

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: P156474

Luminaire Tested: **VXS-F03-LED-E1-T4-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P156474
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33673)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: VXS-F03-LED-E1-T4-7030
Description: VISION SITE SMALL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6835.8 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - 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

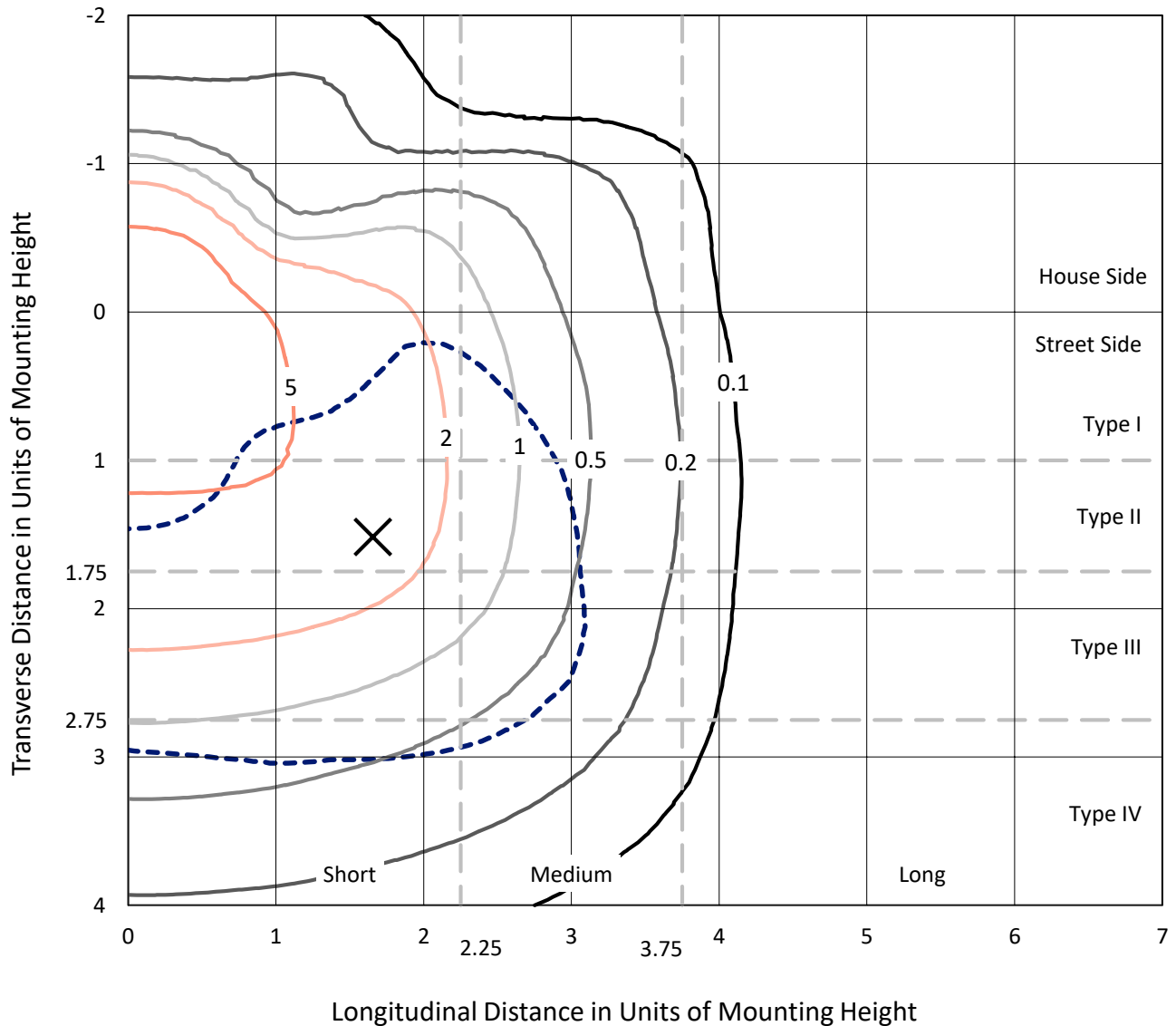


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

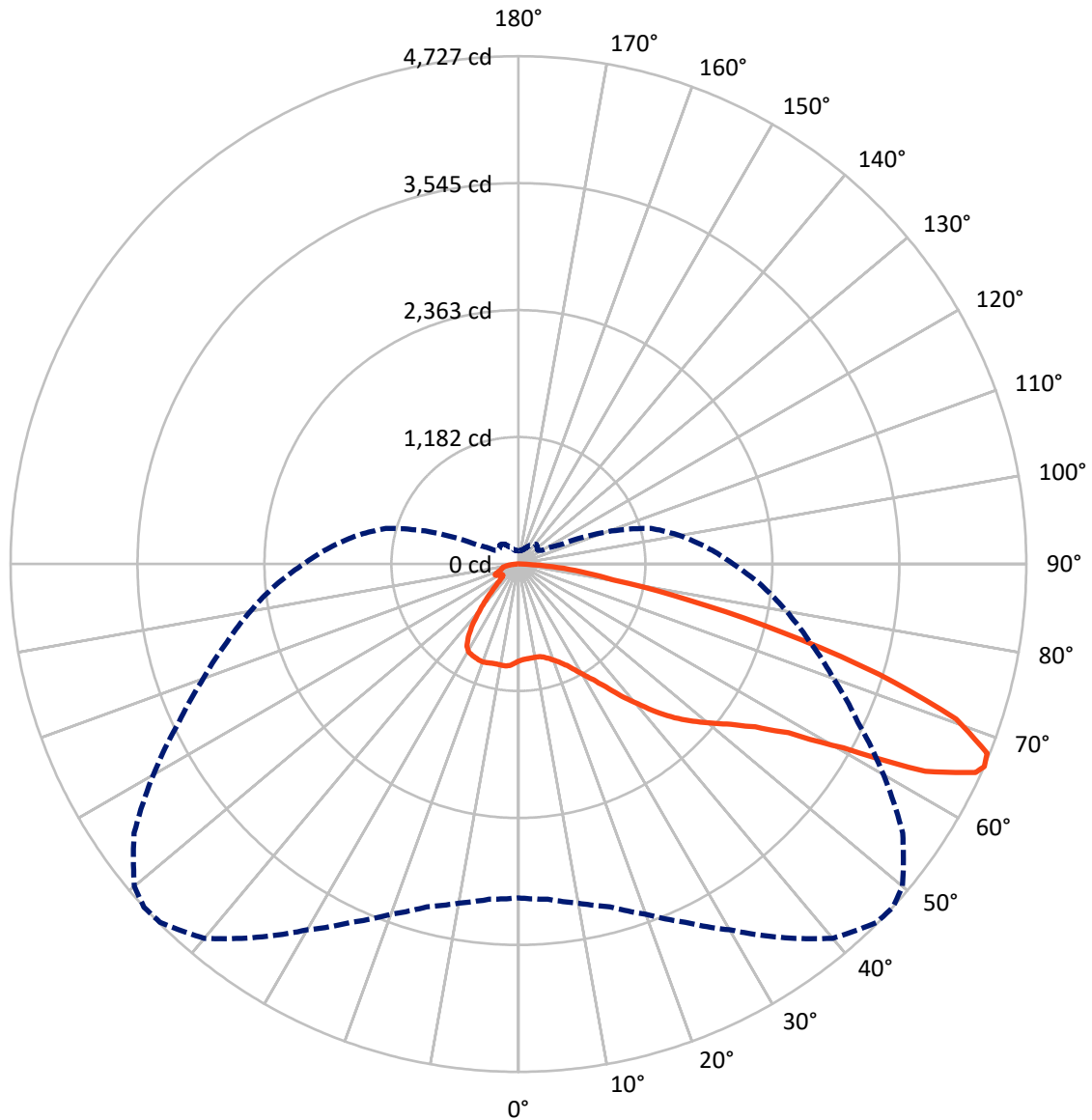


Based on 10 foot mounting height. Maximum calculated value = 9.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1458.6	0.0	1458.6
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	5377.2	0.0	5377.2
	% Fixture	78.7	0.0	78.7
Total	Lumens	6835.8	0.0	6835.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.5	1.3
10°-20°	265.6	3.9
20°-30°	457.6	6.7
30°-40°	692.3	10.1
40°-50°	897.3	13.1
50°-60°	1237.1	18.1
60°-70°	1922.0	28.1
70°-80°	1117.6	16.3
80°-90°	158.9	2.3
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°	6835.8	100.0
0°-180°	6835.8	100.0



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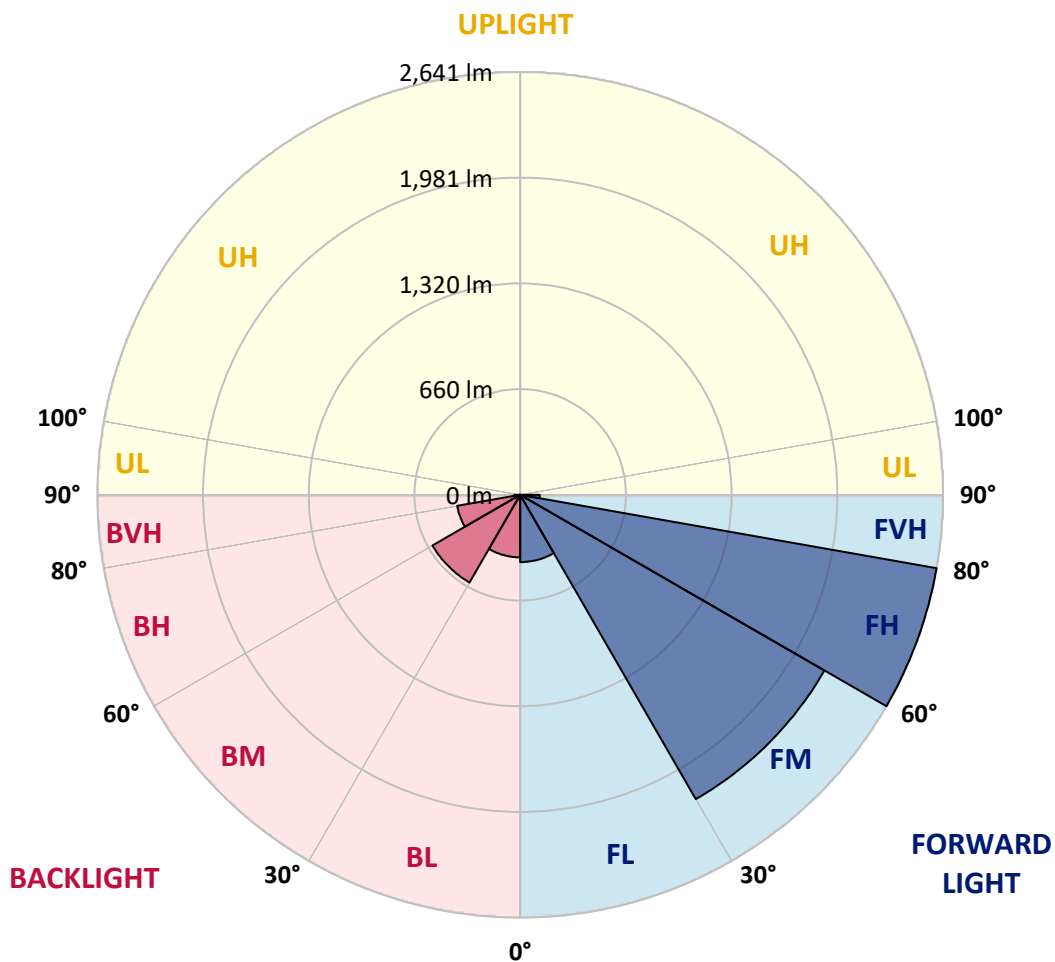
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	420.3	6.1			
FM	(30°-60°)	2194.3	32.1			
FH	(60°-80°)	2640.7	38.6			G2/5000
FVH	(80°-90°)	122.0	1.8			G2/225
BL	(0°-30°)	390.4	5.7	B1/500		
BM	(30°-60°)	632.3	9.2	B1/1000		
BH	(60°-80°)	398.9	5.8	B1/500		G1/500
BVH	(80°-90°)	37.0	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	901.0	901.0	901.0	901.0	901.0	901.0	901.0	901.0	901.0	901.0	901.0
2.5°	884.5	887.5	885.2	885.9	885.9	886.7	886.7	887.5	886.7	888.9	890.5
5°	868.6	870.2	869.3	870.9	872.3	875.3	874.6	878.4	879.2	881.5	885.2
7.5°	862.6	861.0	861.9	864.0	865.6	867.0	868.6	871.6	873.9	879.2	882.2
10°	868.6	867.9	868.6	870.2	870.2	870.9	869.3	872.3	873.9	878.4	881.5
12.5°	893.5	893.5	892.0	892.0	890.5	888.9	885.2	882.9	882.2	882.9	884.5
15°	933.5	931.9	928.9	926.6	923.6	918.3	913.1	908.6	905.6	901.0	899.5
17.5°	972.6	970.4	967.4	964.4	960.6	955.3	947.0	941.8	933.5	928.2	925.2
20°	1017.9	1013.4	1009.6	1005.8	998.2	996.8	988.5	979.5	969.6	957.6	956.1
22.5°	1076.7	1069.1	1064.7	1062.4	1054.8	1052.5	1039.0	1026.2	1014.1	998.2	994.5
25°	1136.3	1128.7	1126.4	1123.4	1118.1	1115.1	1102.4	1088.0	1072.2	1050.4	1045.8
27.5°	1194.3	1195.1	1189.0	1191.3	1189.8	1184.6	1171.7	1157.4	1145.3	1119.7	1114.4
30°	1266.7	1262.2	1259.2	1263.7	1258.4	1259.2	1247.9	1240.3	1220.7	1205.6	1195.1
32.5°	1342.1	1341.3	1345.9	1348.9	1348.2	1346.6	1337.6	1330.1	1312.7	1290.9	1286.3
35°	1445.4	1449.9	1453.7	1467.3	1467.3	1477.1	1468.0	1459.0	1438.7	1412.2	1403.2
37.5°	1515.5	1517.0	1532.1	1550.3	1572.8	1594.0	1600.0	1602.3	1594.0	1574.3	1560.7
40°	1579.6	1582.6	1606.7	1634.6	1667.9	1709.3	1734.2	1745.5	1747.8	1738.8	1709.3
42.5°	1643.7	1648.2	1673.2	1713.8	1759.8	1812.6	1856.4	1884.2	1900.1	1900.1	1882.7
45°	1718.3	1724.4	1751.5	1796.1	1849.5	1915.9	1976.2	2029.7	2055.3	2056.9	2040.3
47.5°	1806.5	1811.8	1843.5	1888.7	1943.8	2010.9	2087.0	2148.1	2195.6	2198.7	2185.1
50°	1920.4	1928.0	1954.3	1995.0	2051.6	2119.5	2195.6	2280.8	2330.6	2342.7	2328.3
52.5°	2071.2	2072.7	2094.6	2132.3	2187.4	2252.2	2332.8	2425.6	2491.2	2501.0	2477.6
55°	2279.3	2277.1	2291.4	2332.1	2373.6	2424.0	2507.8	2611.8	2685.0	2700.0	2676.0
57.5°	2562.1	2559.8	2571.9	2581.7	2659.4	2708.4	2790.6	2890.1	2960.9	3004.7	2963.2
60°	3000.1	2997.9	3017.5	3074.8	3132.8	3204.5	3284.4	3403.5	3503.0	3515.9	3475.1
62.5°	3317.6	3328.9	3371.8	3439.0	3556.6	3696.8	3843.1	3999.9	4204.2	4269.1	4249.5
65°	3206.7	3229.3	3288.9	3390.7	3547.6	3741.3	3970.6	4254.8	4528.5	4681.6	4677.0
66°	3107.3	3132.1	3205.2	3303.2	3469.1	3681.0	3931.3	4241.2	4547.4	4716.3	4726.7
67.5°	2926.2	2954.2	3025.8	3141.9	3303.2	3528.7	3797.8	4134.9	4480.9	4677.8	4705.7
70°	2574.1	2605.8	2657.8	2753.6	2912.6	3114.0	3397.5	3699.1	4061.8	4287.3	4321.1
72.5°	2151.9	2179.8	2237.8	2316.3	2446.7	2573.4	2795.9	3018.2	3277.6	3534.7	3509.8
75°	1545.0	1557.0	1591.7	1676.9	1747.0	1860.8	2039.6	2222.0	2399.2	2516.8	2533.4
77.5°	803.0	834.7	883.7	977.9	1054.1	1156.6	1272.7	1409.9	1539.7	1647.5	1618.0
80°	525.5	539.1	582.8	631.1	686.8	752.4	830.2	881.5	898.0	891.2	898.0
82.5°	303.1	328.0	386.0	423.0	464.5	487.0	548.9	607.7	640.9	599.4	584.4
85°	38.4	49.7	156.8	197.5	226.2	260.1	279.0	314.4	293.3	262.4	319.7
87.5°	8.3	7.6	10.6	22.6	23.4	19.6	37.0	39.2	24.1	12.0	15.1
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	901.0	901.0	901.0	901.0	901.0	901.0	901.0	901.0	901.0	901.0	901.0
2.5°	892.0	892.7	894.2	896.5	898.0	899.5	901.0	903.3	904.8	906.3	909.3
5°	888.2	891.2	894.2	897.2	901.0	907.0	910.8	913.9	916.9	922.9	925.2
7.5°	885.9	891.2	895.8	901.0	907.0	912.3	919.1	922.9	927.5	931.2	935.8
10°	884.5	892.0	896.5	904.0	910.8	916.1	923.6	928.2	933.5	937.9	940.2
12.5°	887.5	891.2	895.8	903.3	911.6	919.1	927.5	931.2	935.8	939.5	940.2
15°	900.3	900.3	901.0	907.0	915.3	921.3	928.2	931.9	934.2	936.5	936.5
17.5°	923.6	918.3	914.6	915.3	920.6	924.4	928.2	928.2	926.6	925.9	924.4
20°	950.8	944.0	936.5	931.2	929.6	926.6	924.4	916.9	910.8	905.6	901.8
22.5°	989.9	979.5	968.9	959.1	950.1	938.8	925.9	910.8	896.5	886.7	880.6
25°	1038.2	1029.9	1017.1	1002.1	990.8	969.6	953.1	931.2	913.1	900.3	889.7
27.5°	1106.8	1097.1	1085.0	1071.4	1054.8	1031.5	1011.1	985.5	963.6	944.8	931.2
30°	1192.0	1179.3	1170.2	1153.6	1142.3	1116.0	1095.5	1063.8	1021.7	991.5	972.6
32.5°	1279.5	1265.2	1257.6	1244.9	1232.0	1216.2	1185.3	1136.3	1082.0	1033.0	1000.5
35°	1396.4	1381.3	1367.8	1356.5	1337.6	1308.2	1281.0	1222.2	1147.6	1079.0	1024.7
37.5°	1543.4	1518.5	1484.7	1456.0	1422.8	1380.5	1339.1	1278.8	1193.6	1104.6	1032.2
40°	1700.2	1656.5	1608.3	1554.7	1497.4	1436.4	1388.8	1327.8	1232.0	1126.4	1026.9
42.5°	1863.8	1794.5	1727.4	1652.0	1572.1	1499.7	1437.8	1370.8	1260.7	1132.5	1005.8
45°	2026.0	1948.3	1846.5	1747.8	1646.7	1557.0	1487.7	1412.2	1287.0	1134.7	977.9
47.5°	2160.2	2080.3	1964.1	1840.5	1720.6	1618.9	1537.4	1456.0	1322.5	1150.6	971.2
50°	2302.0	2204.7	2075.8	1929.4	1793.8	1679.9	1593.2	1508.7	1372.2	1191.3	993.1
52.5°	2456.5	2344.9	2194.1	2030.5	1882.0	1754.5	1660.3	1573.6	1435.6	1248.6	1034.5
55°	2645.0	2508.5	2344.9	2160.2	2001.1	1860.1	1756.1	1653.5	1511.0	1316.5	1086.5
57.5°	2933.1	2765.7	2581.7	2371.3	2194.9	2028.3	1903.8	1785.5	1627.9	1417.5	1157.4
60°	3454.1	3275.3	3036.4	2781.5	2574.1	2379.6	2197.1	2050.2	1856.4	1616.6	1314.2
62.5°	4200.5	3963.0	3644.0	3287.5	3016.0	2735.4	2529.6	2311.0	2070.5	1811.8	1499.0
65°	4615.2	4327.2	3900.4	3486.4	3137.4	2832.7	2571.1	2317.8	2050.9	1803.5	1541.9
66°	4666.4	4366.4	3923.0	3487.3	3120.8	2807.9	2532.6	2270.3	1997.3	1761.3	1523.8
67.5°	4645.4	4338.4	3881.6	3421.7	3049.1	2712.8	2428.6	2156.4	1884.2	1664.0	1463.5
70°	4299.3	4008.2	3559.6	3114.0	2760.4	2428.6	2157.2	1889.5	1639.9	1451.4	1303.6
72.5°	3570.2	3321.3	2931.5	2581.7	2304.2	2030.5	1800.5	1545.0	1333.8	1194.3	1106.8
75°	2577.1	2426.3	2071.2	1870.7	1627.2	1445.4	1222.2	1070.7	919.1	851.3	836.2
77.5°	1627.9	1425.1	1199.6	987.8	812.0	673.4	524.0	444.9	371.0	363.4	438.9
80°	824.1	742.0	571.5	455.4	383.0	309.8	245.1	185.5	129.6	156.1	186.9
82.5°	539.9	450.2	352.8	290.3	252.5	209.6	162.9	113.1	82.9	93.5	128.2
85°	291.8	248.8	200.5	158.3	128.2	114.6	76.9	54.3	53.6	57.3	73.2
87.5°	21.1	21.1	16.6	15.1	18.1	15.1	13.6	13.6	12.8	13.6	18.1
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	901.0	901.0	901.0	901.0	901.0	901.0	901.0	901.0	901.0	901.0	901.0
2.5°	910.8	913.1	913.9	917.6	919.9	921.3	922.9	922.9	923.6	925.9	926.6
5°	928.2	931.9	936.5	939.5	940.9	945.5	947.0	947.0	948.5	951.5	953.8
7.5°	938.8	944.0	948.5	950.1	953.1	954.5	956.8	958.3	958.3	961.3	962.8
10°	942.5	945.5	950.1	950.1	953.1	953.1	955.3	956.1	956.1	959.1	961.3
12.5°	942.5	944.0	947.8	947.8	950.1	950.8	953.8	956.1	956.8	960.6	963.6
15°	937.9	939.5	942.5	943.2	948.5	951.5	958.3	962.8	962.8	966.6	968.1
17.5°	925.2	928.9	934.9	940.9	950.8	957.6	965.9	969.6	966.6	964.4	962.1
20°	904.0	910.8	925.2	940.2	957.6	966.6	971.2	967.4	956.8	946.2	939.5
22.5°	882.9	896.5	920.6	943.2	962.8	968.9	966.6	953.1	935.8	922.9	913.9
25°	892.7	908.6	931.9	952.3	965.1	963.6	954.5	935.8	916.9	900.3	885.2
27.5°	933.5	950.8	963.6	970.4	968.9	958.3	944.0	922.9	900.3	878.4	857.3
30°	971.9	980.9	983.9	978.7	966.6	949.3	931.2	907.0	876.9	849.7	825.6
32.5°	989.2	980.2	965.9	951.5	931.9	916.9	892.0	865.6	827.9	795.4	771.3
35°	989.2	953.1	916.9	886.7	857.3	838.4	809.7	774.3	739.7	712.5	693.7
37.5°	967.4	898.0	838.4	789.4	752.4	732.1	689.1	657.5	628.1	619.1	606.9
40°	927.5	824.9	739.0	674.8	628.1	597.9	554.9	533.1	521.8	517.2	515.0
42.5°	873.9	743.4	628.8	549.6	499.2	465.2	436.6	423.0	422.3	421.5	421.5
45°	816.6	656.0	521.8	427.6	383.0	352.8	339.3	334.0	338.5	337.8	338.5
47.5°	781.1	589.6	423.7	323.4	289.5	269.9	263.1	265.4	269.2	267.7	267.7
50°	776.6	555.6	358.1	251.8	226.2	216.4	214.9	214.9	217.1	215.6	214.9
52.5°	793.2	550.5	324.2	216.4	196.1	187.8	186.2	185.5	184.8	180.2	176.5
55°	821.9	562.5	314.4	207.4	186.2	177.2	174.9	173.4	170.4	164.4	157.6
57.5°	879.2	600.2	323.4	211.9	189.2	181.8	179.5	179.5	173.4	163.6	153.8
60°	1017.1	696.0	360.4	229.2	203.6	196.1	197.5	196.8	187.8	173.4	158.3
62.5°	1195.1	821.1	408.7	253.4	221.7	220.2	227.7	226.2	211.1	189.2	167.4
65°	1277.3	879.9	422.3	258.7	225.5	232.2	247.4	245.8	226.9	196.8	168.9
66°	1278.8	879.9	416.2	254.1	220.2	228.5	243.5	242.8	223.9	193.8	165.9
67.5°	1247.9	855.8	398.9	245.1	209.6	215.6	229.2	228.5	211.1	186.2	159.9
70°	1131.7	766.0	354.4	229.2	195.2	192.2	196.8	193.8	182.5	165.1	147.0
72.5°	969.6	643.1	309.1	217.1	185.5	173.4	170.4	168.2	159.1	149.3	138.0
75°	763.8	508.9	271.4	208.1	176.5	160.6	155.3	152.3	146.3	139.5	130.5
77.5°	471.3	364.1	236.8	196.1	169.6	153.8	150.1	145.5	136.5	128.2	121.3
80°	210.4	225.5	194.5	171.2	151.5	137.2	131.2	124.5	115.3	110.1	106.3
82.5°	140.2	145.5	141.0	128.2	114.6	103.3	94.3	94.3	92.7	88.2	86.7
85°	89.7	90.5	87.5	79.2	73.9	67.2	63.3	64.0	67.2	66.3	65.6
87.5°	20.3	20.3	24.1	22.6	26.4	27.9	30.2	32.4	37.0	37.0	39.2
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):

	160°	165°	170°	175°	180°
0°	901.0	901.0	901.0	901.0	901.0
2.5°	927.5	928.9	930.5	928.2	928.9
5°	953.8	953.1	956.8	954.5	956.1
7.5°	962.1	962.8	965.9	965.9	966.6
10°	962.8	964.4	968.1	970.4	971.9
12.5°	966.6	969.6	975.6	977.2	977.2
15°	969.6	971.2	974.9	976.4	977.9
17.5°	959.1	956.1	957.6	958.3	957.6
20°	932.6	929.6	928.9	925.9	927.5
22.5°	904.0	895.8	890.5	884.5	884.5
25°	869.3	856.6	846.0	835.4	837.7
27.5°	836.9	820.3	809.7	803.0	801.5
30°	805.3	787.9	778.1	769.8	769.8
32.5°	752.4	740.4	727.6	722.3	721.6
35°	679.4	671.8	661.2	659.0	655.2
37.5°	597.2	594.9	585.8	585.1	581.3
40°	511.2	512.7	509.7	508.2	505.9
42.5°	425.3	432.7	431.3	430.6	429.0
45°	343.1	348.4	349.1	351.4	355.1
47.5°	269.9	271.4	273.0	272.2	273.0
50°	211.1	207.4	206.6	204.4	206.6
52.5°	170.4	164.4	161.3	158.3	156.8
55°	150.1	144.0	141.0	139.5	138.0
57.5°	144.8	138.8	134.2	131.2	130.5
60°	146.3	137.2	131.2	127.5	126.6
62.5°	150.1	138.0	129.6	125.9	125.2
65°	149.3	136.5	128.9	124.5	123.6
66°	147.0	134.9	127.5	123.6	122.9
67.5°	143.2	132.7	125.9	122.9	121.3
70°	136.5	129.6	124.5	120.6	119.2
72.5°	130.5	125.2	120.6	116.9	116.2
75°	123.6	119.2	114.6	111.6	110.9
77.5°	115.3	110.9	107.8	105.6	104.8
80°	101.8	98.8	95.8	92.7	92.7
82.5°	84.5	82.2	79.2	76.9	76.2
85°	64.9	64.9	62.6	60.3	59.6
87.5°	38.4	37.7	37.7	35.4	35.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)