

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: P181452

Luminaire Tested: **ICM-F04-LED-E1-T3-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181452
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33672)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-F04-LED-E1-T3-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 3
Light Source: (28) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7995.1 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Semi-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

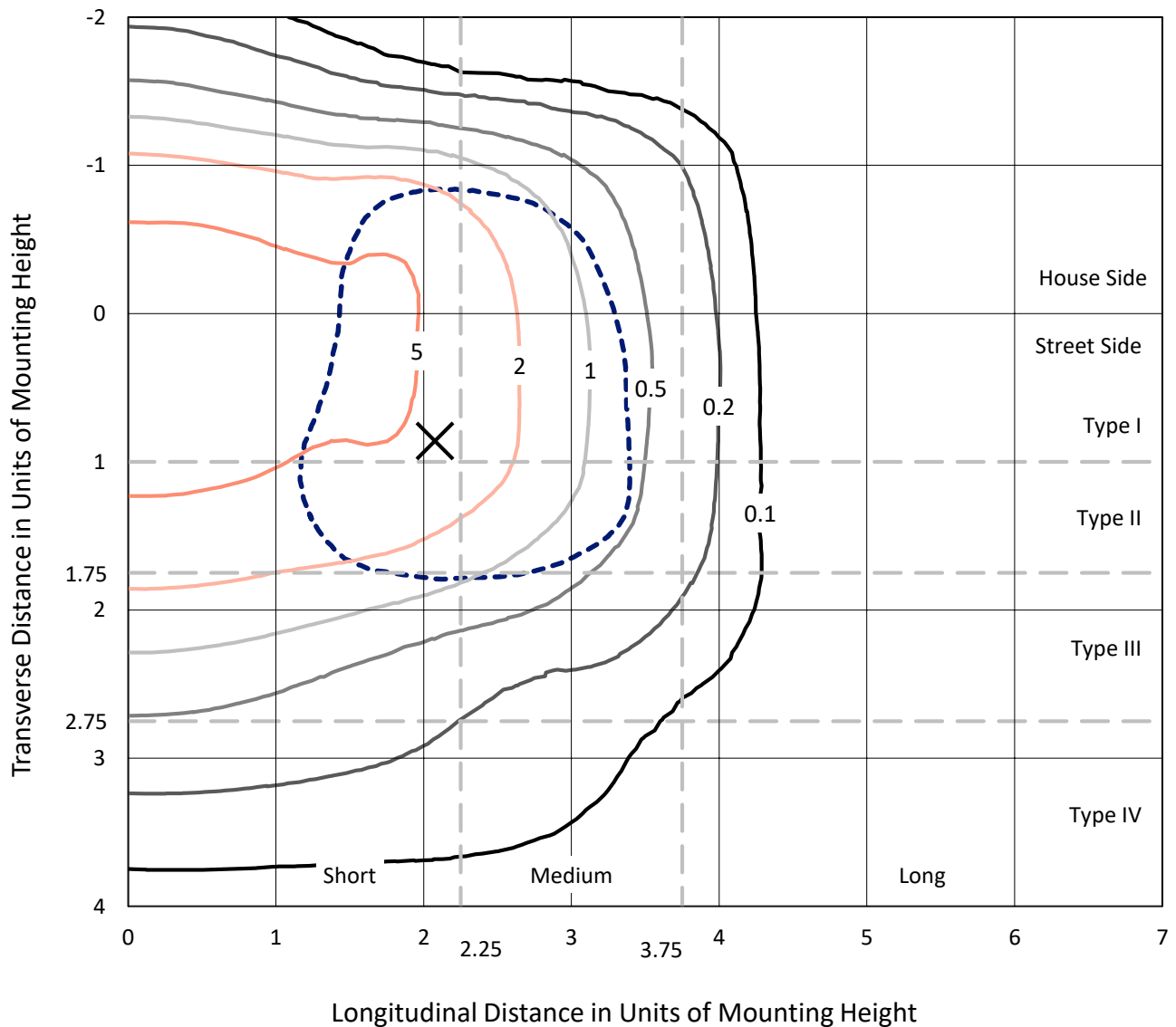


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

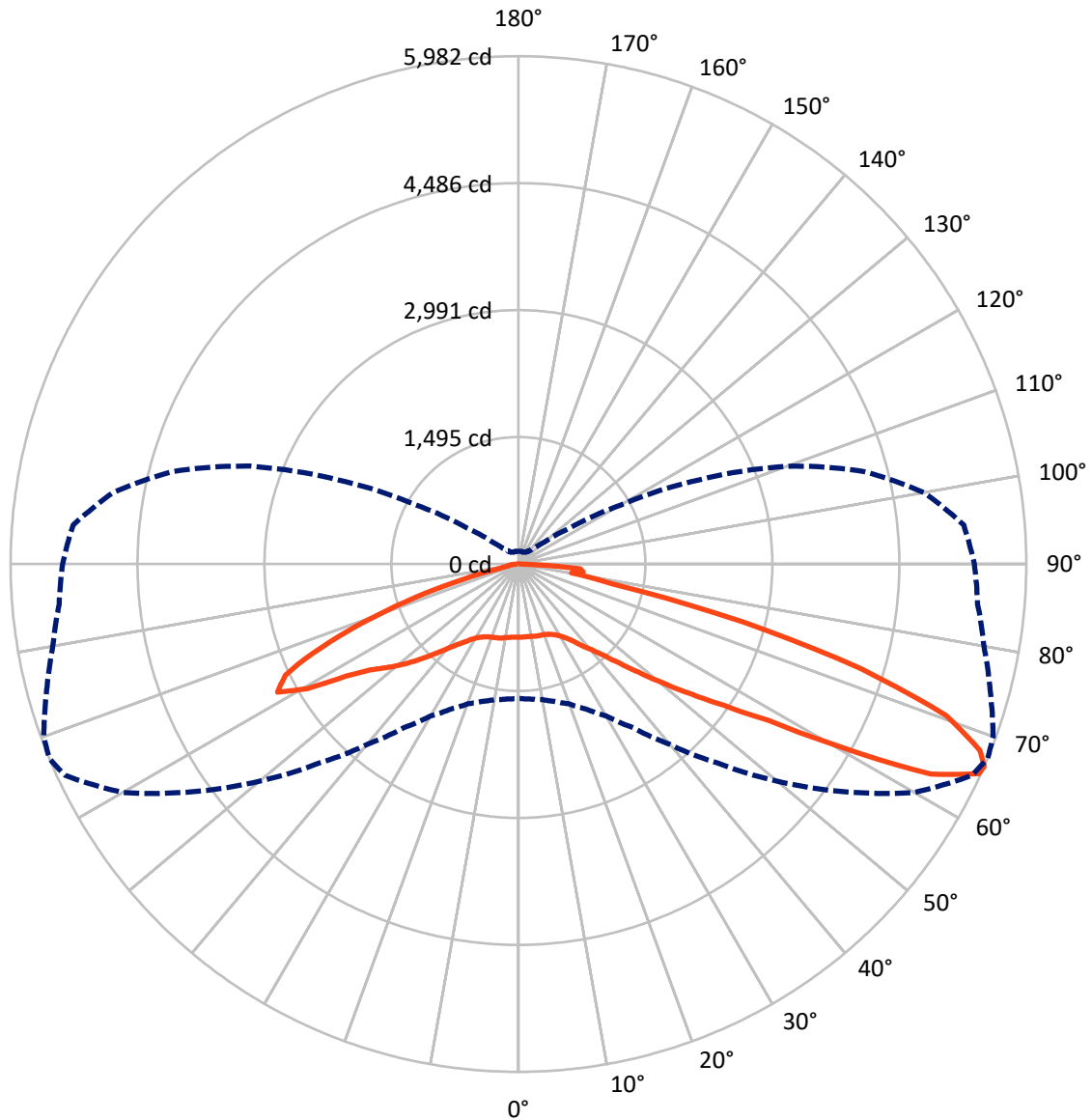


Based on 10 foot mounting height. Maximum calculated value = 8.6 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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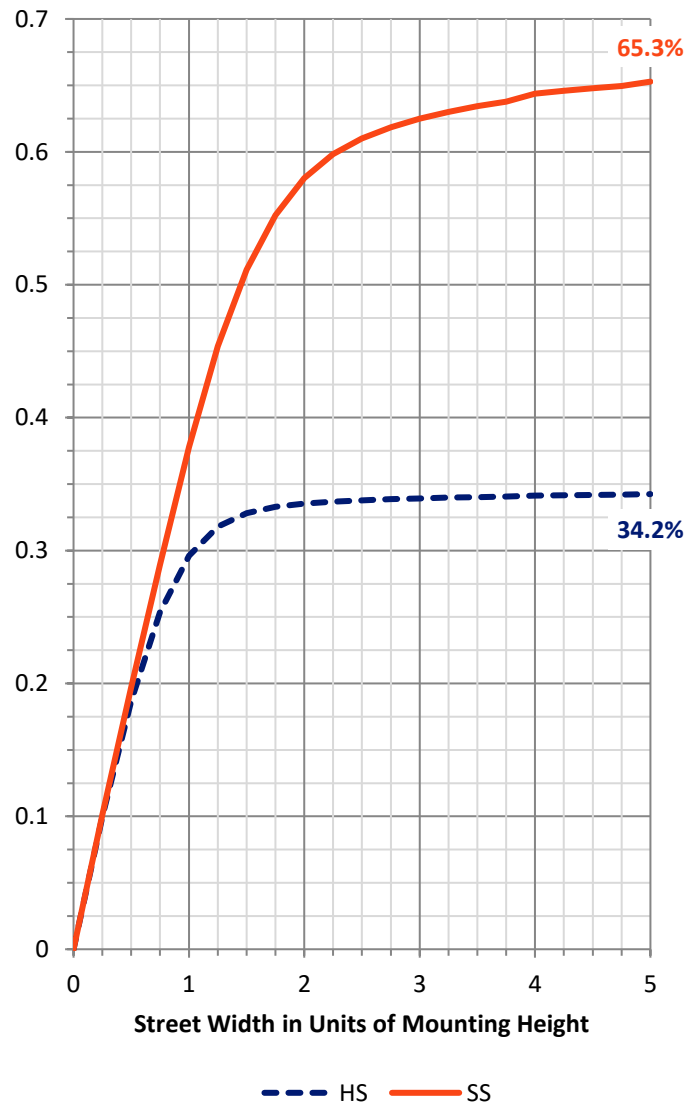
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2761.0	0.0	2761.0
	% Fixture	34.5	0.0	34.5
Street Side	Lumens	5234.2	0.0	5234.2
	% Fixture	65.5	0.0	65.5
Total	Lumens	7995.1	0.0	7995.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.5	1.0
10°-20°	243.5	3.0
20°-30°	418.6	5.2
30°-40°	679.6	8.5
40°-50°	1134.6	14.2
50°-60°	1786.7	22.3
60°-70°	2436.3	30.5
70°-80°	1054.7	13.2
80°-90°	158.6	2.0
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°	7995.1	100.0
0°-180°	7995.1	100.0



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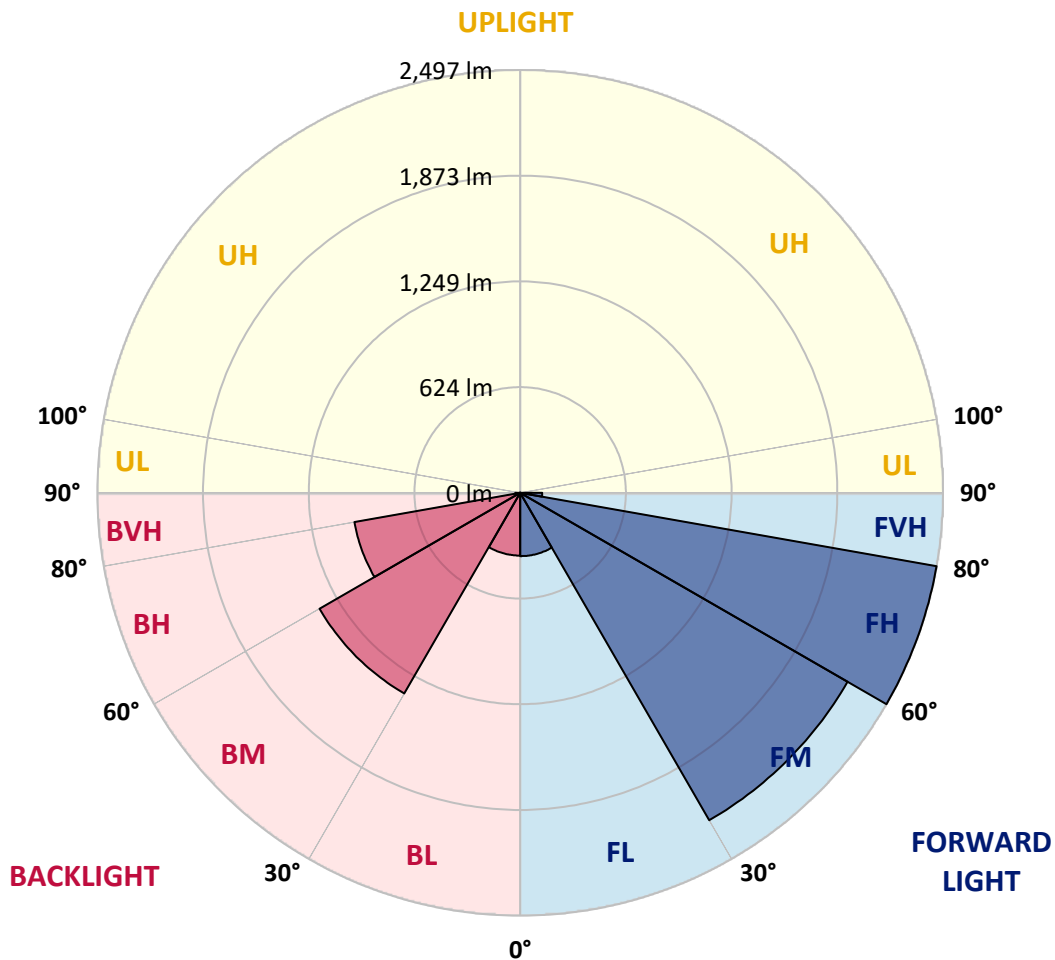
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	374.0	4.7			
FM	(30°-60°)	2232.8	27.9			
FH	(60°-80°)	2497.2	31.2			G2/5000
FVH	(80°-90°)	130.2	1.6			G2/225
BL	(0°-30°)	370.6	4.6	B1/500		
BM	(30°-60°)	1368.2	17.1	B2/2500		
BH	(60°-80°)	993.8	12.4	B2/1000		G2/1000
BVH	(80°-90°)	28.4	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	861.6	861.6	861.6	861.6	861.6	861.6	861.6	861.6	861.6	861.6	861.6
2.5°	865.0	868.5	865.0	865.9	866.8	865.9	865.0	865.0	862.4	864.2	865.9
5°	861.6	864.2	863.4	864.2	865.0	864.2	863.4	864.2	862.4	863.4	865.9
7.5°	857.2	856.4	857.2	859.0	860.7	860.7	860.7	861.6	860.7	860.7	863.4
10°	844.3	845.1	846.9	849.5	850.3	852.9	852.9	855.5	856.4	858.1	861.6
12.5°	827.9	828.7	830.5	832.2	836.6	840.8	840.8	846.9	849.5	853.8	859.8
15°	815.8	816.7	818.3	820.1	823.5	827.9	830.5	837.4	841.7	849.5	858.1
17.5°	822.7	821.9	823.5	824.4	824.4	827.9	827.9	833.0	838.2	845.1	856.4
20°	842.6	842.6	844.3	844.3	843.4	845.1	841.7	841.7	842.6	846.1	853.8
22.5°	862.4	861.6	865.0	866.8	867.6	870.2	866.8	865.9	861.6	859.0	861.6
25°	881.5	880.6	884.9	887.5	891.8	894.4	894.4	894.4	891.0	886.6	884.0
27.5°	910.8	910.8	915.2	917.8	921.2	926.4	929.0	929.0	929.9	923.8	919.4
30°	960.1	960.9	961.9	965.3	968.8	970.4	974.0	976.5	979.1	975.6	968.8
32.5°	1018.9	1013.7	1013.7	1018.9	1023.2	1028.4	1030.1	1033.6	1038.7	1036.1	1035.3
35°	1088.8	1087.2	1085.4	1087.2	1092.3	1098.3	1105.3	1111.4	1107.9	1113.0	1110.4
37.5°	1192.6	1194.3	1195.2	1195.2	1194.3	1196.0	1199.4	1205.5	1203.8	1205.5	1208.9
40°	1363.6	1357.6	1351.5	1352.5	1343.8	1345.5	1331.7	1337.8	1338.6	1332.6	1335.2
42.5°	1534.8	1538.2	1540.8	1547.7	1541.7	1538.2	1525.3	1525.3	1518.3	1512.3	1510.6
45°	1719.7	1726.6	1727.5	1741.3	1736.1	1747.4	1756.8	1754.2	1743.1	1742.2	1730.1
47.5°	1867.5	1878.7	1890.8	1907.3	1920.2	1945.2	1974.6	1989.3	1998.0	2004.8	1991.1
50°	1978.1	1983.3	2014.4	2040.3	2068.8	2110.3	2150.9	2203.6	2246.0	2265.9	2284.9
52.5°	2037.7	2050.7	2084.4	2125.0	2175.1	2237.3	2303.0	2386.8	2459.5	2507.8	2551.1
55°	2050.7	2063.6	2101.7	2153.5	2221.8	2305.6	2399.8	2513.9	2622.8	2716.1	2806.8
57.5°	2014.4	2029.0	2069.7	2129.3	2209.7	2311.6	2430.1	2579.6	2730.0	2881.1	3015.1
60°	1947.8	1966.0	2003.2	2061.9	2150.9	2265.9	2407.5	2595.1	2806.0	3037.6	3294.3
62.5°	1838.1	1857.1	1891.6	1956.5	2048.1	2175.1	2339.4	2572.7	2870.8	3235.5	3690.9
65°	1661.8	1670.4	1712.8	1778.4	1859.7	1999.7	2180.3	2462.1	2850.1	3357.3	3984.7
66°	1582.3	1597.0	1622.9	1675.6	1753.4	1884.8	2066.2	2352.3	2771.4	3315.0	3977.0
67.5°	1457.9	1469.1	1486.3	1521.8	1569.3	1666.1	1838.1	2108.6	2531.2	3100.7	3811.8
70°	1178.7	1183.9	1207.3	1219.4	1235.7	1267.7	1330.0	1485.5	1814.8	2349.7	3076.5
72.5°	803.7	818.3	843.4	878.0	923.0	966.1	995.5	1015.4	1086.2	1401.7	2049.8
75°	589.4	604.9	636.9	682.7	761.3	851.2	944.6	987.7	958.3	917.8	1141.6
77.5°	342.2	363.0	389.8	433.8	506.4	625.7	785.5	927.3	1023.2	1029.2	977.4
80°	144.3	146.9	163.3	185.8	230.7	314.5	439.0	643.0	855.5	999.0	1032.7
82.5°	32.8	40.7	51.8	61.4	75.2	103.7	153.9	255.8	462.3	725.0	945.4
85°	12.1	12.1	16.5	24.2	27.6	31.1	40.7	64.8	110.6	203.9	425.2
87.5°	0.0	0.8	1.8	1.8	3.4	4.3	6.9	9.5	8.7	7.8	26.0
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):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	861.6	861.6	861.6	861.6	861.6	861.6	861.6	861.6	861.6	861.6	861.6
2.5°	864.2	863.4	861.6	861.6	861.6	861.6	859.8	860.7	859.0	859.8	859.8
5°	863.4	863.4	862.4	860.7	861.6	861.6	862.4	860.7	860.7	861.6	860.7
7.5°	863.4	862.4	862.4	862.4	863.4	862.4	863.4	863.4	863.4	864.2	864.2
10°	863.4	863.4	865.0	865.9	865.9	866.8	869.4	869.4	870.2	871.1	872.8
12.5°	864.2	867.6	870.2	872.8	873.7	875.4	879.7	879.7	881.5	884.0	884.9
15°	865.0	870.2	875.4	877.1	878.9	882.3	886.6	888.4	891.0	893.6	895.3
17.5°	864.2	871.1	877.1	879.7	882.3	886.6	891.8	893.6	897.0	900.5	903.9
20°	863.4	872.8	882.3	885.8	889.2	895.3	902.2	906.5	910.0	915.2	918.6
22.5°	868.5	879.7	892.7	897.9	903.9	911.7	921.2	926.4	930.7	935.9	938.5
25°	884.9	893.6	909.1	917.8	925.5	938.5	951.4	957.5	962.7	967.0	967.9
27.5°	912.6	915.2	934.1	945.4	956.7	977.4	992.9	997.2	1006.8	1010.2	1009.3
30°	957.5	953.2	968.8	986.1	1002.4	1031.0	1050.0	1061.2	1069.9	1069.9	1062.9
32.5°	1022.3	1015.4	1019.7	1039.6	1058.6	1100.1	1122.5	1137.2	1143.3	1141.6	1126.9
35°	1107.0	1102.7	1100.1	1115.6	1145.9	1194.3	1223.6	1231.4	1240.9	1239.3	1220.2
37.5°	1207.3	1203.8	1203.8	1222.0	1251.4	1323.1	1355.0	1360.2	1359.4	1345.5	1310.1
40°	1325.7	1323.9	1316.1	1326.5	1351.5	1444.9	1488.1	1495.0	1485.5	1463.1	1421.6
42.5°	1495.9	1485.5	1461.3	1467.4	1486.3	1577.1	1633.3	1652.3	1642.8	1620.3	1552.9
45°	1718.0	1706.7	1666.1	1660.9	1671.3	1750.8	1823.4	1827.7	1826.0	1797.5	1718.0
47.5°	1979.0	1961.7	1918.4	1904.7	1901.2	1974.6	2044.7	2051.5	2047.3	2004.8	1898.6
50°	2261.5	2236.5	2207.9	2198.4	2184.7	2237.3	2308.2	2309.0	2291.8	2233.0	2133.7
52.5°	2563.2	2554.5	2549.3	2539.8	2533.8	2579.6	2622.8	2596.9	2570.9	2509.6	2423.2
55°	2867.4	2902.7	2939.1	2942.5	2952.9	3002.2	3001.3	2930.4	2911.4	2877.7	2792.1
57.5°	3190.5	3321.9	3435.9	3471.4	3506.0	3597.5	3589.0	3518.9	3494.7	3453.2	3382.3
60°	3630.3	3984.7	4314.0	4392.6	4447.0	4556.8	4546.4	4438.4	4488.5	4485.1	4393.4
62.5°	4246.5	4835.9	5329.3	5450.4	5488.4	5500.5	5434.8	5318.1	5367.4	5422.7	5141.0
65°	4663.9	5357.1	5863.4	5956.8	5961.9	5817.6	5671.6	5534.2	5522.1	5474.5	5071.8
66°	4673.4	5382.9	5891.1	5981.8	5949.8	5752.8	5567.8	5429.6	5370.0	5265.4	4848.0
67.5°	4505.8	5221.3	5768.3	5864.3	5794.3	5515.2	5260.2	5082.2	4965.5	4796.1	4428.0
70°	3784.2	4493.7	5167.8	5346.6	5369.1	4952.6	4599.1	4390.0	4232.7	4000.3	3683.1
72.5°	2813.8	3455.0	4049.5	4220.6	4307.9	3975.2	3677.0	3518.1	3302.9	3058.3	2832.8
75°	1763.7	2216.6	2615.0	2735.1	2653.0	2395.5	2216.6	2150.1	1938.3	1792.3	1689.5
77.5°	1008.5	1150.2	1182.1	1136.4	1039.6	795.9	566.0	419.2	363.8	402.7	444.2
80°	984.3	902.2	719.0	632.6	572.9	394.0	231.6	159.0	132.2	135.6	146.9
82.5°	1066.4	1144.2	942.0	768.3	644.7	435.5	240.3	127.9	86.4	102.0	115.0
85°	693.0	964.4	868.5	731.9	592.8	372.5	197.9	66.5	44.1	57.9	79.5
87.5°	70.0	76.9	65.7	89.0	66.5	31.1	15.5	9.5	8.7	10.3	15.5
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	861.6	861.6	861.6	861.6	861.6	861.6	861.6	861.6	861.6	861.6	861.6
2.5°	860.7	860.7	861.6	862.4	863.4	864.2	864.2	864.2	864.2	865.9	865.0
5°	862.4	864.2	865.9	866.8	868.5	868.5	871.1	870.2	870.2	872.8	873.7
7.5°	865.9	868.5	871.9	871.1	874.5	873.7	875.4	875.4	872.8	873.7	871.9
10°	873.7	877.1	878.9	876.3	877.1	873.7	872.8	868.5	863.4	860.7	857.2
12.5°	886.6	890.1	890.1	885.8	880.6	872.8	866.8	857.2	849.5	845.1	840.8
15°	897.9	901.3	900.5	893.6	885.8	873.7	865.0	853.8	842.6	835.6	831.4
17.5°	906.5	908.3	905.7	896.2	887.5	876.3	867.6	855.5	842.6	834.0	826.1
20°	919.4	917.8	911.7	899.6	890.1	879.7	872.8	862.4	847.7	836.6	825.3
22.5°	938.5	931.5	920.4	907.4	897.9	888.4	881.5	870.2	855.5	841.7	828.7
25°	963.5	949.7	934.1	920.4	911.7	901.3	893.6	881.5	865.9	850.3	834.8
27.5°	999.8	975.6	955.8	943.6	934.1	921.2	911.7	896.2	879.7	861.6	844.3
30°	1040.5	1007.6	988.7	979.1	968.8	954.9	940.2	920.4	901.3	881.5	860.7
32.5°	1093.2	1053.4	1035.3	1025.8	1011.9	994.7	977.4	954.9	928.1	902.2	877.1
35°	1162.3	1121.7	1102.7	1088.0	1068.9	1046.5	1021.5	991.2	954.9	920.4	888.4
37.5°	1236.7	1192.6	1174.4	1158.9	1130.3	1100.9	1065.5	1021.5	972.2	926.4	886.6
40°	1330.8	1290.2	1266.9	1240.1	1206.4	1155.4	1100.1	1036.1	973.0	916.8	870.2
42.5°	1450.1	1409.5	1374.9	1332.6	1273.8	1195.2	1116.5	1033.6	957.5	893.6	843.4
45°	1608.2	1559.0	1499.4	1425.0	1330.0	1220.2	1117.4	1017.1	928.1	857.2	803.7
47.5°	1801.8	1726.6	1628.9	1503.6	1367.1	1227.2	1103.5	984.3	882.3	805.4	745.8
50°	2031.6	1913.3	1752.6	1568.5	1386.1	1216.8	1068.9	935.1	817.5	735.4	664.6
52.5°	2294.3	2100.9	1864.0	1615.2	1385.3	1182.1	1010.2	860.7	732.8	641.2	573.8
55°	2602.9	2315.1	1979.0	1649.7	1361.0	1118.2	920.4	756.2	628.3	543.5	481.3
57.5°	3054.8	2662.5	2179.5	1703.3	1312.7	1019.7	798.5	630.9	518.5	438.1	385.4
60°	3881.0	3242.3	2540.7	1811.3	1238.3	875.4	655.9	496.9	402.7	337.9	302.4
62.5°	4503.2	3690.9	2736.0	1787.1	1088.8	697.4	486.5	362.0	296.4	252.4	229.9
65°	4414.2	3551.7	2527.7	1539.1	853.8	491.7	323.2	246.3	203.9	183.2	170.2
66°	4212.9	3370.3	2347.1	1385.3	738.0	408.7	266.1	206.5	175.4	160.7	152.1
67.5°	3830.9	3033.2	2023.9	1135.5	566.9	296.4	200.5	163.3	142.6	136.6	130.5
70°	3184.5	2418.8	1420.7	661.1	289.5	165.0	127.1	114.0	108.9	108.0	106.3
72.5°	2440.4	1711.9	836.6	312.8	150.3	109.8	98.5	94.2	92.5	92.5	93.3
75°	1495.9	961.9	369.9	152.9	105.4	92.5	87.3	85.6	84.7	85.6	84.7
77.5°	499.5	306.0	158.1	115.8	95.9	85.6	82.1	80.4	80.4	80.4	80.4
80°	152.9	133.1	121.0	107.2	90.7	81.2	76.1	75.2	76.1	76.9	74.3
82.5°	115.0	108.9	102.0	95.1	82.1	72.6	70.9	70.9	70.9	68.3	64.8
85°	84.7	83.8	69.1	64.8	60.5	60.5	60.5	60.5	57.9	53.6	50.1
87.5°	15.5	14.7	15.5	16.5	24.2	26.0	26.0	27.6	30.2	28.6	28.6
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):

	160°	165°	170°	175°	180°
0°	861.6	861.6	861.6	861.6	861.6
2.5°	865.0	864.2	866.8	865.0	865.9
5°	872.8	871.9	873.7	871.9	874.5
7.5°	870.2	868.5	867.6	868.5	869.4
10°	852.1	850.3	849.5	848.7	849.5
12.5°	836.6	833.0	833.0	831.4	832.2
15°	825.3	822.7	821.9	820.1	820.9
17.5°	820.1	815.8	814.1	812.3	812.3
20°	816.7	811.4	808.8	807.2	806.2
22.5°	816.7	808.8	805.4	803.7	802.8
25°	820.1	810.6	805.4	802.8	802.0
27.5°	827.0	814.9	808.8	805.4	805.4
30°	839.1	823.5	814.9	810.6	809.8
32.5°	851.2	830.5	818.3	813.2	811.4
35°	857.2	830.5	815.8	807.2	805.4
37.5°	850.3	819.3	801.1	788.1	785.5
40°	828.7	795.9	776.0	763.9	762.2
42.5°	800.2	768.3	744.9	736.3	733.7
45°	761.3	723.4	700.0	687.9	688.7
47.5°	694.8	655.9	635.2	623.9	625.7
50°	616.2	578.1	560.0	547.9	550.5
52.5°	529.8	495.2	477.9	471.8	470.1
55°	439.0	412.2	400.1	393.2	390.6
57.5°	356.0	337.0	328.4	319.7	320.7
60°	280.8	271.4	268.7	259.3	258.4
62.5°	221.2	215.2	212.6	205.7	206.5
65°	167.6	166.0	167.6	163.3	165.0
66°	151.3	152.1	152.1	149.5	151.3
67.5°	130.5	132.2	134.8	132.2	134.0
70°	108.0	109.8	111.4	111.4	111.4
72.5°	94.2	95.9	96.7	96.7	96.7
75°	86.4	87.3	88.2	86.4	86.4
77.5°	81.2	81.2	79.5	78.6	77.8
80°	73.5	72.6	70.0	68.3	68.3
82.5°	61.4	59.6	57.9	55.3	55.3
85°	46.7	44.9	43.2	39.7	38.0
87.5°	24.2	25.0	24.2	19.9	17.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)