

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: P180551

Luminaire Tested: **ICS-F04-LED-E1-SL2-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180551
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33678)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICS-F04-LED-E1-SL2-8030
Description: ICON SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (28) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7663.4 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

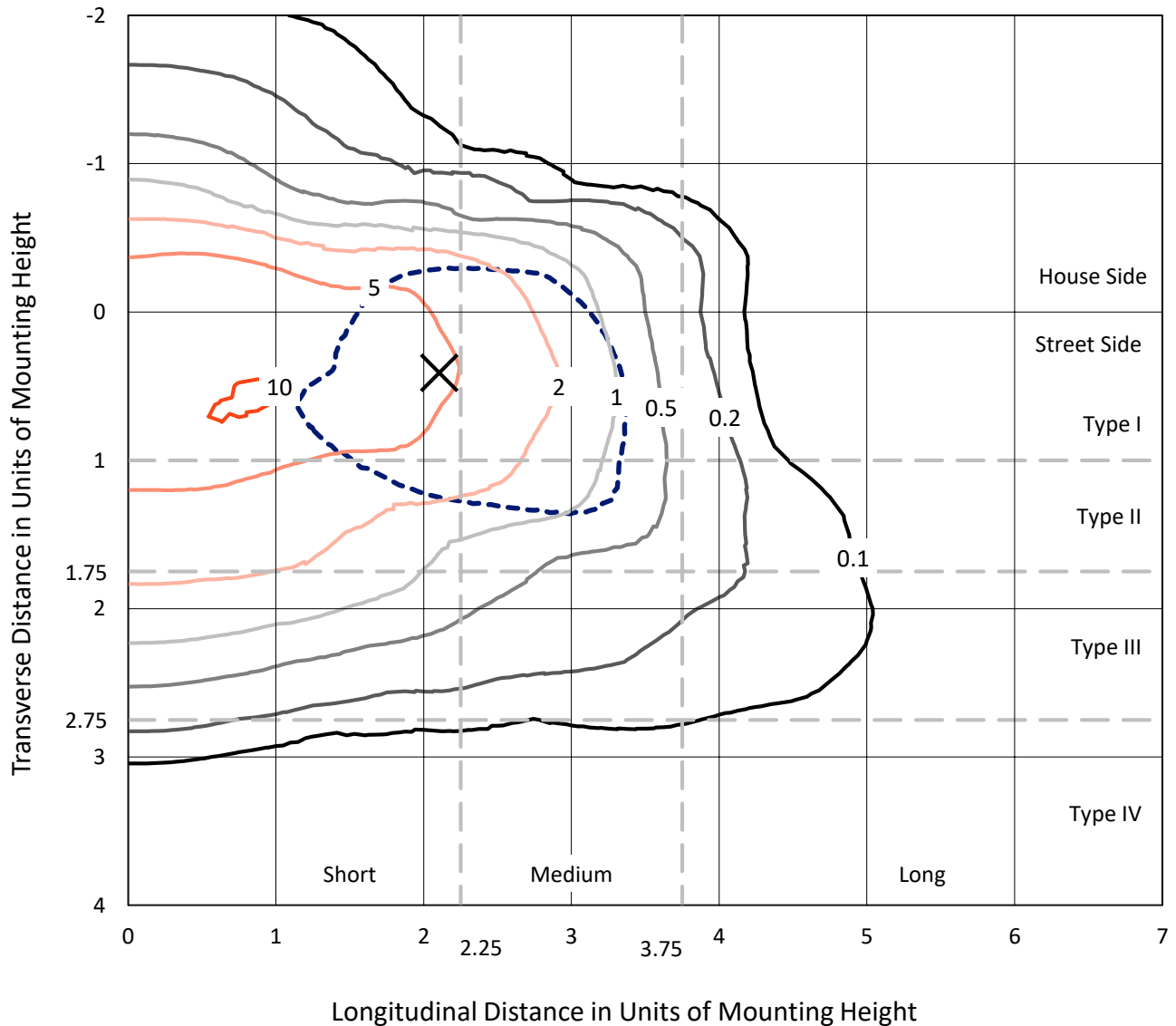
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

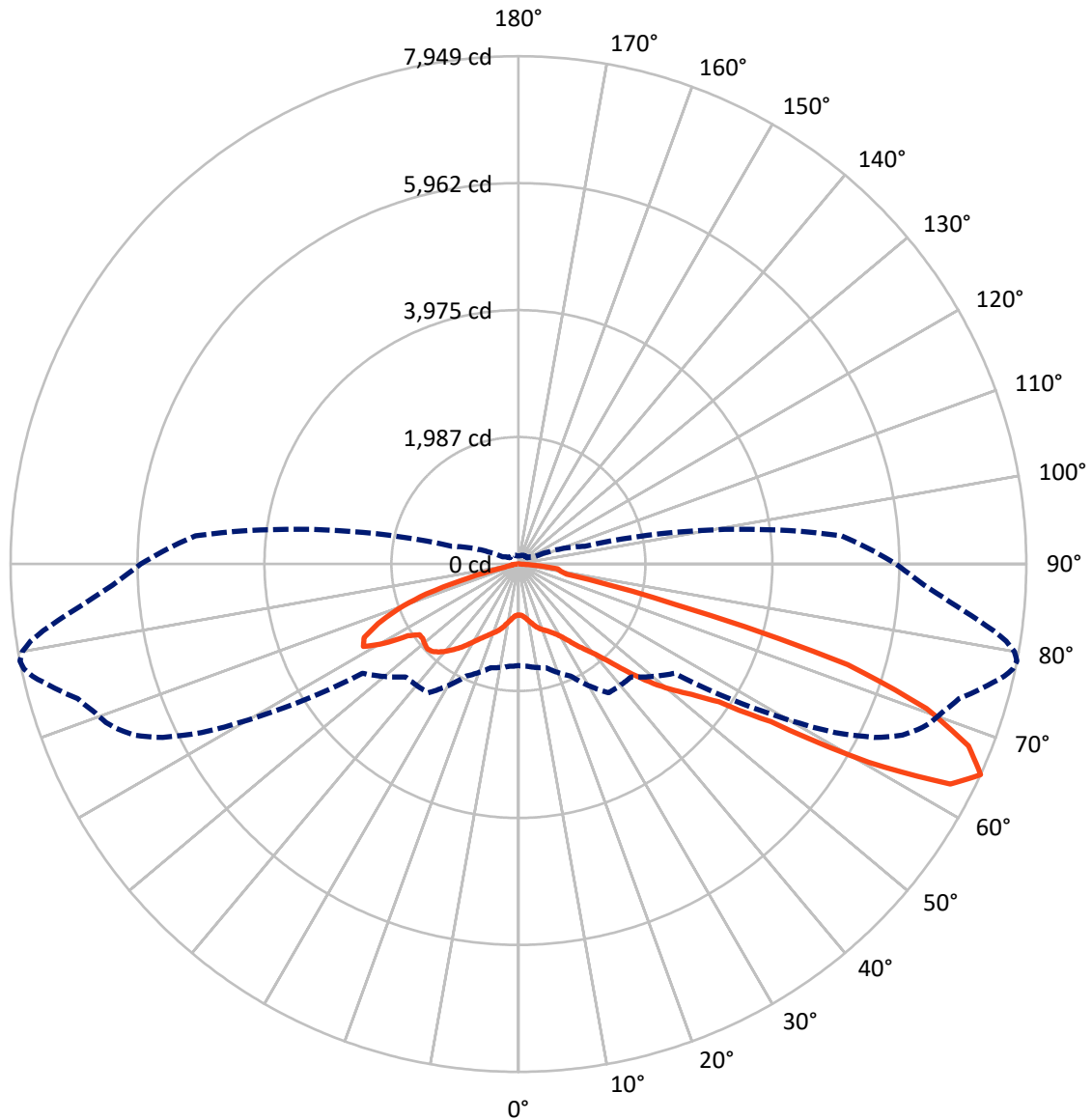
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.5 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1811.6	0.0	1811.6
	% Fixture	23.6	0.0	23.6
Street Side	Lumens	5851.8	0.0	5851.8
	% Fixture	76.4	0.0	76.4
Total	Lumens	7663.4	0.0	7663.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.3	1.0
10°-20°	259.3	3.4
20°-30°	447.8	5.8
30°-40°	741.3	9.7
40°-50°	1257.2	16.4
50°-60°	1670.4	21.8
60°-70°	2157.8	28.2
70°-80°	905.0	11.8
80°-90°	145.4	1.9
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°	7663.4	100.0
0°-180°	7663.4	100.0



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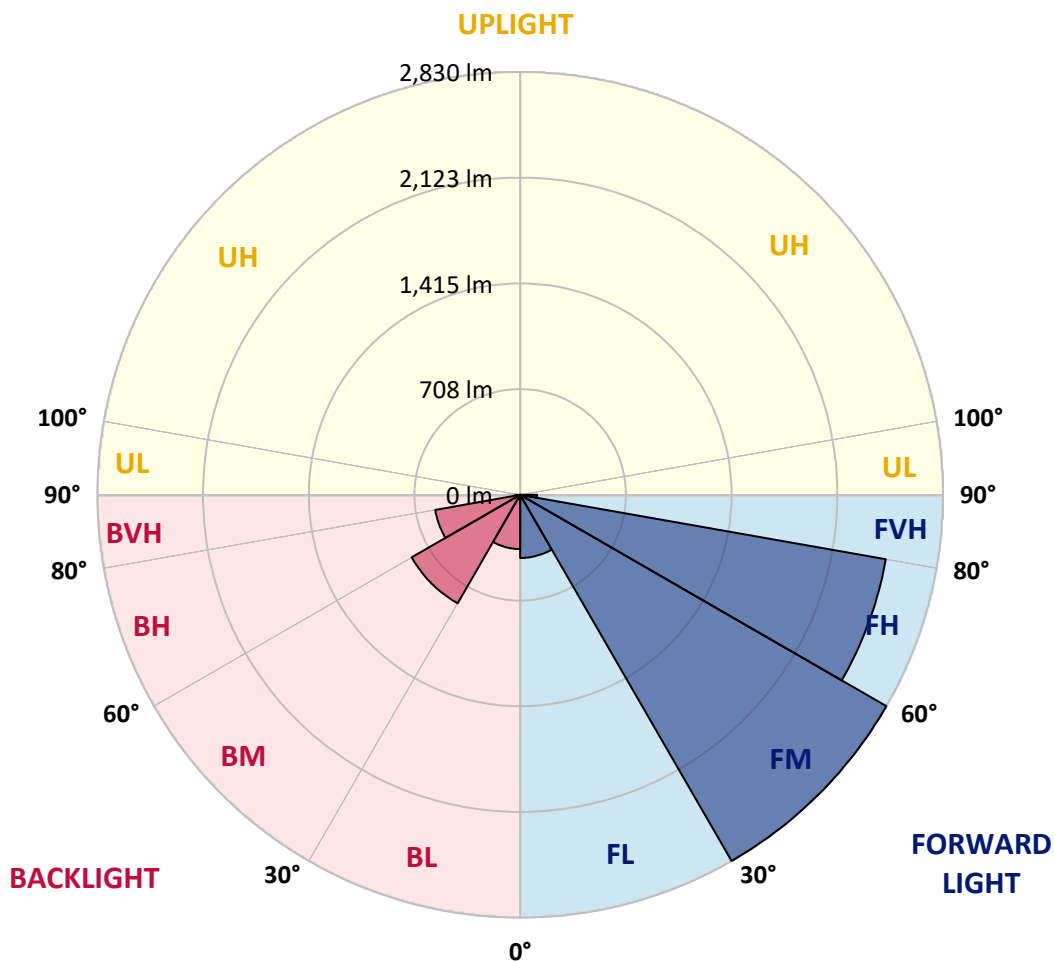
CATALOG NUMBER: ICS-F04-LED-E1-SL2-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	422.8	5.5			
FM (30°-60°)	2830.3	36.9			
FH (60°-80°)	2485.0	32.4			G2/5000
FVH (80°-90°)	113.7	1.5			G2/225
BL (0°-30°)	363.5	4.7	B1/500		
BM (30°-60°)	838.6	10.9	B1/1000		
BH (60°-80°)	577.8	7.5	B2/1000		G2/1000
BVH (80°-90°)	31.7	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°	797.7	797.7	797.7	797.7	797.7	797.7	797.7	797.7	797.7	797.7	797.7
2.5°	795.2	797.7	796.0	797.7	799.3	800.2	801.8	801.0	801.0	801.8	800.2
5°	795.2	795.2	797.7	801.8	803.5	808.5	814.4	813.6	814.4	813.6	815.2
7.5°	811.9	811.0	813.6	818.6	820.2	827.8	837.8	839.5	841.1	841.1	843.7
10°	841.1	840.3	842.8	845.3	847.8	853.7	867.9	873.8	874.6	875.4	878.8
12.5°	877.9	877.1	873.8	873.8	872.9	883.8	903.0	913.9	915.6	918.9	921.4
15°	903.9	901.3	896.3	893.0	897.2	914.7	943.2	955.7	957.4	959.9	966.6
17.5°	928.9	926.4	915.6	907.2	913.1	941.5	979.9	993.3	996.7	999.2	1006.7
20°	964.1	962.4	946.5	926.4	924.8	961.5	1008.4	1025.9	1028.4	1031.8	1039.3
22.5°	1017.6	1010.0	991.6	954.0	935.6	973.3	1028.4	1052.7	1056.0	1059.4	1069.4
25°	1084.5	1081.1	1049.3	991.6	953.2	985.0	1050.2	1080.3	1085.3	1089.5	1102.9
27.5°	1153.9	1148.8	1114.6	1039.3	984.1	1008.4	1084.5	1118.7	1125.4	1132.1	1144.7
30°	1215.7	1214.1	1185.6	1103.7	1034.3	1052.7	1139.6	1181.4	1189.0	1197.3	1209.0
32.5°	1361.2	1362.1	1332.8	1249.2	1155.5	1133.0	1219.1	1281.8	1285.1	1295.2	1316.1
35°	1639.6	1643.0	1632.1	1566.1	1460.7	1367.9	1376.3	1438.1	1441.5	1449.8	1469.9
37.5°	1826.1	1832.8	1866.2	1887.1	1833.6	1791.0	1684.8	1660.6	1663.1	1658.0	1653.9
40°	1928.9	1939.0	2026.8	2135.5	2194.0	2194.8	2148.8	2041.8	2000.9	1989.1	1939.0
42.5°	1987.5	2004.2	2128.8	2314.4	2482.5	2597.9	2626.3	2507.5	2477.4	2423.9	2327.8
45°	2025.9	2046.0	2193.2	2447.3	2694.8	2891.3	3039.3	2986.6	2966.6	2934.0	2845.3
47.5°	2019.2	2035.1	2188.1	2492.5	2806.0	3085.3	3347.9	3402.2	3378.0	3369.6	3309.4
50°	1897.2	1911.4	2066.9	2380.5	2745.0	3158.9	3543.5	3697.4	3697.4	3713.2	3694.9
52.5°	1766.7	1778.4	1919.8	2201.5	2547.7	3087.0	3652.2	3907.2	3940.7	3968.3	4011.7
55°	1717.4	1731.6	1838.6	2079.5	2379.6	2881.3	3689.0	4064.4	4126.3	4173.1	4271.8
57.5°	1740.8	1755.0	1831.1	2013.4	2281.0	2671.4	3690.7	4276.0	4395.5	4491.7	4691.5
60°	1842.0	1855.4	1918.9	2074.4	2255.0	2550.2	3619.6	4612.9	4803.6	4984.2	5316.9
62.5°	1795.2	1811.9	1904.7	2175.6	2448.2	2458.2	3362.9	4873.8	5180.6	5447.4	5976.6
65°	1590.3	1607.9	1680.6	1934.0	2459.9	2498.4	2982.5	4878.8	5260.1	5620.5	6191.5
67.5°	1207.4	1214.1	1271.8	1474.9	1967.4	2542.7	2591.2	4301.0	4663.9	5066.1	5655.6
70°	617.1	628.8	645.5	814.4	1266.7	2101.2	2226.6	3169.8	3632.1	4047.7	4755.9
72.5°	214.0	218.2	235.0	311.0	617.1	1378.8	1949.0	2172.3	2451.5	2840.3	3660.6
75°	128.8	128.8	134.6	157.2	281.8	718.2	1734.1	1774.3	1811.9	1942.3	2479.1
77.5°	102.0	103.7	103.7	107.9	156.4	368.7	1316.9	1649.7	1654.7	1667.2	1757.5
80°	72.7	76.1	82.8	86.1	101.2	202.3	739.1	1448.2	1546.8	1594.5	1660.6
82.5°	54.3	57.7	70.2	74.4	78.6	112.9	331.9	999.2	1178.9	1274.3	1506.7
85°	24.2	28.4	47.7	52.7	55.2	60.2	155.5	284.3	326.9	367.1	484.1
87.5°	4.2	4.2	7.5	10.9	15.9	15.1	34.3	48.5	49.3	57.7	64.4
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	797.7	797.7	797.7	797.7	797.7	797.7	797.7	797.7	797.7	797.7	797.7
2.5°	800.2	800.2	800.2	799.3	800.2	800.2	800.2	800.2	801.0	801.0	801.0
5°	817.7	816.1	816.9	816.9	816.9	816.1	817.7	816.9	817.7	820.2	819.4
7.5°	843.7	845.3	846.2	847.0	847.0	847.0	847.8	849.5	849.5	852.0	851.2
10°	882.1	881.3	882.1	884.6	887.1	888.0	890.5	889.6	891.3	894.7	898.0
12.5°	923.1	924.8	927.3	929.8	934.0	934.8	937.3	938.1	943.2	943.2	946.5
15°	969.1	969.9	974.9	975.8	980.8	982.5	986.6	988.3	994.2	995.0	998.3
17.5°	1010.9	1012.6	1015.1	1017.6	1023.4	1025.9	1029.3	1032.6	1037.6	1039.3	1045.2
20°	1044.3	1047.7	1048.5	1053.5	1058.5	1061.9	1065.2	1068.6	1073.6	1076.1	1081.9
22.5°	1074.4	1077.8	1080.3	1084.5	1087.8	1092.8	1094.5	1100.3	1105.4	1109.5	1114.6
25°	1107.0	1112.1	1114.6	1122.1	1124.6	1129.6	1133.8	1139.6	1146.3	1151.3	1158.0
27.5°	1153.0	1160.5	1163.9	1172.3	1178.1	1180.6	1187.3	1195.7	1201.5	1207.4	1214.1
30°	1216.6	1230.8	1233.3	1239.1	1250.0	1251.7	1260.0	1266.7	1275.9	1281.8	1287.6
32.5°	1315.2	1332.8	1334.5	1341.1	1350.3	1353.7	1360.4	1367.9	1382.1	1384.6	1393.8
35°	1466.6	1474.1	1480.8	1483.3	1490.8	1495.0	1500.0	1508.4	1522.6	1520.9	1531.0
37.5°	1648.0	1650.5	1651.4	1643.0	1644.7	1637.1	1646.3	1648.0	1653.0	1657.2	1667.2
40°	1907.2	1881.3	1877.9	1857.9	1837.8	1826.9	1822.8	1806.0	1810.2	1811.9	1820.3
42.5°	2286.0	2235.8	2194.0	2165.6	2116.2	2092.0	2059.4	2033.5	2013.4	2020.9	2024.3
45°	2765.9	2694.0	2627.1	2540.2	2475.8	2429.8	2372.1	2320.3	2296.8	2286.0	2299.4
47.5°	3245.0	3181.5	3102.9	3013.4	2911.4	2835.3	2739.2	2654.7	2596.2	2574.4	2586.1
50°	3658.9	3600.4	3541.0	3488.3	3369.6	3286.8	3155.5	3046.0	2954.0	2907.2	2894.7
52.5°	4002.5	3971.6	3939.8	3895.5	3800.2	3717.4	3612.9	3505.0	3383.0	3287.7	3255.0
55°	4309.4	4327.8	4311.9	4312.7	4275.1	4222.4	4133.8	4053.5	3968.3	3860.4	3815.3
57.5°	4756.7	4865.4	4887.2	4941.5	4968.3	4996.7	5021.8	4974.1	4952.4	4872.1	4873.0
60°	5461.6	5620.5	5758.4	5883.8	5986.7	6087.0	6192.4	6239.2	6291.0	6315.3	6398.1
62.5°	6211.6	6362.9	6568.6	6736.7	6831.2	6961.6	7076.2	7150.6	7241.7	7338.7	7465.0
65°	6397.2	6579.5	6709.1	6821.1	6914.8	6984.2	7046.9	7135.5	7211.6	7365.5	7514.3
67.5°	5921.5	6066.9	6185.7	6296.0	6368.8	6427.3	6483.3	6541.9	6672.3	6811.9	6961.6
70°	5082.8	5258.4	5454.9	5597.9	5633.8	5684.0	5737.5	5813.6	5878.8	6025.1	6138.9
72.5°	4083.6	4336.2	4502.6	4700.7	4743.4	4819.4	4849.5	4908.9	4920.6	5000.0	5030.1
75°	2846.2	3135.5	3302.7	3448.2	3476.6	3434.8	3451.5	3241.7	3188.2	3144.7	3109.6
77.5°	1878.8	1956.5	1983.3	1959.9	1847.8	1760.0	1666.4	1574.4	1584.5	1510.0	1379.6
80°	1670.6	1688.1	1663.9	1640.5	1576.1	1484.1	1399.7	1313.6	1270.9	1225.8	1158.9
82.5°	1625.4	1693.2	1700.7	1672.3	1621.3	1520.9	1418.9	1291.0	1182.3	1081.9	979.9
85°	543.5	661.4	714.1	763.4	778.4	796.0	735.8	653.9	555.2	489.1	382.9
87.5°	69.4	86.1	99.5	85.3	99.5	117.1	84.4	94.5	95.3	59.4	44.3
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°	797.7	797.7	797.7	797.7	797.7	797.7	797.7	797.7	797.7	797.7	797.7
2.5°	801.8	801.0	801.0	801.0	800.2	801.0	801.0	801.0	801.0	801.0	800.2
5°	820.2	820.2	822.8	823.6	821.9	821.1	821.9	822.8	822.8	821.9	822.8
7.5°	854.5	855.4	857.0	859.5	857.9	858.7	859.5	858.7	861.2	862.0	861.2
10°	898.0	899.7	903.9	904.7	903.9	907.2	908.0	906.4	908.0	908.0	911.4
12.5°	948.2	949.8	954.9	956.5	958.2	959.0	961.5	962.4	964.9	966.6	969.1
15°	1002.5	1004.2	1007.5	1013.4	1015.1	1016.7	1018.4	1023.4	1024.3	1027.6	1030.1
17.5°	1048.5	1051.0	1056.0	1060.2	1062.7	1066.9	1068.6	1074.4	1076.1	1081.1	1085.3
20°	1085.3	1089.5	1093.7	1098.7	1102.9	1107.9	1109.5	1115.4	1118.7	1121.2	1126.3
22.5°	1118.7	1123.8	1129.6	1135.5	1138.8	1145.5	1148.0	1150.5	1158.0	1161.4	1166.4
25°	1162.2	1167.2	1173.9	1181.4	1184.8	1193.2	1195.7	1199.8	1208.2	1211.5	1219.1
27.5°	1221.6	1228.3	1233.3	1240.8	1245.0	1250.8	1256.7	1261.7	1269.2	1274.3	1282.6
30°	1296.0	1301.0	1309.4	1315.2	1321.9	1330.3	1337.0	1342.0	1346.2	1353.7	1362.9
32.5°	1405.5	1406.4	1408.9	1423.1	1429.8	1436.5	1445.7	1449.8	1456.5	1464.1	1474.1
35°	1541.8	1549.3	1555.2	1561.9	1569.4	1576.9	1580.3	1592.8	1598.7	1608.7	1618.7
37.5°	1677.3	1678.1	1691.5	1695.7	1702.4	1709.9	1721.6	1734.1	1749.2	1759.2	1775.1
40°	1822.8	1829.4	1846.2	1854.5	1862.9	1881.3	1890.5	1910.6	1935.6	1949.9	1976.6
42.5°	2033.5	2043.5	2073.6	2087.0	2107.0	2137.1	2156.4	2184.0	2194.0	2228.3	2240.8
45°	2309.4	2340.3	2383.8	2412.2	2448.2	2480.8	2497.5	2510.1	2525.1	2551.9	2548.5
47.5°	2607.9	2648.0	2696.5	2755.0	2778.5	2816.9	2838.7	2862.9	2849.5	2842.8	2836.1
50°	2913.9	2960.7	3025.1	3077.8	3113.7	3137.2	3155.5	3152.2	3123.8	3108.7	3066.9
52.5°	3254.2	3281.8	3342.8	3388.0	3409.7	3414.7	3410.6	3385.5	3358.7	3311.1	3261.7
55°	3776.0	3763.4	3787.7	3808.6	3801.9	3825.3	3765.1	3741.7	3675.6	3613.7	3547.7
57.5°	4836.2	4852.9	4717.4	4656.4	4645.5	4667.3	4561.1	4547.7	4388.0	4367.9	4256.7
60°	6386.3	6468.3	6362.1	6302.7	6142.2	6089.5	5970.8	5921.5	5768.4	5644.7	5488.3
62.5°	7551.9	7626.3	7670.6	7586.2	7492.5	7354.6	7174.8	6975.8	6813.6	6623.8	6458.3
65°	7657.3	7807.8	7909.8	7949.1	7883.0	7731.7	7510.1	7259.3	7010.9	6772.6	6563.6
67.5°	7164.8	7299.4	7457.4	7598.7	7607.1	7508.4	7319.5	7064.4	6777.7	6483.3	6238.4
70°	6318.6	6487.5	6625.5	6774.3	6878.0	6821.1	6726.7	6492.5	6194.9	5965.8	5684.0
72.5°	5138.8	5209.9	5243.4	5389.7	5391.4	5287.7	5220.8	5091.2	4851.2	4689.0	4474.1
75°	3000.9	2844.5	2678.1	2533.5	2415.6	2366.2	2147.2	2110.4	1963.2	1872.1	1738.3
77.5°	1237.5	1097.8	918.1	768.4	620.4	553.5	456.5	413.9	358.7	334.5	318.6
80°	1061.0	928.9	793.5	663.9	548.5	433.1	337.0	261.7	205.7	174.8	162.2
82.5°	866.2	786.8	692.3	622.1	531.8	445.7	376.3	291.8	218.2	160.5	122.9
85°	312.7	256.7	206.5	189.8	151.3	124.6	104.5	89.5	73.6	58.5	51.8
87.5°	35.1	33.4	19.2	18.4	20.9	15.1	17.6	15.9	13.4	11.7	12.5
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°	797.7	797.7	797.7	797.7	797.7	797.7	797.7	797.7	797.7	797.7	797.7
2.5°	800.2	800.2	801.0	801.0	801.8	802.7	804.4	803.5	803.5	804.4	804.4
5°	822.8	825.3	824.4	824.4	824.4	825.3	826.1	822.8	819.4	816.1	814.4
7.5°	862.0	863.7	865.4	863.7	865.4	864.6	862.9	853.7	842.8	829.4	820.2
10°	913.1	913.1	914.7	913.9	917.2	914.7	909.7	888.8	865.4	837.0	816.1
12.5°	968.2	974.1	971.6	972.4	979.1	972.4	960.7	929.8	888.0	842.0	805.2
15°	1033.5	1036.0	1037.6	1035.1	1039.3	1033.5	1012.6	963.2	902.2	837.8	783.5
17.5°	1087.0	1087.8	1088.6	1090.3	1096.2	1089.5	1053.5	986.6	905.5	818.6	746.7
20°	1128.8	1133.0	1136.3	1136.3	1144.7	1134.6	1087.0	998.3	894.7	786.8	699.8
22.5°	1172.3	1175.6	1179.8	1180.6	1191.5	1181.4	1114.6	995.8	866.2	741.6	645.5
25°	1225.8	1229.1	1232.5	1236.6	1251.7	1237.5	1142.2	985.8	826.9	688.1	587.0
27.5°	1287.6	1295.2	1297.7	1304.4	1321.9	1300.2	1165.6	970.7	783.5	626.3	525.1
30°	1370.4	1379.6	1383.0	1392.2	1416.4	1368.7	1178.9	944.8	728.3	563.6	459.0
32.5°	1481.6	1494.2	1504.2	1514.2	1541.8	1437.3	1180.6	907.2	663.9	493.3	395.5
35°	1627.1	1646.3	1653.9	1660.6	1686.5	1511.7	1173.1	851.2	585.3	421.4	345.3
37.5°	1790.2	1809.4	1814.4	1817.7	1822.8	1575.3	1154.7	765.9	496.7	358.7	305.2
40°	1990.8	2007.5	2014.2	2009.2	1982.5	1624.6	1113.7	666.4	410.5	316.1	280.1
42.5°	2235.8	2260.9	2263.4	2240.8	2152.2	1652.2	1031.8	549.3	342.8	285.1	260.9
45°	2539.3	2537.6	2523.4	2507.5	2337.0	1641.3	917.2	447.3	300.2	260.9	243.3
47.5°	2811.9	2783.5	2761.7	2714.9	2500.0	1577.8	769.2	370.4	274.3	242.5	228.3
50°	3035.1	2983.3	2937.3	2886.3	2621.3	1464.9	622.1	314.4	250.0	226.6	214.0
52.5°	3211.6	3148.9	3095.3	3045.2	2738.3	1339.5	510.0	273.4	226.6	210.7	198.2
55°	3487.5	3424.8	3339.5	3284.3	2917.3	1224.1	437.3	240.8	204.0	194.0	181.4
57.5°	4185.7	4130.5	4028.5	3885.5	3377.1	1180.6	396.3	215.7	185.6	179.8	169.7
60°	5404.7	5315.3	5182.3	5036.8	4311.9	1209.9	363.7	198.2	173.1	168.1	160.5
62.5°	6324.5	6167.3	6016.8	5882.2	5059.4	1209.0	321.1	184.8	163.9	161.4	153.8
65°	6362.1	6202.4	6051.1	5909.8	5076.1	1076.1	270.9	173.1	162.2	161.4	148.8
67.5°	6024.3	5851.2	5704.9	5526.8	4699.0	841.1	217.4	165.6	168.9	167.2	147.2
70°	5472.5	5246.7	5126.3	4950.7	4135.5	588.6	178.9	168.1	183.1	178.1	149.7
72.5°	4295.2	4124.6	3941.5	3819.4	3237.5	372.1	150.5	169.7	189.0	180.6	156.4
75°	1598.7	1644.7	1569.4	1542.7	1644.7	218.2	133.8	158.0	168.9	156.4	142.1
77.5°	322.7	308.5	292.6	289.3	373.7	134.6	122.9	137.1	129.6	114.5	115.4
80°	154.7	150.5	145.5	144.7	138.8	112.0	113.7	117.1	97.8	88.6	94.5
82.5°	102.8	97.0	95.3	92.0	93.6	100.3	107.9	100.3	75.3	70.2	85.3
85°	47.7	46.0	45.2	45.2	50.2	90.3	89.5	73.6	51.8	50.2	85.3
87.5°	11.7	11.7	12.5	11.7	13.4	26.8	23.4	22.6	19.2	21.7	40.1
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):

	165°	175°	180°
0°	797.7	797.7	797.7
2.5°	803.5	804.4	803.5
5°	811.0	811.0	811.0
7.5°	811.0	808.5	807.7
10°	799.3	791.8	791.8
12.5°	779.3	766.7	765.1
15°	741.6	724.9	722.4
17.5°	694.0	671.4	667.2
20°	640.5	612.0	607.0
22.5°	581.9	549.3	546.8
25°	524.3	490.8	484.1
27.5°	459.9	427.3	423.9
30°	395.5	367.1	365.4
32.5°	341.1	323.6	320.2
35°	302.7	292.6	288.5
37.5°	277.6	270.1	269.2
40°	258.4	251.7	250.8
42.5°	242.5	236.6	235.8
45°	226.6	221.6	219.9
47.5°	210.7	205.7	204.9
50°	196.5	189.8	189.0
52.5°	183.1	176.4	174.8
55°	170.6	163.9	163.9
57.5°	159.7	153.0	152.2
60°	149.7	143.0	142.1
62.5°	142.1	133.8	132.9
65°	136.3	127.9	126.3
67.5°	132.9	122.9	120.4
70°	138.8	120.4	116.2
72.5°	139.6	117.9	112.0
75°	134.6	111.2	107.0
77.5°	117.9	99.5	95.3
80°	102.0	76.9	71.1
82.5°	97.0	62.7	54.3
85°	75.3	41.0	38.5
87.5°	42.6	22.6	18.4
90°	0.0	0.0	0.0

(END OF REPORT)