

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: P155450

Luminaire Tested: **VXS-E05-LED-E1-T3**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P155450
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: VXS-E05-LED-E1-T3
Description: VISION SITE SMALL LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 3
Light Source: (105) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15419.6 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 127.3
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

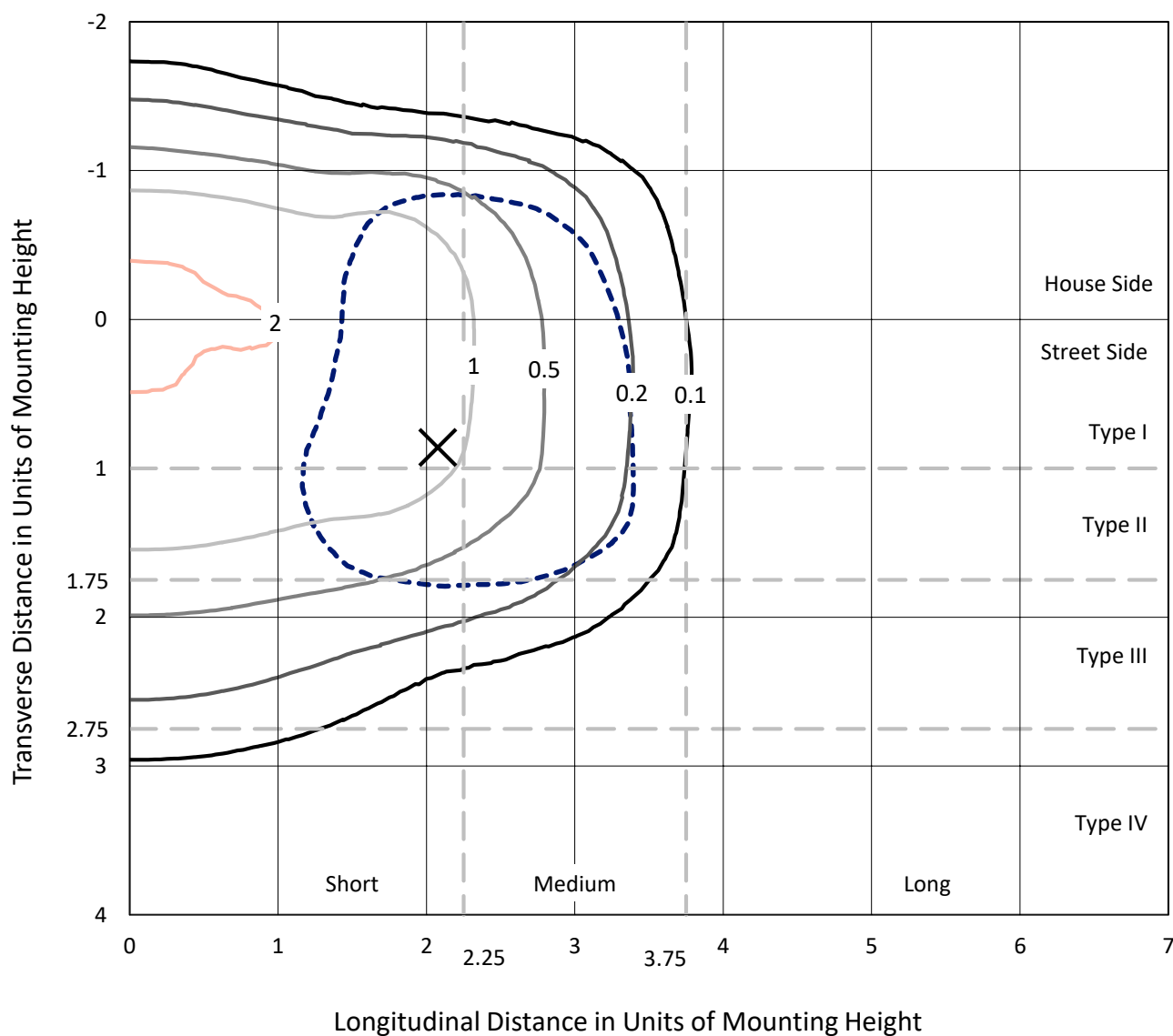


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

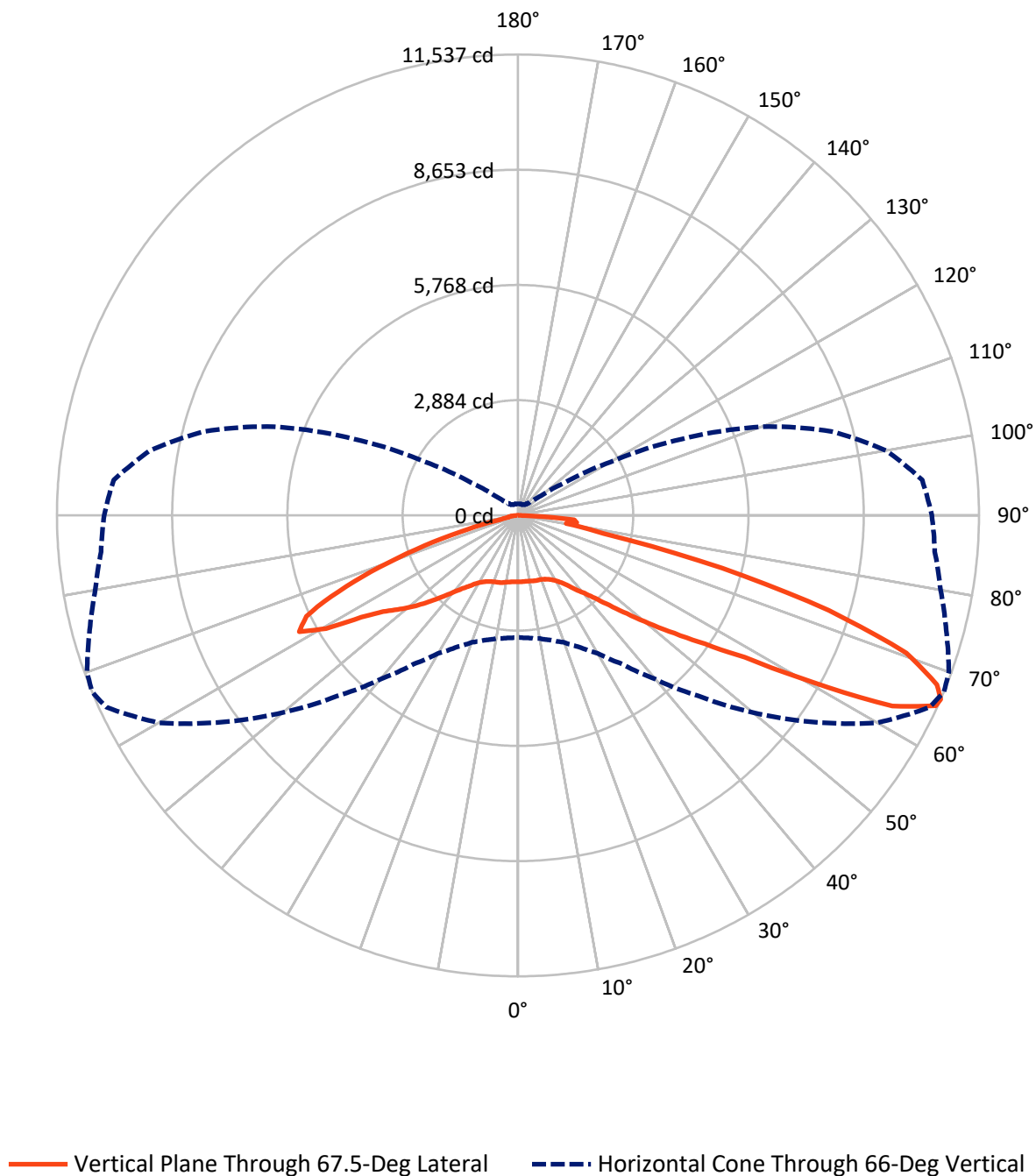


Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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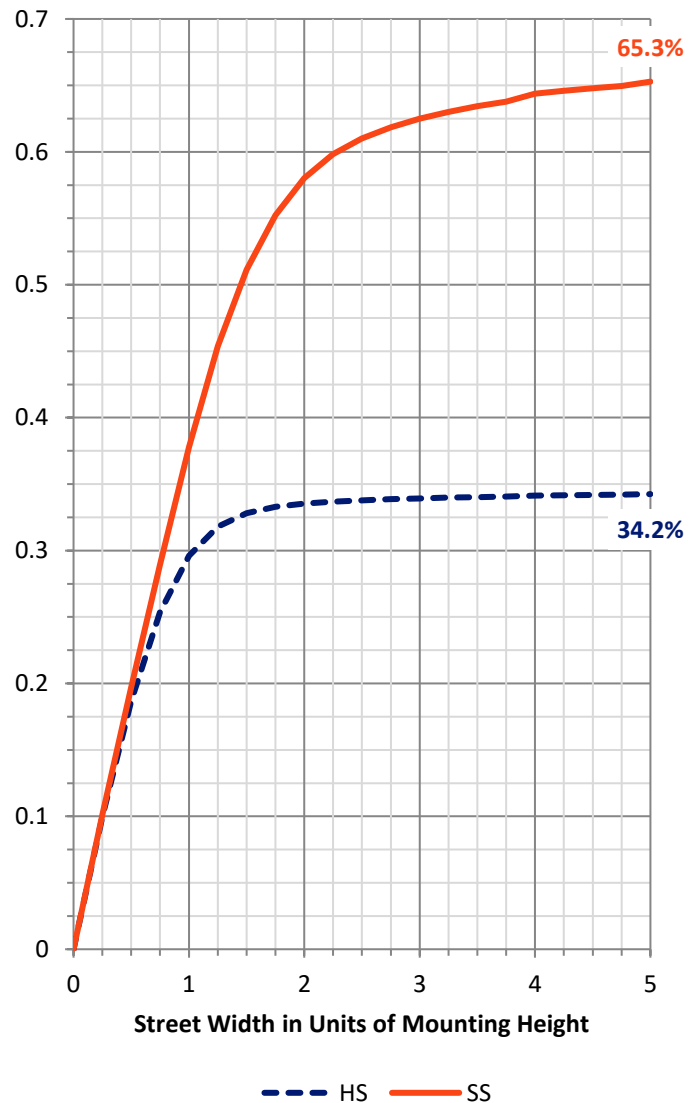
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5324.9	0.0	5324.9
	% Fixture	34.5	0.0	34.5
Street Side	Lumens	10094.7	0.0	10094.7
	% Fixture	65.5	0.0	65.5
Total	Lumens	15419.6	0.0	15419.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.2	1.0
10°-20°	469.7	3.0
20°-30°	807.3	5.2
30°-40°	1310.8	8.5
40°-50°	2188.3	14.2
50°-60°	3445.8	22.3
60°-70°	4698.7	30.5
70°-80°	2034.0	13.2
80°-90°	305.8	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°	15419.6	100.0
0°-180°	15419.6	100.0

Coefficient of Utilization



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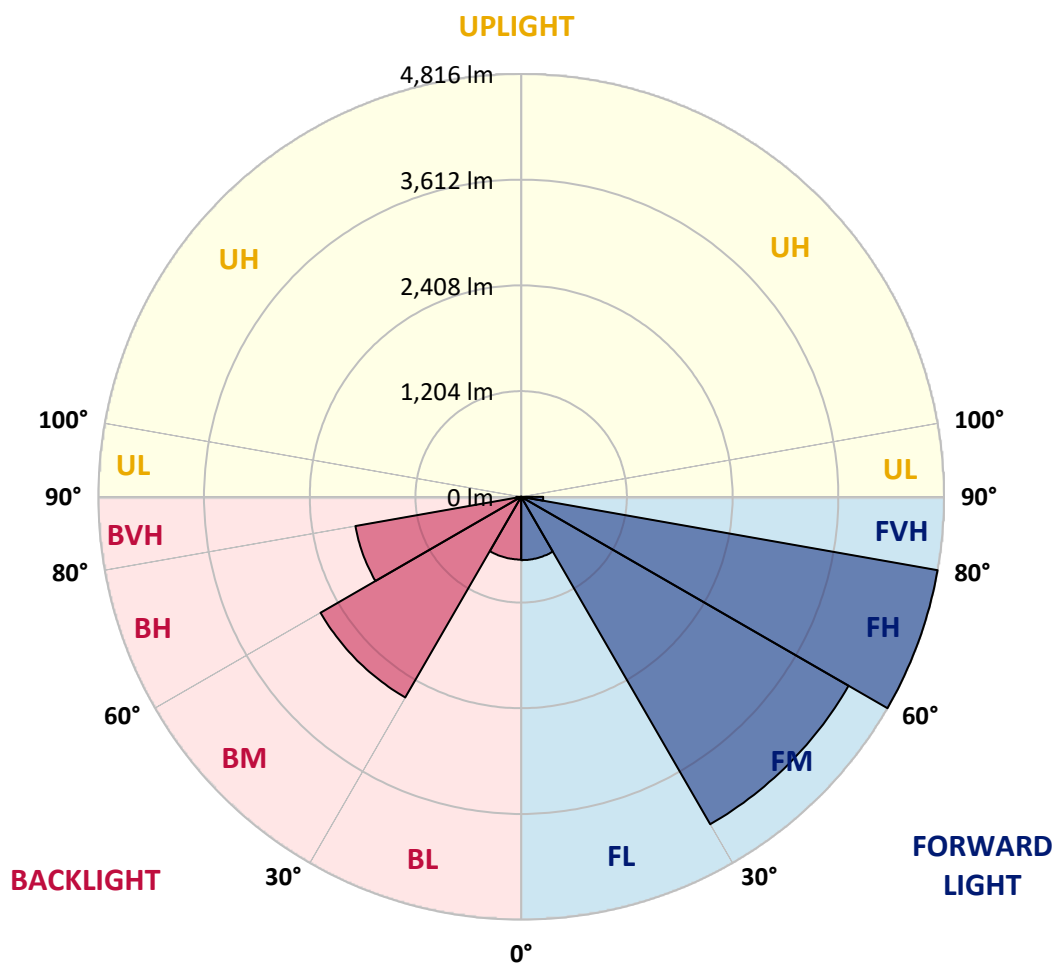
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	721.4	4.7			
FM	(30°-60°)	4306.2	27.9			
FH	(60°-80°)	4816.1	31.2			G2/5000
FVH	(80°-90°)	251.1	1.6			G3/500
BL	(0°-30°)	714.8	4.6	B2/1000		
BM	(30°-60°)	2638.7	17.1	B3/5000		
BH	(60°-80°)	1916.7	12.4	B3/2500		G3/2500
BVH	(80°-90°)	54.7	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1661.7	1661.7	1661.7	1661.7	1661.7	1661.7	1661.7	1661.7	1661.7	1661.7	1661.7
2.5°	1668.3	1675.0	1668.3	1670.1	1671.7	1670.1	1668.3	1668.3	1663.3	1666.6	1670.1
5°	1661.7	1666.6	1665.0	1666.6	1668.3	1666.6	1665.0	1666.6	1663.3	1665.0	1670.1
7.5°	1653.4	1651.7	1653.4	1656.7	1660.0	1660.0	1660.0	1661.7	1660.0	1660.0	1665.0
10°	1628.3	1630.1	1633.4	1638.3	1640.0	1645.0	1645.0	1649.9	1651.7	1655.0	1661.7
12.5°	1596.7	1598.3	1601.7	1605.0	1613.4	1621.7	1621.7	1633.4	1638.3	1646.6	1658.3
15°	1573.4	1575.0	1578.3	1581.7	1588.3	1596.7	1601.7	1615.0	1623.3	1638.3	1655.0
17.5°	1586.6	1585.0	1588.3	1590.1	1590.1	1596.7	1596.7	1606.6	1616.7	1630.1	1651.7
20°	1625.0	1625.0	1628.3	1628.3	1626.6	1630.1	1623.3	1623.3	1625.0	1631.7	1646.6
22.5°	1663.3	1661.7	1668.3	1671.7	1673.4	1678.3	1671.7	1670.1	1661.7	1656.7	1661.7
25°	1700.0	1698.3	1706.6	1711.7	1720.0	1725.0	1725.0	1725.0	1718.3	1710.1	1705.0
27.5°	1756.7	1756.7	1765.0	1769.9	1776.7	1786.6	1791.7	1791.7	1793.4	1781.7	1773.4
30°	1851.7	1853.4	1855.0	1861.7	1868.3	1871.7	1878.3	1883.3	1888.3	1881.7	1868.3
32.5°	1965.0	1955.0	1955.0	1965.0	1973.4	1983.3	1986.6	1993.4	2003.3	1998.3	1996.7
35°	2100.0	2096.7	2093.4	2096.7	2106.6	2118.3	2131.7	2143.3	2136.7	2146.6	2141.7
37.5°	2300.0	2303.3	2305.0	2305.0	2303.3	2306.6	2313.4	2325.0	2321.7	2325.0	2331.7
40°	2630.1	2618.3	2606.6	2608.3	2591.7	2595.0	2568.3	2580.0	2581.7	2569.9	2575.0
42.5°	2960.0	2966.6	2971.7	2985.0	2973.4	2966.6	2941.7	2941.7	2928.3	2916.7	2913.4
45°	3316.7	3330.1	3331.7	3358.3	3348.3	3369.9	3388.3	3383.3	3361.7	3360.0	3336.7
47.5°	3601.7	3623.3	3646.6	3678.3	3703.3	3751.7	3808.3	3836.7	3853.4	3866.6	3840.0
50°	3815.0	3825.0	3885.0	3935.0	3990.1	4070.1	4148.3	4249.9	4331.7	4369.9	4406.6
52.5°	3929.9	3955.0	4020.0	4098.3	4195.0	4315.0	4441.7	4603.3	4743.3	4836.7	4920.0
55°	3955.0	3980.0	4053.4	4153.4	4285.0	4446.6	4628.3	4848.3	5058.3	5238.3	5413.4
57.5°	3885.0	3913.4	3991.7	4106.6	4261.7	4458.3	4686.6	4975.0	5265.0	5556.7	5815.0
60°	3756.7	3791.7	3863.3	3976.7	4148.3	4369.9	4643.3	5005.0	5411.7	5858.3	6353.4
62.5°	3545.0	3581.7	3648.3	3773.4	3950.1	4195.0	4511.7	4961.7	5536.7	6240.0	7118.3
65°	3205.0	3221.7	3303.3	3430.1	3586.6	3856.7	4205.0	4748.3	5496.7	6475.0	7685.0
66°	3051.7	3080.0	3130.1	3231.7	3381.7	3635.0	3985.0	4536.7	5345.0	6393.4	7670.1
67.5°	2811.7	2833.4	2866.6	2935.0	3026.6	3213.4	3545.0	4066.6	4881.7	5980.0	7351.7
70°	2273.4	2283.3	2328.3	2351.7	2383.3	2445.0	2565.0	2865.0	3500.0	4531.7	5933.4
72.5°	1550.1	1578.3	1626.6	1693.4	1780.0	1863.3	1920.0	1958.3	2095.0	2703.3	3953.4
75°	1136.7	1166.6	1228.3	1316.7	1468.3	1641.7	1821.7	1905.0	1848.3	1769.9	2201.7
77.5°	660.0	700.0	751.7	836.7	976.7	1206.6	1515.0	1788.3	1973.4	1985.0	1885.0
80°	278.3	283.3	315.0	358.3	445.0	606.6	846.6	1240.0	1649.9	1926.6	1991.7
82.5°	63.3	78.3	100.0	118.3	145.0	200.0	296.7	493.4	891.7	1398.3	1823.3
85°	23.3	23.3	31.7	46.6	53.4	60.0	78.3	125.0	213.4	393.4	820.0
87.5°	0.0	1.7	3.3	3.3	6.6	8.3	13.4	18.3	16.7	15.0	49.9
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):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	1661.7	1661.7	1661.7	1661.7	1661.7	1661.7	1661.7	1661.7	1661.7	1661.7	1661.7
2.5°	1666.6	1665.0	1661.7	1661.7	1661.7	1661.7	1658.3	1660.0	1656.7	1658.3	1658.3
5°	1665.0	1665.0	1663.3	1660.0	1661.7	1661.7	1663.3	1660.0	1660.0	1661.7	1660.0
7.5°	1665.0	1663.3	1663.3	1663.3	1665.0	1663.3	1665.0	1665.0	1665.0	1666.6	1666.6
10°	1665.0	1665.0	1668.3	1670.1	1670.1	1671.7	1676.7	1676.7	1678.3	1680.0	1683.3
12.5°	1666.6	1673.4	1678.3	1683.3	1685.0	1688.3	1696.7	1696.7	1700.0	1705.0	1706.6
15°	1668.3	1678.3	1688.3	1691.7	1695.0	1701.7	1710.1	1713.4	1718.3	1723.3	1726.6
17.5°	1666.6	1680.0	1691.7	1696.7	1701.7	1710.1	1720.0	1723.3	1729.9	1736.7	1743.3
20°	1665.0	1683.3	1701.7	1708.3	1715.0	1726.6	1740.0	1748.3	1755.0	1765.0	1771.7
22.5°	1675.0	1696.7	1721.7	1731.7	1743.3	1758.3	1776.7	1786.6	1795.0	1805.0	1809.9
25°	1706.6	1723.3	1753.4	1769.9	1785.0	1809.9	1835.0	1846.6	1856.7	1865.0	1866.6
27.5°	1760.0	1765.0	1801.7	1823.3	1845.0	1885.0	1915.0	1923.3	1941.7	1948.3	1946.6
30°	1846.6	1838.3	1868.3	1901.7	1933.4	1988.3	2025.0	2046.6	2063.3	2063.3	2049.9
32.5°	1971.7	1958.3	1966.6	2005.0	2041.7	2121.7	2165.0	2193.4	2205.0	2201.7	2173.4
35°	2135.0	2126.6	2121.7	2151.7	2209.9	2303.3	2360.0	2375.0	2393.4	2390.1	2353.4
37.5°	2328.3	2321.7	2321.7	2356.7	2413.4	2551.7	2613.4	2623.3	2621.7	2595.0	2526.6
40°	2556.7	2553.4	2538.3	2558.3	2606.6	2786.6	2870.1	2883.3	2865.0	2821.7	2741.7
42.5°	2885.0	2865.0	2818.3	2830.1	2866.6	3041.7	3150.1	3186.6	3168.3	3125.0	2995.0
45°	3313.4	3291.7	3213.4	3203.3	3223.3	3376.7	3516.7	3525.0	3521.7	3466.6	3313.4
47.5°	3816.7	3783.3	3700.0	3673.4	3666.6	3808.3	3943.3	3956.7	3948.3	3866.6	3661.7
50°	4361.7	4313.4	4258.3	4240.0	4213.4	4315.0	4451.7	4453.4	4420.0	4306.6	4115.0
52.5°	4943.3	4926.6	4916.7	4898.3	4886.6	4975.0	5058.3	5008.3	4958.3	4840.0	4673.4
55°	5529.9	5598.3	5668.3	5675.0	5695.0	5790.1	5788.3	5651.7	5615.0	5550.1	5385.0
57.5°	6153.4	6406.6	6626.6	6695.0	6761.7	6938.3	6921.7	6786.6	6740.0	6660.0	6523.3
60°	7001.7	7685.0	8320.0	8471.7	8576.7	8788.3	8768.3	8560.0	8656.7	8649.9	8473.4
62.5°	8190.1	9326.6	10278.3	10511.7	10585.0	10608.3	10481.7	10256.7	10351.7	10458.3	9915.0
65°	8995.0	10331.7	11308.3	11488.3	11498.3	11220.0	10938.3	10673.4	10649.9	10558.3	9781.7
66°	9013.4	10381.7	11361.7	11536.7	11475.0	11095.0	10738.3	10471.7	10356.7	10155.0	9350.1
67.5°	8689.9	10070.1	11125.0	11310.1	11175.0	10636.7	10145.0	9801.7	9576.7	9249.9	8540.0
70°	7298.3	8666.6	9966.6	10311.7	10355.0	9551.7	8870.1	8466.6	8163.3	7715.0	7103.3
72.5°	5426.6	6663.3	7809.9	8140.0	8308.3	7666.6	7091.7	6785.0	6369.9	5898.3	5463.3
75°	3401.7	4275.0	5043.3	5275.0	5116.7	4620.0	4275.0	4146.6	3738.3	3456.7	3258.3
77.5°	1945.0	2218.3	2280.0	2191.7	2005.0	1535.0	1091.7	808.3	701.7	776.7	856.7
80°	1898.3	1740.0	1386.6	1220.0	1105.0	760.0	446.6	306.6	255.0	261.7	283.3
82.5°	2056.7	2206.6	1816.7	1481.7	1243.3	840.0	463.3	246.6	166.6	196.7	221.7
85°	1336.7	1860.0	1675.0	1411.7	1143.3	718.3	381.7	128.3	85.0	111.7	153.4
87.5°	135.0	148.3	126.6	171.7	128.3	60.0	30.1	18.3	16.7	20.0	30.1
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°	1661.7	1661.7	1661.7	1661.7	1661.7	1661.7	1661.7	1661.7	1661.7	1661.7	1661.7
2.5°	1660.0	1660.0	1661.7	1663.3	1665.0	1666.6	1666.6	1666.6	1666.6	1670.1	1668.3
5°	1663.3	1666.6	1670.1	1671.7	1675.0	1675.0	1680.0	1678.3	1678.3	1683.3	1685.0
7.5°	1670.1	1675.0	1681.7	1680.0	1686.6	1685.0	1688.3	1688.3	1683.3	1685.0	1681.7
10°	1685.0	1691.7	1695.0	1690.1	1691.7	1685.0	1683.3	1675.0	1665.0	1660.0	1653.4
12.5°	1710.1	1716.7	1716.7	1708.3	1698.3	1683.3	1671.7	1653.4	1638.3	1630.1	1621.7
15°	1731.7	1738.3	1736.7	1723.3	1708.3	1685.0	1668.3	1646.6	1625.0	1611.7	1603.3
17.5°	1748.3	1751.7	1746.6	1728.3	1711.7	1690.1	1673.4	1649.9	1625.0	1608.3	1593.4
20°	1773.4	1769.9	1758.3	1735.0	1716.7	1696.7	1683.3	1663.3	1635.0	1613.4	1591.7
22.5°	1809.9	1796.7	1775.0	1750.1	1731.7	1713.4	1700.0	1678.3	1649.9	1623.3	1598.3
25°	1858.3	1831.7	1801.7	1775.0	1758.3	1738.3	1723.3	1700.0	1670.1	1640.0	1609.9
27.5°	1928.3	1881.7	1843.3	1820.0	1801.7	1776.7	1758.3	1728.3	1696.7	1661.7	1628.3
30°	2006.6	1943.3	1906.6	1888.3	1868.3	1841.7	1813.4	1775.0	1738.3	1700.0	1660.0
32.5°	2108.3	2031.7	1996.7	1978.3	1951.7	1918.3	1885.0	1841.7	1790.1	1740.0	1691.7
35°	2241.7	2163.3	2126.6	2098.3	2061.7	2018.3	1969.9	1911.7	1841.7	1775.0	1713.4
37.5°	2385.0	2300.0	2265.0	2235.0	2180.0	2123.3	2055.0	1969.9	1875.0	1786.6	1710.1
40°	2566.6	2488.3	2443.3	2391.7	2326.6	2228.3	2121.7	1998.3	1876.7	1768.3	1678.3
42.5°	2796.7	2718.3	2651.7	2569.9	2456.7	2305.0	2153.4	1993.4	1846.6	1723.3	1626.6
45°	3101.7	3006.6	2891.7	2748.3	2565.0	2353.4	2155.0	1961.7	1790.1	1653.4	1550.1
47.5°	3475.0	3330.1	3141.7	2900.0	2636.7	2366.6	2128.3	1898.3	1701.7	1553.4	1438.3
50°	3918.3	3689.9	3380.0	3025.0	2673.4	2346.6	2061.7	1803.3	1576.7	1418.3	1281.7
52.5°	4425.0	4051.7	3595.0	3115.0	2671.7	2280.0	1948.3	1660.0	1413.4	1236.7	1106.6
55°	5020.0	4465.0	3816.7	3181.7	2625.0	2156.7	1775.0	1458.3	1211.7	1048.3	928.3
57.5°	5891.7	5135.0	4203.3	3285.0	2531.7	1966.6	1540.0	1216.7	1000.0	845.0	743.3
60°	7485.0	6253.4	4900.0	3493.4	2388.3	1688.3	1265.0	958.3	776.7	651.7	583.3
62.5°	8685.0	7118.3	5276.7	3446.6	2100.0	1345.0	938.3	698.3	571.7	486.6	443.3
65°	8513.4	6849.9	4875.0	2968.3	1646.6	948.3	623.3	475.0	393.4	353.4	328.3
66°	8125.0	6500.0	4526.6	2671.7	1423.3	788.3	513.4	398.3	338.3	310.1	293.4
67.5°	7388.3	5849.9	3903.3	2190.1	1093.4	571.7	386.6	315.0	275.0	263.3	251.7
70°	6141.7	4665.0	2740.0	1275.0	558.3	318.3	245.0	220.0	209.9	208.3	205.0
72.5°	4706.6	3301.7	1613.4	603.3	289.9	211.7	190.1	181.7	178.3	178.3	180.0
75°	2885.0	1855.0	713.4	295.0	203.3	178.3	168.3	165.0	163.3	165.0	163.3
77.5°	963.3	590.1	305.0	223.3	185.0	165.0	158.3	155.0	155.0	155.0	155.0
80°	295.0	256.7	233.4	206.6	175.0	156.7	146.6	145.0	146.6	148.3	143.3
82.5°	221.7	209.9	196.7	183.3	158.3	140.0	136.7	136.7	136.7	131.7	125.0
85°	163.3	161.7	133.4	125.0	116.7	116.7	116.7	116.7	111.7	103.3	96.7
87.5°	30.1	28.3	30.1	31.7	46.6	49.9	49.9	53.4	58.3	55.0	55.0
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):

	160°	165°	170°	175°	180°
0°	1661.7	1661.7	1661.7	1661.7	1661.7
2.5°	1668.3	1666.6	1671.7	1668.3	1670.1
5°	1683.3	1681.7	1685.0	1681.7	1686.6
7.5°	1678.3	1675.0	1673.4	1675.0	1676.7
10°	1643.3	1640.0	1638.3	1636.7	1638.3
12.5°	1613.4	1606.6	1606.6	1603.3	1605.0
15°	1591.7	1586.6	1585.0	1581.7	1583.3
17.5°	1581.7	1573.4	1569.9	1566.6	1566.6
20°	1575.0	1565.0	1560.0	1556.7	1555.0
22.5°	1575.0	1560.0	1553.4	1550.1	1548.3
25°	1581.7	1563.3	1553.4	1548.3	1546.6
27.5°	1595.0	1571.7	1560.0	1553.4	1553.4
30°	1618.3	1588.3	1571.7	1563.3	1561.7
32.5°	1641.7	1601.7	1578.3	1568.3	1565.0
35°	1653.4	1601.7	1573.4	1556.7	1553.4
37.5°	1640.0	1580.0	1545.0	1520.0	1515.0
40°	1598.3	1535.0	1496.7	1473.4	1470.1
42.5°	1543.3	1481.7	1436.7	1420.0	1415.0
45°	1468.3	1395.0	1350.1	1326.6	1328.3
47.5°	1340.0	1265.0	1225.0	1203.3	1206.6
50°	1188.3	1115.0	1080.0	1056.7	1061.7
52.5°	1021.7	955.0	921.7	910.1	906.6
55°	846.6	795.0	771.7	758.3	753.4
57.5°	686.6	649.9	633.4	616.7	618.3
60°	541.7	523.3	518.3	500.0	498.3
62.5°	426.6	415.0	410.1	396.7	398.3
65°	323.3	320.0	323.3	315.0	318.3
66°	291.7	293.4	293.4	288.3	291.7
67.5°	251.7	255.0	260.0	255.0	258.3
70°	208.3	211.7	215.0	215.0	215.0
72.5°	181.7	185.0	186.6	186.6	186.6
75°	166.6	168.3	169.9	166.6	166.6
77.5°	156.7	156.7	153.4	151.7	150.1
80°	141.7	140.0	135.0	131.7	131.7
82.5°	118.3	115.0	111.7	106.6	106.6
85°	90.1	86.6	83.3	76.7	73.4
87.5°	46.6	48.3	46.6	38.3	33.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)