

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: P152160

Luminaire Tested: **VXS-E03-LED-E1-SL4**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P152160
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-E03-LED-E1-SL4
Description: VISION SITE SMALL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (63) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8862.3 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 75.2
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



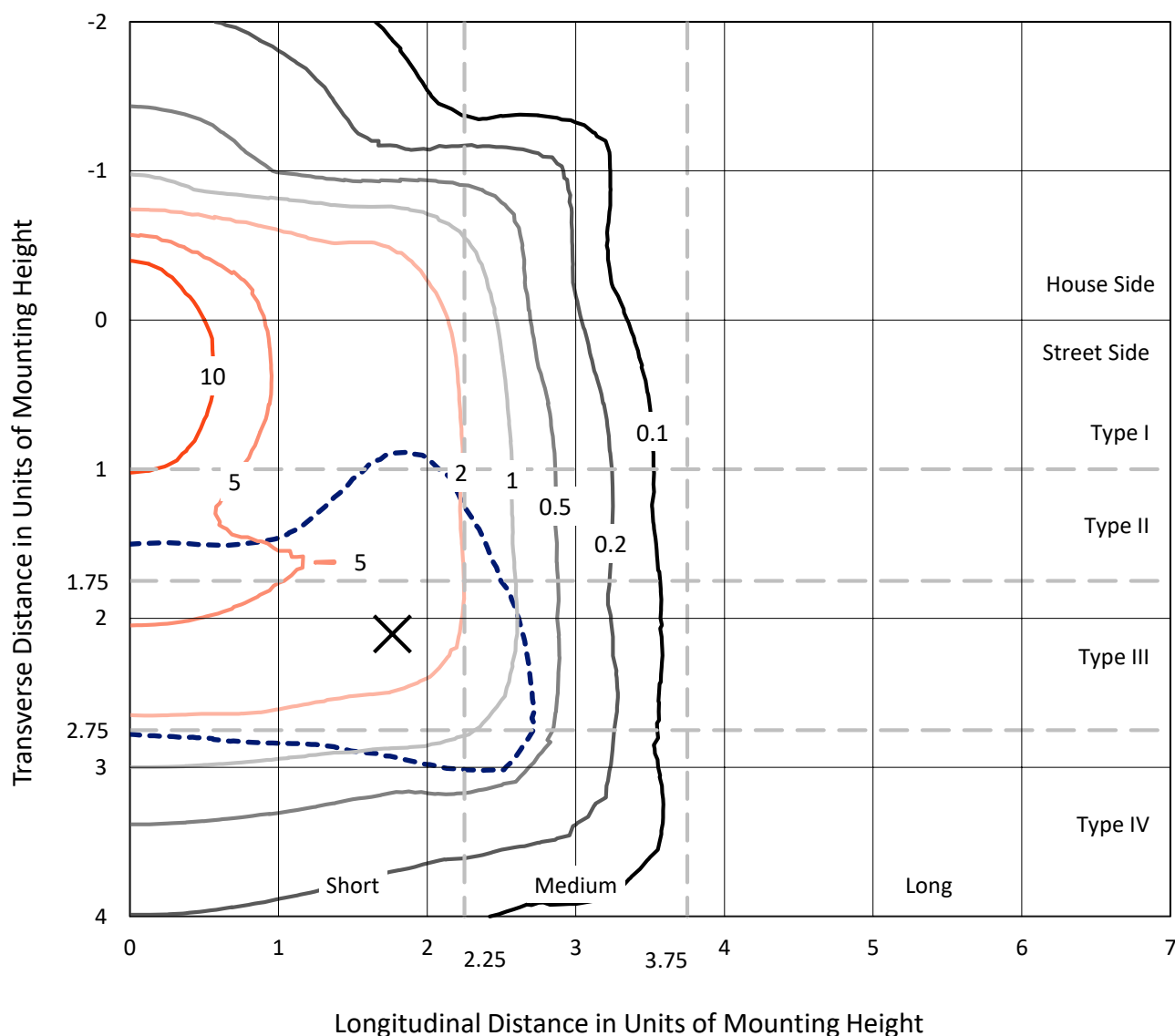
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

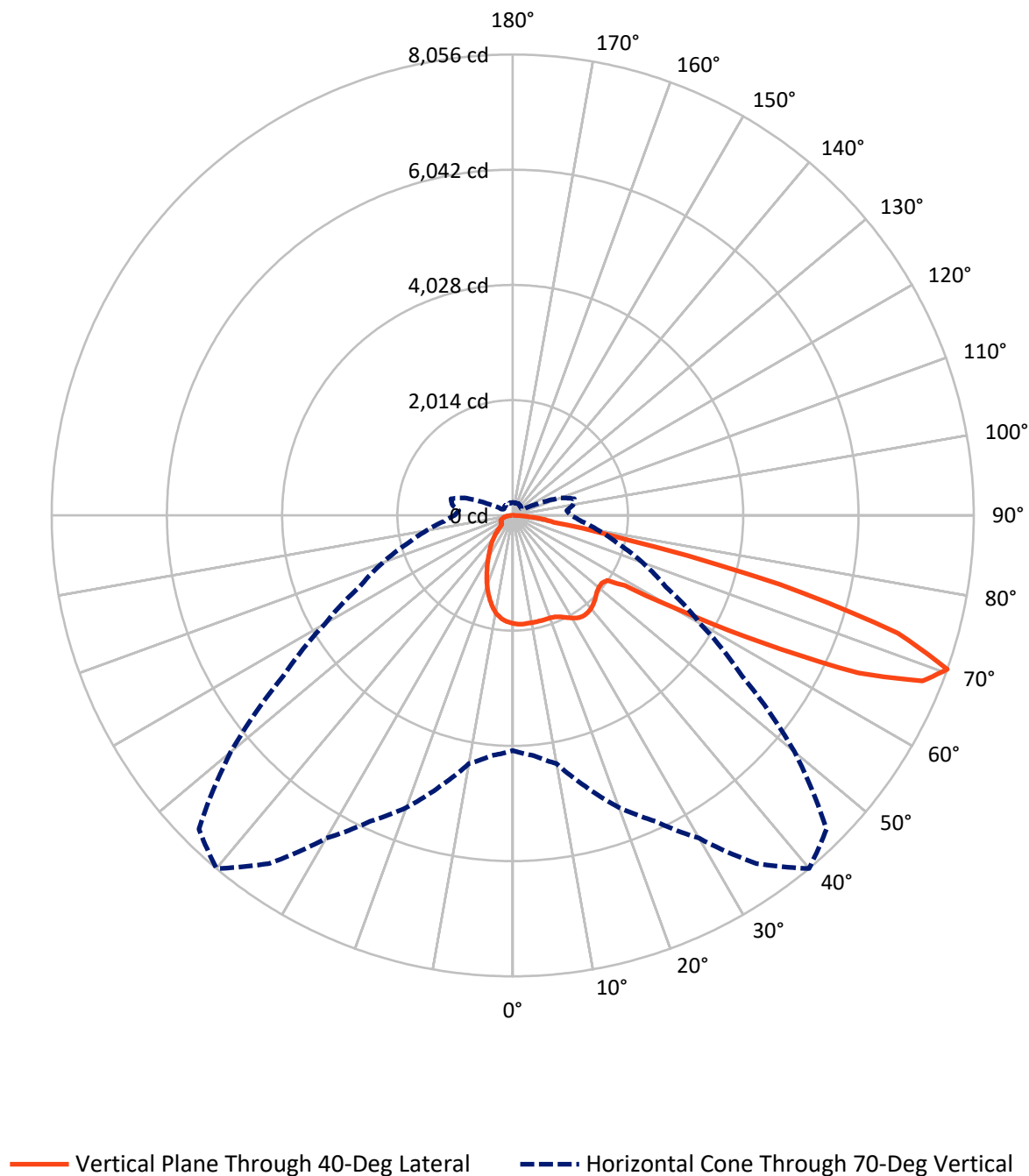


Based on 10 foot mounting height. Maximum calculated value = 19 fc
 Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



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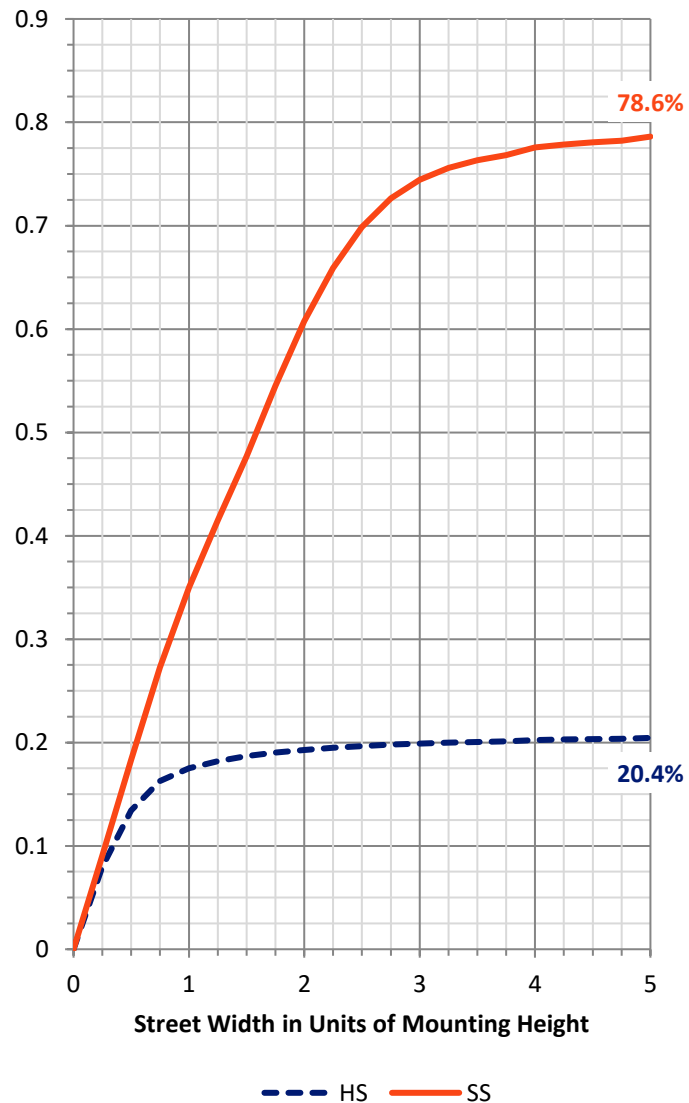
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1839.7	0.0	1839.7
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	7022.6	0.0	7022.6
	% Fixture	79.2	0.0	79.2
Total	Lumens	8862.3	0.0	8862.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.7	2.0
10°-20°	483.6	5.5
20°-30°	715.9	8.1
30°-40°	904.7	10.2
40°-50°	1023.2	11.5
50°-60°	1456.1	16.4
60°-70°	2711.8	30.6
70°-80°	1242.8	14.0
80°-90°	147.5	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°	8862.3	100.0
0°-180°	8862.3	100.0

Coefficient of Utilization



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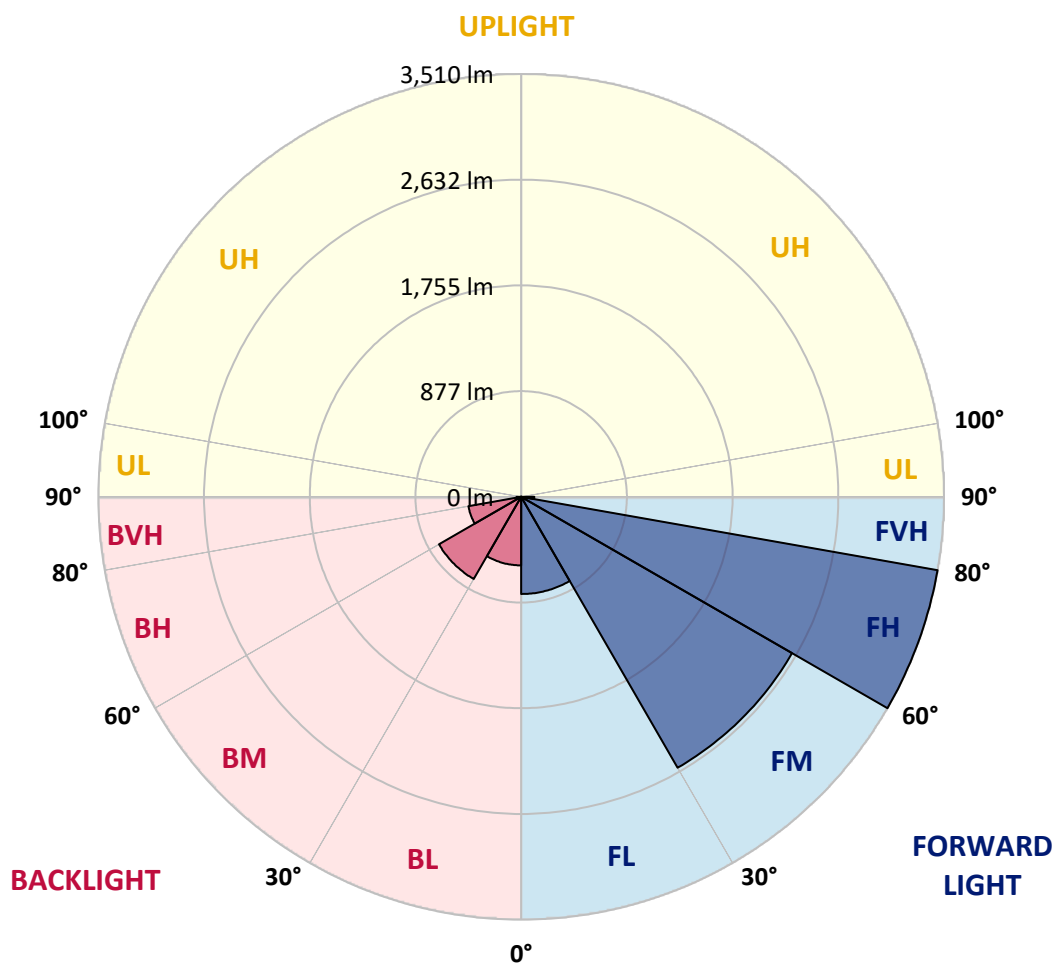
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	807.0	9.1			
FM	(30°-60°)	2596.4	29.3			
FH	(60°-80°)	3509.8	39.6			G2/5000
FVH	(80°-90°)	109.4	1.2			G2/225
BL	(0°-30°)	569.2	6.4	B2/1000		
BM	(30°-60°)	787.6	8.9	B1/1000		
BH	(60°-80°)	444.8	5.0	B1/500		G1/500
BVH	(80°-90°)	38.1	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°	1891.0	1891.0	1891.0	1891.0	1891.0	1891.0	1891.0	1891.0	1891.0	1891.0	1891.0
2.5°	1920.0	1925.0	1919.0	1918.0	1918.0	1917.0	1911.0	1910.1	1902.0	1903.0	1905.0
5°	1934.0	1936.0	1932.0	1931.0	1929.0	1925.0	1920.0	1914.0	1908.0	1902.0	1897.0
7.5°	1948.0	1946.0	1943.0	1943.0	1940.0	1934.0	1924.0	1916.0	1903.0	1896.0	1887.0
10°	1968.0	1965.0	1961.0	1959.0	1954.0	1945.0	1931.0	1920.0	1904.0	1889.9	1875.0
12.5°	1987.0	1986.0	1980.0	1977.0	1969.0	1960.0	1943.0	1926.0	1905.0	1883.0	1863.0
15°	2021.0	2017.0	2011.0	2005.0	1992.0	1980.0	1954.0	1934.0	1904.0	1875.0	1844.0
17.5°	2080.0	2073.0	2067.0	2054.0	2038.0	2017.0	1979.0	1945.0	1904.0	1862.0	1827.0
20°	2188.0	2173.0	2165.0	2148.0	2120.0	2082.0	2023.0	1968.0	1907.0	1853.0	1806.0
22.5°	2310.1	2300.0	2289.0	2278.0	2234.0	2179.0	2099.0	2017.0	1925.0	1849.0	1789.0
25°	2447.0	2434.0	2428.0	2409.0	2368.0	2305.0	2196.0	2082.0	1966.0	1865.0	1789.0
27.5°	2569.0	2565.0	2564.0	2542.0	2503.0	2429.0	2300.0	2163.0	2022.0	1898.0	1804.0
30°	2680.0	2676.0	2674.0	2662.0	2617.0	2529.0	2389.0	2235.0	2083.0	1944.0	1832.0
32.5°	2798.0	2785.0	2779.0	2756.0	2705.0	2602.0	2442.0	2282.0	2131.0	1989.0	1863.0
35°	2894.0	2883.0	2871.0	2838.0	2766.0	2644.0	2465.0	2298.0	2150.1	2014.0	1879.0
37.5°	2964.0	2953.0	2936.0	2894.0	2805.0	2658.0	2464.0	2293.0	2143.0	2009.9	1882.0
40°	2995.0	2984.0	2966.0	2913.0	2812.0	2649.9	2445.0	2269.9	2122.0	1989.0	1870.1
42.5°	2983.0	2975.0	2952.0	2901.0	2790.1	2614.0	2407.0	2227.0	2082.0	1955.0	1843.0
45°	2937.0	2931.0	2909.0	2855.0	2740.0	2556.0	2351.0	2173.0	2034.0	1913.0	1807.0
47.5°	2868.0	2866.0	2844.0	2791.0	2677.0	2498.0	2293.0	2120.0	1986.0	1872.0	1777.0
50°	2792.0	2782.0	2771.0	2722.0	2618.0	2448.0	2251.0	2087.0	1959.0	1857.0	1764.0
52.5°	2744.0	2741.0	2731.0	2687.0	2587.0	2419.0	2232.0	2075.0	1957.0	1854.0	1757.0
55°	3169.9	3177.0	3085.0	2894.0	2726.0	2499.0	2289.0	2136.0	2006.0	1902.0	1831.0
57.5°	4689.0	4658.0	4500.0	4121.0	3693.0	3128.0	2721.0	2474.0	2313.0	2331.0	2367.0
60°	5463.0	5457.0	5428.0	5281.0	4996.0	4566.0	4089.0	3542.0	3368.0	3387.0	3401.0
62.5°	5809.0	5818.0	5840.0	5785.0	5710.1	5585.0	5347.0	5127.0	4894.0	4807.0	4574.0
65°	5969.0	5985.0	6035.0	6066.0	6095.0	6117.0	6211.0	6469.0	6639.0	6321.0	5581.0
67.5°	5638.0	5715.0	5880.0	6041.0	6185.0	6389.9	6708.0	7307.0	7724.0	7333.0	6260.0
70°	4110.1	4215.0	4404.0	4902.0	5434.0	5899.0	6515.0	7427.0	8056.0	7754.0	6428.0
72.5°	2577.0	2606.0	2689.9	2873.0	3268.0	3865.0	4942.0	6310.1	7036.0	6795.0	5433.0
75°	1635.0	1645.0	1642.0	1684.0	1751.0	1881.0	2307.0	3727.0	4820.0	4444.0	3028.0
77.5°	974.0	989.0	995.0	1008.0	1040.0	1086.0	1121.0	1268.0	2021.0	1962.0	1099.0
80°	816.0	828.0	818.0	815.0	795.0	781.0	798.0	781.0	725.0	698.0	643.0
82.5°	432.0	431.0	428.0	457.0	516.0	562.0	597.0	589.0	533.0	454.0	385.0
85°	237.0	245.0	245.0	255.0	246.0	247.0	255.0	269.0	249.0	208.0	169.9
87.5°	20.0	31.0	25.0	31.0	42.0	30.1	29.0	29.0	25.0	18.0	16.0
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°	1891.0	1891.0	1891.0	1891.0	1891.0	1891.0	1891.0	1891.0	1891.0	1891.0	1891.0
2.5°	1900.0	1898.0	1894.0	1891.0	1891.0	1886.0	1883.0	1881.0	1880.0	1876.0	1876.0
5°	1894.0	1887.0	1880.0	1875.0	1872.0	1867.0	1859.0	1855.0	1849.9	1846.0	1844.0
7.5°	1881.0	1868.0	1857.0	1849.0	1839.0	1831.0	1821.0	1812.0	1803.0	1799.0	1797.0
10°	1861.0	1844.0	1827.0	1812.0	1798.0	1784.0	1771.0	1758.0	1747.0	1739.0	1731.0
12.5°	1842.0	1816.0	1794.0	1772.0	1750.1	1733.0	1715.0	1696.0	1680.0	1665.0	1661.0
15°	1816.0	1786.0	1758.0	1731.0	1704.0	1676.0	1654.0	1633.0	1607.0	1590.1	1577.0
17.5°	1792.0	1756.0	1722.0	1689.9	1657.0	1628.0	1595.0	1567.0	1541.0	1515.0	1496.0
20°	1766.0	1727.0	1691.0	1655.0	1619.0	1582.0	1544.0	1508.0	1476.0	1445.0	1414.0
22.5°	1743.0	1703.0	1668.0	1629.0	1589.0	1547.0	1503.0	1458.0	1421.0	1381.0	1345.0
25°	1729.0	1685.0	1649.0	1611.0	1567.0	1521.0	1471.0	1418.0	1373.0	1327.0	1284.0
27.5°	1729.0	1672.0	1635.0	1597.0	1552.0	1503.0	1448.0	1390.1	1339.0	1288.0	1235.0
30°	1744.0	1674.0	1624.0	1584.0	1538.0	1485.0	1424.0	1363.0	1307.0	1247.0	1196.0
32.5°	1758.0	1678.0	1616.0	1565.0	1512.0	1460.0	1398.0	1333.0	1271.0	1214.0	1160.0
35°	1767.0	1678.0	1601.0	1536.0	1476.0	1425.0	1364.0	1299.0	1236.0	1180.0	1129.9
37.5°	1768.0	1670.1	1577.0	1503.0	1440.0	1387.0	1329.0	1268.0	1208.0	1156.0	1114.0
40°	1758.0	1654.0	1553.0	1468.0	1402.0	1348.0	1295.0	1240.0	1186.0	1143.0	1107.0
42.5°	1740.0	1637.0	1529.9	1440.0	1371.0	1315.0	1266.0	1219.0	1172.0	1135.0	1105.0
45°	1713.0	1614.0	1509.0	1423.0	1355.0	1296.0	1248.0	1209.0	1169.0	1138.0	1108.0
47.5°	1689.0	1606.0	1516.0	1434.0	1363.0	1302.0	1253.0	1220.0	1189.0	1168.0	1127.0
50°	1684.0	1602.0	1519.0	1443.0	1371.0	1309.0	1266.0	1249.0	1240.0	1227.0	1164.0
52.5°	1670.1	1601.0	1541.0	1499.0	1453.0	1424.0	1379.0	1395.0	1385.0	1339.0	1225.0
55°	1817.0	1837.0	1893.0	1973.0	2047.0	2064.0	2059.0	2040.0	1939.0	1668.0	1372.0
57.5°	2498.0	2611.0	2717.0	2764.0	2758.0	2705.0	2667.0	2590.1	2444.0	2114.0	1662.0
60°	3444.0	3462.0	3406.0	3323.0	3183.0	3066.0	2941.0	2797.0	2585.0	2262.0	1840.0
62.5°	4315.0	4073.0	3824.0	3590.1	3377.0	3191.0	3017.0	2816.0	2540.0	2203.0	1817.0
65°	4929.9	4418.0	4025.0	3689.0	3388.0	3128.0	2911.0	2649.9	2339.0	2035.0	1684.0
67.5°	5247.0	4462.0	3859.0	3391.0	2964.0	2604.0	2315.0	2061.0	1830.1	1697.0	1474.0
70°	4893.0	3787.0	2947.0	2418.0	1907.0	1529.0	1208.0	1014.0	947.0	1073.0	1116.0
72.5°	3646.0	2465.0	1753.0	1356.0	1039.0	828.0	635.0	499.0	406.0	426.0	553.0
75°	1724.0	1064.0	752.0	572.0	455.0	377.0	308.0	282.0	236.0	196.0	184.0
77.5°	671.0	489.0	404.0	296.0	209.9	169.0	144.0	139.0	142.0	138.0	136.0
80°	511.0	346.0	217.0	159.0	137.0	121.0	107.0	103.0	105.0	110.1	115.0
82.5°	285.0	178.0	132.0	115.0	103.0	88.0	80.0	74.0	75.0	81.0	92.0
85°	110.1	86.0	79.0	76.0	71.0	57.0	49.0	49.9	57.0	68.0	68.0
87.5°	12.0	12.0	16.0	12.0	12.0	12.0	11.0	13.0	14.0	18.0	21.0
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1891.0	1891.0	1891.0	1891.0	1891.0	1891.0	1891.0	1891.0	1891.0	1891.0	1891.0
2.5°	1874.0	1874.0	1874.0	1872.0	1873.0	1869.0	1869.0	1866.0	1871.0	1868.0	1867.0
5°	1845.0	1844.0	1840.0	1840.0	1840.0	1840.0	1843.0	1835.0	1841.0	1841.0	1838.0
7.5°	1796.0	1796.0	1785.0	1791.0	1789.0	1792.0	1796.0	1792.0	1798.0	1802.0	1799.0
10°	1728.0	1728.0	1719.0	1726.0	1723.0	1729.9	1737.0	1733.0	1737.0	1743.0	1745.0
12.5°	1653.0	1649.0	1641.0	1644.0	1644.0	1648.0	1651.0	1656.0	1661.0	1669.0	1673.0
15°	1566.0	1560.0	1550.1	1550.1	1544.0	1546.0	1552.0	1554.0	1564.0	1575.0	1588.0
17.5°	1477.0	1462.0	1451.0	1438.0	1428.0	1436.0	1443.0	1448.0	1456.0	1473.0	1482.0
20°	1393.0	1363.0	1342.0	1325.0	1314.0	1319.0	1328.0	1334.0	1341.0	1345.0	1348.0
22.5°	1309.9	1276.0	1247.0	1226.0	1208.0	1213.0	1209.0	1206.0	1211.0	1198.0	1197.0
25°	1238.0	1198.0	1159.0	1134.0	1112.0	1105.0	1084.0	1079.0	1065.0	1054.0	1046.0
27.5°	1186.0	1134.0	1091.0	1062.0	1027.0	1001.0	974.0	947.0	932.0	914.0	905.0
30°	1145.0	1089.9	1039.0	990.1	944.0	904.0	868.0	833.0	809.0	783.0	766.0
32.5°	1107.0	1056.0	994.0	927.0	865.0	820.0	773.0	733.0	695.0	661.0	636.0
35°	1081.0	1024.0	945.0	863.0	793.0	740.0	689.9	633.0	587.0	543.0	516.0
37.5°	1067.0	997.0	900.0	809.0	731.0	671.0	609.0	543.0	487.0	446.0	405.0
40°	1056.0	969.9	860.0	761.0	679.0	607.0	535.0	457.0	395.0	352.0	320.0
42.5°	1044.0	940.0	825.0	723.0	632.0	548.0	461.0	378.0	319.0	289.0	275.0
45°	1031.0	914.0	792.0	687.0	586.0	484.0	384.0	307.0	272.0	262.0	262.0
47.5°	1028.0	897.0	768.0	652.0	534.0	409.9	313.0	265.0	255.0	257.0	261.0
50°	1040.0	892.0	747.0	611.0	465.0	332.0	265.0	249.0	251.0	257.0	263.0
52.5°	1069.0	896.0	725.0	554.0	383.0	274.0	245.0	244.0	249.9	259.0	265.0
55°	1118.0	896.0	683.0	469.0	306.0	246.0	238.0	242.0	249.9	258.0	263.0
57.5°	1223.0	887.0	609.0	375.0	256.0	236.0	236.0	241.0	248.0	256.0	260.0
60°	1348.0	875.0	505.0	289.9	231.0	228.0	235.0	241.0	247.0	254.0	258.0
62.5°	1356.0	844.0	400.0	240.0	218.0	223.0	234.0	242.0	244.0	249.0	254.0
65°	1246.0	736.0	318.0	215.0	212.0	220.0	231.0	237.0	238.0	240.0	245.0
67.5°	1091.0	600.0	257.0	203.0	206.0	215.0	221.0	226.0	229.0	234.0	235.0
70°	896.0	482.0	220.0	191.0	194.0	204.0	209.0	214.0	220.0	226.0	223.0
72.5°	635.0	375.0	193.0	178.0	182.0	191.0	197.0	201.0	206.0	212.0	208.0
75°	270.1	262.0	167.0	161.0	167.0	173.0	179.0	185.0	190.1	193.0	193.0
77.5°	138.0	154.0	144.0	144.0	148.0	154.0	159.0	165.0	168.0	171.0	175.0
80°	117.0	119.0	121.0	125.0	129.0	135.0	140.0	145.0	146.0	147.0	149.0
82.5°	97.0	101.0	103.0	109.0	112.0	114.0	117.0	117.0	119.0	119.0	116.0
85°	70.1	75.0	78.0	79.0	78.0	79.0	80.0	82.0	87.0	87.0	83.0
87.5°	20.0	19.0	24.0	25.0	27.0	31.0	35.0	42.0	44.0	46.0	46.0
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):

	165°	170°	175°	180°
0°	1891.0	1891.0	1891.0	1891.0
2.5°	1866.0	1868.0	1864.0	1865.0
5°	1838.0	1842.0	1837.0	1843.0
7.5°	1802.0	1808.0	1807.0	1806.0
10°	1750.1	1758.0	1758.0	1761.0
12.5°	1684.0	1689.0	1693.0	1695.0
15°	1595.0	1604.0	1609.0	1609.0
17.5°	1488.0	1494.0	1497.0	1493.0
20°	1352.0	1350.1	1351.0	1341.0
22.5°	1195.0	1198.0	1189.0	1191.0
25°	1041.0	1036.0	1040.0	1034.0
27.5°	892.0	893.0	882.0	887.0
30°	750.1	745.0	731.0	738.0
32.5°	613.0	600.0	585.0	576.0
35°	484.0	464.0	457.0	454.0
37.5°	380.0	358.0	351.0	343.0
40°	302.0	294.0	291.0	293.0
42.5°	271.0	271.0	273.0	274.0
45°	263.0	266.0	269.0	270.1
47.5°	264.0	267.0	271.0	272.0
50°	266.0	269.0	272.0	273.0
52.5°	267.0	267.0	269.0	270.1
55°	265.0	264.0	265.0	266.0
57.5°	261.0	259.0	260.0	263.0
60°	259.0	256.0	258.0	260.0
62.5°	254.0	253.0	255.0	256.0
65°	243.0	244.0	247.0	247.0
67.5°	233.0	234.0	235.0	236.0
70°	221.0	222.0	224.0	225.0
72.5°	207.0	211.0	214.0	218.0
75°	196.0	200.0	206.0	209.9
77.5°	177.0	180.0	187.0	192.0
80°	150.1	149.0	150.1	153.0
82.5°	115.0	115.0	114.0	113.0
85°	81.0	80.0	77.0	77.0
87.5°	44.0	43.0	42.0	40.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)