

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: P152158

Luminaire Tested: **VXS-E03-LED-E1-SL4-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P152158
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33680)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: VXS-E03-LED-E1-SL4-8030
Description: VISION SITE SMALL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (63) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7479.7 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B1 - 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



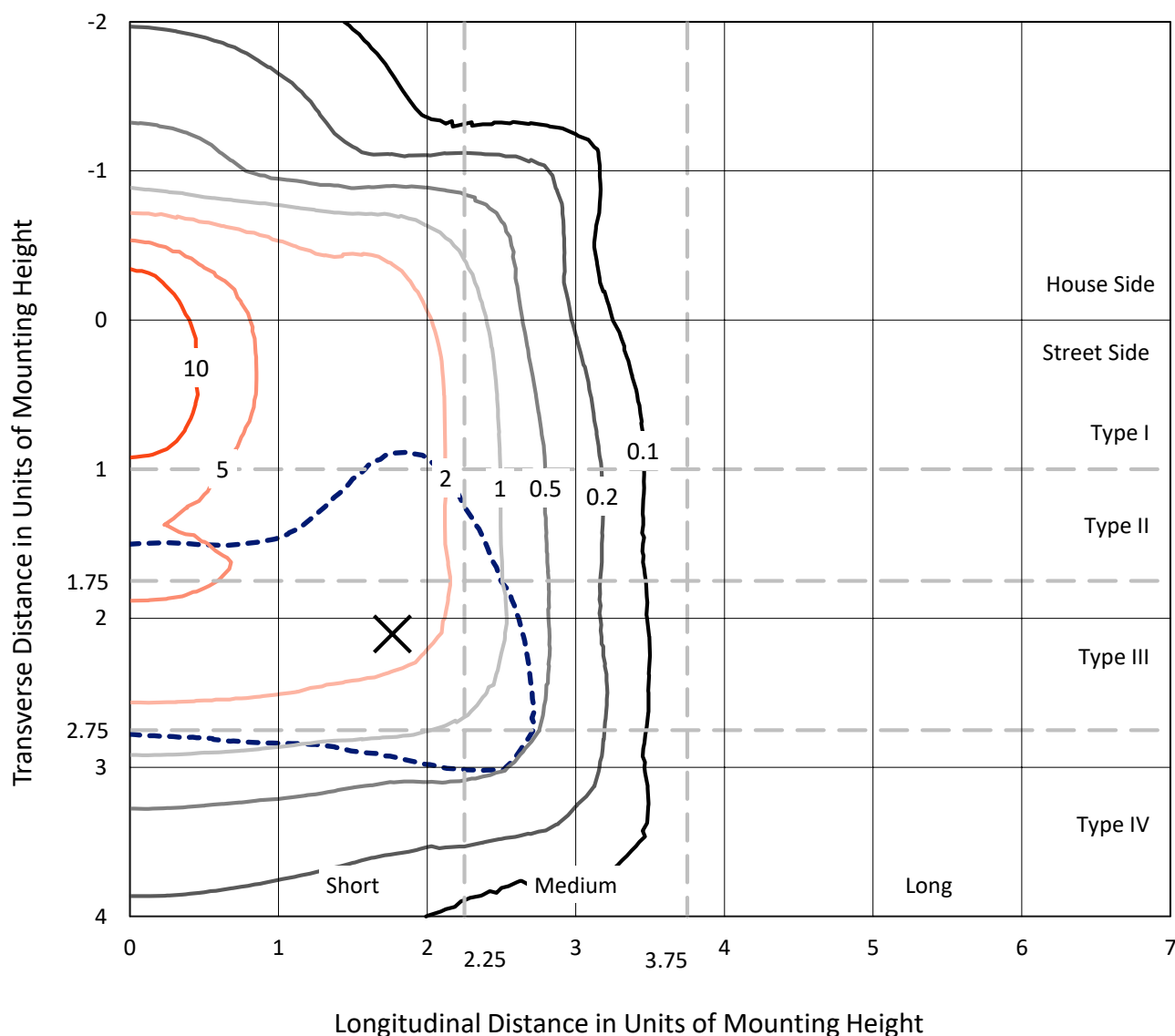
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

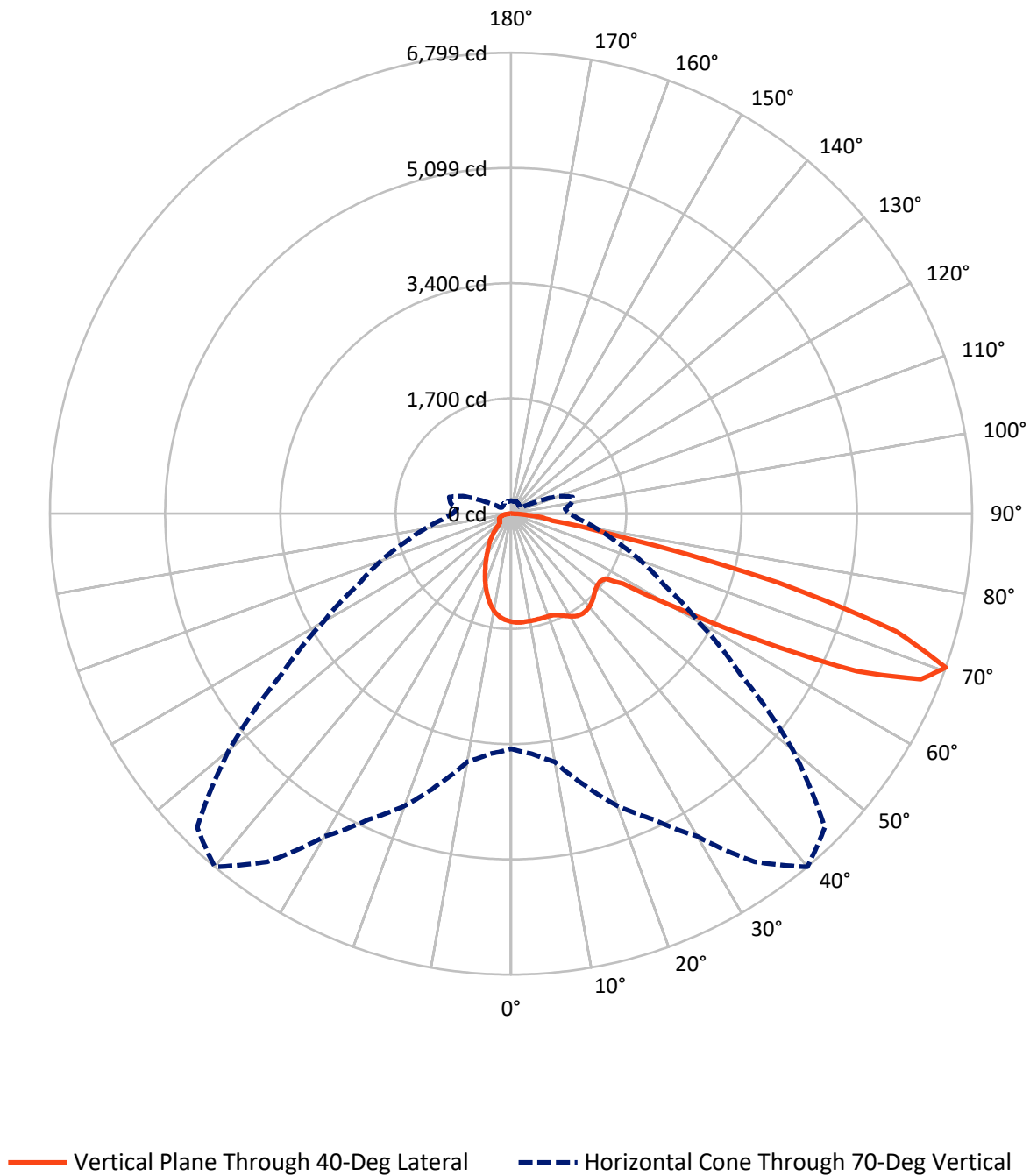


Based on 10 foot mounting height. Maximum calculated value = 16 fc
 Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1552.7	0.0	1552.7
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	5927.0	0.0	5927.0
	% Fixture	79.2	0.0	79.2
Total	Lumens	7479.7	0.0	7479.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.1	2.0
10°-20°	408.2	5.5
20°-30°	604.2	8.1
30°-40°	763.6	10.2
40°-50°	863.6	11.5
50°-60°	1228.9	16.4
60°-70°	2288.7	30.6
70°-80°	1048.9	14.0
80°-90°	124.5	1.7
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°	7479.7	100.0
0°-180°	7479.7	100.0

Coefficient of Utilization



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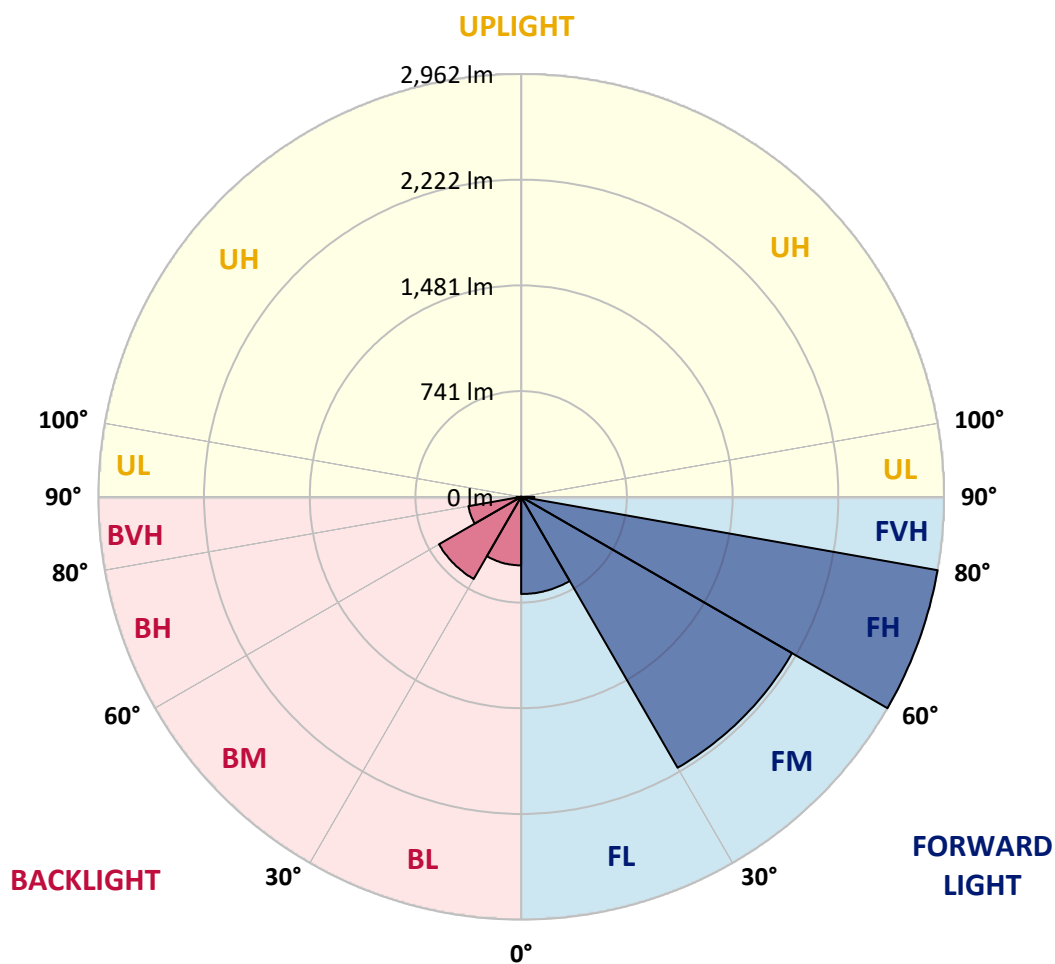
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	681.1	9.1			
FM	(30°-60°)	2191.3	29.3			
FH	(60°-80°)	2962.3	39.6			G2/5000
FVH	(80°-90°)	92.4	1.2			G1/100
BL	(0°-30°)	480.4	6.4	B1/500		
BM	(30°-60°)	664.8	8.9	B1/1000		
BH	(60°-80°)	375.4	5.0	B1/500		G1/500
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: B1-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1596.0	1596.0	1596.0	1596.0	1596.0	1596.0	1596.0	1596.0	1596.0	1596.0	1596.0
2.5°	1620.4	1624.7	1619.6	1618.8	1618.8	1617.9	1612.8	1612.0	1605.3	1606.1	1607.8
5°	1632.2	1634.0	1630.6	1629.7	1628.1	1624.7	1620.4	1615.4	1610.4	1605.3	1601.0
7.5°	1644.1	1642.4	1639.9	1639.9	1637.3	1632.2	1623.8	1617.1	1606.1	1600.2	1592.6
10°	1660.9	1658.4	1655.0	1653.4	1649.1	1641.6	1629.7	1620.4	1606.9	1595.1	1582.5
12.5°	1677.0	1676.2	1671.1	1668.6	1661.9	1654.2	1639.9	1625.5	1607.8	1589.2	1572.3
15°	1705.7	1702.3	1697.3	1692.2	1681.2	1671.1	1649.1	1632.2	1606.9	1582.5	1556.3
17.5°	1755.5	1749.6	1744.6	1733.6	1720.1	1702.3	1670.3	1641.6	1606.9	1571.5	1542.0
20°	1846.6	1834.0	1827.3	1812.8	1789.2	1757.2	1707.4	1660.9	1609.5	1563.9	1524.2
22.5°	1949.6	1941.1	1931.9	1922.6	1885.5	1839.1	1771.5	1702.3	1624.7	1560.5	1509.9
25°	2065.3	2054.3	2049.2	2033.2	1998.5	1945.4	1853.4	1757.2	1659.3	1574.1	1509.9
27.5°	2168.2	2164.9	2164.0	2145.4	2112.5	2050.1	1941.1	1825.6	1706.5	1601.9	1522.6
30°	2261.9	2258.5	2256.8	2246.7	2208.7	2134.4	2016.3	1886.3	1758.0	1640.7	1546.2
32.5°	2361.5	2350.5	2345.5	2326.0	2283.0	2196.1	2061.0	1926.0	1798.5	1678.7	1572.3
35°	2442.5	2433.3	2423.1	2395.2	2334.5	2231.5	2080.4	1939.5	1814.6	1699.8	1585.9
37.5°	2501.6	2492.3	2477.9	2442.5	2367.4	2243.3	2079.6	1935.2	1808.7	1696.4	1588.4
40°	2527.8	2518.4	2503.3	2458.5	2373.3	2236.6	2063.5	1915.9	1791.0	1678.7	1578.2
42.5°	2517.6	2510.9	2491.5	2448.4	2354.7	2206.2	2031.5	1879.6	1757.2	1650.1	1555.4
45°	2478.8	2473.8	2455.1	2409.6	2312.5	2157.2	1984.2	1834.0	1716.7	1614.5	1525.1
47.5°	2420.5	2418.9	2400.3	2355.5	2259.4	2108.3	1935.2	1789.2	1676.2	1580.0	1499.8
50°	2356.4	2348.0	2338.7	2297.3	2209.5	2066.1	1899.8	1761.5	1653.4	1567.3	1488.8
52.5°	2316.0	2313.4	2305.0	2267.8	2183.4	2041.7	1883.8	1751.3	1651.7	1564.8	1482.9
55°	2675.4	2681.3	2603.7	2442.5	2300.7	2109.1	1931.9	1802.8	1693.1	1605.3	1545.4
57.5°	3957.5	3931.3	3797.9	3478.1	3116.9	2640.0	2296.5	2088.1	1952.1	1967.4	1997.7
60°	4610.7	4605.7	4581.1	4457.1	4216.6	3853.7	3451.1	2989.4	2842.6	2858.5	2870.4
62.5°	4902.7	4910.4	4928.9	4882.5	4819.2	4713.7	4512.8	4327.2	4130.5	4057.1	3860.4
65°	5037.8	5051.3	5093.5	5119.7	5144.1	5162.7	5242.1	5459.8	5603.2	5334.8	4710.4
67.5°	4758.4	4823.4	4962.7	5098.5	5220.1	5393.1	5661.5	6167.0	6519.0	6189.0	5283.4
70°	3468.8	3557.4	3716.9	4137.2	4586.2	4978.7	5498.5	6268.3	6799.2	6544.4	5425.2
72.5°	2174.9	2199.5	2270.4	2424.8	2758.1	3262.1	4171.0	5325.6	5938.3	5734.9	4585.4
75°	1379.9	1388.4	1385.8	1421.2	1477.8	1587.6	1947.0	3145.6	4068.1	3750.7	2555.6
77.5°	822.1	834.7	839.8	850.8	877.7	916.6	946.1	1070.2	1705.7	1656.0	927.6
80°	688.7	698.9	690.4	687.9	671.0	659.2	673.5	659.2	611.9	589.1	542.7
82.5°	364.6	363.7	361.2	385.7	435.5	474.3	503.8	497.1	449.8	383.2	325.0
85°	200.0	206.7	206.7	215.2	207.7	208.5	215.2	227.0	210.2	175.5	143.5
87.5°	16.9	26.1	21.1	26.1	35.4	25.3	24.5	24.5	21.1	15.2	13.5
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1596.0	1596.0	1596.0	1596.0	1596.0	1596.0	1596.0	1596.0	1596.0	1596.0	1596.0
2.5°	1603.6	1601.9	1598.5	1596.0	1596.0	1591.8	1589.2	1587.6	1586.7	1583.3	1583.3
5°	1598.5	1592.6	1586.7	1582.5	1580.0	1575.8	1569.0	1565.6	1561.3	1558.0	1556.3
7.5°	1587.6	1576.6	1567.3	1560.5	1552.1	1545.4	1536.9	1529.3	1521.8	1518.3	1516.7
10°	1570.7	1556.3	1542.0	1529.3	1517.5	1505.7	1494.7	1483.7	1474.4	1467.7	1460.9
12.5°	1554.6	1532.6	1514.1	1495.5	1477.0	1462.6	1447.5	1431.4	1417.9	1405.3	1401.9
15°	1532.6	1507.4	1483.7	1460.9	1438.1	1414.5	1396.0	1378.2	1356.3	1342.0	1331.0
17.5°	1512.4	1482.1	1453.4	1426.3	1398.4	1374.0	1346.1	1322.5	1300.6	1278.7	1262.6
20°	1490.5	1457.6	1427.2	1396.8	1366.4	1335.2	1303.1	1272.7	1245.7	1219.6	1193.4
22.5°	1471.1	1437.3	1407.8	1374.8	1341.1	1305.7	1268.5	1230.6	1199.3	1165.6	1135.1
25°	1459.3	1422.2	1391.7	1359.7	1322.5	1283.7	1241.6	1196.8	1158.8	1120.0	1083.7
27.5°	1459.3	1411.2	1379.9	1347.9	1309.8	1268.5	1222.1	1173.2	1130.2	1087.0	1042.3
30°	1471.9	1412.8	1370.7	1336.9	1298.0	1253.4	1201.9	1150.4	1103.1	1052.4	1009.4
32.5°	1483.7	1416.2	1363.9	1320.8	1276.2	1232.2	1179.9	1125.1	1072.7	1024.6	979.1
35°	1491.3	1416.2	1351.2	1296.4	1245.7	1202.7	1151.2	1096.4	1043.2	996.0	953.7
37.5°	1492.1	1409.4	1331.0	1268.5	1215.3	1170.6	1121.7	1070.2	1019.6	975.6	940.2
40°	1483.7	1396.0	1310.7	1239.0	1183.3	1137.7	1093.0	1046.5	1000.9	964.7	934.3
42.5°	1468.5	1381.7	1291.3	1215.3	1157.1	1109.8	1068.5	1028.8	989.1	957.9	932.6
45°	1445.8	1362.2	1273.6	1201.0	1143.6	1093.8	1053.3	1020.4	986.6	960.4	935.1
47.5°	1425.5	1355.4	1279.5	1210.3	1150.4	1098.9	1057.5	1029.6	1003.5	985.8	951.2
50°	1421.2	1352.1	1282.1	1217.9	1157.1	1104.8	1068.5	1054.1	1046.5	1035.5	982.4
52.5°	1409.4	1351.2	1300.6	1265.2	1226.3	1201.9	1163.8	1177.4	1168.9	1130.2	1033.9
55°	1533.6	1550.4	1597.7	1665.2	1727.7	1742.0	1737.8	1721.8	1636.5	1407.8	1157.9
57.5°	2108.3	2203.6	2293.2	2332.7	2327.8	2283.0	2250.9	2185.9	2062.7	1784.1	1402.7
60°	2906.7	2921.9	2874.6	2804.6	2686.4	2587.7	2482.2	2360.6	2181.8	1909.1	1553.0
62.5°	3641.9	3437.6	3227.5	3029.9	2850.2	2693.2	2546.3	2376.7	2143.7	1859.3	1533.6
65°	4160.8	3728.7	3397.1	3113.5	2859.5	2640.0	2456.9	2236.6	1974.1	1717.5	1421.2
67.5°	4428.4	3765.9	3257.0	2862.0	2501.6	2197.7	1953.9	1739.5	1544.5	1432.2	1244.0
70°	4129.6	3196.2	2487.3	2040.7	1609.5	1290.5	1019.6	855.9	799.3	905.6	941.9
72.5°	3077.2	2080.4	1479.5	1144.5	876.9	698.9	536.0	421.1	342.7	359.6	466.7
75°	1455.0	898.0	634.7	482.8	384.0	318.1	260.0	238.0	199.2	165.4	155.3
77.5°	566.3	412.7	340.9	249.8	177.2	142.6	121.6	117.3	119.9	116.5	114.8
80°	431.3	292.0	183.1	134.2	115.6	102.1	90.3	86.9	88.6	92.8	97.1
82.5°	240.5	150.3	111.4	97.1	86.9	74.3	67.6	62.5	63.3	68.4	77.6
85°	92.8	72.5	66.6	64.1	59.9	48.1	41.3	42.2	48.1	57.4	57.4
87.5°	10.2	10.2	13.5	10.2	10.2	10.2	9.3	11.0	11.8	15.2	17.7
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1596.0	1596.0	1596.0	1596.0	1596.0	1596.0	1596.0	1596.0	1596.0	1596.0	1596.0
2.5°	1581.7	1581.7	1581.7	1580.0	1580.8	1577.4	1577.4	1574.9	1579.1	1576.6	1575.8
5°	1557.2	1556.3	1553.0	1553.0	1553.0	1553.0	1555.4	1548.7	1553.8	1553.8	1551.3
7.5°	1515.9	1515.9	1506.5	1511.6	1509.9	1512.4	1515.9	1512.4	1517.5	1520.8	1518.3
10°	1458.4	1458.4	1450.8	1456.7	1454.2	1460.1	1466.0	1462.6	1466.0	1471.1	1472.7
12.5°	1395.1	1391.7	1385.0	1387.6	1387.6	1390.9	1393.5	1397.6	1401.9	1408.6	1412.0
15°	1321.7	1316.6	1308.2	1308.2	1303.1	1304.8	1309.8	1311.6	1320.0	1329.3	1340.2
17.5°	1246.5	1233.9	1224.7	1213.7	1205.2	1212.0	1217.9	1222.1	1228.8	1243.2	1250.8
20°	1175.6	1150.4	1132.6	1118.2	1109.0	1113.3	1120.8	1125.9	1131.8	1135.1	1137.7
22.5°	1105.6	1076.9	1052.4	1034.7	1019.6	1023.7	1020.4	1017.8	1022.1	1011.1	1010.3
25°	1044.9	1011.1	978.1	957.1	938.5	932.6	914.9	910.7	898.9	889.5	882.8
27.5°	1000.9	957.1	920.8	896.3	866.7	844.9	822.1	799.3	786.6	771.4	763.8
30°	966.3	920.0	876.9	835.5	796.7	763.0	732.5	703.0	682.8	660.8	646.5
32.5°	934.3	891.3	839.0	782.4	730.1	692.1	652.4	618.7	586.5	557.9	536.8
35°	912.3	864.2	797.6	728.4	669.3	624.6	582.4	534.2	495.4	458.2	435.5
37.5°	900.5	841.5	759.6	682.8	617.0	566.3	514.0	458.2	411.0	376.4	341.9
40°	891.3	818.7	725.8	642.3	573.1	512.3	451.5	385.7	333.4	297.1	270.1
42.5°	881.1	793.4	696.3	610.2	533.4	462.5	389.1	319.1	269.2	243.9	232.1
45°	870.2	771.4	668.4	579.8	494.6	408.5	324.0	259.1	229.5	221.1	221.1
47.5°	867.7	757.1	648.2	550.3	450.7	346.0	264.1	223.6	215.2	216.9	220.3
50°	877.7	752.8	630.5	515.6	392.4	280.2	223.6	210.2	211.8	216.9	222.0
52.5°	902.2	756.2	611.9	467.6	323.2	231.3	206.7	205.9	211.0	218.5	223.6
55°	943.6	756.2	576.5	395.9	258.2	207.7	200.8	204.2	211.0	217.7	222.0
57.5°	1032.2	748.6	514.0	316.5	216.1	199.2	199.2	203.4	209.3	216.1	219.5
60°	1137.7	738.4	426.2	244.8	194.9	192.4	198.3	203.4	208.5	214.4	217.7
62.5°	1144.5	712.3	337.6	202.6	184.0	188.2	197.5	204.2	205.9	210.2	214.4
65°	1051.6	621.1	268.4	181.5	179.0	185.7	194.9	200.0	200.8	202.6	206.7
67.5°	920.8	506.4	216.9	171.3	173.9	181.5	186.5	190.8	193.3	197.5	198.3
70°	756.2	406.8	185.7	161.2	163.7	172.1	176.4	180.6	185.7	190.8	188.2
72.5°	536.0	316.5	162.9	150.3	153.6	161.2	166.2	169.6	173.9	179.0	175.5
75°	227.9	221.1	140.9	135.9	140.9	146.0	151.1	156.2	160.3	162.9	162.9
77.5°	116.5	129.9	121.6	121.6	124.9	129.9	134.2	139.3	141.8	144.4	147.7
80°	98.8	100.4	102.1	105.5	108.9	114.0	118.1	122.4	123.2	124.0	125.8
82.5°	81.9	85.3	86.9	92.0	94.5	96.2	98.8	98.8	100.4	100.4	97.9
85°	59.1	63.3	65.8	66.6	65.8	66.6	67.6	69.2	73.5	73.5	70.1
87.5°	16.9	16.1	20.2	21.1	22.8	26.1	29.5	35.4	37.1	38.9	38.9
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°	170°	175°	180°
0°	1596.0	1596.0	1596.0	1596.0
2.5°	1574.9	1576.6	1573.2	1574.1
5°	1551.3	1554.6	1550.4	1555.4
7.5°	1520.8	1525.9	1525.1	1524.2
10°	1477.0	1483.7	1483.7	1486.2
12.5°	1421.2	1425.5	1428.9	1430.6
15°	1346.1	1353.8	1358.0	1358.0
17.5°	1255.9	1260.9	1263.4	1260.1
20°	1141.0	1139.4	1140.2	1131.8
22.5°	1008.6	1011.1	1003.5	1005.2
25°	878.5	874.4	877.7	872.6
27.5°	752.8	753.7	744.4	748.6
30°	633.0	628.8	617.0	622.9
32.5°	517.4	506.4	493.8	486.1
35°	408.5	391.6	385.7	383.2
37.5°	320.7	302.2	296.3	289.5
40°	254.9	248.1	245.6	247.3
42.5°	228.7	228.7	230.4	231.3
45°	222.0	224.5	227.0	227.9
47.5°	222.8	225.4	228.7	229.5
50°	224.5	227.0	229.5	230.4
52.5°	225.4	225.4	227.0	227.9
55°	223.6	222.8	223.6	224.5
57.5°	220.3	218.5	219.5	222.0
60°	218.5	216.1	217.7	219.5
62.5°	214.4	213.6	215.2	216.1
65°	205.1	205.9	208.5	208.5
67.5°	196.7	197.5	198.3	199.2
70°	186.5	187.4	189.0	189.9
72.5°	174.7	178.0	180.6	184.0
75°	165.4	168.8	173.9	177.2
77.5°	149.4	151.9	157.8	162.1
80°	126.6	125.8	126.6	129.1
82.5°	97.1	97.1	96.2	95.3
85°	68.4	67.6	65.0	65.0
87.5°	37.1	36.3	35.4	33.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)