

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: P181298

Luminaire Tested: **ICS-E03-LED-E1-T2-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181298
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: ICS-E03-LED-E1-T2-7030
Description: ICON SITE SMALL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (63) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7556 lumens
Efficiency: N/A
Efficacy: 100.5 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



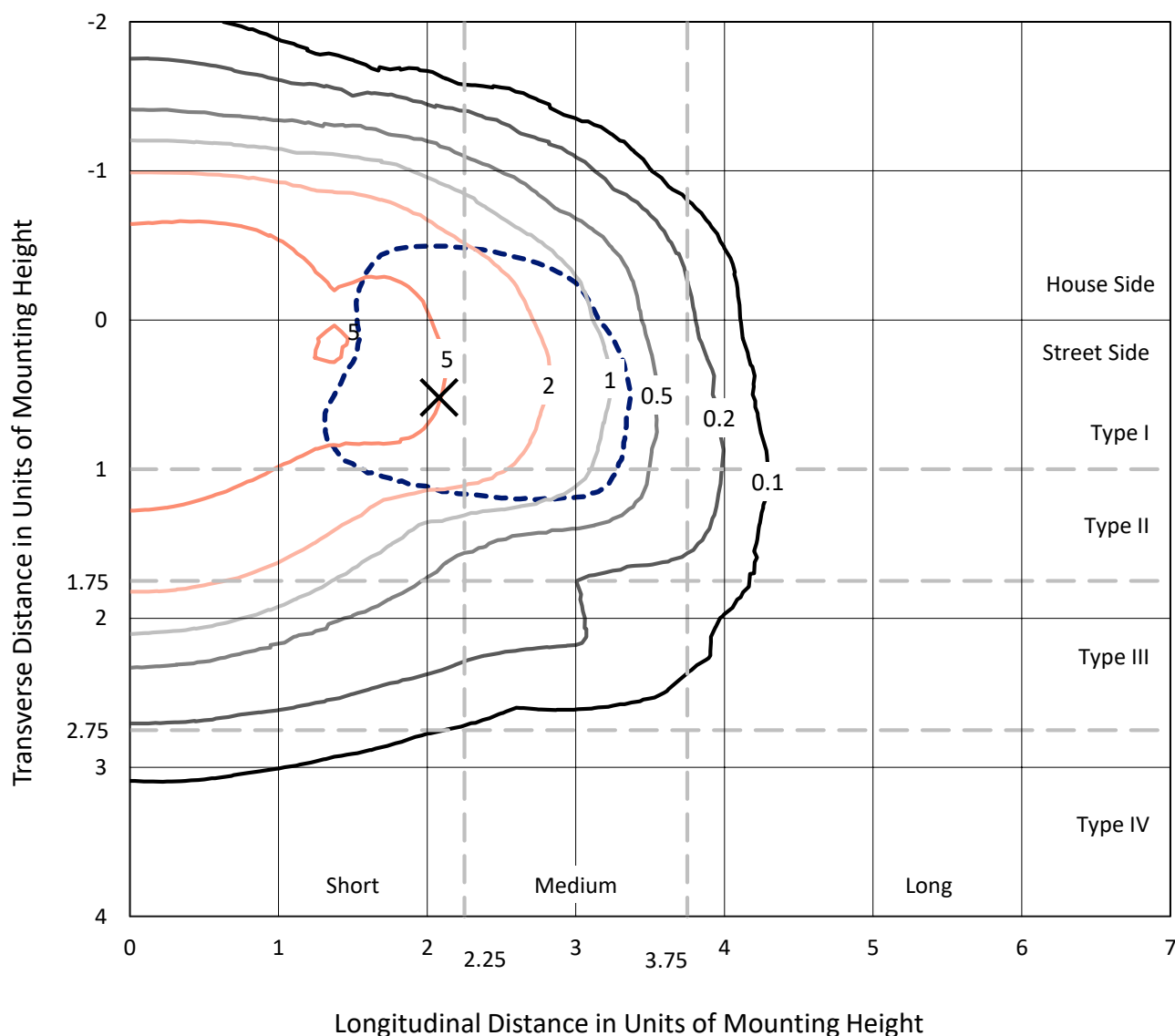
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CATALOG NUMBER: ICS-E03-LED-E1-T2-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

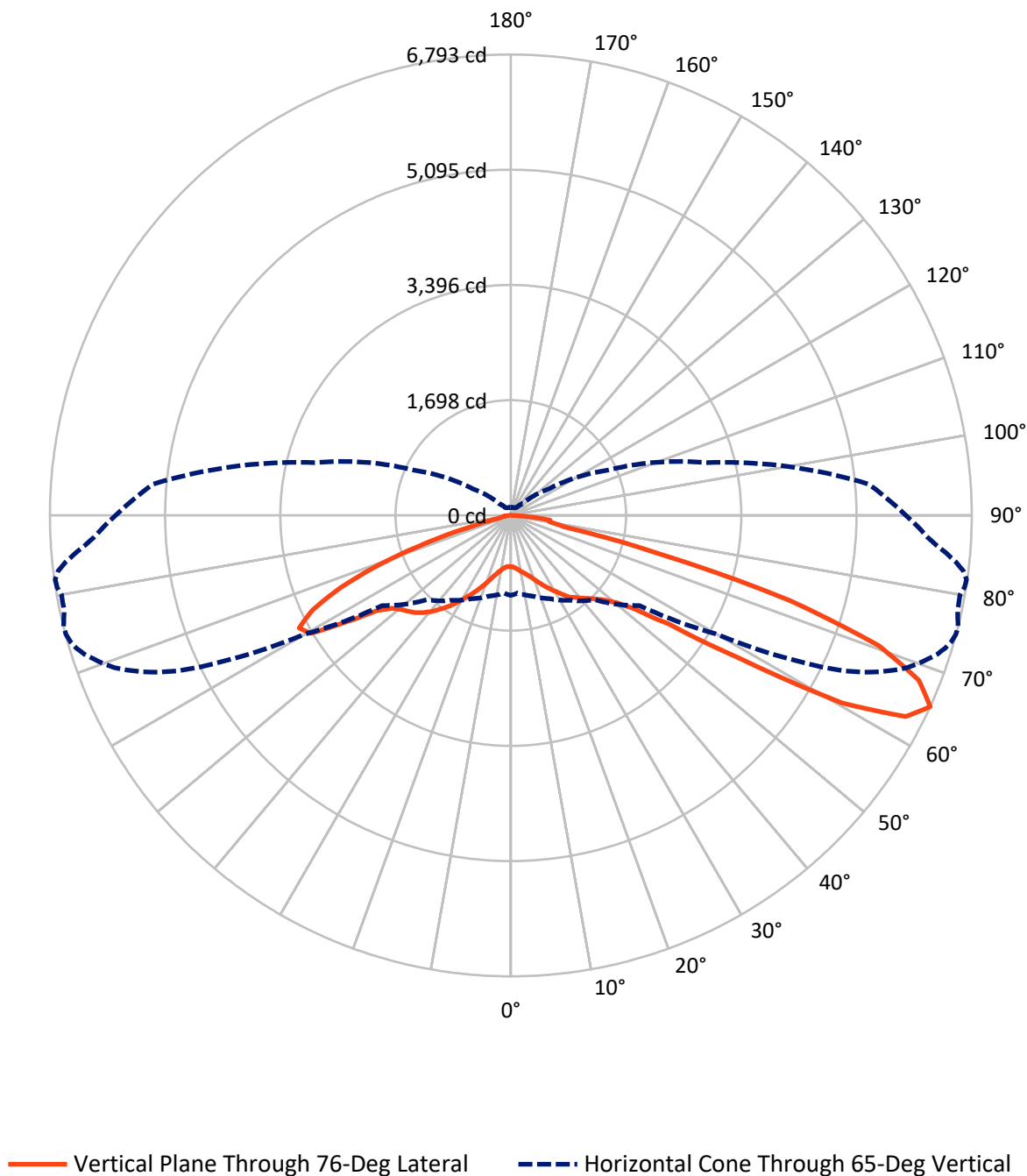


Based on 10 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2645.9	0.0	2645.9
	% Fixture	35.0	0.0	35.0
Street Side	Lumens	4910.1	0.0	4910.1
	% Fixture	65.0	0.0	65.0
Total	Lumens	7556.0	0.0	7556.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.6	1.0
10°-20°	259.8	3.4
20°-30°	510.5	6.8
30°-40°	848.2	11.2
40°-50°	1246.4	16.5
50°-60°	1725.6	22.8
60°-70°	2059.7	27.3
70°-80°	728.4	9.6
80°-90°	101.8	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°	7556.0	100.0
0°-180°	7556.0	100.0

Coefficient of Utilization



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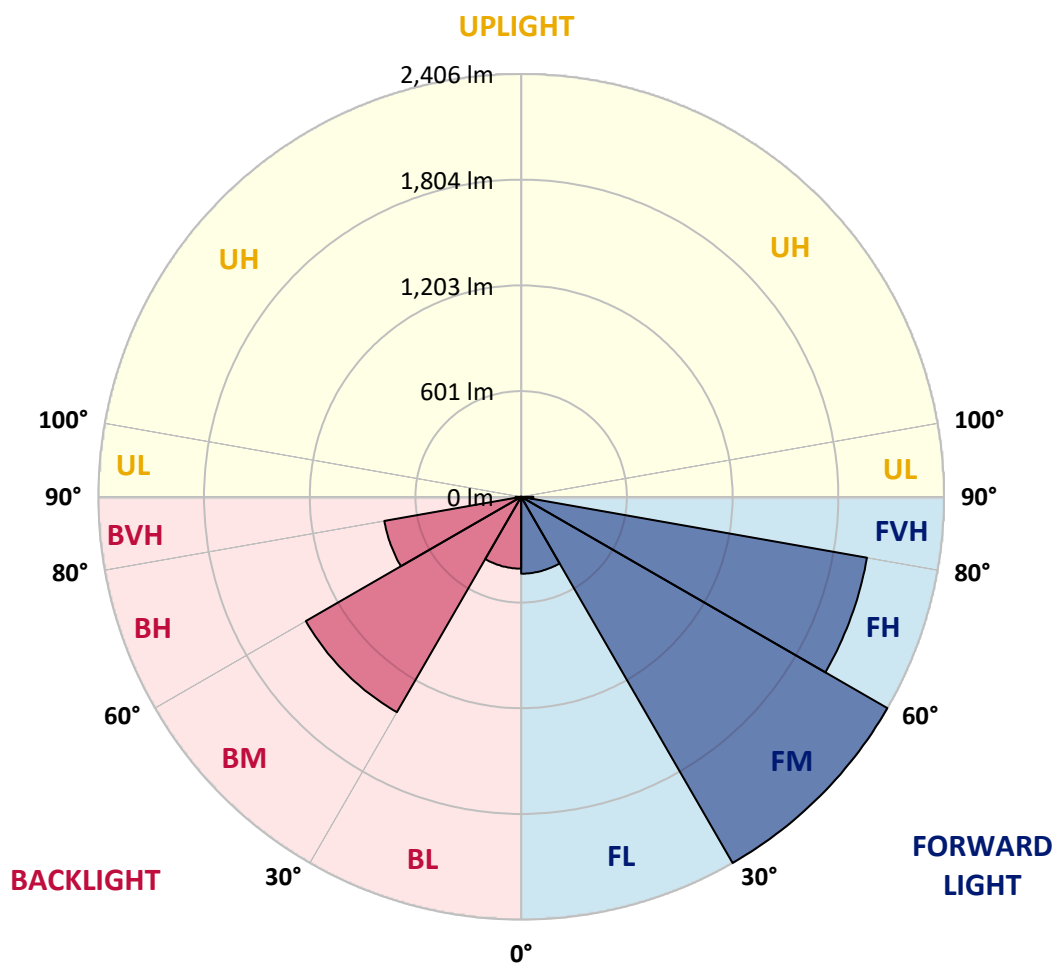
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	437.2	5.8			
FM	(30°-60°)	2405.6	31.8			
FH	(60°-80°)	1997.7	26.4			G2/5000
FVH	(80°-90°)	69.6	0.9			G1/100
BL	(0°-30°)	408.8	5.4	B1/500		
BM	(30°-60°)	1414.6	18.7	B2/2500		
BH	(60°-80°)	790.3	10.5	B2/1000		G2/1000
BVH	(80°-90°)	32.2	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°	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5
2.5°	788.4	789.2	787.5	786.7	784.2	780.1	776.8	773.6	773.6	773.6	771.1
5°	822.9	824.5	821.2	818.8	811.4	807.3	801.5	797.4	795.8	794.9	792.5
7.5°	866.5	864.0	859.1	857.4	851.7	842.6	831.9	823.7	823.7	822.9	823.7
10°	910.0	903.4	901.0	898.5	889.5	878.0	865.6	856.6	855.8	854.9	852.5
12.5°	953.6	951.1	948.7	939.6	930.6	912.5	898.5	889.5	888.6	889.5	886.2
15°	1011.1	1005.4	1002.9	987.3	967.6	947.8	930.6	922.4	919.9	920.7	918.2
17.5°	1055.5	1055.5	1049.8	1032.5	1007.0	979.9	961.8	956.9	956.1	956.1	956.9
20°	1090.9	1090.1	1084.3	1070.3	1039.9	1012.8	1003.7	1002.1	1001.3	1001.3	1003.7
22.5°	1110.6	1109.0	1106.5	1090.9	1067.0	1048.9	1049.8	1054.7	1056.3	1058.0	1061.3
25°	1120.5	1118.0	1117.2	1106.5	1089.2	1086.8	1101.6	1114.7	1118.0	1121.3	1125.4
27.5°	1136.9	1132.8	1134.4	1130.3	1126.2	1133.6	1164.0	1178.0	1180.5	1184.6	1187.1
30°	1182.1	1180.5	1187.1	1188.7	1192.0	1202.7	1230.6	1243.8	1249.5	1249.5	1261.0
32.5°	1268.4	1269.3	1270.9	1288.2	1293.9	1301.3	1316.1	1326.8	1327.6	1328.4	1339.1
35°	1384.3	1389.3	1403.3	1418.1	1432.0	1431.2	1422.2	1427.9	1423.8	1428.7	1429.6
37.5°	1530.7	1524.1	1544.7	1578.4	1599.7	1594.0	1553.7	1527.4	1534.8	1531.5	1529.0
40°	1643.3	1650.7	1690.2	1734.5	1751.0	1769.1	1716.5	1671.2	1664.7	1652.3	1644.9
42.5°	1798.7	1799.5	1831.5	1864.4	1912.1	1951.6	1917.9	1852.9	1833.2	1818.4	1786.3
45°	1942.5	1940.1	1966.4	2006.6	2063.4	2120.1	2132.4	2061.7	2054.3	2028.0	1986.1
47.5°	2038.7	2035.4	2053.5	2106.1	2198.2	2291.1	2342.0	2320.7	2306.7	2296.0	2230.2
50°	2103.7	2097.1	2117.6	2173.5	2276.3	2419.3	2552.5	2570.6	2564.8	2564.8	2522.9
52.5°	2152.2	2152.2	2167.0	2212.2	2316.6	2495.0	2733.3	2824.6	2832.0	2840.2	2837.8
55°	2125.0	2129.1	2166.1	2231.9	2342.0	2547.6	2883.0	3082.7	3123.8	3158.4	3197.8
57.5°	2032.1	2046.1	2095.4	2203.1	2348.6	2587.0	3049.0	3444.4	3560.3	3660.6	3816.8
60°	1896.5	1914.6	1986.1	2123.4	2300.1	2522.9	3107.4	3750.2	3934.4	4153.0	4560.8
62.5°	1663.8	1681.9	1751.8	1889.1	2040.4	2277.1	2865.7	3795.5	4089.7	4399.7	5016.2
65°	1178.8	1150.1	1230.6	1353.9	1527.4	1756.7	2315.7	3492.1	3915.5	4335.5	5096.8
67.5°	656.8	654.4	703.7	795.8	961.8	1208.4	1595.6	2678.3	3067.9	3543.9	4478.6
70°	453.0	457.9	489.1	588.6	725.9	938.8	1136.9	1681.9	1962.3	2285.3	3204.4
72.5°	318.1	328.8	346.1	405.3	545.8	790.8	1161.6	1005.4	1145.1	1365.4	1926.9
75°	186.6	194.0	206.3	235.1	310.7	528.6	1202.7	883.7	883.7	935.5	1165.7
77.5°	115.1	115.1	122.5	134.0	165.2	258.9	856.6	993.0	965.1	935.5	938.0
80°	59.2	63.3	74.0	79.7	92.1	118.4	384.7	926.5	1016.1	1076.1	1034.2
82.5°	27.1	30.4	45.2	48.5	53.4	62.5	132.4	526.9	706.1	929.7	1161.6
85°	14.0	14.0	23.8	29.6	32.1	28.8	48.5	212.9	322.2	491.6	769.4
87.5°	2.5	2.5	4.1	4.9	7.4	6.6	8.2	12.3	20.6	22.2	23.0
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°	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5
2.5°	770.3	771.1	770.3	769.4	767.8	767.8	767.8	767.0	767.0	767.0	766.2
5°	792.5	789.2	790.0	788.4	787.5	786.7	787.5	785.9	784.2	785.1	784.2
7.5°	820.4	818.8	815.5	815.5	814.7	813.0	813.0	810.6	809.7	808.1	807.3
10°	851.7	847.5	849.2	847.5	848.4	845.1	843.4	841.8	840.1	840.1	841.0
12.5°	883.7	882.9	880.4	878.8	878.8	876.3	877.1	876.3	873.8	873.0	870.6
15°	916.6	916.6	914.1	915.0	914.1	912.5	910.8	910.8	909.2	907.6	908.4
17.5°	955.2	955.2	955.2	955.2	956.1	953.6	954.4	952.8	951.1	954.4	954.4
20°	1005.4	1008.7	1008.7	1007.8	1012.0	1009.5	1008.7	1012.8	1008.7	1014.4	1013.6
22.5°	1062.9	1066.2	1066.2	1069.5	1070.3	1072.8	1074.4	1072.8	1076.1	1079.4	1079.4
25°	1127.0	1130.3	1132.8	1137.7	1140.2	1138.6	1139.4	1143.5	1145.1	1148.4	1151.7
27.5°	1194.5	1195.3	1198.6	1204.3	1208.4	1210.1	1210.9	1217.5	1218.3	1219.9	1223.2
30°	1260.2	1268.4	1266.8	1274.2	1276.7	1279.1	1284.1	1286.5	1292.3	1295.6	1295.6
32.5°	1337.5	1335.8	1342.4	1348.2	1352.3	1356.4	1360.5	1363.8	1367.1	1368.7	1377.0
35°	1433.7	1437.0	1437.0	1437.8	1447.6	1448.5	1451.8	1459.2	1461.6	1466.6	1469.8
37.5°	1529.0	1523.3	1522.5	1522.5	1519.2	1521.6	1522.5	1523.3	1526.6	1527.4	1530.7
40°	1635.9	1628.5	1621.9	1617.8	1611.2	1602.2	1600.6	1596.4	1598.9	1598.1	1598.9
42.5°	1782.2	1761.7	1746.1	1734.5	1721.4	1711.5	1704.1	1693.4	1686.0	1677.0	1675.4
45°	1968.8	1930.2	1903.9	1885.0	1866.1	1838.9	1823.3	1806.9	1792.1	1777.3	1765.0
47.5°	2213.8	2172.7	2130.8	2096.3	2066.7	2023.1	1978.7	1954.0	1925.3	1899.8	1881.7
50°	2502.4	2453.0	2433.3	2384.8	2347.8	2282.0	2227.0	2186.7	2129.1	2090.5	2056.8
52.5°	2797.5	2785.1	2774.5	2733.3	2689.8	2652.0	2603.5	2532.8	2474.4	2430.0	2361.0
55°	3199.5	3205.2	3201.1	3178.9	3163.3	3127.1	3107.4	3045.7	3019.4	2955.3	2883.0
57.5°	3876.0	3922.0	3980.4	4003.4	4034.7	4005.1	4039.6	4081.5	3977.1	4013.3	3948.4
60°	4740.0	4951.3	5077.0	5231.6	5332.7	5474.1	5499.6	5536.6	5525.9	5546.4	5588.4
62.5°	5267.8	5518.5	5759.4	5934.5	6121.9	6225.5	6350.4	6437.6	6528.0	6588.8	6571.5
65°	5423.1	5681.3	5899.9	6091.5	6259.2	6385.8	6501.7	6611.0	6694.0	6752.4	6786.9
67.5°	4852.6	5189.7	5419.8	5644.3	5860.5	5993.6	6090.6	6196.7	6318.4	6419.5	6439.2
70°	3651.6	4157.2	4483.5	4752.3	5006.3	5185.6	5321.2	5419.8	5514.4	5586.7	5665.6
72.5°	2283.7	2726.0	3099.2	3447.7	3717.4	3964.0	4078.2	4296.9	4268.1	4323.2	4382.4
75°	1368.7	1584.1	1789.6	2035.4	2176.8	2382.3	2419.3	2455.5	2436.6	2374.9	2421.0
77.5°	951.1	986.5	984.8	970.9	956.1	919.9	873.0	847.5	830.3	805.6	815.5
80°	956.9	880.4	763.7	642.0	530.2	456.2	426.6	426.6	457.1	500.6	544.2
82.5°	1143.5	1062.1	947.0	792.5	628.1	511.3	433.2	402.0	407.7	452.1	508.0
85°	771.1	789.2	692.2	633.0	501.5	390.5	327.2	265.5	235.1	242.5	274.6
87.5°	28.0	33.7	12.3	16.4	11.5	9.9	9.9	10.7	7.4	9.0	8.2
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5
2.5°	765.3	764.5	764.5	762.9	762.9	762.0	762.0	761.2	760.4	760.4	759.6
5°	783.4	782.6	781.0	780.1	778.5	778.5	777.7	776.0	776.0	774.4	773.6
7.5°	808.9	807.3	805.6	804.8	804.0	801.5	801.5	799.9	799.9	798.2	797.4
10°	839.3	837.7	836.0	836.9	834.4	833.6	831.9	831.9	829.5	828.6	828.6
12.5°	872.2	871.4	871.4	868.9	868.1	867.3	864.0	864.0	864.0	862.3	863.2
15°	907.6	908.4	905.9	908.4	907.6	905.1	905.1	905.1	901.8	905.9	902.6
17.5°	955.2	957.7	956.1	956.9	955.2	955.2	956.1	955.2	956.9	956.9	961.8
20°	1014.4	1015.2	1019.4	1017.7	1017.7	1016.9	1018.5	1019.4	1022.6	1021.0	1024.3
22.5°	1079.4	1083.5	1084.3	1087.6	1087.6	1086.8	1088.4	1091.7	1093.3	1095.8	1095.0
25°	1153.4	1155.8	1159.1	1155.0	1161.6	1161.6	1163.2	1167.3	1168.1	1168.1	1173.9
27.5°	1222.4	1229.0	1229.8	1233.9	1231.4	1233.1	1238.8	1241.3	1244.6	1244.6	1246.2
30°	1300.5	1303.0	1304.6	1309.5	1308.7	1309.5	1310.4	1314.5	1314.5	1318.6	1322.7
32.5°	1381.1	1382.7	1384.3	1389.3	1390.9	1394.2	1392.6	1395.9	1400.0	1400.8	1403.3
35°	1477.2	1478.9	1480.5	1487.9	1488.8	1494.5	1496.1	1494.5	1501.1	1497.0	1501.1
37.5°	1533.1	1540.5	1542.2	1547.1	1545.5	1549.6	1552.0	1555.3	1557.0	1560.3	1566.8
40°	1601.4	1603.8	1608.8	1611.2	1614.5	1615.3	1618.6	1621.1	1623.6	1631.0	1638.4
42.5°	1671.2	1674.5	1677.0	1680.3	1684.4	1687.7	1690.2	1697.6	1699.2	1704.1	1718.1
45°	1755.9	1754.3	1755.1	1755.9	1757.6	1761.7	1769.1	1776.5	1781.4	1792.9	1804.4
47.5°	1861.1	1850.5	1846.3	1839.8	1841.4	1850.5	1852.1	1864.4	1874.3	1885.0	1899.0
50°	2020.6	1991.9	1974.6	1957.3	1955.7	1960.6	1967.2	1980.3	1991.9	2005.8	2025.6
52.5°	2288.6	2233.5	2199.0	2151.3	2138.2	2135.7	2130.8	2138.2	2141.5	2160.4	2197.4
55°	2831.2	2729.2	2663.5	2589.5	2520.4	2499.9	2460.4	2468.6	2460.4	2471.9	2527.0
57.5°	3964.0	3882.6	3818.5	3723.9	3605.6	3479.8	3448.5	3319.5	3345.0	3418.9	3371.3
60°	5608.9	5579.3	5533.3	5488.1	5326.1	5234.9	5086.1	5069.6	4965.2	4966.1	4897.8
62.5°	6529.6	6567.4	6539.5	6526.3	6517.3	6488.5	6414.5	6325.8	6192.6	6096.4	5955.0
65°	6792.7	6760.6	6730.2	6726.1	6723.6	6770.5	6781.2	6718.7	6597.9	6448.2	6285.5
67.5°	6486.1	6468.0	6469.6	6435.1	6456.5	6537.8	6594.6	6577.3	6466.3	6285.5	6078.3
70°	5756.1	5720.7	5756.9	5802.1	5834.2	5881.0	5937.7	5951.7	5850.6	5664.8	5453.5
72.5°	4310.1	4315.8	4350.3	4362.7	4491.7	4478.6	4529.6	4363.5	4290.3	4113.6	4005.1
75°	2268.1	2231.1	2327.3	2123.4	2039.5	2097.9	1934.3	1777.3	1810.2	1837.3	1641.7
77.5°	801.5	749.7	661.8	626.4	521.2	441.4	360.9	325.5	306.6	296.8	284.4
80°	575.4	591.9	573.8	531.1	451.3	361.7	285.3	225.2	193.2	175.9	164.4
82.5°	582.0	647.0	675.7	663.4	591.1	447.2	295.1	188.3	139.8	116.7	108.5
85°	312.4	342.0	328.8	277.0	249.1	148.8	101.9	68.2	57.5	52.6	48.5
87.5°	12.3	9.9	8.2	8.2	9.0	9.9	8.2	9.0	8.2	8.2	8.2
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):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5
2.5°	757.9	757.9	757.9	757.1	755.5	751.4	747.3	744.0	741.5	739.0	735.7
5°	772.7	771.1	771.1	771.1	764.5	757.9	752.2	746.4	741.5	737.4	734.1
7.5°	797.4	796.6	793.3	792.5	787.5	776.8	770.3	760.4	754.7	748.9	747.3
10°	827.0	826.2	825.3	824.5	817.9	807.3	799.0	790.0	781.8	773.6	765.3
12.5°	861.5	860.7	859.9	857.4	854.9	849.2	840.1	830.3	820.4	803.2	794.1
15°	904.3	905.9	904.3	903.4	901.8	902.6	896.9	882.9	867.3	845.1	826.2
17.5°	961.0	959.3	958.5	961.8	961.0	965.1	963.5	945.4	921.5	886.2	853.3
20°	1023.5	1023.5	1026.8	1029.2	1036.6	1047.3	1042.4	1020.2	976.6	927.3	884.5
22.5°	1098.3	1099.9	1103.2	1101.6	1113.1	1130.3	1132.0	1100.7	1044.0	975.8	915.8
25°	1176.4	1178.0	1174.7	1179.7	1198.6	1223.2	1228.2	1183.8	1109.0	1020.2	942.1
27.5°	1250.4	1252.0	1252.0	1258.6	1276.7	1318.6	1323.5	1274.2	1174.7	1058.8	961.0
30°	1322.7	1329.3	1330.9	1332.6	1359.7	1418.1	1428.7	1357.2	1232.3	1087.6	974.1
32.5°	1413.9	1416.4	1419.7	1423.8	1455.0	1526.6	1526.6	1428.7	1269.3	1105.7	976.6
35°	1511.8	1512.6	1520.0	1520.8	1565.2	1636.7	1622.7	1487.9	1295.6	1101.6	958.5
37.5°	1571.0	1574.2	1581.6	1591.5	1638.4	1739.5	1707.4	1538.9	1300.5	1074.4	917.4
40°	1644.1	1650.7	1658.1	1668.0	1737.8	1843.9	1778.9	1571.0	1279.9	1021.0	855.8
42.5°	1723.0	1732.1	1743.6	1761.7	1844.7	1936.0	1833.2	1575.9	1233.1	961.0	782.6
45°	1811.8	1828.3	1841.4	1862.8	1956.5	2015.7	1866.1	1547.1	1173.9	882.1	704.5
47.5°	1914.6	1927.7	1950.7	1973.8	2067.5	2069.9	1869.4	1491.2	1093.3	803.2	621.5
50°	2041.2	2049.4	2083.9	2097.9	2185.9	2126.7	1845.5	1415.6	1008.7	714.4	529.4
52.5°	2209.7	2221.2	2265.6	2287.0	2349.4	2203.9	1811.8	1333.4	911.7	614.9	434.9
55°	2542.6	2592.8	2624.0	2661.0	2701.3	2379.0	1797.0	1245.4	802.3	499.8	344.4
57.5°	3477.3	3460.9	3529.9	3613.8	3613.0	2779.4	1885.8	1169.8	673.3	382.3	264.7
60°	4869.9	4885.5	4850.2	4900.3	4740.8	3275.9	2007.5	1090.1	527.8	284.4	202.2
62.5°	5904.9	5814.4	5764.3	5705.1	5354.1	3330.2	1918.7	926.5	383.9	199.8	155.4
65°	6149.8	6043.8	5936.1	5823.5	5294.1	3002.2	1574.2	679.8	248.3	137.3	123.3
67.5°	5908.1	5738.0	5600.7	5484.8	4851.0	2488.4	1150.9	417.6	142.2	111.0	105.2
70°	5281.7	5093.5	4871.5	4741.6	4084.8	1834.0	737.4	225.2	109.3	98.6	96.2
72.5°	3866.1	3711.6	3469.1	3320.3	2933.1	1114.7	411.9	126.6	101.9	94.5	91.2
75°	1506.0	1425.5	1324.3	1332.6	1189.5	493.2	186.6	109.3	99.5	92.9	89.6
77.5°	258.9	252.4	233.5	233.5	265.5	180.0	124.1	110.2	98.6	91.2	85.5
80°	155.4	152.1	144.7	143.0	138.1	126.6	119.2	111.8	97.0	86.3	78.9
82.5°	101.9	97.8	95.4	94.5	102.8	111.0	111.8	111.0	92.1	74.8	64.1
85°	43.6	43.6	43.6	44.4	59.2	89.6	92.1	98.6	75.6	58.4	46.0
87.5°	7.4	9.0	9.0	9.9	10.7	19.7	24.7	32.1	25.5	24.7	22.2
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°	755.5	755.5	755.5
2.5°	734.9	733.3	733.3
5°	732.5	730.8	731.6
7.5°	742.3	739.0	739.9
10°	760.4	757.1	755.5
12.5°	783.4	779.3	779.3
15°	807.3	797.4	796.6
17.5°	827.0	814.7	813.0
20°	849.2	832.7	830.3
22.5°	869.7	847.5	844.3
25°	884.5	857.4	853.3
27.5°	891.1	859.1	855.8
30°	896.0	859.9	854.9
32.5°	891.1	852.5	848.4
35°	864.0	822.1	819.6
37.5°	817.1	770.3	767.0
40°	755.5	706.1	697.9
42.5°	676.6	630.5	621.5
45°	600.1	547.5	543.4
47.5°	517.9	467.8	470.2
50°	431.6	386.4	385.5
52.5°	349.4	309.9	307.5
55°	275.4	247.4	245.0
57.5°	217.8	203.0	200.6
60°	177.6	170.2	167.7
62.5°	143.0	140.6	139.8
65°	119.2	119.2	119.2
67.5°	103.6	104.4	104.4
70°	95.4	96.2	95.4
72.5°	92.1	94.5	94.5
75°	89.6	91.2	88.0
77.5°	88.0	88.8	83.0
80°	87.1	86.3	75.6
82.5°	75.6	73.2	64.1
85°	69.1	52.6	44.4
87.5°	35.3	24.7	18.9
90°	0.0	0.0	0.0

(END OF REPORT)