

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: STREETWORKS

Report Number: P159558

Luminaire Tested: **VST-E06-LED-E-U-T3-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159558
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33706)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-E06-LED-E-U-T3-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 AREA
Light Source: (126) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15487.4 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 150.5
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: 28.75 FT

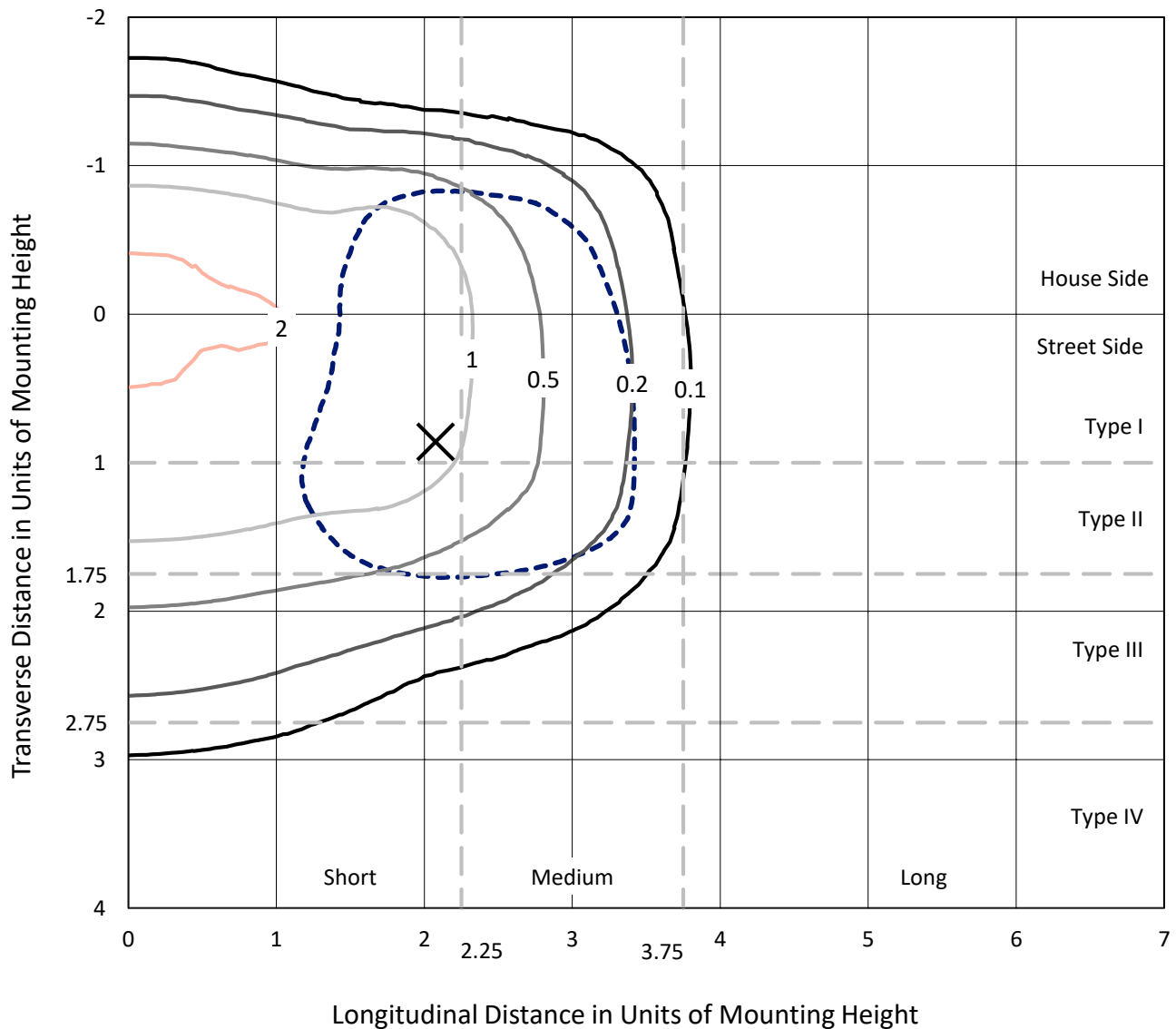


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

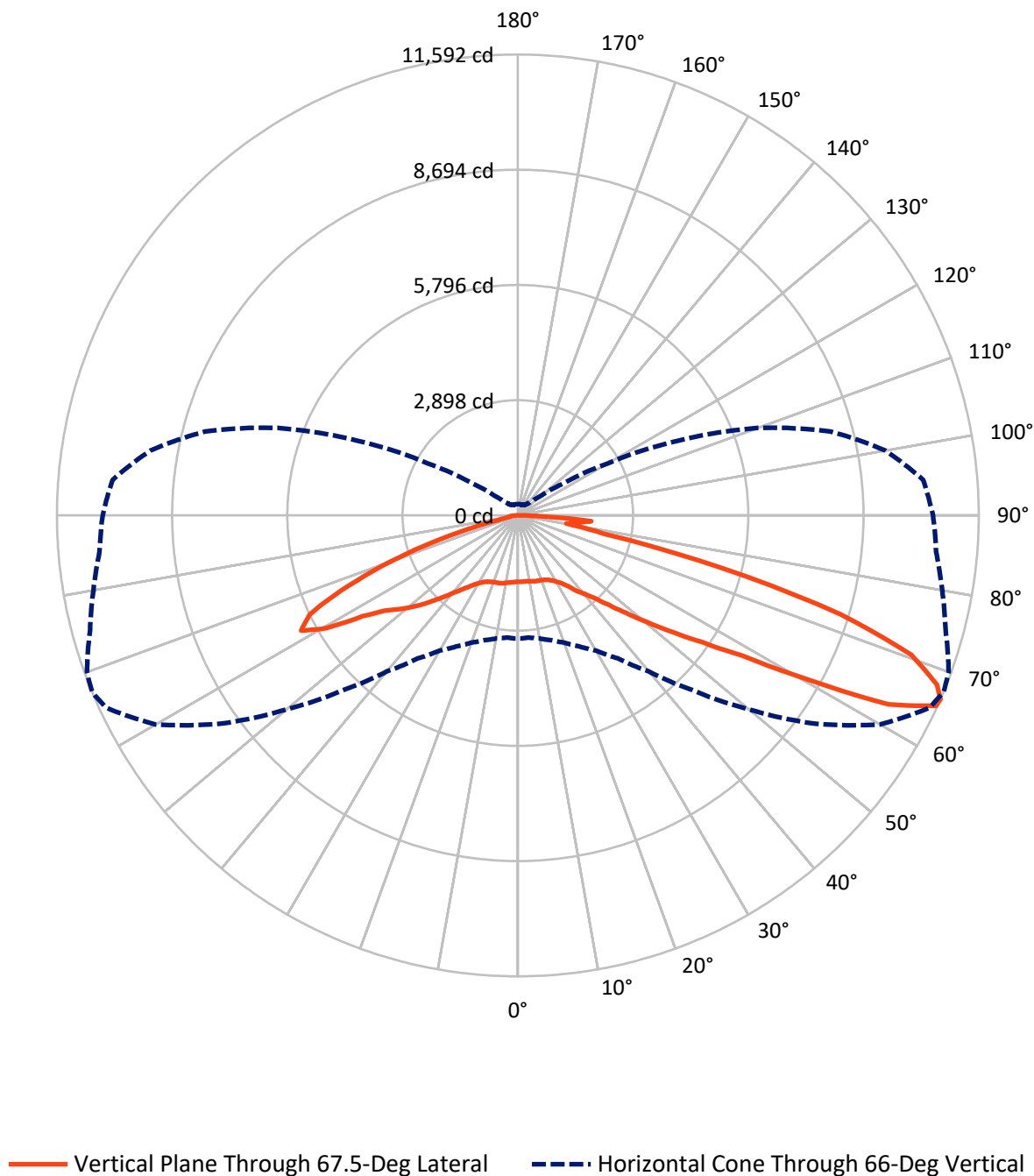


Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5359.3	0.0	5359.3
	% Fixture	34.6	0.0	34.6
Street Side	Lumens	10128.1	0.0	10128.1
	% Fixture	65.4	0.0	65.4
Total	Lumens	15487.4	0.0	15487.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.4	1.0
10°-20°	474.8	3.1
20°-30°	816.3	5.3
30°-40°	1319.2	8.5
40°-50°	2186.3	14.1
50°-60°	3431.1	22.2
60°-70°	4691.1	30.3
70°-80°	2062.9	13.3
80°-90°	345.3	2.2
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°	15487.4	100.0
0°-180°	15487.4	100.0

Coefficient of Utilization



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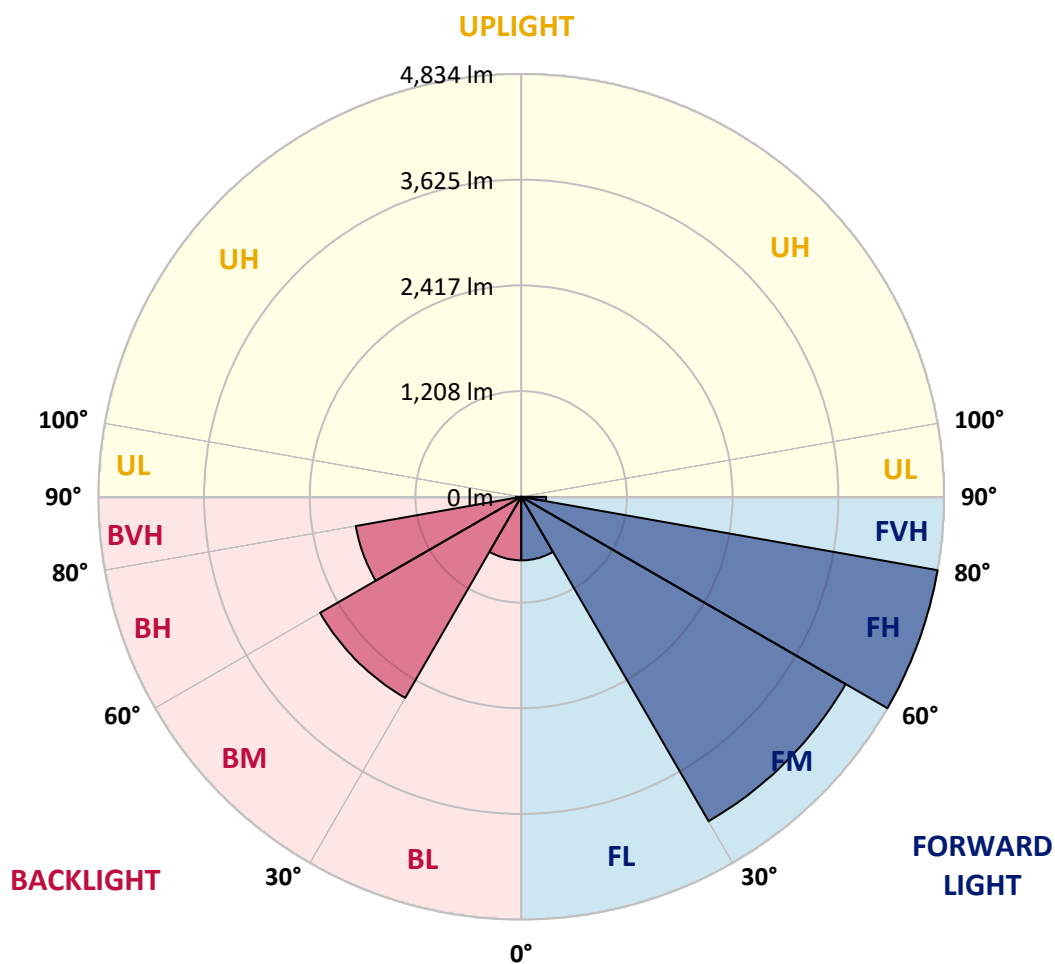
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	726.5	4.7			
FM	(30°-60°)	4282.7	27.7			
FH	(60°-80°)	4834.0	31.2			G2/5000
FVH	(80°-90°)	284.9	1.8			G3/500
BL	(0°-30°)	725.0	4.7	B2/1000		
BM	(30°-60°)	2653.9	17.1	B3/5000		
BH	(60°-80°)	1920.0	12.4	B3/2500		G3/2500
BVH	(80°-90°)	60.4	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1671.1	1671.1	1671.1	1671.1	1671.1	1671.1	1671.1	1671.1	1671.1	1671.1	1671.1
2.5°	1668.1	1668.1	1669.1	1668.1	1668.1	1667.1	1671.1	1671.1	1671.1	1670.1	1673.1
5°	1664.0	1664.0	1665.0	1665.0	1666.0	1665.0	1668.1	1669.1	1669.1	1669.1	1672.1
7.5°	1653.9	1656.9	1654.9	1655.9	1656.9	1660.0	1664.0	1666.0	1668.1	1671.1	1672.1
10°	1632.6	1637.7	1636.7	1639.7	1640.7	1649.8	1652.9	1656.9	1664.0	1668.1	1671.1
12.5°	1603.2	1606.3	1607.3	1611.3	1615.4	1626.5	1634.6	1641.7	1651.9	1662.0	1672.1
15°	1580.0	1582.0	1582.0	1586.0	1592.1	1602.2	1612.4	1624.5	1639.7	1656.9	1673.1
17.5°	1587.0	1592.1	1588.1	1587.0	1589.1	1595.1	1604.3	1614.4	1632.6	1651.9	1671.1
20°	1633.6	1634.6	1632.6	1627.6	1623.5	1624.5	1624.5	1626.5	1637.7	1652.9	1668.1
22.5°	1672.1	1676.2	1675.2	1676.2	1675.2	1679.2	1677.2	1673.1	1669.1	1670.1	1677.2
25°	1705.5	1709.6	1709.6	1712.6	1717.7	1725.8	1731.9	1730.9	1724.8	1716.7	1713.6
27.5°	1760.2	1760.2	1760.2	1763.3	1770.4	1780.5	1790.6	1796.7	1801.8	1793.6	1776.4
30°	1846.3	1847.3	1844.3	1845.3	1850.4	1863.5	1875.7	1884.8	1894.9	1893.9	1871.6
32.5°	1940.5	1944.6	1943.5	1947.6	1954.7	1966.8	1980.0	1994.2	2007.3	2015.5	2001.3
35°	2062.0	2066.1	2067.1	2073.2	2081.3	2099.5	2117.7	2136.0	2150.2	2156.2	2153.2
37.5°	2261.6	2262.6	2258.5	2249.4	2252.4	2266.6	2287.9	2317.3	2326.4	2332.5	2346.6
40°	2560.3	2557.3	2541.1	2533.0	2527.9	2534.0	2529.9	2553.2	2574.5	2575.5	2574.5
42.5°	2922.9	2913.8	2898.6	2896.6	2894.6	2892.5	2881.4	2882.4	2901.6	2906.7	2900.6
45°	3283.5	3272.3	3261.2	3271.3	3259.2	3290.6	3299.7	3324.0	3327.0	3337.1	3321.9
47.5°	3579.2	3580.2	3580.2	3594.4	3618.7	3678.5	3732.1	3778.7	3795.9	3820.2	3823.3
50°	3803.0	3809.1	3828.3	3873.9	3925.6	4025.8	4116.0	4200.0	4276.0	4304.4	4379.3
52.5°	3933.7	3949.9	3990.4	4066.3	4158.5	4288.1	4429.9	4572.7	4704.4	4815.8	4904.9
55°	3910.4	3922.5	3993.4	4111.9	4255.7	4429.9	4628.4	4835.1	5040.7	5229.0	5374.9
57.5°	3760.5	3768.6	3839.5	3973.2	4152.4	4386.4	4666.9	4973.8	5262.5	5566.3	5815.4
60°	3564.0	3576.2	3642.0	3747.3	3934.7	4183.8	4508.9	4925.2	5386.0	5864.0	6329.9
62.5°	3438.4	3435.4	3493.1	3587.3	3728.1	3953.9	4266.9	4760.1	5398.2	6206.4	7127.0
65°	3229.8	3220.7	3280.4	3387.8	3540.7	3759.5	4056.2	4530.2	5270.6	6336.0	7641.5
66°	3100.1	3081.9	3141.7	3250.0	3403.0	3635.9	3920.5	4388.4	5115.6	6209.4	7586.8
67.5°	2873.3	2864.2	2892.5	2977.6	3091.0	3309.8	3606.5	4077.5	4749.0	5828.6	7185.7
70°	2335.5	2315.2	2337.5	2376.0	2419.6	2473.2	2655.5	3029.3	3597.4	4643.6	5789.1
72.5°	1591.1	1581.0	1622.5	1681.2	1797.7	1852.4	1924.3	1985.1	2185.6	2927.0	4038.0
75°	1210.3	1216.4	1269.0	1366.3	1516.1	1678.2	1836.2	1893.9	1827.1	1769.3	2291.9
77.5°	678.6	714.0	777.8	901.4	1060.4	1289.3	1564.8	1868.6	2020.5	1983.0	1854.4
80°	279.5	274.5	305.9	373.7	428.4	615.8	941.9	1322.7	1750.1	2020.5	1978.0
82.5°	78.0	80.0	103.3	132.7	171.2	217.7	340.3	546.9	891.3	1386.5	1814.9
85°	24.3	24.3	33.4	49.6	58.7	67.9	86.1	141.8	242.1	483.1	979.4
87.5°	5.1	5.1	7.1	14.2	15.2	15.2	19.2	26.3	23.3	21.3	95.2
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):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	1671.1	1671.1	1671.1	1671.1	1671.1	1671.1	1671.1	1671.1	1671.1	1671.1	1671.1
2.5°	1670.1	1668.1	1669.1	1670.1	1669.1	1669.1	1668.1	1667.1	1668.1	1668.1	1671.1
5°	1669.1	1668.1	1669.1	1669.1	1669.1	1670.1	1670.1	1670.1	1673.1	1673.1	1678.2
7.5°	1671.1	1671.1	1673.1	1673.1	1673.1	1673.1	1674.1	1676.2	1681.2	1680.2	1689.3
10°	1675.2	1677.2	1682.2	1683.3	1683.3	1686.3	1688.3	1692.4	1697.4	1699.5	1707.6
12.5°	1680.2	1690.3	1699.5	1701.5	1704.5	1709.6	1712.6	1714.7	1723.8	1726.8	1736.9
15°	1686.3	1700.5	1711.6	1715.7	1719.7	1725.8	1729.8	1732.9	1741.0	1745.0	1757.2
17.5°	1687.3	1703.5	1716.7	1722.8	1727.8	1734.9	1741.0	1747.1	1756.2	1762.3	1774.4
20°	1686.3	1707.6	1727.8	1735.9	1741.0	1754.2	1763.3	1771.4	1782.5	1788.6	1800.7
22.5°	1697.4	1721.7	1749.1	1759.2	1767.3	1785.5	1797.7	1810.9	1825.0	1829.1	1838.2
25°	1723.8	1749.1	1783.5	1797.7	1811.9	1836.2	1853.4	1872.6	1886.8	1888.9	1891.9
27.5°	1768.3	1791.6	1833.1	1854.4	1877.7	1912.1	1937.5	1956.7	1977.0	1977.0	1974.9
30°	1858.5	1863.5	1907.1	1934.4	1968.9	2019.5	2057.0	2078.2	2093.4	2093.4	2076.2
32.5°	1974.9	1968.9	2008.4	2037.7	2085.3	2156.2	2206.9	2223.1	2239.3	2234.2	2204.8
35°	2143.1	2125.8	2148.1	2192.7	2246.4	2343.6	2396.3	2432.7	2442.8	2428.7	2382.1
37.5°	2354.7	2352.7	2363.8	2413.5	2473.2	2598.8	2652.5	2675.8	2667.7	2642.4	2560.3
40°	2578.6	2572.5	2565.4	2598.8	2665.7	2816.6	2911.8	2923.9	2912.8	2875.3	2772.0
42.5°	2877.3	2877.3	2843.9	2853.0	2908.7	3077.9	3190.3	3228.8	3229.8	3175.1	3037.4
45°	3288.5	3284.5	3225.7	3211.6	3254.1	3420.2	3565.0	3586.3	3586.3	3514.4	3363.5
47.5°	3782.8	3777.7	3720.0	3670.3	3678.5	3857.7	3978.2	4010.6	3982.3	3928.6	3749.3
50°	4339.8	4330.7	4271.9	4225.4	4205.1	4386.4	4488.7	4503.9	4462.3	4398.5	4204.1
52.5°	4904.9	4932.3	4897.8	4872.5	4879.6	4997.1	5102.4	5030.5	5009.3	4940.4	4744.9
55°	5493.4	5577.4	5653.4	5631.1	5657.4	5771.9	5792.1	5696.9	5658.5	5608.8	5391.1
57.5°	6085.8	6330.9	6580.1	6650.0	6714.8	6878.9	6855.6	6699.6	6729.0	6802.9	6557.8
60°	6913.3	7621.2	8253.2	8369.7	8571.2	8711.0	8742.4	8712.0	8848.7	8810.3	8593.5
62.5°	8184.3	9364.2	10243.3	10462.1	10664.7	10657.6	10551.2	10441.9	10576.6	10576.6	10010.4
65°	9091.8	10430.7	11371.6	11552.9	11544.8	11300.7	11049.5	10830.8	10811.5	10661.6	9834.2
66°	9134.3	10512.8	11434.4	11592.4	11531.6	11138.7	10837.9	10560.4	10441.9	10233.2	9385.5
67.5°	8751.5	10280.8	11229.8	11367.5	11207.5	10644.4	10230.2	9858.5	9686.3	9334.9	8536.8
70°	7178.6	8835.6	10216.0	10497.6	10316.3	9603.3	9036.1	8533.8	8204.6	7697.2	7121.9
72.5°	5240.2	6523.4	8018.3	8476.0	8447.7	7791.4	7334.6	6874.8	6442.4	5980.5	5560.2
75°	3406.0	4243.6	5077.1	5344.5	5215.9	4836.1	4508.9	4240.5	3830.4	3509.3	3431.3
77.5°	1944.6	2376.0	2247.4	2214.0	2052.9	1656.9	1101.9	772.8	697.8	871.0	955.1
80°	1850.4	1677.2	1373.3	1238.6	1138.4	775.8	407.1	286.6	251.2	257.2	276.5
82.5°	2086.3	2174.5	1778.5	1485.8	1293.3	943.9	515.5	240.0	175.2	207.6	232.9
85°	1563.7	2201.8	2182.6	1849.4	1517.2	1087.7	609.7	183.3	105.3	145.8	190.4
87.5°	317.0	521.6	502.3	441.6	375.7	262.3	102.3	57.7	52.7	71.9	109.4
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1671.1	1671.1	1671.1	1671.1	1671.1	1671.1	1671.1	1671.1	1671.1	1671.1	1671.1
2.5°	1673.1	1673.1	1675.2	1678.2	1679.2	1679.2	1681.2	1679.2	1683.3	1684.3	1685.3
5°	1682.2	1685.3	1687.3	1692.4	1695.4	1697.4	1700.5	1698.4	1702.5	1703.5	1705.5
7.5°	1692.4	1697.4	1701.5	1703.5	1707.6	1707.6	1708.6	1706.5	1705.5	1702.5	1701.5
10°	1710.6	1713.6	1718.7	1716.7	1714.7	1707.6	1701.5	1692.4	1687.3	1678.2	1673.1
12.5°	1740.0	1742.0	1742.0	1732.9	1719.7	1703.5	1688.3	1673.1	1661.0	1650.8	1644.8
15°	1760.2	1764.3	1759.2	1746.0	1726.8	1704.5	1684.3	1664.0	1647.8	1634.6	1626.5
17.5°	1775.4	1774.4	1765.3	1747.1	1728.8	1709.6	1691.4	1670.1	1649.8	1630.6	1618.4
20°	1798.7	1788.6	1772.4	1753.1	1733.9	1717.7	1703.5	1683.3	1662.0	1635.7	1617.4
22.5°	1830.1	1811.9	1788.6	1768.3	1750.1	1734.9	1718.7	1701.5	1679.2	1649.8	1624.5
25°	1874.7	1843.3	1816.9	1796.7	1780.5	1763.3	1745.0	1722.8	1700.5	1670.1	1639.7
27.5°	1942.5	1895.9	1862.5	1844.3	1829.1	1805.8	1782.5	1756.2	1727.8	1696.4	1662.0
30°	2024.6	1968.9	1930.4	1914.2	1895.9	1869.6	1844.3	1807.8	1768.3	1730.9	1688.3
32.5°	2120.8	2064.1	2025.6	2013.4	1984.1	1953.7	1918.2	1869.6	1818.0	1762.3	1711.6
35°	2266.6	2194.7	2159.3	2130.9	2090.4	2053.9	1994.2	1930.4	1856.4	1782.5	1719.7
37.5°	2416.5	2343.6	2307.1	2267.6	2215.0	2148.1	2068.1	1977.0	1878.7	1787.6	1710.6
40°	2617.0	2538.0	2491.5	2430.7	2345.6	2241.3	2122.8	1998.2	1878.7	1765.3	1672.1
42.5°	2851.0	2778.1	2706.2	2605.9	2469.2	2317.3	2151.2	1991.1	1846.3	1715.7	1617.4
45°	3175.1	3050.5	2936.1	2775.0	2575.5	2361.8	2154.2	1957.7	1790.6	1645.8	1536.4
47.5°	3539.7	3378.7	3176.1	2923.9	2651.5	2379.0	2124.8	1894.9	1702.5	1545.5	1426.0
50°	3960.0	3712.9	3402.0	3042.4	2690.0	2355.7	2054.9	1789.6	1581.0	1400.7	1273.1
52.5°	4441.1	4064.3	3606.5	3126.5	2683.9	2284.9	1939.5	1650.8	1417.9	1226.5	1100.9
55°	4974.8	4447.2	3802.0	3180.2	2629.2	2147.1	1758.2	1455.4	1215.3	1027.0	916.6
57.5°	5915.7	5118.6	4174.7	3252.1	2514.8	1938.5	1528.3	1208.3	991.5	831.5	726.2
60°	7663.8	6292.5	4880.6	3421.2	2342.6	1677.2	1238.6	948.0	766.7	650.2	572.2
62.5°	8745.4	7118.9	5225.0	3396.9	2063.1	1319.7	919.6	702.9	560.1	483.1	434.5
65°	8489.2	6794.8	4804.7	2917.8	1605.3	935.8	608.7	459.8	384.9	345.4	322.1
66°	8140.8	6432.2	4449.2	2613.0	1398.7	781.9	502.3	385.9	331.2	301.8	289.7
67.5°	7410.6	5769.9	3837.5	2092.4	1048.2	582.4	370.7	302.8	269.4	254.2	246.1
70°	6202.3	4648.7	2714.3	1235.6	568.2	316.0	237.0	210.7	202.6	197.5	194.5
72.5°	4795.6	3365.5	1586.0	607.7	286.6	204.6	180.3	169.1	166.1	166.1	167.1
75°	3021.1	1934.4	710.0	292.7	194.5	165.1	153.9	148.9	149.9	150.9	149.9
77.5°	1003.7	667.4	295.7	207.6	169.1	149.9	140.8	138.8	140.8	141.8	141.8
80°	288.6	252.2	213.7	183.3	155.0	139.8	131.7	130.6	135.7	136.7	134.7
82.5°	221.8	207.6	193.4	177.2	148.9	131.7	128.6	129.6	132.7	130.6	121.5
85°	203.6	201.5	144.8	143.8	129.6	125.6	122.5	123.6	120.5	109.4	99.3
87.5°	114.4	106.3	82.0	83.0	96.2	99.3	82.0	87.1	81.0	70.9	64.8
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):

	160°	165°	170°	175°	180°
0°	1671.1	1671.1	1671.1	1671.1	1671.1
2.5°	1687.3	1686.3	1686.3	1689.3	1685.3
5°	1706.5	1705.5	1705.5	1708.6	1705.5
7.5°	1697.4	1694.4	1692.4	1691.4	1691.4
10°	1667.1	1664.0	1657.9	1655.9	1653.9
12.5°	1635.7	1632.6	1625.5	1625.5	1623.5
15°	1616.4	1612.4	1607.3	1604.3	1602.2
17.5°	1606.3	1600.2	1594.1	1591.1	1589.1
20°	1602.2	1594.1	1587.0	1582.0	1582.0
22.5°	1603.2	1593.1	1585.0	1578.9	1576.9
25°	1613.4	1598.2	1588.1	1582.0	1580.0
27.5°	1627.6	1609.3	1596.2	1588.1	1585.0
30°	1646.8	1621.5	1603.2	1593.1	1589.1
32.5°	1660.0	1624.5	1601.2	1587.0	1582.0
35°	1658.9	1613.4	1585.0	1566.8	1560.7
37.5°	1640.7	1587.0	1549.6	1527.3	1517.2
40°	1600.2	1538.4	1498.9	1477.7	1465.5
42.5°	1541.5	1474.6	1439.2	1415.9	1402.7
45°	1449.3	1383.5	1339.9	1321.7	1304.5
47.5°	1321.7	1254.8	1217.4	1191.0	1179.9
50°	1171.8	1105.0	1065.5	1044.2	1034.1
52.5°	1007.7	943.9	915.6	895.3	881.1
55°	837.6	778.8	766.7	744.4	731.2
57.5°	677.6	643.1	632.0	609.7	598.6
60°	529.7	518.5	506.4	492.2	486.1
62.5°	410.2	400.1	397.0	387.9	386.9
65°	313.0	314.0	311.9	309.9	307.9
66°	284.6	283.6	284.6	282.6	281.6
67.5°	242.1	246.1	249.1	248.1	248.1
70°	196.5	199.5	203.6	202.6	202.6
72.5°	168.1	173.2	175.2	174.2	174.2
75°	151.9	157.0	157.0	155.0	153.9
77.5°	141.8	143.8	141.8	139.8	137.7
80°	131.7	129.6	126.6	123.6	121.5
82.5°	114.4	109.4	106.3	101.3	101.3
85°	92.2	88.1	81.0	76.0	70.9
87.5°	59.8	57.7	52.7	39.5	31.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)