

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: P152176

Luminaire Tested: **VXS-F04-LED-E1-SL4-7050**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P152176
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-F04-LED-E1-SL4-7050
Description: VISION SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (28) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10009.4 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 102.2
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

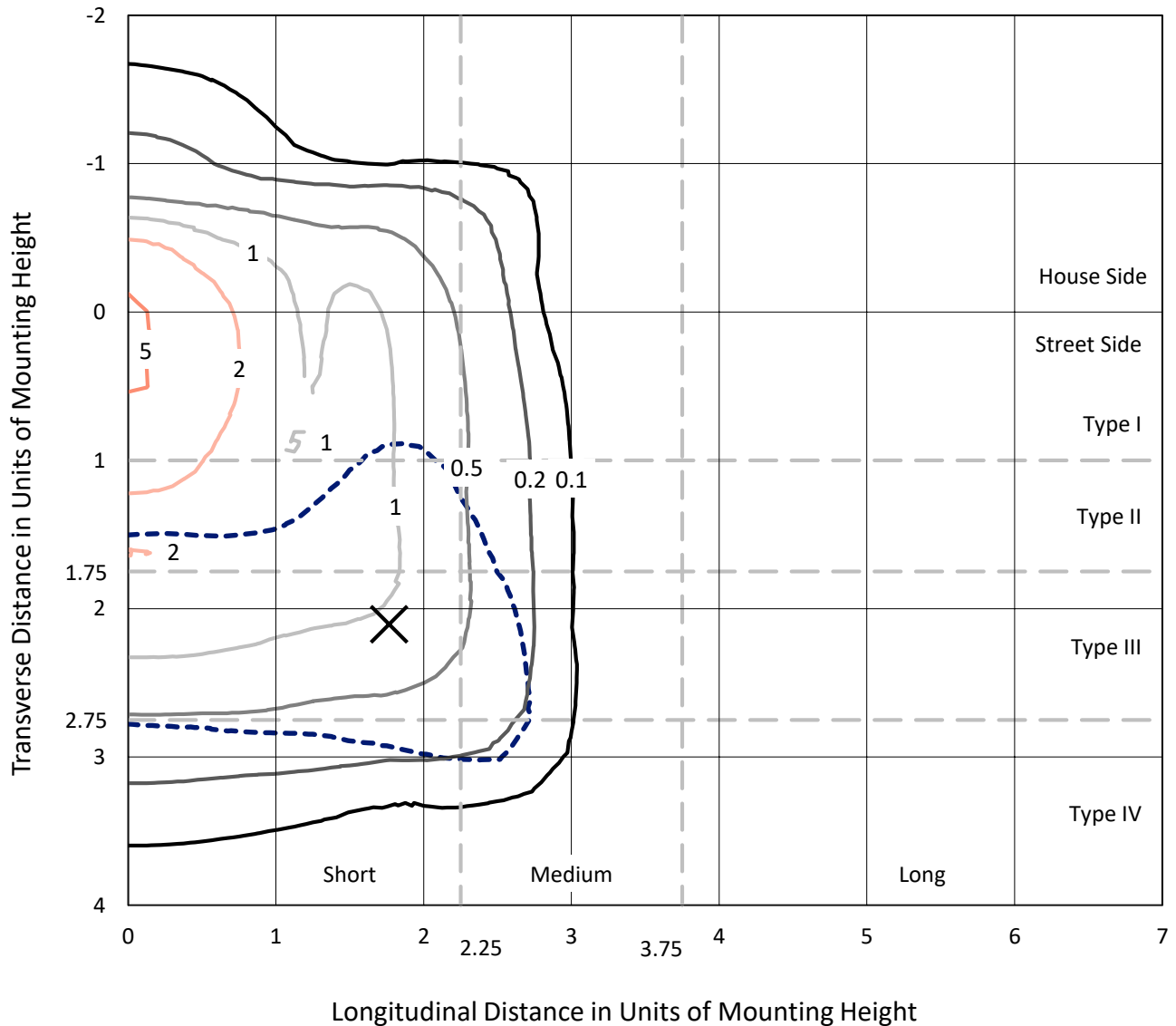


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Iso-Footcandle Lines of Horizontal Illumination

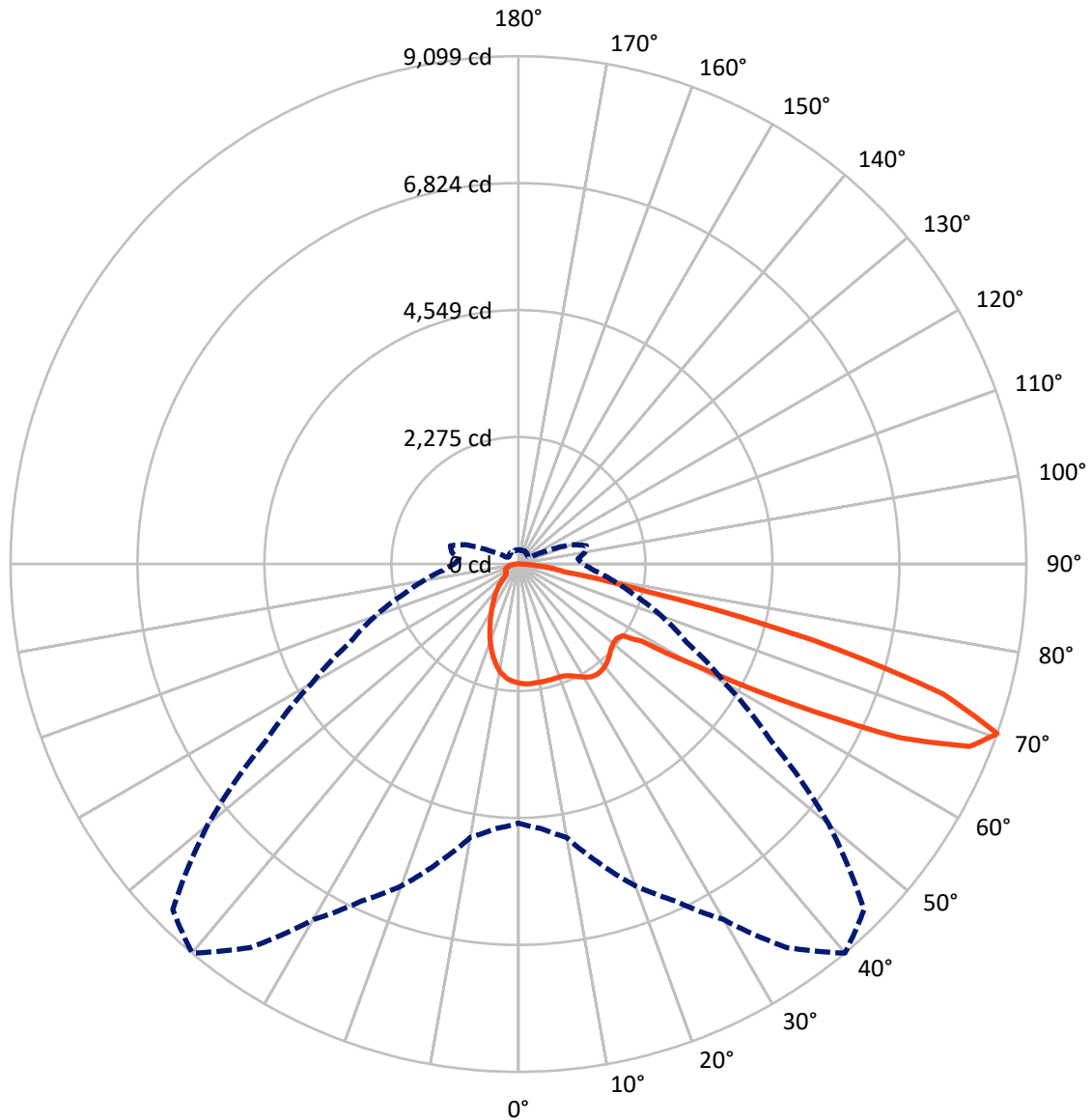
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2077.8	0.0	2077.8
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	7931.6	0.0	7931.6
	% Fixture	79.2	0.0	79.2
Total	Lumens	10009.4	0.0	10009.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.5	2.0
10°-20°	546.2	5.5
20°-30°	808.6	8.1
30°-40°	1021.9	10.2
40°-50°	1155.7	11.5
50°-60°	1644.5	16.4
60°-70°	3062.8	30.6
70°-80°	1403.7	14.0
80°-90°	166.6	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°	10009.4	100.0
0°-180°	10009.4	100.0

Coefficient of Utilization



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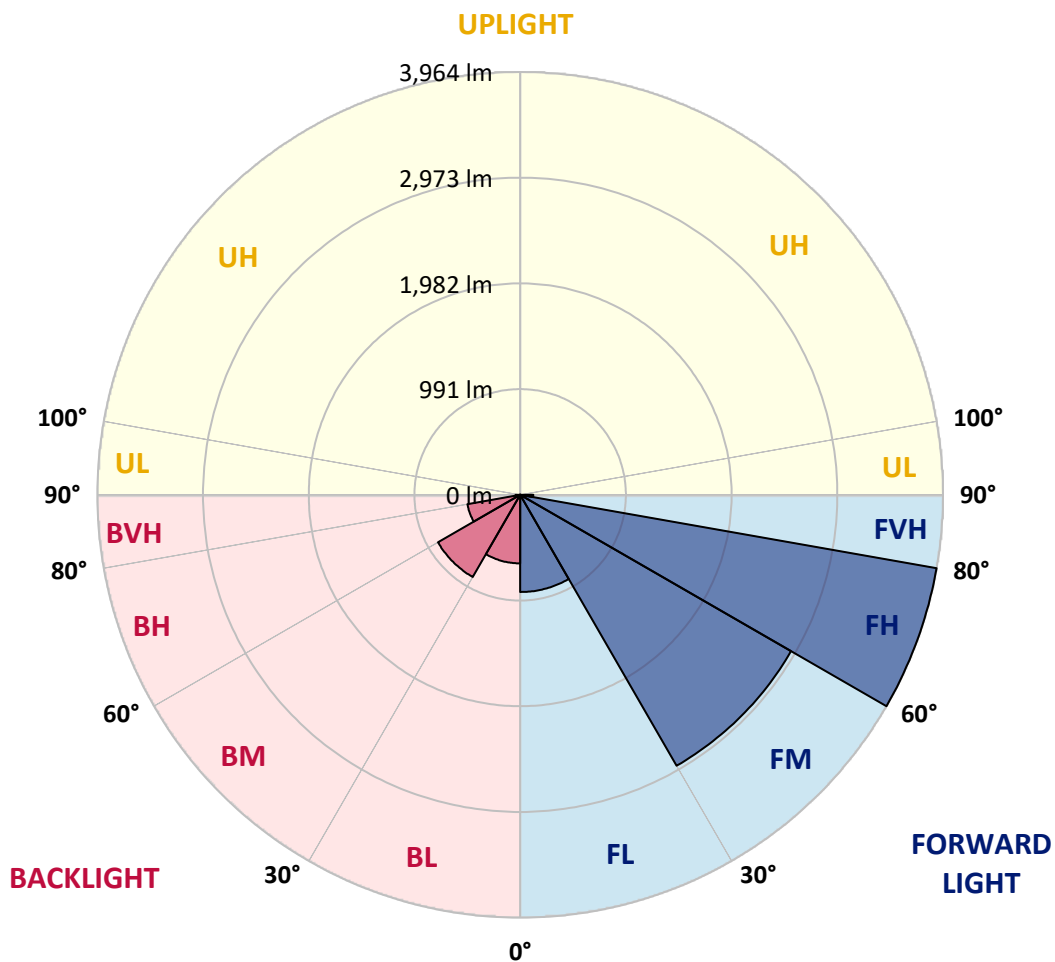
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	911.4	9.1			
FM	(30°-60°)	2932.4	29.3			
FH	(60°-80°)	3964.1	39.6			G2/5000
FVH	(80°-90°)	123.6	1.2			G2/225
BL	(0°-30°)	642.9	6.4	B2/1000		
BM	(30°-60°)	889.6	8.9	B1/1000		
BH	(60°-80°)	502.3	5.0	B2/1000		G2/1000
BVH	(80°-90°)	43.0	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2135.8	2135.8	2135.8	2135.8	2135.8	2135.8	2135.8	2135.8	2135.8	2135.8	2135.8
2.5°	2168.5	2174.2	2167.4	2166.2	2166.2	2165.1	2158.3	2157.2	2148.2	2149.3	2151.6
5°	2184.4	2186.6	2182.1	2180.9	2178.7	2174.2	2168.5	2161.8	2154.9	2148.2	2142.5
7.5°	2200.1	2197.9	2194.5	2194.5	2191.1	2184.4	2173.1	2164.0	2149.3	2141.5	2131.2
10°	2222.7	2219.4	2214.8	2212.5	2206.9	2196.8	2180.9	2168.5	2150.5	2134.6	2117.7
12.5°	2244.1	2243.0	2236.3	2232.8	2223.8	2213.7	2194.5	2175.3	2151.6	2126.7	2104.1
15°	2282.6	2278.0	2271.3	2264.6	2249.8	2236.3	2206.9	2184.4	2150.5	2117.7	2082.7
17.5°	2349.2	2341.3	2334.5	2319.9	2301.8	2278.0	2235.1	2196.8	2150.5	2103.0	2063.5
20°	2471.2	2454.3	2445.2	2426.0	2394.4	2351.5	2284.9	2222.7	2153.8	2092.8	2039.8
22.5°	2609.0	2597.7	2585.3	2572.8	2523.1	2461.0	2370.7	2278.0	2174.2	2088.3	2020.5
25°	2763.7	2749.0	2742.3	2720.8	2674.5	2603.3	2480.2	2351.5	2220.5	2106.4	2020.5
27.5°	2901.6	2897.0	2895.9	2871.0	2826.9	2743.4	2597.7	2443.0	2283.7	2143.6	2037.5
30°	3026.8	3022.4	3020.1	3006.5	2955.8	2856.4	2698.2	2524.2	2352.6	2195.6	2069.1
32.5°	3160.2	3145.5	3138.7	3112.7	3055.1	2938.8	2758.0	2577.4	2406.8	2246.4	2104.1
35°	3268.6	3256.2	3242.6	3205.3	3124.0	2986.2	2784.0	2595.4	2428.3	2274.7	2122.2
37.5°	3347.7	3335.2	3316.1	3268.6	3168.1	3002.1	2782.9	2589.7	2420.4	2270.2	2125.6
40°	3382.7	3370.3	3349.9	3290.1	3176.0	2993.0	2761.5	2563.8	2396.7	2246.4	2112.0
42.5°	3369.1	3360.1	3334.1	3276.5	3151.1	2952.3	2718.5	2515.2	2351.5	2208.1	2081.6
45°	3317.1	3310.4	3285.5	3224.6	3094.6	2886.8	2655.3	2454.3	2297.3	2160.6	2040.9
47.5°	3239.2	3237.0	3212.1	3152.2	3023.5	2821.3	2589.7	2394.4	2243.0	2114.3	2007.0
50°	3153.4	3142.1	3129.6	3074.3	2956.9	2764.9	2542.4	2357.1	2212.5	2097.4	1992.3
52.5°	3099.2	3095.8	3084.5	3034.8	2921.9	2732.1	2520.9	2343.6	2210.3	2094.0	1984.5
55°	3580.3	3588.2	3484.4	3268.6	3078.9	2822.5	2585.3	2412.4	2265.6	2148.2	2068.0
57.5°	5296.0	5260.9	5082.5	4654.4	4171.0	3532.8	3073.2	2794.2	2612.3	2632.7	2673.4
60°	6170.1	6163.3	6130.6	5964.6	5642.7	5157.0	4618.2	4000.4	3803.9	3825.4	3841.2
62.5°	6560.9	6571.1	6595.9	6533.8	6449.1	6307.9	6039.1	5790.6	5527.5	5429.2	5166.0
65°	6741.6	6759.7	6816.2	6851.2	6883.9	6908.7	7014.9	7306.3	7498.3	7139.2	6303.4
67.5°	6367.8	6454.7	6641.0	6822.9	6985.6	7217.1	7576.3	8252.7	8723.7	8282.2	7070.3
70°	4642.0	4760.5	4974.0	5536.5	6137.3	6662.5	7358.2	8388.3	9098.8	8757.6	7260.0
72.5°	2910.6	2943.3	3038.1	3244.9	3691.0	4365.3	5581.7	7126.7	7946.7	7674.5	6136.2
75°	1846.6	1857.9	1854.5	1902.0	1977.6	2124.5	2605.6	4209.4	5443.8	5019.2	3419.9
77.5°	1100.1	1117.0	1123.8	1138.4	1174.6	1226.5	1266.1	1432.1	2282.6	2216.0	1241.2
80°	921.7	935.1	923.8	920.5	897.9	882.1	901.2	882.1	818.9	788.4	726.2
82.5°	487.9	486.7	483.4	516.2	582.8	634.7	674.3	665.3	602.0	512.7	434.8
85°	267.7	276.7	276.7	288.0	277.8	279.0	288.0	303.8	281.2	234.9	192.0
87.5°	22.6	35.0	28.2	35.0	47.5	33.9	32.7	32.7	28.2	20.3	18.0
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2135.8	2135.8	2135.8	2135.8	2135.8	2135.8	2135.8	2135.8	2135.8	2135.8	2135.8
2.5°	2145.9	2143.6	2139.2	2135.8	2135.8	2130.2	2126.7	2124.5	2123.3	2118.9	2118.9
5°	2139.2	2131.2	2123.3	2117.7	2114.3	2108.7	2099.6	2095.1	2089.4	2085.0	2082.7
7.5°	2124.5	2109.7	2097.4	2088.3	2077.0	2068.0	2056.7	2046.5	2036.4	2031.8	2029.6
10°	2101.9	2082.7	2063.5	2046.5	2030.7	2014.9	2000.2	1985.6	1973.2	1964.0	1955.0
12.5°	2080.4	2051.1	2026.2	2001.3	1976.5	1957.3	1937.0	1915.5	1897.4	1880.5	1876.0
15°	2051.1	2017.2	1985.6	1955.0	1924.6	1893.0	1868.1	1844.4	1815.0	1795.8	1781.1
17.5°	2023.9	1983.3	1944.9	1908.7	1871.5	1838.8	1801.5	1769.8	1740.4	1711.1	1689.6
20°	1994.6	1950.6	1909.8	1869.2	1828.6	1786.7	1743.8	1703.2	1667.0	1632.0	1597.0
22.5°	1968.6	1923.4	1883.9	1839.9	1794.7	1747.3	1697.5	1646.7	1605.0	1559.8	1519.1
25°	1952.7	1903.1	1862.5	1819.5	1769.8	1717.8	1661.3	1601.6	1550.7	1498.8	1450.2
27.5°	1952.7	1888.4	1846.6	1803.7	1752.8	1697.5	1635.4	1569.9	1512.3	1454.7	1394.8
30°	1969.7	1890.7	1834.2	1789.0	1737.1	1677.2	1608.3	1539.4	1476.2	1408.4	1350.8
32.5°	1985.6	1895.2	1825.2	1767.6	1707.7	1649.0	1579.0	1505.5	1435.5	1371.1	1310.2
35°	1995.8	1895.2	1808.2	1734.8	1667.0	1609.4	1540.5	1467.2	1396.0	1332.7	1276.3
37.5°	1996.9	1886.1	1781.1	1697.5	1626.4	1566.5	1501.0	1432.1	1364.4	1305.6	1258.2
40°	1985.6	1868.1	1754.0	1658.0	1583.4	1522.5	1462.6	1400.5	1339.5	1291.0	1250.3
42.5°	1965.2	1848.9	1728.1	1626.4	1548.5	1485.2	1429.8	1376.8	1323.7	1281.9	1248.0
45°	1934.7	1822.9	1704.4	1607.2	1530.4	1463.7	1409.5	1365.5	1320.3	1285.3	1251.4
47.5°	1907.6	1813.9	1712.2	1619.6	1539.4	1470.6	1415.1	1377.9	1342.9	1319.2	1272.8
50°	1902.0	1809.3	1715.6	1629.7	1548.5	1478.4	1429.8	1410.7	1400.5	1385.8	1314.6
52.5°	1886.1	1808.2	1740.4	1693.1	1641.0	1608.3	1557.5	1575.5	1564.2	1512.3	1383.5
55°	2052.2	2074.8	2138.0	2228.4	2311.9	2331.2	2325.5	2304.0	2189.9	1883.9	1549.5
57.5°	2821.3	2948.9	3068.7	3121.8	3115.0	3055.1	3012.2	2925.3	2760.3	2387.7	1877.1
60°	3889.7	3910.1	3846.8	3753.2	3595.0	3462.8	3321.7	3159.1	2919.6	2554.8	2078.1
62.5°	4873.5	4600.2	4319.0	4054.7	3814.1	3604.0	3407.5	3180.5	2868.8	2488.2	2052.2
65°	5568.1	4989.8	4546.0	4166.5	3826.5	3532.8	3287.8	2993.0	2641.8	2298.4	1902.0
67.5°	5926.1	5039.6	4358.4	3829.9	3347.7	2941.0	2614.6	2327.8	2066.8	1916.7	1664.8
70°	5526.3	4277.2	3328.4	2731.0	2153.8	1726.9	1364.4	1145.3	1069.5	1211.9	1260.4
72.5°	4117.9	2784.0	1979.9	1531.5	1173.5	935.1	717.2	563.6	458.5	481.1	624.6
75°	1947.2	1201.8	849.3	646.0	513.9	425.8	347.9	318.5	266.5	221.3	207.8
77.5°	757.8	552.3	456.3	334.3	237.2	190.9	162.6	157.0	160.4	155.9	153.6
80°	577.1	390.8	245.1	179.6	154.7	136.7	120.8	116.4	118.5	124.2	129.8
82.5°	321.9	201.0	149.1	129.8	116.4	99.4	90.4	83.6	84.7	91.5	103.9
85°	124.2	97.1	89.2	85.8	80.2	64.4	55.3	56.5	64.4	76.8	76.8
87.5°	13.6	13.6	18.0	13.6	13.6	13.6	12.4	14.7	15.9	20.3	23.7
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°	2135.8	2135.8	2135.8	2135.8	2135.8	2135.8	2135.8	2135.8	2135.8	2135.8	2135.8
2.5°	2116.6	2116.6	2116.6	2114.3	2115.4	2110.9	2110.9	2107.6	2113.2	2109.7	2108.7
5°	2083.8	2082.7	2078.1	2078.1	2078.1	2078.1	2081.6	2072.5	2079.3	2079.3	2075.9
7.5°	2028.5	2028.5	2016.1	2022.8	2020.5	2023.9	2028.5	2023.9	2030.7	2035.2	2031.8
10°	1951.7	1951.7	1941.5	1949.4	1946.0	1953.9	1961.9	1957.3	1961.9	1968.6	1970.9
12.5°	1866.9	1862.5	1853.4	1856.8	1856.8	1861.3	1864.7	1870.4	1876.0	1885.0	1889.5
15°	1768.7	1762.0	1750.7	1750.7	1743.8	1746.1	1752.8	1755.1	1766.4	1778.9	1793.6
17.5°	1668.2	1651.2	1638.9	1624.1	1612.8	1621.9	1629.7	1635.4	1644.5	1663.6	1673.8
20°	1573.3	1539.4	1515.8	1496.5	1484.0	1489.7	1499.9	1506.6	1514.6	1519.1	1522.5
22.5°	1479.6	1441.1	1408.4	1384.7	1364.4	1370.1	1365.5	1362.1	1367.8	1353.1	1351.9
25°	1398.2	1353.1	1309.0	1280.8	1256.0	1248.0	1224.4	1218.7	1202.8	1190.5	1181.3
27.5°	1339.5	1280.8	1232.2	1199.5	1159.9	1130.6	1100.1	1069.5	1052.6	1032.3	1022.2
30°	1293.2	1231.1	1173.5	1118.1	1066.2	1021.0	980.3	940.8	913.7	884.4	865.2
32.5°	1250.3	1192.6	1122.7	1046.9	977.0	926.1	873.1	827.9	785.0	746.5	718.3
35°	1220.9	1156.6	1067.4	974.7	895.6	835.8	779.3	714.9	663.0	613.3	582.8
37.5°	1205.1	1126.0	1016.5	913.7	825.6	757.8	687.9	613.3	550.1	503.7	457.4
40°	1192.6	1095.5	971.3	859.5	766.8	685.6	604.2	516.2	446.1	397.5	361.5
42.5°	1179.2	1061.7	931.8	816.6	713.8	619.0	520.6	426.9	360.3	326.4	310.6
45°	1164.5	1032.3	894.5	776.0	661.9	546.6	433.7	346.7	307.3	296.0	296.0
47.5°	1161.0	1013.1	867.4	736.4	603.1	463.1	353.5	299.3	288.0	290.3	294.8
50°	1174.6	1007.5	843.7	690.1	525.2	374.9	299.3	281.2	283.5	290.3	297.0
52.5°	1207.4	1012.0	818.9	625.7	432.5	309.4	276.7	275.5	282.4	292.5	299.3
55°	1262.7	1012.0	771.4	529.7	345.6	277.8	268.8	273.4	282.4	291.4	297.0
57.5°	1381.3	1001.8	687.9	423.5	289.1	266.5	266.5	272.2	280.1	289.1	293.7
60°	1522.5	988.3	570.4	327.6	260.9	257.5	265.4	272.2	279.0	286.8	291.4
62.5°	1531.5	953.3	451.8	271.1	246.2	251.8	264.2	273.4	275.5	281.2	286.8
65°	1407.3	831.3	359.2	242.8	239.5	248.5	260.9	267.7	268.8	271.1	276.7
67.5°	1232.2	677.6	290.3	229.3	232.6	242.8	249.6	255.2	258.7	264.2	265.4
70°	1012.0	544.4	248.5	215.8	219.1	230.4	236.1	241.7	248.5	255.2	251.8
72.5°	717.2	423.5	218.0	201.0	205.6	215.8	222.5	227.0	232.6	239.5	234.9
75°	305.0	296.0	188.6	181.9	188.6	195.4	202.2	208.9	214.6	218.0	218.0
77.5°	155.9	173.9	162.6	162.6	167.2	173.9	179.6	186.3	189.7	193.2	197.6
80°	132.1	134.4	136.7	141.1	145.7	152.4	158.1	163.7	164.9	166.0	168.3
82.5°	109.5	114.1	116.4	123.1	126.5	128.7	132.1	132.1	134.4	134.4	131.0
85°	79.1	84.7	88.1	89.2	88.1	89.2	90.4	92.6	98.2	98.2	93.8
87.5°	22.6	21.5	27.2	28.2	30.5	35.0	39.5	47.5	49.7	51.9	51.9
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°	2135.8	2135.8	2135.8	2135.8
2.5°	2107.6	2109.7	2105.3	2106.4
5°	2075.9	2080.4	2074.8	2081.6
7.5°	2035.2	2042.0	2040.9	2039.8
10°	1976.5	1985.6	1985.6	1988.9
12.5°	1902.0	1907.6	1912.1	1914.4
15°	1801.5	1811.6	1817.3	1817.3
17.5°	1680.6	1687.4	1690.8	1686.2
20°	1527.0	1524.8	1525.9	1514.6
22.5°	1349.6	1353.1	1342.9	1345.2
25°	1175.8	1170.1	1174.6	1167.9
27.5°	1007.5	1008.6	996.2	1001.8
30°	847.0	841.5	825.6	833.5
32.5°	692.3	677.6	660.7	650.6
35°	546.6	524.0	516.2	512.7
37.5°	429.2	404.4	396.5	387.4
40°	341.1	332.0	328.7	330.9
42.5°	306.1	306.1	308.3	309.4
45°	297.0	300.4	303.8	305.0
47.5°	298.1	301.6	306.1	307.3
50°	300.4	303.8	307.3	308.3
52.5°	301.6	301.6	303.8	305.0
55°	299.3	298.1	299.3	300.4
57.5°	294.8	292.5	293.7	297.0
60°	292.5	289.1	291.4	293.7
62.5°	286.8	285.7	288.0	289.1
65°	274.4	275.5	279.0	279.0
67.5°	263.1	264.2	265.4	266.5
70°	249.6	250.8	253.0	254.1
72.5°	233.8	238.3	241.7	246.2
75°	221.3	225.9	232.6	237.2
77.5°	199.9	203.3	211.2	216.9
80°	169.4	168.3	169.4	172.8
82.5°	129.8	129.8	128.7	127.7
85°	91.5	90.4	86.9	86.9
87.5°	49.7	48.6	47.5	45.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)