

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: P156481

Luminaire Tested: **VXS-E04-LED-E1-T4-7050**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P156481
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-E04-LED-E1-T4-7050
Description: VISION SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (84) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12403.7 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 97.2
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

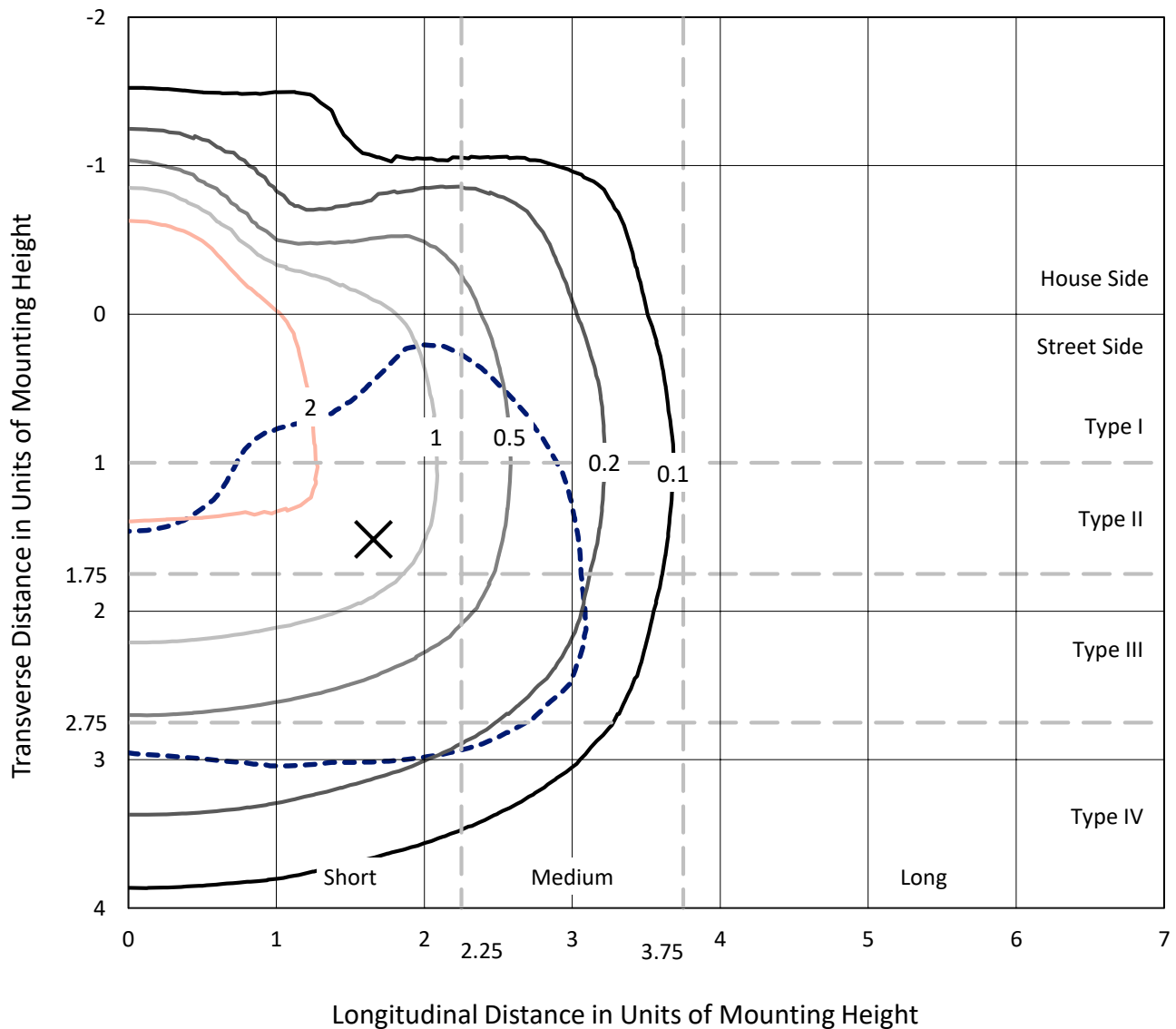


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

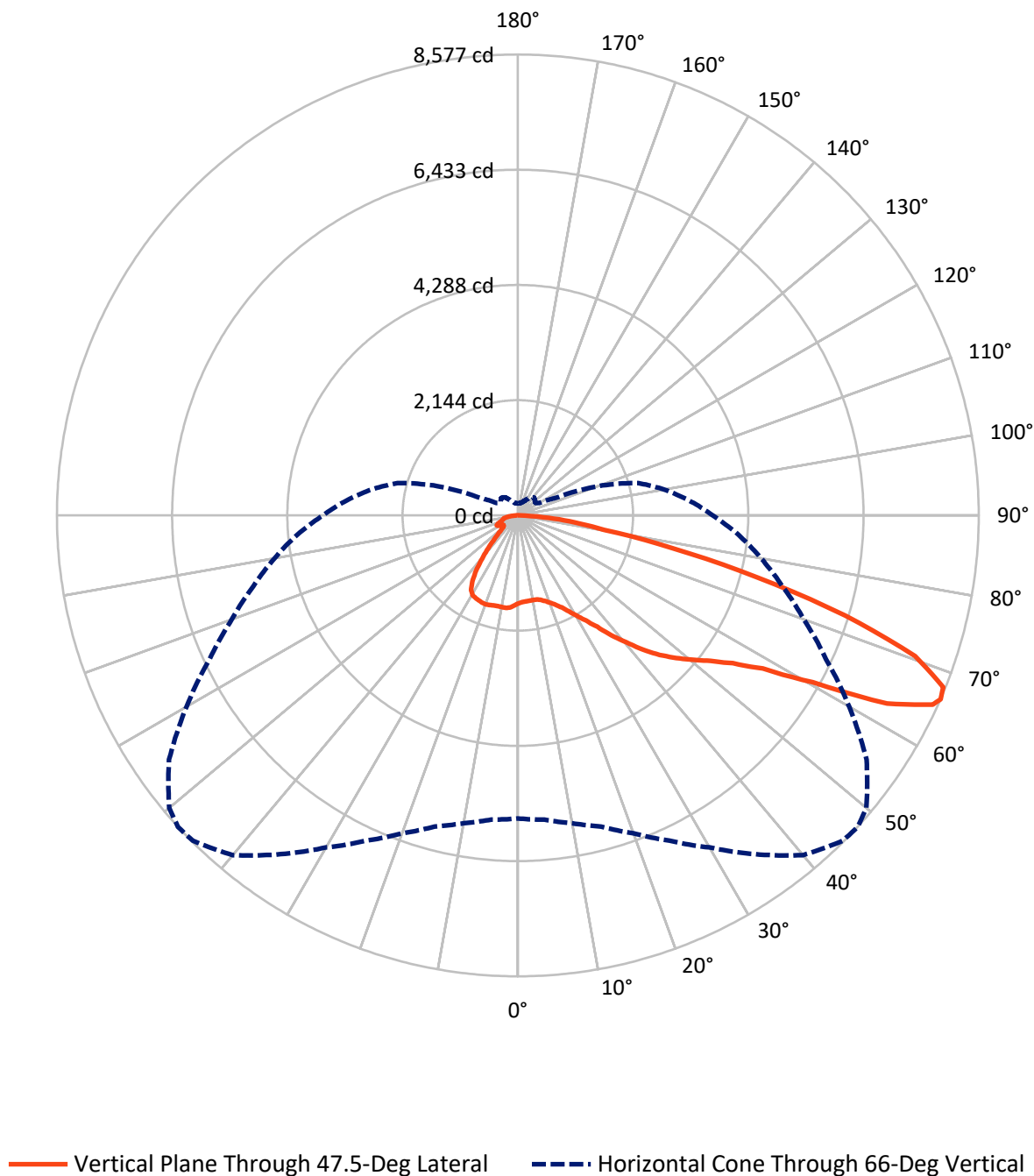


Based on 20 foot mounting height. Maximum calculated value = 4.3 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2646.7	0.0	2646.7
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	9757.1	0.0	9757.1
	% Fixture	78.7	0.0	78.7
Total	Lumens	12403.7	0.0	12403.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.8	1.3
10°-20°	482.0	3.9
20°-30°	830.3	6.7
30°-40°	1256.1	10.1
40°-50°	1628.1	13.1
50°-60°	2244.7	18.1
60°-70°	3487.4	28.1
70°-80°	2028.0	16.3
80°-90°	288.4	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°	12403.7	100.0
0°-180°	12403.7	100.0

Coefficient of Utilization



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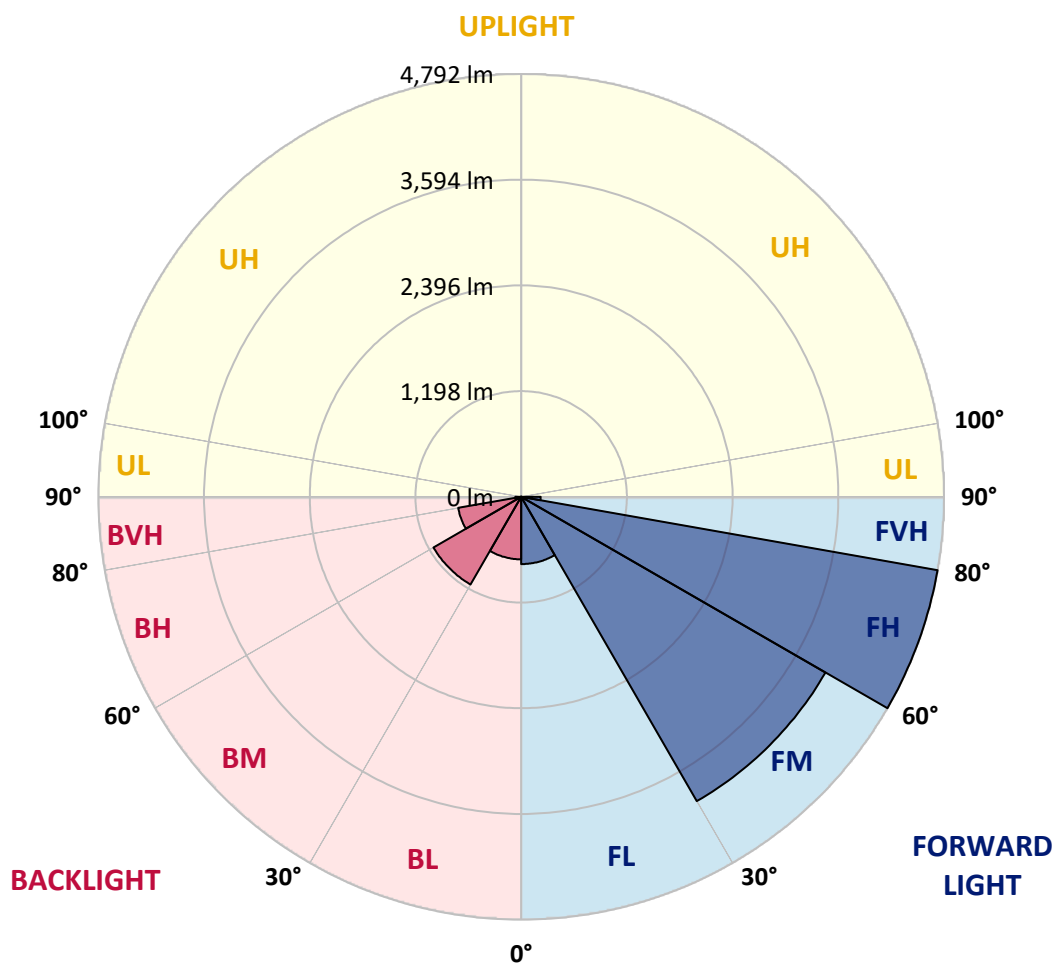
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	762.6	6.1			
FM	(30°-60°)	3981.6	32.1			
FH	(60°-80°)	4791.6	38.6			G2/5000
FVH	(80°-90°)	221.3	1.8			G2/225
BL	(0°-30°)	708.4	5.7	B2/1000		
BM	(30°-60°)	1147.3	9.2	B2/2500		
BH	(60°-80°)	723.9	5.8	B2/1000		G2/1000
BVH	(80°-90°)	67.1	0.5			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	1634.9	1634.9	1634.9	1634.9	1634.9	1634.9	1634.9	1634.9	1634.9	1634.9	1634.9
2.5°	1604.9	1610.3	1606.2	1607.6	1607.6	1608.9	1608.9	1610.3	1608.9	1613.1	1615.8
5°	1576.1	1578.9	1577.5	1580.2	1582.9	1588.4	1587.0	1593.9	1595.2	1599.4	1606.2
7.5°	1565.2	1562.4	1563.8	1567.9	1570.7	1573.4	1576.1	1581.6	1585.7	1595.2	1600.7
10°	1576.1	1574.7	1576.1	1578.9	1578.9	1580.2	1577.5	1582.9	1585.7	1593.9	1599.4
12.5°	1621.2	1621.2	1618.5	1618.5	1615.8	1613.1	1606.2	1602.1	1600.7	1602.1	1604.9
15°	1693.8	1691.0	1685.6	1681.5	1676.0	1666.4	1656.8	1648.6	1643.1	1634.9	1632.2
17.5°	1764.9	1760.8	1755.3	1749.8	1743.0	1733.5	1718.3	1708.8	1693.8	1684.1	1678.8
20°	1846.9	1838.8	1831.9	1825.1	1811.4	1808.7	1793.7	1777.2	1759.4	1737.5	1734.8
22.5°	1953.7	1940.0	1931.8	1927.7	1914.0	1909.9	1885.3	1862.1	1840.1	1811.4	1804.6
25°	2061.8	2048.1	2044.0	2038.5	2028.9	2023.5	2000.2	1974.2	1945.5	1905.8	1897.6
27.5°	2167.2	2168.5	2157.5	2161.7	2159.0	2149.3	2126.1	2100.1	2078.2	2031.7	2022.1
30°	2298.4	2290.3	2284.8	2293.0	2283.4	2284.8	2264.2	2250.6	2215.0	2187.7	2168.5
32.5°	2435.3	2433.9	2442.2	2447.6	2446.2	2443.5	2427.0	2413.4	2382.0	2342.3	2334.1
35°	2622.7	2631.0	2637.8	2662.4	2662.4	2680.2	2663.7	2647.4	2610.4	2562.5	2546.1
37.5°	2749.9	2752.7	2780.1	2812.8	2854.0	2892.2	2903.2	2907.3	2892.2	2856.7	2832.0
40°	2866.2	2871.7	2915.5	2966.1	3026.3	3101.6	3146.7	3167.3	3171.4	3154.9	3101.6
42.5°	2982.6	2990.8	3035.9	3109.7	3193.3	3289.0	3368.4	3419.0	3447.7	3447.7	3416.3
45°	3118.0	3128.9	3178.2	3258.9	3356.1	3476.5	3585.9	3683.0	3729.5	3732.3	3702.2
47.5°	3278.0	3287.7	3345.1	3427.2	3527.0	3648.8	3787.0	3897.8	3984.0	3989.5	3964.9
50°	3484.7	3498.3	3546.2	3620.1	3722.7	3845.8	3984.0	4138.7	4228.9	4250.8	4224.8
52.5°	3758.2	3761.0	3800.7	3869.1	3969.0	4086.6	4233.1	4401.3	4520.3	4538.1	4495.8
55°	4135.9	4131.8	4157.8	4231.7	4306.9	4398.5	4550.5	4739.3	4871.9	4899.3	4855.5
57.5°	4648.9	4644.9	4666.7	4684.6	4825.4	4914.4	5063.5	5244.0	5372.6	5452.0	5376.8
60°	5443.8	5439.7	5475.3	5579.3	5684.7	5814.6	5959.6	6175.8	6356.4	6379.7	6305.8
62.5°	6019.8	6040.3	6118.3	6240.1	6453.5	6708.0	6973.4	7258.0	7628.7	7746.4	7710.9
65°	5818.7	5859.8	5967.9	6152.5	6437.1	6788.7	7204.7	7720.4	8217.1	8494.8	8486.5
66°	5638.1	5683.2	5816.0	5993.8	6294.8	6679.3	7133.5	7695.8	8251.3	8557.7	8576.9
67.5°	5309.7	5360.4	5490.4	5701.0	5993.8	6402.9	6891.3	7502.9	8130.9	8488.0	8538.5
70°	4670.9	4728.3	4822.7	4996.5	5285.1	5650.5	6164.9	6712.1	7370.2	7779.3	7840.8
72.5°	3904.7	3955.3	4060.6	4202.9	4439.6	4669.4	5073.1	5476.7	5947.4	6413.9	6368.7
75°	2803.3	2825.2	2888.2	3042.7	3169.9	3376.6	3700.8	4031.9	4353.5	4566.8	4597.0
77.5°	1457.1	1514.5	1603.4	1774.5	1912.6	2098.8	2309.4	2558.4	2793.8	2989.4	2936.1
80°	953.6	978.2	1057.6	1145.2	1246.4	1365.4	1506.3	1599.4	1629.4	1617.1	1629.4
82.5°	549.9	595.1	700.5	767.6	842.8	883.8	996.0	1102.7	1162.9	1087.7	1060.3
85°	69.7	90.3	284.6	358.4	410.5	472.0	506.2	570.5	532.2	476.1	580.1
87.5°	15.0	13.7	19.2	41.0	42.4	35.5	67.0	71.2	43.7	21.9	27.4
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	1634.9	1634.9	1634.9	1634.9	1634.9	1634.9	1634.9	1634.9	1634.9	1634.9	1634.9
2.5°	1618.5	1619.9	1622.6	1626.7	1629.4	1632.2	1634.9	1639.1	1641.8	1644.5	1649.9
5°	1611.7	1617.1	1622.6	1628.1	1634.9	1645.9	1652.7	1658.1	1663.6	1674.6	1678.8
7.5°	1607.6	1617.1	1625.4	1634.9	1645.9	1655.4	1667.8	1674.6	1682.8	1689.6	1697.8
10°	1604.9	1618.5	1626.7	1640.4	1652.7	1662.3	1676.0	1684.1	1693.8	1702.0	1706.1
12.5°	1610.3	1617.1	1625.4	1639.1	1654.1	1667.8	1682.8	1689.6	1697.8	1704.7	1706.1
15°	1633.6	1633.6	1634.9	1645.9	1660.9	1671.9	1684.1	1691.0	1695.1	1699.3	1699.3
17.5°	1676.0	1666.4	1659.6	1660.9	1670.5	1677.3	1684.1	1684.1	1681.5	1680.1	1677.3
20°	1725.2	1713.0	1699.3	1689.6	1686.9	1681.5	1677.3	1663.6	1652.7	1643.1	1636.3
22.5°	1796.4	1777.2	1758.0	1740.3	1723.8	1703.3	1680.1	1652.7	1626.7	1608.9	1598.0
25°	1883.9	1868.9	1845.6	1818.2	1797.7	1759.4	1729.3	1689.6	1656.8	1633.6	1614.4
27.5°	2008.4	1990.7	1968.7	1944.1	1914.0	1871.6	1834.7	1788.2	1748.5	1714.3	1689.6
30°	2163.0	2139.8	2123.3	2093.3	2072.7	2024.9	1987.9	1930.5	1853.8	1799.1	1764.9
32.5°	2321.8	2295.8	2282.1	2258.8	2235.5	2206.8	2150.7	2061.8	1963.3	1874.4	1815.5
35°	2533.8	2506.4	2481.8	2461.2	2427.0	2373.7	2324.5	2217.7	2082.3	1957.8	1859.3
37.5°	2800.6	2755.4	2693.9	2641.9	2581.7	2505.1	2429.8	2320.4	2165.8	2004.4	1873.0
40°	3085.2	3005.8	2918.2	2821.1	2717.1	2606.3	2520.1	2409.3	2235.5	2044.0	1863.4
42.5°	3382.1	3256.2	3134.4	2997.6	2852.5	2721.2	2609.0	2487.3	2287.6	2054.9	1825.1
45°	3676.2	3535.2	3350.6	3171.4	2988.0	2825.2	2699.4	2562.5	2335.4	2059.1	1774.5
47.5°	3919.7	3774.7	3564.0	3339.6	3122.1	2937.4	2789.6	2641.9	2399.7	2087.8	1762.2
50°	4176.9	4000.4	3766.5	3501.0	3254.8	3048.2	2890.9	2737.6	2490.1	2161.7	1801.9
52.5°	4457.4	4254.9	3981.2	3684.4	3414.9	3183.6	3012.6	2855.3	2605.0	2265.6	1877.1
55°	4799.5	4551.8	4254.9	3919.7	3631.1	3375.2	3186.4	3000.3	2741.8	2388.8	1971.5
57.5°	5322.1	5018.3	4684.6	4302.8	3982.7	3680.3	3454.5	3239.8	2953.8	2572.1	2100.1
60°	6267.5	5943.2	5509.5	5047.0	4670.9	4317.8	3986.7	3720.0	3368.4	2933.3	2384.7
62.5°	7621.9	7191.0	6612.2	5965.1	5472.5	4963.6	4590.2	4193.4	3756.9	3287.7	2719.9
65°	8374.4	7851.7	7077.4	6326.3	5692.8	5140.1	4665.4	4205.7	3721.3	3272.6	2797.8
66°	8467.5	7922.9	7118.4	6327.7	5662.7	5094.9	4595.5	4119.5	3624.2	3196.0	2765.0
67.5°	8429.1	7872.3	7043.2	6208.6	5532.7	4922.6	4406.7	3912.8	3419.0	3019.5	2655.5
70°	7801.1	7273.1	6459.0	5650.5	5008.8	4406.7	3914.3	3428.6	2975.8	2633.7	2365.5
72.5°	6478.1	6026.6	5319.4	4684.6	4181.0	3684.4	3267.2	2803.3	2420.2	2167.2	2008.4
75°	4676.3	4402.7	3758.2	3394.4	2952.4	2622.7	2217.7	1942.8	1667.8	1544.7	1517.3
77.5°	2953.8	2585.8	2176.7	1792.2	1473.5	1221.8	950.9	807.3	673.2	659.5	796.3
80°	1495.3	1346.2	1037.1	826.3	695.0	562.3	444.7	336.6	235.3	283.2	339.3
82.5°	979.6	816.8	640.3	526.7	458.3	380.3	295.5	205.2	150.5	169.6	232.5
85°	529.4	451.5	363.9	287.4	232.5	208.0	139.6	98.5	97.1	103.9	132.7
87.5°	38.3	38.3	30.1	27.4	32.8	27.4	24.7	24.7	23.2	24.7	32.8
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°	1634.9	1634.9	1634.9	1634.9	1634.9	1634.9	1634.9	1634.9	1634.9	1634.9	1634.9
2.5°	1652.7	1656.8	1658.1	1665.1	1669.1	1671.9	1674.6	1674.6	1676.0	1680.1	1681.5
5°	1684.1	1691.0	1699.3	1704.7	1707.5	1715.6	1718.3	1718.3	1721.1	1726.6	1730.7
7.5°	1703.3	1713.0	1721.1	1723.8	1729.3	1732.0	1736.2	1738.9	1738.9	1744.4	1747.2
10°	1710.2	1715.6	1723.8	1723.8	1729.3	1729.3	1733.5	1734.8	1734.8	1740.3	1744.4
12.5°	1710.2	1713.0	1719.8	1719.8	1723.8	1725.2	1730.7	1734.8	1736.2	1743.0	1748.5
15°	1702.0	1704.7	1710.2	1711.5	1721.1	1726.6	1738.9	1747.2	1747.2	1754.0	1756.7
17.5°	1678.8	1685.6	1696.5	1707.5	1725.2	1737.5	1752.5	1759.4	1754.0	1749.8	1745.7
20°	1640.4	1652.7	1678.8	1706.1	1737.5	1754.0	1762.2	1755.3	1736.2	1717.0	1704.7
22.5°	1602.1	1626.7	1670.5	1711.5	1747.2	1758.0	1754.0	1729.3	1697.8	1674.6	1658.1
25°	1619.9	1648.6	1691.0	1728.0	1751.2	1748.5	1732.0	1697.8	1663.6	1633.6	1606.2
27.5°	1693.8	1725.2	1748.5	1760.8	1758.0	1738.9	1713.0	1674.6	1633.6	1593.9	1555.5
30°	1763.5	1780.0	1785.4	1775.9	1754.0	1722.5	1689.6	1645.9	1591.2	1541.9	1498.1
32.5°	1795.0	1778.5	1752.5	1726.6	1691.0	1663.6	1618.5	1570.7	1502.2	1443.4	1399.6
35°	1795.0	1729.3	1663.6	1608.9	1555.5	1521.3	1469.4	1405.1	1342.2	1292.8	1258.7
37.5°	1755.3	1629.4	1521.3	1432.4	1365.4	1328.5	1250.5	1193.1	1139.7	1123.2	1101.3
40°	1682.8	1496.8	1340.8	1224.5	1139.7	1085.0	1006.9	967.3	946.7	938.5	934.4
42.5°	1585.7	1349.0	1141.0	997.4	905.7	844.1	792.1	767.6	766.1	764.8	764.8
45°	1481.7	1190.3	946.7	775.8	695.0	640.3	615.6	606.1	614.3	613.0	614.3
47.5°	1417.4	1069.8	768.9	586.9	525.4	489.8	477.5	481.6	488.4	485.7	485.7
50°	1409.2	1008.3	649.8	457.0	410.5	392.6	389.9	389.9	394.0	391.3	389.9
52.5°	1439.3	998.8	588.3	392.6	355.8	340.6	337.9	336.6	335.2	326.9	320.1
55°	1491.3	1020.6	570.5	376.3	337.9	321.6	317.4	314.7	309.2	298.2	285.9
57.5°	1595.2	1089.0	586.9	384.5	343.4	329.7	325.6	325.6	314.7	296.9	279.1
60°	1845.6	1262.8	654.0	416.0	369.4	355.8	358.4	357.1	340.6	314.7	287.4
62.5°	2168.5	1489.9	741.6	459.7	402.3	399.5	413.2	410.5	383.1	343.4	303.7
65°	2317.6	1596.6	766.1	469.2	409.1	421.3	448.7	446.0	411.8	357.1	306.4
66°	2320.4	1596.6	755.2	461.0	399.5	414.5	441.9	440.5	406.3	351.6	301.0
67.5°	2264.2	1552.8	723.7	444.7	380.3	391.3	416.0	414.5	383.1	337.9	290.1
70°	2053.6	1390.1	643.0	416.0	354.3	348.9	357.1	351.6	331.1	299.6	266.7
72.5°	1759.4	1167.0	560.9	394.0	336.6	314.7	309.2	305.1	288.7	270.9	250.4
75°	1385.9	923.5	492.5	377.6	320.1	291.4	281.9	276.4	265.4	253.1	236.7
77.5°	855.1	660.8	429.6	355.8	307.9	279.1	272.2	264.0	247.7	232.5	220.3
80°	381.8	409.1	353.0	310.6	275.0	249.0	238.0	225.7	209.3	199.8	193.0
82.5°	254.5	264.0	255.9	232.5	208.0	187.5	171.0	171.0	168.3	160.1	157.3
85°	162.8	164.1	158.7	143.6	134.1	121.8	114.9	116.3	121.8	120.4	119.1
87.5°	36.9	36.9	43.7	41.0	47.9	50.6	54.7	58.9	67.0	67.0	71.2
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°	1634.9	1634.9	1634.9	1634.9	1634.9
2.5°	1682.8	1685.6	1688.3	1684.1	1685.6
5°	1730.7	1729.3	1736.2	1732.0	1734.8
7.5°	1745.7	1747.2	1752.5	1752.5	1754.0
10°	1747.2	1749.8	1756.7	1760.8	1763.5
12.5°	1754.0	1759.4	1770.4	1773.2	1773.2
15°	1759.4	1762.2	1769.0	1771.7	1774.5
17.5°	1740.3	1734.8	1737.5	1738.9	1737.5
20°	1692.4	1686.9	1685.6	1680.1	1682.8
22.5°	1640.4	1625.4	1615.8	1604.9	1604.9
25°	1577.5	1554.2	1535.0	1515.9	1520.0
27.5°	1518.7	1488.5	1469.4	1457.1	1454.3
30°	1461.1	1429.7	1411.9	1396.9	1396.9
32.5°	1365.4	1343.5	1320.2	1310.7	1309.3
35°	1232.7	1219.0	1199.9	1195.8	1188.9
37.5°	1083.5	1079.5	1063.0	1061.7	1054.8
40°	927.6	930.4	924.9	922.2	918.0
42.5°	771.6	785.3	782.6	781.2	778.4
45°	622.5	632.1	633.5	637.5	644.4
47.5°	489.8	492.5	495.2	493.9	495.2
50°	383.1	376.3	374.9	370.8	374.9
52.5°	309.2	298.2	292.7	287.4	284.6
55°	272.2	261.3	255.9	253.1	250.4
57.5°	262.7	251.7	243.5	238.0	236.7
60°	265.4	249.0	238.0	231.2	229.8
62.5°	272.2	250.4	235.3	228.5	227.2
65°	270.9	247.7	234.0	225.7	224.4
66°	266.7	244.9	231.2	224.4	223.0
67.5°	259.9	240.8	228.5	223.0	220.3
70°	247.7	235.3	225.7	218.9	216.2
72.5°	236.7	227.2	218.9	212.0	210.7
75°	224.4	216.2	208.0	202.5	201.1
77.5°	209.3	201.1	195.6	191.5	190.2
80°	184.7	179.3	173.8	168.3	168.3
82.5°	153.3	149.1	143.6	139.6	138.1
85°	117.6	117.6	113.6	109.4	108.1
87.5°	69.7	68.4	68.4	64.4	64.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)