	1279.0
35°	1322.1	1326.8	1340.2	1354.3	1367.6	1366.9	1358.2	1363.7	1359.8	1364.6	1365.3
37.5°	1461.9	1455.6	1475.3	1507.5	1527.8	1522.3	1483.8	1458.7	1465.8	1462.7	1460.3
40°	1569.4	1576.5	1614.1	1656.6	1672.3	1689.6	1639.4	1596.1	1589.9	1578.1	1571.0
42.5°	1717.9	1718.6	1749.2	1780.7	1826.2	1863.8	1831.6	1769.7	1750.8	1736.7	1706.1
45°	1855.3	1852.8	1878.0	1916.5	1970.6	2024.8	2036.6	1969.0	1962.0	1936.8	1896.8
47.5°	1947.1	1943.9	1961.2	2011.5	2099.4	2188.1	2236.8	2216.4	2203.0	2192.9	2130.0
50°	2009.1	2002.8	2022.4	2075.8	2174.0	2310.6	2437.8	2455.1	2449.6	2449.6	2409.5
52.5°	2055.5	2055.5	2069.6	2112.8	2212.5	2382.8	2610.5	2697.7	2704.7	2712.6	2710.2
55°	2029.5	2033.4	2068.8	2131.5	2236.8	2433.0	2753.4	2944.2	2983.5	3016.4	3054.1
57.5°	1940.8	1954.2	2001.2	2104.1	2243.1	2470.7	2912.0	3289.6	3400.3	3496.1	3645.2
60°	1811.3	1828.6	1896.8	2027.9	2196.8	2409.5	2967.7	3581.7	3757.5	3966.3	4355.8
62.5°	1589.0	1606.3	1673.0	1804.2	1948.7	2174.8	2736.9	3624.9	3906.0	4201.9	4790.7
65°	1125.9	1098.3	1175.4	1293.1	1458.7	1677.8	2211.6	3335.2	3739.5	4140.7	4867.7
67.5°	627.3	624.9	672.1	760.0	918.6	1154.1	1523.9	2557.9	2930.1	3384.6	4277.3
70°	432.6	437.3	467.2	562.1	693.2	896.6	1085.8	1606.3	1874.1	2182.6	3060.4
72.5°	303.8	314.0	330.5	387.1	521.3	755.3	1109.4	960.2	1093.7	1304.1	1840.3
75°	178.2	185.3	197.0	224.6	296.7	504.8	1148.7	844.0	844.0	893.5	1113.3
77.5°	110.0	110.0	117.0	128.0	157.8	247.4	818.1	948.4	921.7	893.5	895.8
80°	56.6	60.5	70.7	76.2	87.9	113.0	367.4	884.8	970.4	1027.7	987.6
82.5°	26.0	29.0	43.2	46.3	51.1	59.6	126.4	503.3	674.4	888.0	1109.4
85°	13.3	13.3	22.8	28.3	30.6	27.4	46.3	203.4	307.7	469.5	734.9
87.5°	2.3	2.3	3.9	4.7	7.1	6.3	7.8	11.8	19.6	21.2	22.0
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	721.5	721.5	721.5	721.5	721.5	721.5	721.5	721.5	721.5	721.5	721.5
2.5°	735.6	736.5	735.6	734.9	733.3	733.3	733.3	732.5	732.5	732.5	731.7
5°	756.8	753.7	754.5	752.9	752.1	751.4	752.1	750.6	749.0	749.8	749.0
7.5°	783.5	782.0	778.8	778.8	778.1	776.5	776.5	774.1	773.3	771.7	771.0
10°	813.4	809.5	811.0	809.5	810.2	807.1	805.5	803.9	802.4	802.4	803.2
12.5°	844.0	843.2	840.8	839.3	839.3	836.9	837.7	836.9	834.6	833.8	831.4
15°	875.4	875.4	873.0	873.9	873.0	871.4	869.9	869.9	868.4	866.8	867.5
17.5°	912.3	912.3	912.3	912.3	913.1	910.7	911.5	910.0	908.4	911.5	911.5
20°	960.2	963.4	963.4	962.5	966.5	964.1	963.4	967.3	963.4	968.8	968.0
22.5°	1015.2	1018.3	1018.3	1021.4	1022.2	1024.6	1026.1	1024.6	1027.7	1030.9	1030.9
25°	1076.4	1079.5	1081.9	1086.6	1088.9	1087.4	1088.2	1092.1	1093.7	1096.8	1099.9
27.5°	1140.8	1141.6	1144.7	1150.1	1154.1	1155.7	1156.5	1162.8	1163.5	1165.1	1168.3
30°	1203.5	1211.4	1209.9	1216.9	1219.3	1221.6	1226.3	1228.7	1234.2	1237.3	1237.3
32.5°	1277.4	1275.8	1282.1	1287.5	1291.5	1295.4	1299.4	1302.5	1305.7	1307.2	1315.1
35°	1369.2	1372.4	1372.4	1373.1	1382.6	1383.4	1386.5	1393.6	1395.9	1400.7	1403.8
37.5°	1460.3	1454.8	1454.1	1454.1	1450.9	1453.2	1454.1	1454.8	1458.0	1458.7	1461.9
40°	1562.3	1555.3	1549.0	1545.1	1538.8	1530.1	1528.7	1524.7	1527.1	1526.2	1527.1
42.5°	1702.1	1682.5	1667.5	1656.6	1644.0	1634.6	1627.5	1617.3	1610.2	1601.6	1600.1
45°	1880.4	1843.5	1818.3	1800.3	1782.2	1756.3	1741.4	1725.7	1711.5	1697.4	1685.6
47.5°	2114.3	2075.1	2035.0	2002.1	1973.8	1932.2	1889.8	1866.2	1838.7	1814.4	1797.1
50°	2389.9	2342.8	2323.9	2277.6	2242.2	2179.5	2126.9	2088.4	2033.4	1996.6	1964.4
52.5°	2671.7	2659.9	2649.8	2610.5	2568.9	2532.8	2486.4	2418.9	2363.2	2320.8	2254.8
55°	3055.6	3061.1	3057.2	3036.0	3021.1	2986.5	2967.7	2908.9	2883.7	2822.4	2753.4
57.5°	3701.8	3745.8	3801.5	3823.5	3853.3	3825.0	3858.1	3898.1	3798.3	3833.0	3770.9
60°	4527.0	4728.8	4848.9	4996.5	5093.1	5228.0	5252.4	5287.8	5277.5	5297.1	5337.2
62.5°	5031.0	5270.5	5500.5	5667.8	5846.7	5945.6	6065.0	6148.2	6234.5	6292.7	6276.2
65°	5179.4	5425.9	5634.7	5817.7	5977.8	6098.7	6209.4	6313.9	6393.2	6448.9	6481.9
67.5°	4634.5	4956.4	5176.2	5390.5	5597.1	5724.2	5816.9	5918.2	6034.4	6130.9	6149.8
70°	3487.5	3970.3	4282.0	4538.7	4781.3	4952.5	5082.1	5176.2	5266.5	5335.7	5411.0
72.5°	2181.0	2603.5	2959.8	3292.8	3550.3	3785.8	3894.9	4103.7	4076.3	4128.9	4185.4
75°	1307.2	1512.9	1709.2	1943.9	2079.0	2275.3	2310.6	2345.1	2327.1	2268.2	2312.2
77.5°	908.4	942.1	940.6	927.3	913.1	878.5	833.8	809.5	792.9	769.4	778.8
80°	913.9	840.8	729.4	613.2	506.4	435.7	407.4	407.4	436.6	478.1	519.7
82.5°	1092.1	1014.3	904.5	756.8	599.8	488.4	413.8	383.9	389.4	431.8	485.2
85°	736.5	753.7	661.0	604.6	478.9	372.9	312.5	253.6	224.6	231.6	262.2
87.5°	26.7	32.2	11.8	15.7	11.0	9.4	9.4	10.2	7.1	8.7	7.8
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	721.5	721.5	721.5	721.5	721.5	721.5	721.5	721.5	721.5	721.5	721.5
2.5°	731.0	730.1	730.1	728.6	728.6	727.8	727.8	727.0	726.2	726.2	725.4
5°	748.2	747.4	745.9	745.0	743.5	743.5	742.7	741.1	741.1	739.5	738.8
7.5°	772.6	771.0	769.4	768.7	767.8	765.5	765.5	763.9	763.9	762.3	761.6
10°	801.6	800.0	798.4	799.3	796.9	796.1	794.5	794.5	792.2	791.4	791.4
12.5°	833.0	832.2	832.2	829.9	829.1	828.3	825.1	825.1	825.1	823.5	824.4
15°	866.8	867.5	865.2	867.5	866.8	864.4	864.4	864.4	861.3	865.2	862.1
17.5°	912.3	914.6	913.1	913.9	912.3	912.3	913.1	912.3	913.9	913.9	918.6
20°	968.8	969.6	973.5	972.0	972.0	971.2	972.8	973.5	976.7	975.1	978.2
22.5°	1030.9	1034.8	1035.5	1038.7	1038.7	1038.0	1039.4	1042.6	1044.2	1046.5	1045.8
25°	1101.5	1103.9	1107.0	1103.1	1109.4	1109.4	1110.9	1114.9	1115.6	1115.6	1121.1
27.5°	1167.4	1173.8	1174.5	1178.4	1176.1	1177.7	1183.2	1185.5	1188.7	1188.7	1190.2
30°	1242.1	1244.4	1246.0	1250.7	1249.9	1250.7	1251.4	1255.4	1255.4	1259.4	1263.3
32.5°	1319.0	1320.6	1322.1	1326.8	1328.4	1331.5	1330.0	1333.1	1337.0	1337.9	1340.2
35°	1410.9	1412.4	1414.0	1421.0	1421.9	1427.4	1428.9	1427.4	1433.6	1429.7	1433.6
37.5°	1464.2	1471.3	1472.8	1477.6	1476.0	1479.9	1482.3	1485.4	1487.0	1490.1	1496.4
40°	1529.4	1531.7	1536.5	1538.8	1542.0	1542.7	1545.9	1548.3	1550.6	1557.7	1564.8
42.5°	1596.1	1599.3	1601.6	1604.8	1608.7	1611.8	1614.1	1621.2	1622.8	1627.5	1640.8
45°	1677.0	1675.5	1676.2	1677.0	1678.6	1682.5	1689.6	1696.7	1701.3	1712.3	1723.4
47.5°	1777.5	1767.3	1763.4	1757.1	1758.6	1767.3	1768.8	1780.7	1790.1	1800.3	1813.6
50°	1929.8	1902.3	1885.9	1869.3	1867.8	1872.5	1878.8	1891.4	1902.3	1915.6	1934.5
52.5°	2185.8	2133.1	2100.2	2054.6	2042.1	2039.7	2035.0	2042.1	2045.2	2063.3	2098.6
55°	2703.9	2606.5	2543.7	2473.1	2407.2	2387.5	2349.9	2357.7	2349.9	2360.9	2413.4
57.5°	3785.8	3708.1	3646.8	3556.6	3443.5	3323.4	3293.5	3170.3	3194.6	3265.3	3219.7
60°	5356.9	5328.6	5284.6	5241.4	5086.7	4999.6	4857.5	4841.8	4742.1	4742.8	4677.7
62.5°	6236.1	6272.2	6245.5	6233.0	6224.4	6196.9	6126.3	6041.4	5914.3	5822.4	5687.4
65°	6487.4	6456.8	6427.8	6423.8	6421.4	6466.2	6476.4	6416.7	6301.3	6158.5	6003.0
67.5°	6194.5	6177.2	6178.8	6145.9	6166.3	6244.0	6298.2	6281.7	6175.7	6003.0	5805.2
70°	5497.3	5463.6	5498.2	5541.3	5571.9	5616.7	5670.8	5684.2	5587.7	5410.2	5208.4
72.5°	4116.3	4121.9	4154.8	4166.6	4289.9	4277.3	4326.0	4167.4	4097.5	3928.7	3825.0
75°	2166.2	2130.8	2222.6	2027.9	1947.8	2003.6	1847.4	1697.4	1728.8	1754.7	1567.8
77.5°	765.5	716.0	632.0	598.2	497.8	421.6	344.7	310.9	292.8	283.4	271.6
80°	549.6	565.3	548.0	507.2	431.1	345.5	272.5	215.2	184.5	168.0	157.0
82.5°	555.8	617.9	645.4	633.6	564.5	427.1	281.9	179.8	133.5	111.4	103.6
85°	298.3	326.6	314.0	264.6	237.9	142.1	97.4	65.2	55.0	50.2	46.3
87.5°	11.8	9.4	7.8	7.8	8.7	9.4	7.8	8.7	7.8	7.8	7.8
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):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	721.5	721.5	721.5	721.5	721.5	721.5	721.5	721.5	721.5	721.5	721.5
2.5°	723.9	723.9	723.9	723.1	721.5	717.6	713.7	710.5	708.2	705.8	702.7
5°	738.1	736.5	736.5	736.5	730.1	723.9	718.4	712.8	708.2	704.3	701.1
7.5°	761.6	760.7	757.7	756.8	752.1	742.0	735.6	726.2	720.7	715.3	713.7
10°	789.9	789.0	788.3	787.4	781.2	771.0	763.2	754.5	746.6	738.8	731.0
12.5°	822.8	822.1	821.2	818.9	816.6	811.0	802.4	792.9	783.5	767.1	758.4
15°	863.6	865.2	863.6	862.8	861.3	862.1	856.6	843.2	828.3	807.1	789.0
17.5°	917.8	916.2	915.4	918.6	917.8	921.7	920.2	902.9	880.1	846.3	815.0
20°	977.5	977.5	980.6	983.0	990.1	1000.2	995.5	974.3	932.7	885.6	844.7
22.5°	1048.9	1050.5	1053.6	1052.0	1063.1	1079.5	1081.1	1051.3	997.1	931.9	874.6
25°	1123.5	1125.0	1122.0	1126.6	1144.7	1168.3	1172.9	1130.5	1059.1	974.3	899.7
27.5°	1194.1	1195.7	1195.7	1202.1	1219.3	1259.4	1264.0	1216.9	1122.0	1011.3	917.8
30°	1263.3	1269.5	1271.1	1272.7	1298.6	1354.3	1364.6	1296.2	1176.8	1038.7	930.3
32.5°	1350.4	1352.8	1355.9	1359.8	1389.7	1458.0	1458.0	1364.6	1212.2	1056.0	932.7
35°	1443.8	1444.6	1451.6	1452.5	1494.9	1563.2	1549.8	1421.0	1237.3	1052.0	915.4
37.5°	1500.4	1503.5	1510.5	1520.0	1564.8	1661.3	1630.7	1469.8	1242.1	1026.1	876.2
40°	1570.2	1576.5	1583.5	1593.0	1659.7	1761.0	1699.0	1500.4	1222.4	975.1	817.3
42.5°	1645.6	1654.2	1665.2	1682.5	1761.8	1848.9	1750.8	1505.0	1177.7	917.8	747.4
45°	1730.4	1746.1	1758.6	1779.1	1868.6	1925.1	1782.2	1477.6	1121.1	842.4	672.8
47.5°	1828.6	1841.1	1863.1	1885.0	1974.5	1976.9	1785.3	1424.2	1044.2	767.1	593.6
50°	1949.4	1957.3	1990.2	2003.6	2087.6	2031.1	1762.6	1352.0	963.4	682.2	505.6
52.5°	2110.3	2121.4	2163.7	2184.2	2243.8	2104.9	1730.4	1273.5	870.7	587.3	415.4
55°	2428.4	2476.2	2506.1	2541.4	2579.9	2272.1	1716.3	1189.4	766.2	477.3	328.9
57.5°	3321.0	3305.3	3371.3	3451.4	3450.5	2654.4	1801.0	1117.2	643.0	365.1	252.8
60°	4651.0	4665.9	4632.1	4680.0	4527.7	3128.7	1917.2	1041.0	504.0	271.6	193.1
62.5°	5639.5	5553.1	5505.2	5448.7	5113.4	3180.5	1832.5	884.8	366.6	190.8	148.4
65°	5873.4	5772.1	5669.3	5561.7	5056.1	2867.3	1503.5	649.3	237.1	131.1	117.8
67.5°	5642.6	5480.1	5349.0	5238.3	4633.0	2376.6	1099.2	398.8	135.8	106.0	100.5
70°	5044.3	4864.6	4652.6	4528.5	3901.2	1751.5	704.3	215.2	104.5	94.2	91.8
72.5°	3692.4	3544.8	3313.1	3171.1	2801.3	1064.7	393.3	120.9	97.4	90.3	87.2
75°	1438.3	1361.4	1264.8	1272.7	1136.1	471.1	178.2	104.5	95.0	88.7	85.6
77.5°	247.4	241.0	223.0	223.0	253.6	171.9	118.5	105.2	94.2	87.2	81.7
80°	148.4	145.2	138.1	136.7	131.9	120.9	113.9	106.8	92.7	82.4	75.3
82.5°	97.4	93.4	91.1	90.3	98.1	106.0	106.8	106.0	87.9	71.4	61.2
85°	41.6	41.6	41.6	42.4	56.6	85.6	87.9	94.2	72.2	55.7	44.0
87.5°	7.1	8.7	8.7	9.4	10.2	18.9	23.5	30.6	24.4	23.5	21.2
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):

	165°	175°	180°
0°	721.5	721.5	721.5
2.5°	701.9	700.3	700.3
5°	699.5	698.0	698.8
7.5°	708.9	705.8	706.6
10°	726.2	723.1	721.5
12.5°	748.2	744.3	744.3
15°	771.0	761.6	760.7
17.5°	789.9	778.1	776.5
20°	811.0	795.4	792.9
22.5°	830.6	809.5	806.3
25°	844.7	818.9	815.0
27.5°	851.1	820.5	817.3
30°	855.8	821.2	816.6
32.5°	851.1	814.1	810.2
35°	825.1	785.1	782.8
37.5°	780.4	735.6	732.5
40°	721.5	674.4	666.5
42.5°	646.1	602.1	593.6
45°	573.1	522.9	519.0
47.5°	494.6	446.7	449.1
50°	412.2	369.0	368.2
52.5°	333.7	296.0	293.7
55°	263.0	236.3	234.0
57.5°	208.1	194.0	191.5
60°	169.6	162.5	160.2
62.5°	136.7	134.2	133.5
65°	113.9	113.9	113.9
67.5°	98.9	99.7	99.7
70°	91.1	91.8	91.1
72.5°	87.9	90.3	90.3
75°	85.6	87.2	84.0
77.5°	84.0	84.8	79.3
80°	83.3	82.4	72.2
82.5°	72.2	69.9	61.2
85°	66.0	50.2	42.4
87.5°	33.8	23.5	18.0
90°	0.0	0.0	0.0

(END OF REPORT)