

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: P152175

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P152175
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
Description: VISION SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (28) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9754.8 lumens
Efficiency: N/A
Efficacy: 95.4 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

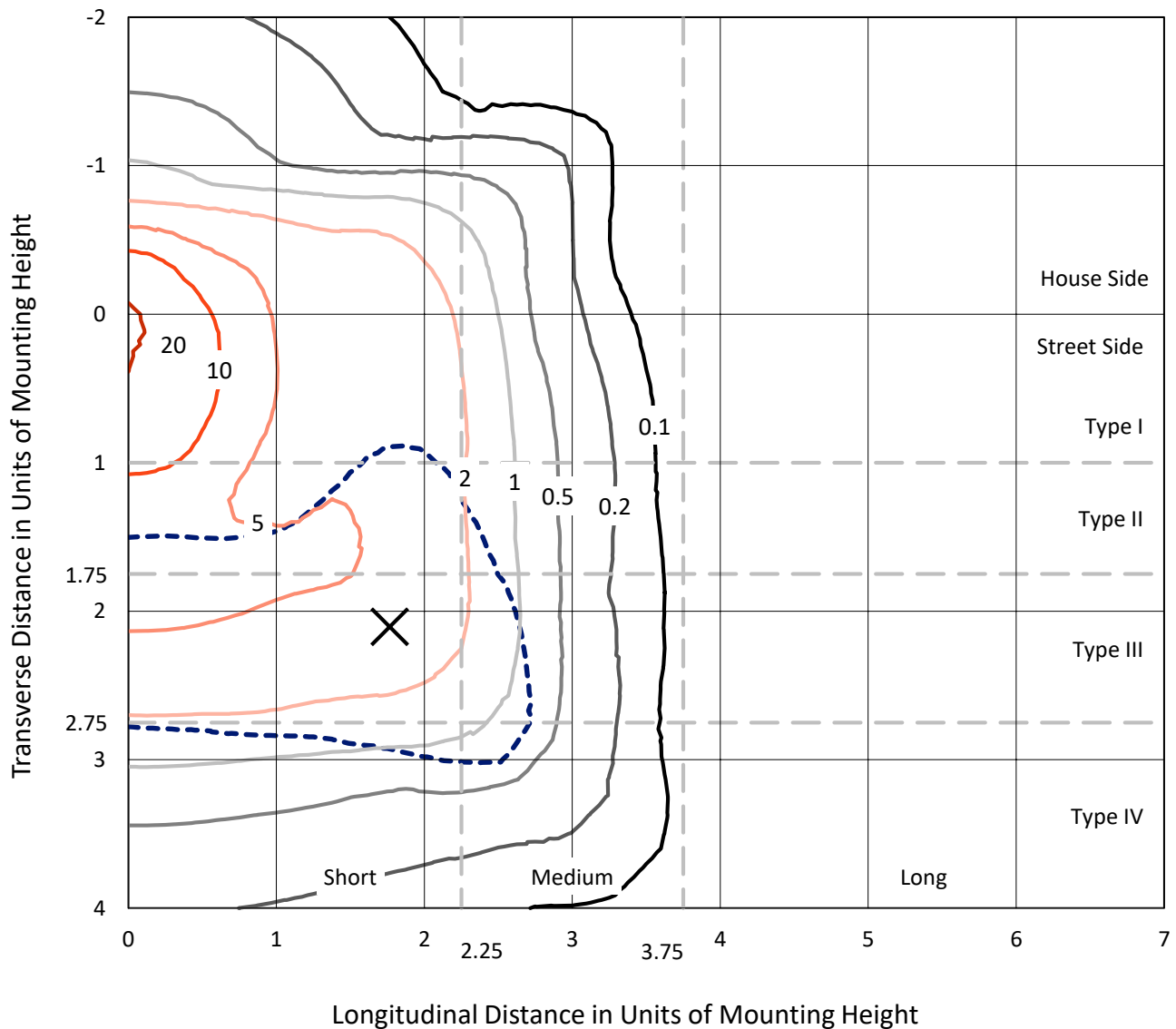


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

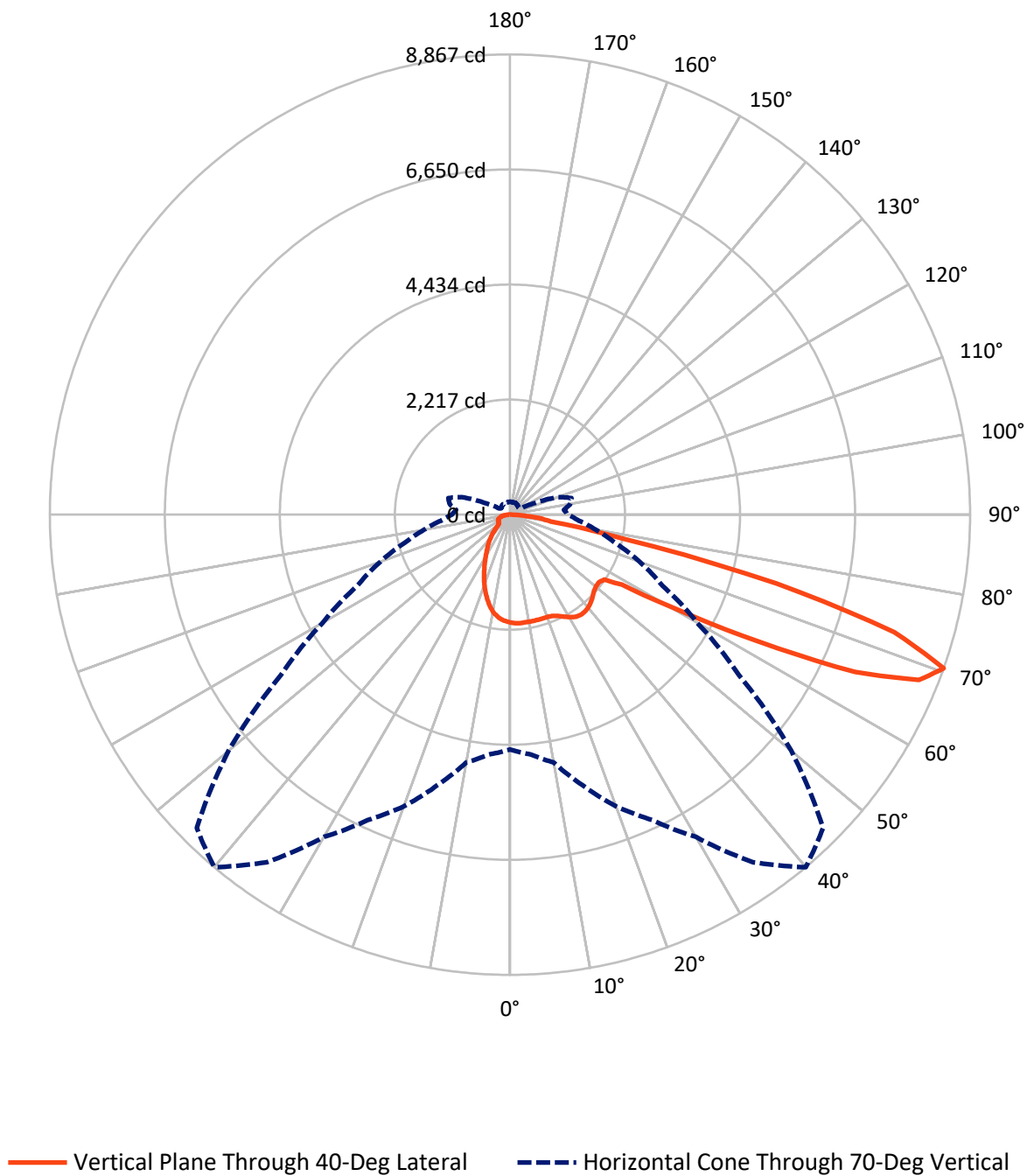


Based on 10 foot mounting height. Maximum calculated value = 20.9 fc
Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2025.0	0.0	2025.0
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	7729.8	0.0	7729.8
	% Fixture	79.2	0.0	79.2
Total	Lumens	9754.8	0.0	9754.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.5	2.0
10°-20°	532.3	5.5
20°-30°	788.0	8.1
30°-40°	995.9	10.2
40°-50°	1126.3	11.5
50°-60°	1602.7	16.4
60°-70°	2984.8	30.6
70°-80°	1368.0	14.0
80°-90°	162.4	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°	9754.8	100.0
0°-180°	9754.8	100.0

Coefficient of Utilization



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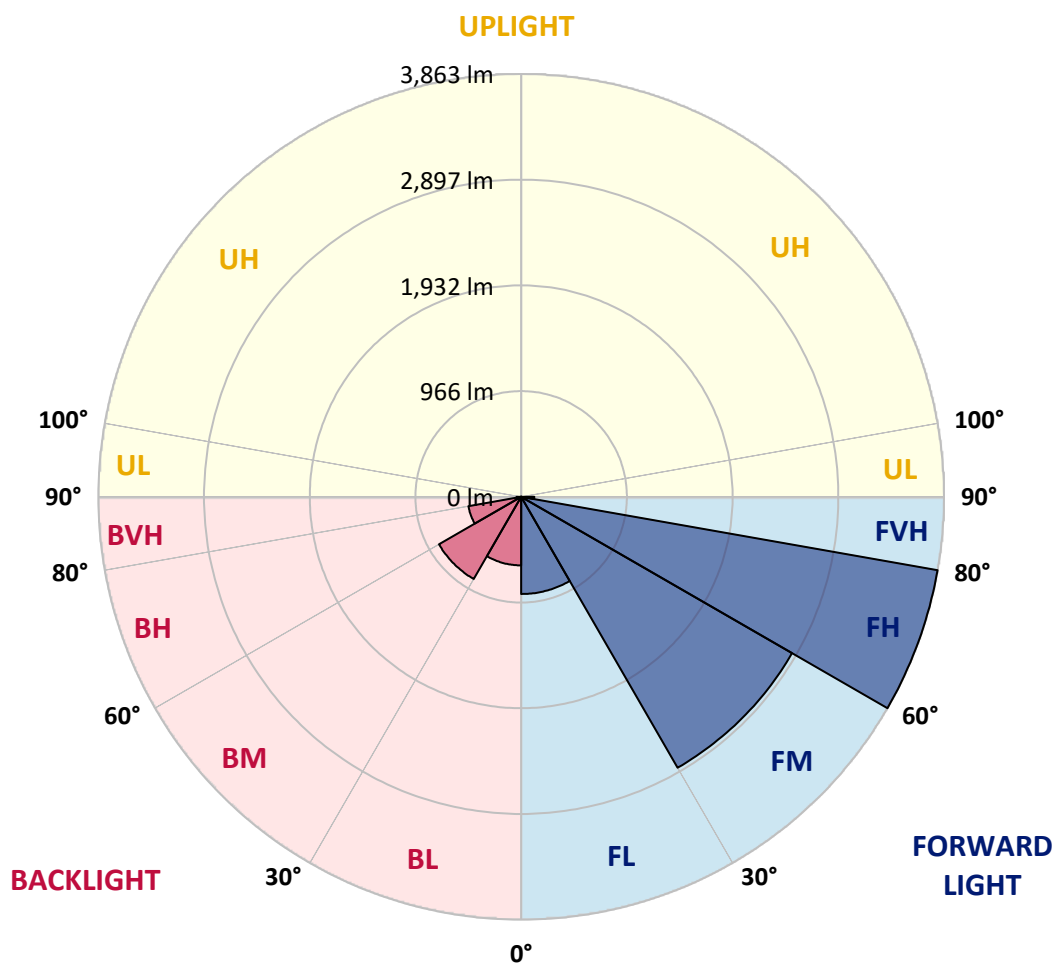
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	888.2	9.1			
FM	(30°-60°)	2857.8	29.3			
FH	(60°-80°)	3863.3	39.6			G2/5000
FVH	(80°-90°)	120.5	1.2			G2/225
BL	(0°-30°)	626.5	6.4	B2/1000		
BM	(30°-60°)	867.0	8.9	B1/1000		
BH	(60°-80°)	489.5	5.0	B1/500		G1/500
BVH	(80°-90°)	41.9	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°	2081.5	2081.5	2081.5	2081.5	2081.5	2081.5	2081.5	2081.5	2081.5	2081.5	2081.5
2.5°	2113.4	2118.9	2112.2	2111.2	2111.2	2110.1	2103.4	2102.4	2093.6	2094.6	2096.8
5°	2128.7	2131.0	2126.5	2125.5	2123.2	2118.9	2113.4	2106.7	2100.1	2093.6	2088.0
7.5°	2144.1	2142.0	2138.7	2138.7	2135.3	2128.7	2117.7	2108.9	2094.6	2086.9	2077.0
10°	2166.2	2162.9	2158.4	2156.3	2150.8	2140.8	2125.5	2113.4	2095.8	2080.3	2063.8
12.5°	2187.0	2186.0	2179.4	2176.1	2167.3	2157.4	2138.7	2119.9	2096.8	2072.6	2050.6
15°	2224.6	2220.1	2213.5	2206.9	2192.6	2179.4	2150.8	2128.7	2095.8	2063.8	2029.7
17.5°	2289.4	2281.8	2275.1	2260.8	2243.2	2220.1	2178.2	2140.8	2095.8	2049.5	2011.0
20°	2408.3	2391.8	2383.0	2364.4	2333.5	2291.6	2226.7	2166.2	2099.1	2039.6	1987.9
22.5°	2542.6	2531.6	2519.5	2507.4	2459.0	2398.4	2310.4	2220.1	2118.9	2035.2	1969.1
25°	2693.4	2679.1	2672.5	2651.6	2606.4	2537.1	2417.1	2291.6	2163.9	2052.8	1969.1
27.5°	2827.7	2823.3	2822.2	2797.9	2755.0	2673.6	2531.6	2380.8	2225.6	2089.1	1985.7
30°	2949.8	2945.5	2943.3	2930.1	2880.5	2783.6	2629.5	2460.1	2292.7	2139.8	2016.5
32.5°	3079.8	3065.5	3058.9	3033.6	2977.4	2864.0	2687.9	2511.8	2345.6	2189.3	2050.6
35°	3185.4	3173.4	3160.1	3123.8	3044.6	2910.3	2713.3	2529.4	2366.5	2216.8	2068.2
37.5°	3262.5	3250.4	3231.6	3185.4	3087.5	2925.7	2712.1	2523.9	2358.8	2212.4	2071.5
40°	3296.6	3284.5	3264.7	3206.3	3095.1	2916.9	2691.2	2498.5	2335.6	2189.3	2058.3
42.5°	3283.4	3274.6	3249.2	3193.2	3071.0	2877.2	2649.4	2451.3	2291.6	2151.9	2028.6
45°	3232.7	3226.1	3202.0	3142.5	3016.0	2813.4	2587.8	2391.8	2238.9	2105.6	1989.0
47.5°	3156.8	3154.6	3130.4	3072.0	2946.5	2749.5	2523.9	2333.5	2186.0	2060.5	1956.0
50°	3073.2	3062.2	3050.1	2996.1	2881.7	2694.5	2477.7	2297.2	2156.3	2044.0	1941.7
52.5°	3020.3	3017.0	3006.0	2957.6	2847.5	2662.6	2456.8	2283.9	2154.1	2040.7	1933.9
55°	3489.2	3496.9	3395.6	3185.4	3000.5	2750.7	2519.5	2351.1	2208.0	2093.6	2015.3
57.5°	5161.1	5127.0	4953.2	4536.0	4064.9	3443.0	2995.0	2723.1	2545.9	2565.7	2605.4
60°	6013.2	6006.5	5974.6	5812.7	5499.1	5025.8	4500.7	3898.7	3707.2	3728.1	3743.5
62.5°	6394.0	6403.8	6428.1	6367.6	6285.0	6147.4	5885.5	5643.3	5386.8	5291.1	5034.6
65°	6570.1	6587.7	6642.7	6676.9	6708.8	6733.0	6836.5	7120.4	7307.6	6957.5	6143.0
67.5°	6205.7	6290.5	6472.1	6649.3	6807.9	7033.5	7383.5	8042.8	8501.8	8071.4	6890.4
70°	4523.8	4639.5	4847.5	5395.6	5981.2	6493.1	7171.1	8174.9	8867.3	8534.8	7075.3
72.5°	2836.5	2868.4	2960.9	3162.3	3597.1	4254.2	5439.7	6945.4	7744.6	7479.3	5980.1
75°	1799.7	1810.7	1807.4	1853.6	1927.4	2070.5	2539.3	4102.3	5305.4	4891.5	3333.0
77.5°	1072.1	1088.6	1095.2	1109.5	1144.8	1195.3	1233.9	1395.6	2224.6	2159.6	1209.6
80°	898.1	911.4	900.4	897.1	875.0	859.7	878.3	859.7	798.0	768.3	707.8
82.5°	475.5	474.4	471.1	503.0	568.0	618.5	657.1	648.3	586.6	499.7	423.7
85°	260.8	269.6	269.6	280.7	270.8	271.9	280.7	296.1	274.1	228.9	187.2
87.5°	22.0	34.1	27.6	34.1	46.2	33.1	31.9	31.9	27.6	19.8	17.6
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°	2081.5	2081.5	2081.5	2081.5	2081.5	2081.5	2081.5	2081.5	2081.5	2081.5	2081.5
2.5°	2091.3	2089.1	2084.8	2081.5	2081.5	2076.0	2072.6	2070.5	2069.3	2064.9	2064.9
5°	2084.8	2077.0	2069.3	2063.8	2060.5	2055.0	2046.2	2041.8	2036.3	2031.9	2029.7
7.5°	2070.5	2056.1	2044.0	2035.2	2024.1	2015.3	2004.4	1994.5	1984.6	1980.2	1977.9
10°	2048.4	2029.7	2011.0	1994.5	1979.1	1963.6	1949.3	1935.0	1922.9	1914.1	1905.3
12.5°	2027.5	1998.9	1974.6	1950.5	1926.2	1907.5	1887.7	1866.7	1849.2	1832.6	1828.3
15°	1998.9	1965.8	1935.0	1905.3	1875.5	1844.8	1820.5	1797.4	1768.8	1750.2	1735.9
17.5°	1972.4	1932.8	1895.4	1860.2	1823.8	1791.9	1755.6	1724.8	1696.2	1667.6	1646.6
20°	1943.8	1900.9	1861.2	1821.7	1782.1	1741.3	1699.5	1659.9	1624.7	1590.5	1556.4
22.5°	1918.5	1874.5	1836.0	1793.1	1749.0	1702.8	1654.3	1604.9	1564.1	1520.1	1480.4
25°	1903.1	1854.7	1815.0	1773.3	1724.8	1674.2	1619.2	1560.8	1511.3	1460.6	1413.3
27.5°	1903.1	1840.4	1799.7	1757.8	1708.3	1654.3	1593.8	1529.9	1473.9	1417.7	1359.4
30°	1919.6	1842.6	1787.6	1743.5	1692.8	1634.5	1567.4	1500.2	1438.7	1372.5	1316.5
32.5°	1935.0	1846.9	1778.8	1722.6	1664.2	1607.0	1538.8	1467.3	1399.0	1336.3	1276.8
35°	1945.0	1846.9	1762.2	1690.7	1624.7	1568.5	1501.3	1429.8	1360.4	1298.9	1243.8
37.5°	1946.0	1838.1	1735.9	1654.3	1585.0	1526.6	1462.8	1395.6	1329.6	1272.4	1226.2
40°	1935.0	1820.5	1709.4	1615.9	1543.2	1483.7	1425.4	1364.9	1305.4	1258.1	1218.4
42.5°	1915.2	1801.9	1684.0	1585.0	1509.0	1447.5	1393.5	1341.8	1290.1	1249.3	1216.3
45°	1885.5	1776.6	1660.9	1566.3	1491.4	1426.5	1373.7	1330.8	1286.7	1252.6	1219.6
47.5°	1859.1	1767.8	1668.7	1578.4	1500.2	1433.2	1379.2	1342.9	1308.7	1285.6	1240.5
50°	1853.6	1763.3	1671.9	1588.3	1509.0	1440.8	1393.5	1374.8	1364.9	1350.6	1281.2
52.5°	1838.1	1762.2	1696.2	1649.9	1599.3	1567.4	1517.8	1535.4	1524.5	1473.9	1348.4
55°	2000.0	2022.0	2083.6	2171.7	2253.2	2271.8	2266.3	2245.4	2134.3	1836.0	1510.2
57.5°	2749.5	2873.9	2990.6	3042.4	3035.8	2977.4	2935.5	2850.8	2690.2	2326.8	1829.3
60°	3790.8	3810.7	3749.0	3657.6	3503.5	3374.7	3237.2	3078.7	2845.3	2489.7	2025.3
62.5°	4749.5	4483.1	4209.1	3951.5	3717.1	3512.3	3320.8	3099.6	2795.8	2424.9	2000.0
65°	5426.4	4862.9	4430.4	4060.5	3729.2	3443.0	3204.1	2916.9	2574.5	2239.9	1853.6
67.5°	5775.3	4911.3	4247.6	3732.4	3262.5	2866.2	2548.1	2268.5	2014.3	1867.9	1622.4
70°	5385.7	4168.4	3243.7	2661.5	2099.1	1683.0	1329.6	1116.1	1042.4	1181.0	1228.4
72.5°	4013.2	2713.3	1929.5	1492.5	1143.6	911.4	699.0	549.2	446.8	468.9	608.7
75°	1897.6	1171.2	827.8	629.6	500.8	414.9	339.1	310.4	259.8	215.8	202.5
77.5°	738.5	538.2	444.7	325.8	231.2	186.0	158.5	153.0	156.3	151.9	149.7
80°	562.5	380.8	238.9	175.0	150.8	133.2	117.8	113.4	115.5	121.0	126.6
82.5°	313.7	196.0	145.3	126.6	113.4	96.9	88.1	81.5	82.6	89.1	101.2
85°	121.0	94.6	86.9	83.6	78.1	62.7	53.9	55.0	62.7	74.8	74.8
87.5°	13.2	13.2	17.6	13.2	13.2	13.2	12.1	14.3	15.4	19.8	23.1
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2081.5	2081.5	2081.5	2081.5	2081.5	2081.5	2081.5	2081.5	2081.5	2081.5	2081.5
2.5°	2062.7	2062.7	2062.7	2060.5	2061.7	2057.2	2057.2	2053.9	2059.4	2056.1	2055.0
5°	2030.8	2029.7	2025.3	2025.3	2025.3	2025.3	2028.6	2019.8	2026.4	2026.4	2023.1
7.5°	1976.9	1976.9	1964.8	1971.4	1969.1	1972.4	1976.9	1972.4	1979.1	1983.4	1980.2
10°	1902.0	1902.0	1892.1	1899.8	1896.5	1904.2	1911.9	1907.5	1911.9	1918.5	1920.7
12.5°	1819.5	1815.0	1806.2	1809.5	1809.5	1814.0	1817.3	1822.8	1828.3	1837.1	1841.5
15°	1723.7	1717.1	1706.1	1706.1	1699.5	1701.7	1708.3	1710.5	1721.5	1733.6	1747.9
17.5°	1625.7	1609.2	1597.1	1582.8	1571.8	1580.6	1588.3	1593.8	1602.6	1621.3	1631.2
20°	1533.3	1500.2	1477.1	1458.4	1446.3	1451.8	1461.8	1468.3	1476.1	1480.4	1483.7
22.5°	1441.9	1404.5	1372.5	1349.4	1329.6	1335.1	1330.8	1327.5	1333.0	1318.7	1317.5
25°	1362.7	1318.7	1275.8	1248.2	1223.9	1216.3	1193.2	1187.7	1172.2	1160.1	1151.3
27.5°	1305.4	1248.2	1200.8	1168.9	1130.5	1101.8	1072.1	1042.4	1025.8	1006.0	996.2
30°	1260.3	1199.8	1143.6	1089.7	1039.1	995.0	955.4	916.9	890.5	861.9	843.1
32.5°	1218.4	1162.4	1094.1	1020.3	952.1	902.6	850.9	806.8	765.0	727.6	700.0
35°	1189.8	1127.2	1040.2	949.9	872.8	814.5	759.5	696.8	646.1	597.7	568.0
37.5°	1174.4	1097.4	990.7	890.5	804.7	738.5	670.4	597.7	536.1	490.9	445.8
40°	1162.4	1067.7	946.6	837.6	747.4	668.1	588.9	503.0	434.8	387.5	352.2
42.5°	1149.1	1034.6	908.1	795.9	695.6	603.2	507.5	416.1	351.1	318.1	302.7
45°	1134.8	1006.0	871.7	756.2	645.0	532.7	422.7	337.9	299.4	288.4	288.4
47.5°	1131.5	987.4	845.4	717.6	587.8	451.3	344.6	291.7	280.7	282.9	287.3
50°	1144.8	981.9	822.2	672.5	511.8	365.4	291.7	274.1	276.3	282.9	289.5
52.5°	1176.7	986.2	798.0	609.7	421.6	301.6	269.6	268.6	275.1	285.1	291.7
55°	1230.6	986.2	751.8	516.3	336.8	270.8	262.0	266.3	275.1	283.9	289.5
57.5°	1346.1	976.3	670.4	412.7	281.8	259.8	259.8	265.3	273.0	281.8	286.2
60°	1483.7	963.1	555.9	319.2	254.3	251.0	258.7	265.3	271.9	279.6	283.9
62.5°	1492.5	929.0	440.3	264.1	240.0	245.5	257.5	266.3	268.6	274.1	279.6
65°	1371.5	810.2	350.1	236.7	233.4	242.2	254.3	260.8	262.0	264.1	269.6
67.5°	1200.8	660.4	282.9	223.4	226.7	236.7	243.2	248.8	252.0	257.5	258.7
70°	986.2	530.6	242.2	210.3	213.6	224.6	230.1	235.5	242.2	248.8	245.5
72.5°	699.0	412.7	212.4	196.0	200.3	210.3	216.8	221.2	226.7	233.4	228.9
75°	297.2	288.4	183.8	177.2	183.8	190.5	197.0	203.6	209.1	212.4	212.4
77.5°	151.9	169.5	158.5	158.5	162.9	169.5	175.0	181.7	184.9	188.2	192.6
80°	128.8	131.0	133.2	137.6	142.0	148.6	154.1	159.6	160.7	161.8	164.0
82.5°	106.7	111.2	113.4	120.0	123.3	125.5	128.8	128.8	131.0	131.0	127.7
85°	77.1	82.6	85.8	86.9	85.8	86.9	88.1	90.3	95.8	95.8	91.4
87.5°	22.0	20.9	26.4	27.6	29.7	34.1	38.5	46.2	48.4	50.7	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):

	165°	170°	175°	180°
0°	2081.5	2081.5	2081.5	2081.5
2.5°	2053.9	2056.1	2051.7	2052.8
5°	2023.1	2027.5	2022.0	2028.6
7.5°	1983.4	1990.1	1989.0	1987.9
10°	1926.2	1935.0	1935.0	1938.3
12.5°	1853.6	1859.1	1863.5	1865.7
15°	1755.6	1765.5	1771.0	1771.0
17.5°	1637.8	1644.5	1647.8	1643.3
20°	1488.2	1485.9	1487.0	1476.1
22.5°	1315.3	1318.7	1308.7	1311.0
25°	1145.8	1140.3	1144.8	1138.1
27.5°	981.9	982.9	970.8	976.3
30°	825.5	820.0	804.7	812.3
32.5°	674.7	660.4	643.9	634.0
35°	532.7	510.7	503.0	499.7
37.5°	418.2	394.1	386.3	377.5
40°	332.4	323.6	320.3	322.5
42.5°	298.2	298.2	300.5	301.6
45°	289.5	292.7	296.1	297.2
47.5°	290.6	293.9	298.2	299.4
50°	292.7	296.1	299.4	300.5
52.5°	293.9	293.9	296.1	297.2
55°	291.7	290.6	291.7	292.7
57.5°	287.3	285.1	286.2	289.5
60°	285.1	281.8	283.9	286.2
62.5°	279.6	278.4	280.7	281.8
65°	267.5	268.6	271.9	271.9
67.5°	256.5	257.5	258.7	259.8
70°	243.2	244.4	246.5	247.7
72.5°	227.9	232.2	235.5	240.0
75°	215.8	220.1	226.7	231.2
77.5°	194.8	198.1	205.8	211.3
80°	165.1	164.0	165.1	168.4
82.5°	126.6	126.6	125.5	124.4
85°	89.1	88.1	84.8	84.8
87.5°	48.4	47.4	46.2	44.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)