

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: P158464

Luminaire Tested: **VST-F06-LED-E-U-SL3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158464
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33713)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-F06-LED-E-U-SL3-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13648.2 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 156.5
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

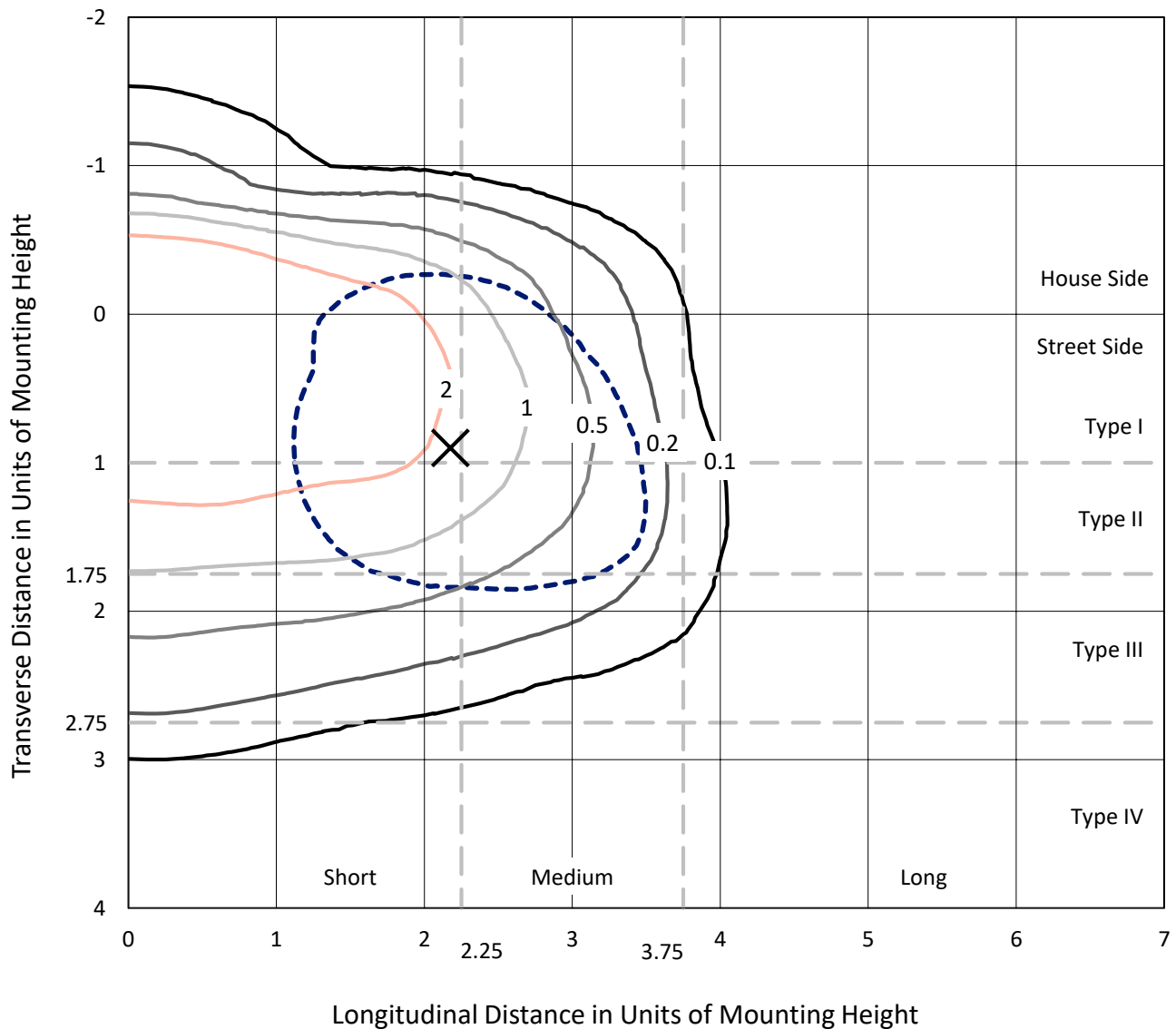


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

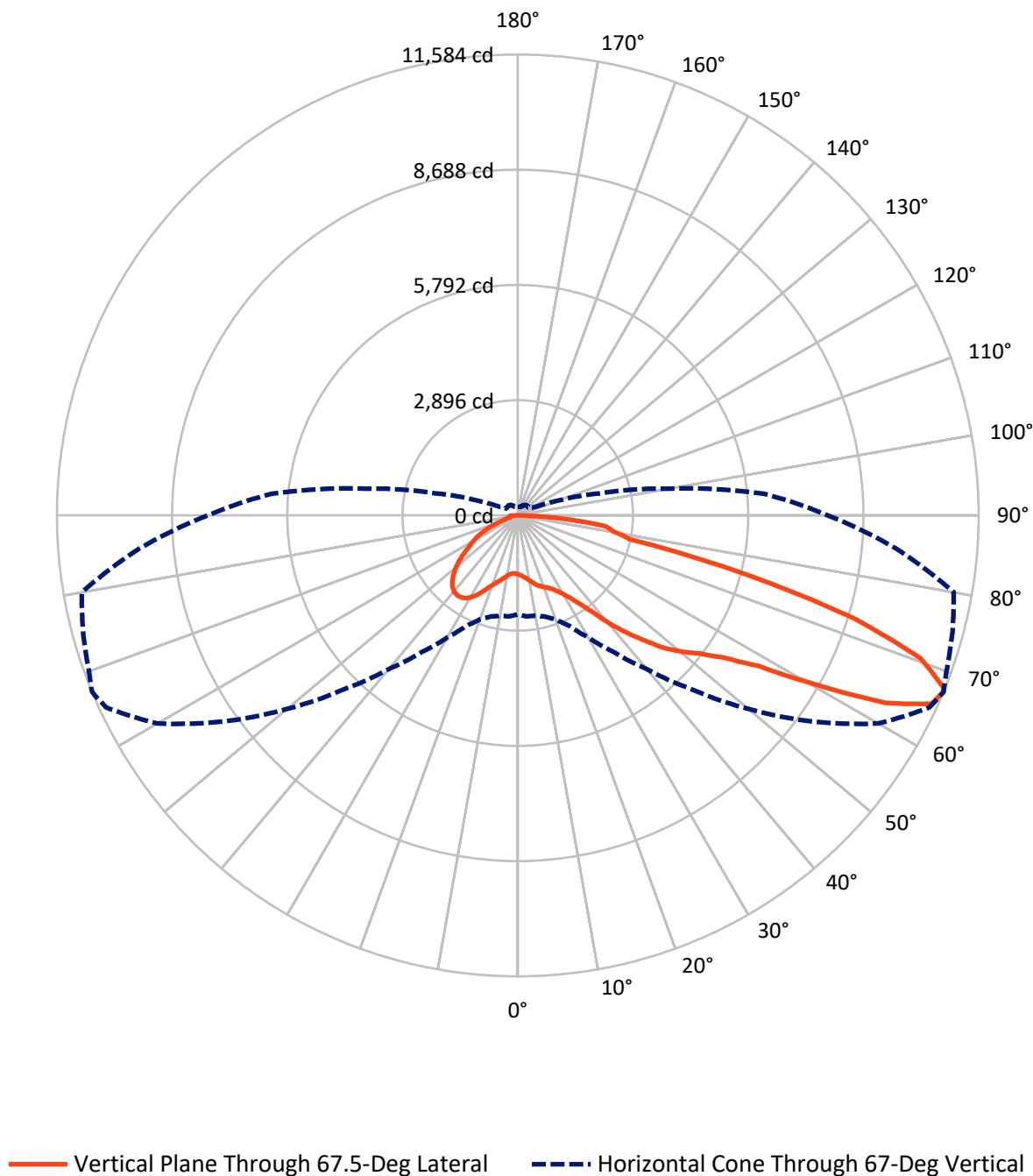


Based on 20 foot mounting height. Maximum calculated value = 4.6 fc
Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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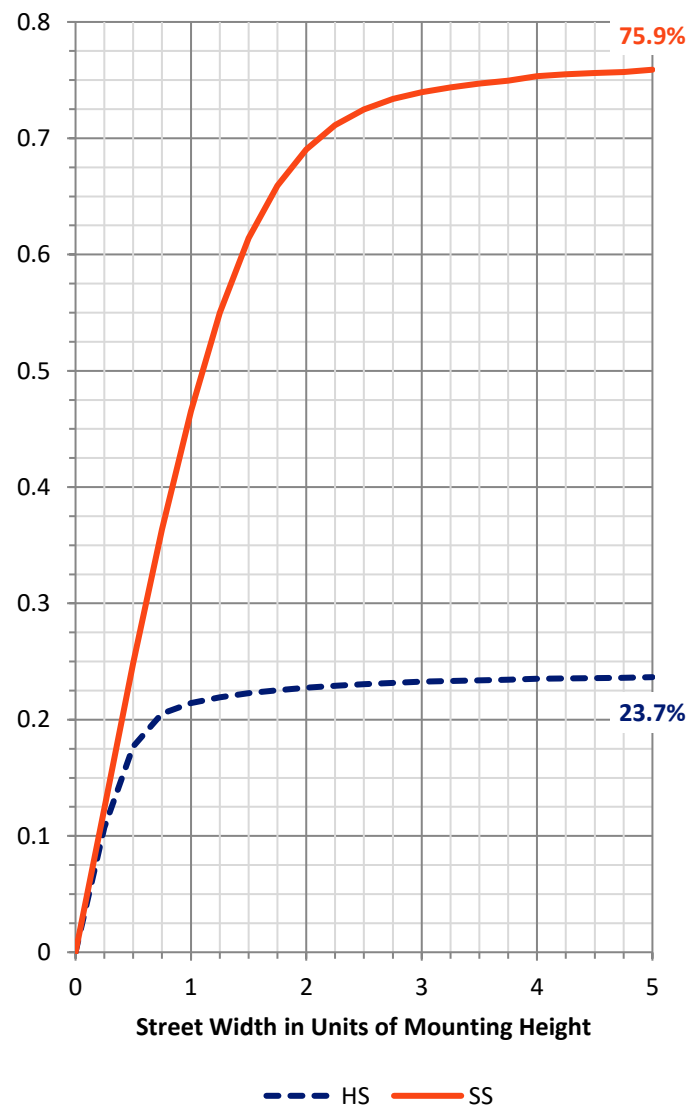
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3274.2	0.0	3274.2
	% Fixture	24.0	0.0	24.0
Street Side	Lumens	10374.0	0.0	10374.0
	% Fixture	76.0	0.0	76.0
Total	Lumens	13648.2	0.0	13648.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.0	1.1
10°-20°	500.9	3.7
20°-30°	894.3	6.6
30°-40°	1310.7	9.6
40°-50°	2025.2	14.8
50°-60°	2949.0	21.6
60°-70°	3841.5	28.1
70°-80°	1719.6	12.6
80°-90°	260.0	1.9
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°	13648.2	100.0
0°-180°	13648.2	100.0

Coefficient of Utilization



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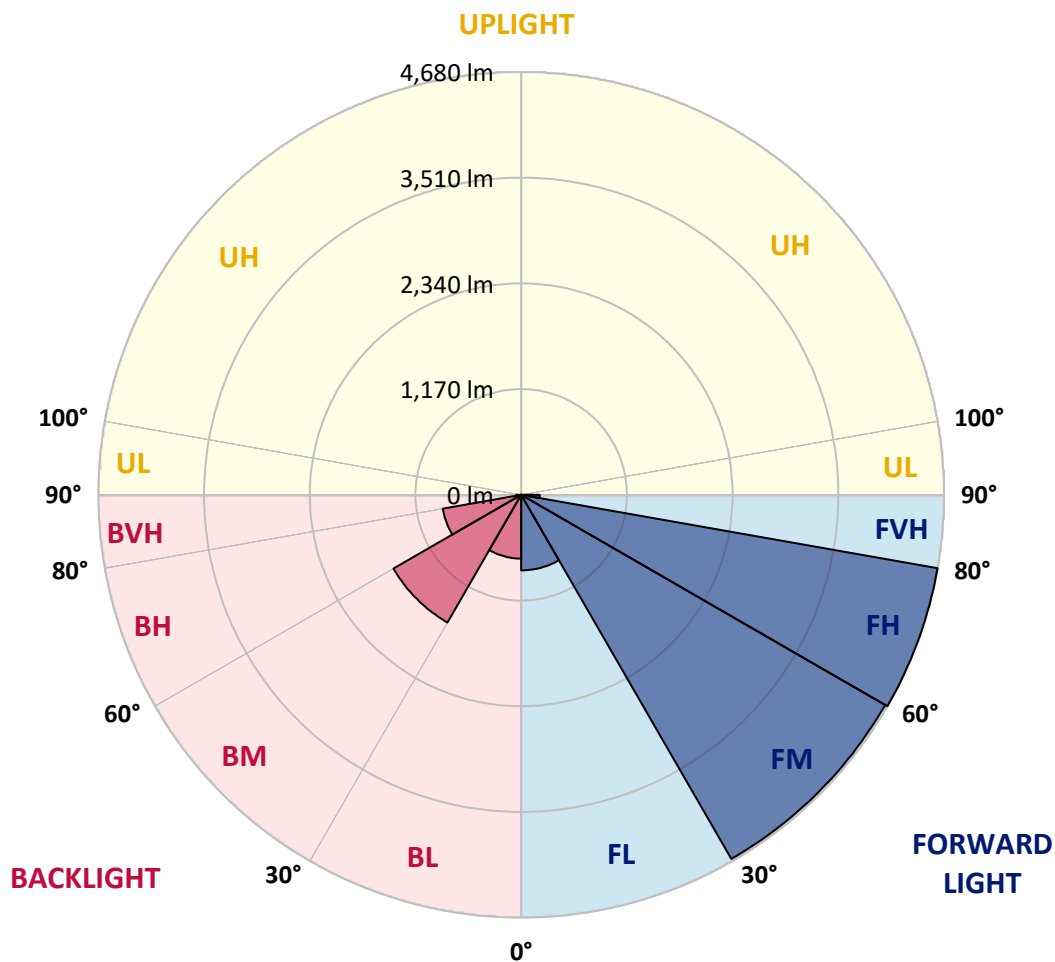
CATALOG NUMBER: VST-F06-LED-E-U-SL3-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	836.2	6.1			
FM	(30°-60°)	4653.3	34.1			
FH	(60°-80°)	4680.2	34.3			G2/5000
FVH	(80°-90°)	204.2	1.5			G2/225
BL	(0°-30°)	706.0	5.2	B2/1000		
BM	(30°-60°)	1631.5	12.0	B2/2500		
BH	(60°-80°)	880.9	6.5	B2/1000		G2/1000
BVH	(80°-90°)	55.8	0.4			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1479.3	1479.3	1479.3	1479.3	1479.3	1479.3	1479.3	1479.3	1479.3	1479.3	1479.3
2.5°	1537.2	1540.9	1541.8	1540.9	1541.8	1538.1	1537.2	1531.8	1534.5	1527.3	1525.5
5°	1620.5	1623.2	1625.0	1617.8	1619.6	1616.0	1611.4	1606.0	1598.8	1588.8	1582.5
7.5°	1701.9	1706.4	1705.5	1702.8	1696.5	1692.9	1683.8	1675.7	1663.0	1651.2	1643.1
10°	1811.4	1810.5	1810.5	1795.1	1786.1	1777.9	1761.6	1749.0	1736.3	1719.1	1710.1
12.5°	1938.1	1931.7	1929.0	1918.2	1899.2	1884.7	1861.2	1836.7	1814.1	1796.0	1781.5
15°	2060.2	2060.2	2053.0	2035.8	2017.7	1998.7	1965.2	1929.9	1892.8	1863.9	1849.4
17.5°	2171.5	2161.5	2155.2	2132.6	2113.6	2082.8	2045.7	2007.7	1961.6	1920.9	1892.8
20°	2252.9	2244.8	2231.2	2203.2	2170.6	2134.4	2091.0	2046.6	1996.9	1952.5	1920.9
22.5°	2300.0	2290.0	2269.2	2232.1	2187.8	2137.1	2086.5	2044.8	1999.6	1966.1	1939.9
25°	2324.4	2314.5	2286.4	2237.6	2177.8	2110.9	2053.0	2012.3	1986.0	1977.9	1974.3
27.5°	2323.5	2315.4	2285.5	2229.4	2152.5	2075.6	2013.2	1978.8	1976.1	2007.7	2031.3
30°	2300.0	2294.6	2267.4	2211.3	2130.8	2050.3	1992.4	1974.3	2002.3	2069.3	2127.2
32.5°	2276.5	2273.7	2254.7	2204.1	2135.3	2067.5	2027.6	2029.4	2087.4	2190.5	2283.7
35°	2279.2	2282.8	2280.1	2252.9	2209.5	2174.2	2155.2	2195.0	2285.5	2410.4	2535.2
37.5°	2302.7	2316.3	2333.5	2336.2	2337.1	2331.6	2371.5	2455.6	2587.7	2750.6	2946.0
40°	2354.3	2369.7	2419.4	2462.8	2518.9	2585.9	2666.4	2783.1	2946.9	3147.8	3387.5
42.5°	2514.4	2536.1	2597.7	2678.2	2781.3	2886.3	3006.6	3165.9	3366.7	3578.5	3830.0
45°	2723.4	2768.7	2836.5	2926.1	3080.8	3228.3	3383.9	3562.2	3775.7	4040.8	4294.1
47.5°	2984.0	3029.2	3127.9	3223.8	3406.5	3590.2	3760.3	3946.7	4178.3	4449.8	4730.3
50°	3212.0	3263.6	3351.4	3480.7	3692.5	3917.8	4105.9	4307.7	4502.2	4788.2	5071.4
52.5°	3391.2	3428.3	3512.4	3630.9	3867.1	4114.1	4352.1	4576.4	4807.2	5093.1	5355.5
55°	3413.8	3448.2	3530.5	3666.2	3906.0	4180.1	4454.3	4720.3	5046.9	5359.1	5706.5
57.5°	3316.1	3344.1	3427.4	3548.6	3782.0	4094.2	4440.7	4781.8	5199.8	5621.5	6045.8
60°	3177.6	3205.7	3270.8	3367.6	3578.5	3915.0	4319.5	4786.4	5341.9	5950.8	6575.1
62.5°	3025.6	3050.1	3102.5	3171.3	3356.8	3667.1	4130.4	4756.5	5457.7	6278.4	7241.1
65°	2769.6	2828.4	2851.0	2921.6	3107.1	3400.2	3871.6	4554.7	5410.7	6424.0	7659.1
67°	2486.4	2546.1	2557.8	2629.3	2777.7	3059.1	3538.6	4181.0	5037.9	6172.5	7566.8
67.5°	2395.9	2446.6	2464.7	2536.1	2676.4	2941.5	3396.6	4046.2	4923.9	6035.0	7455.5
70°	1761.6	1817.7	1837.6	1867.5	1967.9	2188.7	2490.0	3053.7	3925.9	4924.8	6289.2
72.5°	942.8	988.0	1007.0	1051.4	1102.9	1223.3	1454.0	1858.4	2409.5	3295.3	4474.2
75°	637.9	656.0	669.5	700.3	753.7	849.6	950.9	1093.0	1426.0	1859.3	2546.1
77.5°	363.7	371.9	373.7	379.1	421.6	513.0	679.5	920.2	1179.8	1347.2	1628.6
80°	157.4	173.7	186.4	178.2	175.5	194.5	243.4	362.8	711.2	1129.2	1340.0
82.5°	85.1	92.3	103.1	104.1	109.5	115.8	125.8	149.3	209.9	423.4	923.8
85°	44.3	46.1	61.5	70.6	75.1	78.7	80.5	89.6	103.1	131.2	229.8
87.5°	6.3	9.0	10.9	14.5	16.3	17.2	19.9	25.3	29.9	36.2	61.5
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°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	1479.3	1479.3	1479.3	1479.3	1479.3	1479.3	1479.3	1479.3	1479.3	1479.3	1479.3
2.5°	1517.3	1515.5	1510.1	1506.5	1502.9	1499.2	1494.7	1491.1	1484.8	1480.2	1474.8
5°	1573.4	1562.6	1555.3	1545.4	1543.6	1531.8	1520.1	1514.6	1503.8	1494.7	1483.9
7.5°	1630.4	1617.8	1606.0	1597.9	1593.3	1577.1	1565.3	1551.7	1539.1	1527.3	1514.6
10°	1697.4	1684.7	1672.1	1666.6	1658.5	1643.1	1633.1	1616.0	1603.3	1588.8	1571.6
12.5°	1767.1	1758.0	1749.0	1741.7	1738.1	1730.9	1716.4	1701.9	1684.7	1670.2	1650.3
15°	1828.6	1822.3	1818.6	1816.8	1816.8	1812.3	1798.7	1785.2	1767.1	1750.8	1729.1
17.5°	1872.0	1869.3	1872.0	1874.7	1878.3	1874.7	1872.0	1856.6	1844.9	1825.0	1803.3
20°	1897.3	1902.8	1916.3	1925.4	1933.5	1939.9	1942.6	1929.9	1914.5	1900.1	1885.6
22.5°	1924.5	1939.9	1963.4	1977.0	1990.5	2013.2	2018.6	2009.5	1997.8	1988.7	1973.4
25°	1969.7	1992.4	2033.1	2054.8	2073.8	2107.3	2111.8	2113.6	2110.9	2103.6	2084.6
27.5°	2040.3	2084.6	2138.9	2167.0	2187.8	2231.2	2248.4	2248.4	2241.2	2249.3	2249.3
30°	2163.4	2222.2	2292.7	2309.0	2341.6	2379.6	2407.7	2411.3	2412.2	2429.4	2454.7
32.5°	2352.5	2408.6	2487.3	2505.4	2533.4	2569.6	2601.3	2597.7	2605.8	2642.9	2676.4
35°	2627.5	2684.5	2736.1	2760.5	2773.2	2805.8	2817.5	2837.4	2861.9	2908.0	2903.5
37.5°	3034.7	3085.3	3092.6	3108.0	3092.6	3098.9	3108.0	3131.5	3196.6	3238.3	3171.3
40°	3525.1	3609.2	3601.1	3583.0	3548.6	3502.5	3518.7	3554.9	3625.5	3589.3	3409.3
42.5°	3987.4	4074.3	4058.0	4037.2	3961.2	3944.0	3942.2	3972.0	4010.0	3906.9	3595.6
45°	4442.5	4531.2	4503.2	4491.4	4440.7	4403.6	4434.4	4436.2	4426.2	4205.5	3758.5
47.5°	4912.1	4993.5	4975.5	4985.4	4932.9	4908.5	4911.2	4898.5	4805.4	4458.8	3885.2
50°	5291.2	5400.7	5411.6	5388.9	5360.9	5323.8	5418.8	5384.4	5177.2	4704.9	4007.3
52.5°	5586.2	5733.7	5789.8	5775.3	5752.7	5757.2	5935.4	5974.3	5631.4	5015.3	4142.1
55°	5935.4	6168.0	6259.4	6313.6	6290.1	6380.6	6788.7	6808.6	6263.0	5420.6	4317.7
57.5°	6439.4	6772.4	7061.0	7137.9	7212.1	7506.2	8168.5	7966.7	7082.7	6034.1	4540.2
60°	7205.8	7935.0	8403.7	8649.8	8823.5	9234.3	9864.0	9352.8	8104.2	6764.2	4819.8
62.5°	8278.8	9344.7	10128.2	10375.3	10446.7	10682.9	11138.9	10160.8	8660.7	7091.8	4844.3
65°	9077.8	10356.3	11294.5	11421.2	11336.1	11340.7	11460.1	10118.3	8453.5	6805.8	4424.4
67°	9025.3	10456.7	11417.6	11584.1	11466.4	11311.7	11125.3	9541.9	7787.5	6206.9	3874.3
67.5°	8944.8	10359.9	11364.2	11539.7	11432.0	11255.6	10983.3	9318.5	7580.3	6020.5	3762.1
70°	7732.4	9137.5	10490.2	10737.2	10782.4	10621.4	9856.8	7857.2	6154.4	4897.6	2921.6
72.5°	6018.7	7270.0	8608.2	8822.6	8996.3	8532.2	7174.1	5426.9	4486.0	3529.6	2115.4
75°	3973.8	5246.9	5921.9	5953.5	5731.9	4872.3	3505.2	2718.0	2501.8	2074.7	1309.2
77.5°	2126.3	3085.3	3104.3	2874.5	2769.6	2064.7	837.8	462.3	514.8	584.5	521.2
80°	1586.1	1965.2	2277.4	2448.4	2499.0	1770.7	433.4	245.2	214.4	195.4	192.7
82.5°	1430.5	1898.3	2128.1	2221.3	2197.7	1456.7	243.4	164.7	136.6	148.4	169.2
85°	561.0	1013.4	1332.8	1290.2	1083.9	542.9	133.0	88.7	88.7	128.5	166.5
87.5°	114.9	208.1	282.3	269.6	242.5	105.0	65.1	53.4	54.3	104.1	157.4
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°	1479.3	1479.3	1479.3	1479.3	1479.3	1479.3	1479.3	1479.3	1479.3	1479.3	1479.3
2.5°	1469.4	1464.0	1460.3	1456.7	1453.1	1451.3	1448.6	1448.6	1443.1	1441.3	1439.5
5°	1475.7	1466.7	1460.3	1452.2	1445.9	1440.4	1433.2	1431.4	1425.0	1420.5	1418.7
7.5°	1502.9	1489.3	1475.7	1465.8	1456.7	1445.0	1436.8	1429.6	1423.2	1418.7	1413.3
10°	1554.4	1540.0	1521.0	1502.9	1491.1	1473.0	1460.3	1447.7	1440.4	1435.0	1427.8
12.5°	1630.4	1609.6	1587.0	1565.3	1545.4	1521.9	1509.2	1493.8	1484.8	1480.2	1474.8
15°	1708.2	1685.6	1657.6	1636.8	1614.1	1596.1	1584.3	1570.7	1563.5	1558.1	1554.4
17.5°	1787.9	1761.6	1741.7	1720.9	1710.1	1696.5	1681.1	1663.9	1643.1	1630.4	1613.2
20°	1869.3	1849.4	1837.6	1825.9	1813.2	1794.2	1763.4	1728.2	1689.2	1652.2	1616.9
22.5°	1964.3	1952.5	1950.7	1939.9	1913.6	1868.4	1811.4	1745.3	1679.3	1617.8	1569.8
25°	2098.2	2098.2	2089.2	2044.8	1983.3	1901.9	1806.0	1711.0	1623.2	1539.1	1475.7
27.5°	2266.5	2260.2	2215.8	2124.5	2014.1	1887.4	1758.9	1638.6	1526.4	1434.1	1352.7
30°	2452.0	2407.7	2312.6	2168.8	2003.2	1840.3	1682.9	1543.6	1411.5	1298.4	1202.5
32.5°	2644.7	2537.0	2366.0	2168.8	1965.2	1769.8	1587.9	1416.9	1265.8	1139.1	1025.1
35°	2819.3	2623.0	2378.7	2133.5	1891.0	1665.7	1454.9	1261.3	1080.3	943.7	818.8
37.5°	2977.7	2680.0	2365.1	2064.7	1783.3	1519.1	1272.1	1058.6	854.1	722.0	615.3
40°	3080.8	2691.8	2309.0	1957.1	1629.5	1321.0	1047.7	808.9	646.9	526.6	455.1
42.5°	3145.1	2669.1	2218.6	1809.6	1422.3	1072.2	786.3	580.0	459.6	392.7	365.5
45°	3181.2	2610.3	2084.6	1607.8	1171.7	815.2	558.3	418.9	353.8	330.2	321.2
47.5°	3179.4	2515.3	1917.3	1374.4	894.8	568.2	395.4	326.6	308.5	301.3	299.5
50°	3160.4	2398.6	1720.9	1121.0	646.0	396.3	313.1	293.2	288.6	284.1	282.3
52.5°	3134.2	2253.8	1503.8	874.0	458.7	316.7	284.1	278.7	275.1	270.5	268.7
55°	3085.3	2075.6	1268.5	657.8	359.2	285.9	274.2	272.3	267.8	261.5	257.9
57.5°	3025.6	1894.6	1043.2	513.9	317.6	278.7	272.3	269.6	263.3	256.1	248.8
60°	3003.9	1745.3	866.8	433.4	307.6	281.4	276.9	273.2	264.2	253.3	245.2
62.5°	2868.2	1577.1	740.1	401.7	313.1	293.2	291.3	285.9	272.3	259.7	247.0
65°	2517.1	1333.7	627.0	380.0	323.9	313.1	314.9	306.7	293.2	276.0	253.3
67°	2129.0	1087.6	522.1	359.2	332.1	333.9	340.2	333.9	316.7	292.2	261.5
67.5°	2025.8	1025.1	495.8	352.9	333.9	339.3	346.5	342.0	324.8	296.8	265.1
70°	1505.6	722.0	370.1	319.4	333.9	355.6	371.9	376.4	357.4	318.5	272.3
72.5°	1060.4	466.0	284.1	276.9	303.1	332.1	362.8	378.2	356.5	314.0	262.4
75°	637.0	291.3	230.7	235.2	255.2	285.0	309.4	315.8	288.6	261.5	227.1
77.5°	295.0	193.6	181.0	187.3	206.3	219.9	219.9	207.2	186.4	170.1	162.9
80°	173.7	158.3	157.4	169.2	181.9	171.9	156.5	139.3	128.5	123.1	120.3
82.5°	162.9	169.2	180.1	182.8	172.8	148.4	129.4	112.2	106.8	104.1	101.3
85°	191.8	205.4	187.3	172.8	152.9	124.9	101.3	86.9	84.1	81.4	77.8
87.5°	177.3	169.2	147.5	126.7	105.0	76.0	55.2	49.8	53.4	52.5	50.7
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):

	160°	165°	170°	175°	180°
0°	1479.3	1479.3	1479.3	1479.3	1479.3
2.5°	1440.4	1440.4	1436.8	1435.0	1439.5
5°	1415.1	1416.0	1413.3	1412.4	1413.3
7.5°	1409.7	1408.8	1407.0	1405.1	1407.0
10°	1426.0	1425.0	1422.3	1424.1	1421.4
12.5°	1474.8	1480.2	1479.3	1481.1	1484.8
15°	1554.4	1553.5	1550.8	1552.6	1555.3
17.5°	1599.7	1592.4	1586.1	1583.4	1583.4
20°	1588.8	1568.0	1557.1	1550.8	1549.0
22.5°	1524.6	1494.7	1472.1	1466.7	1462.1
25°	1419.6	1382.5	1353.6	1347.2	1335.5
27.5°	1297.5	1247.7	1213.3	1206.1	1199.8
30°	1137.3	1080.3	1040.5	1015.2	1023.3
32.5°	941.9	887.6	841.5	800.7	794.4
35°	727.5	667.7	627.0	608.9	597.2
37.5°	542.9	493.1	466.0	448.8	449.7
40°	415.3	389.1	374.6	362.8	363.7
42.5°	346.5	334.8	331.2	325.7	323.0
45°	314.0	310.3	311.2	305.8	304.0
47.5°	295.9	293.2	294.1	290.4	289.5
50°	281.4	279.6	280.5	277.8	276.9
52.5°	266.9	267.8	266.9	265.1	265.1
55°	254.2	253.3	255.2	252.4	252.4
57.5°	244.3	243.4	243.4	242.5	242.5
60°	238.9	235.2	234.3	234.3	235.2
62.5°	236.2	229.8	228.9	228.9	229.8
65°	237.1	227.1	223.5	222.6	221.7
67°	238.0	223.5	216.2	212.6	211.7
67.5°	238.9	221.7	213.5	209.9	208.1
70°	233.4	209.0	197.2	190.9	189.1
72.5°	219.9	193.6	179.1	171.0	169.2
75°	195.4	175.5	162.9	153.8	150.2
77.5°	151.1	142.1	137.5	132.1	130.3
80°	117.6	113.1	111.3	107.7	106.8
82.5°	97.7	93.2	90.5	86.0	83.2
85°	76.0	70.6	68.8	65.1	63.3
87.5°	49.8	47.0	46.1	41.6	39.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)