

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: P180946

Luminaire Tested: **ICS-E04-LED-E1-SL4-8030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180946  
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: ICS-E04-LED-E1-SL4-8030  
Description: ICON SITE SMALL LED LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL  
Light Source: (84) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8976.2 lumens  
Efficiency: N/A  
Efficacy: 92.3 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')  
IES Classification: Type IV - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 97.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

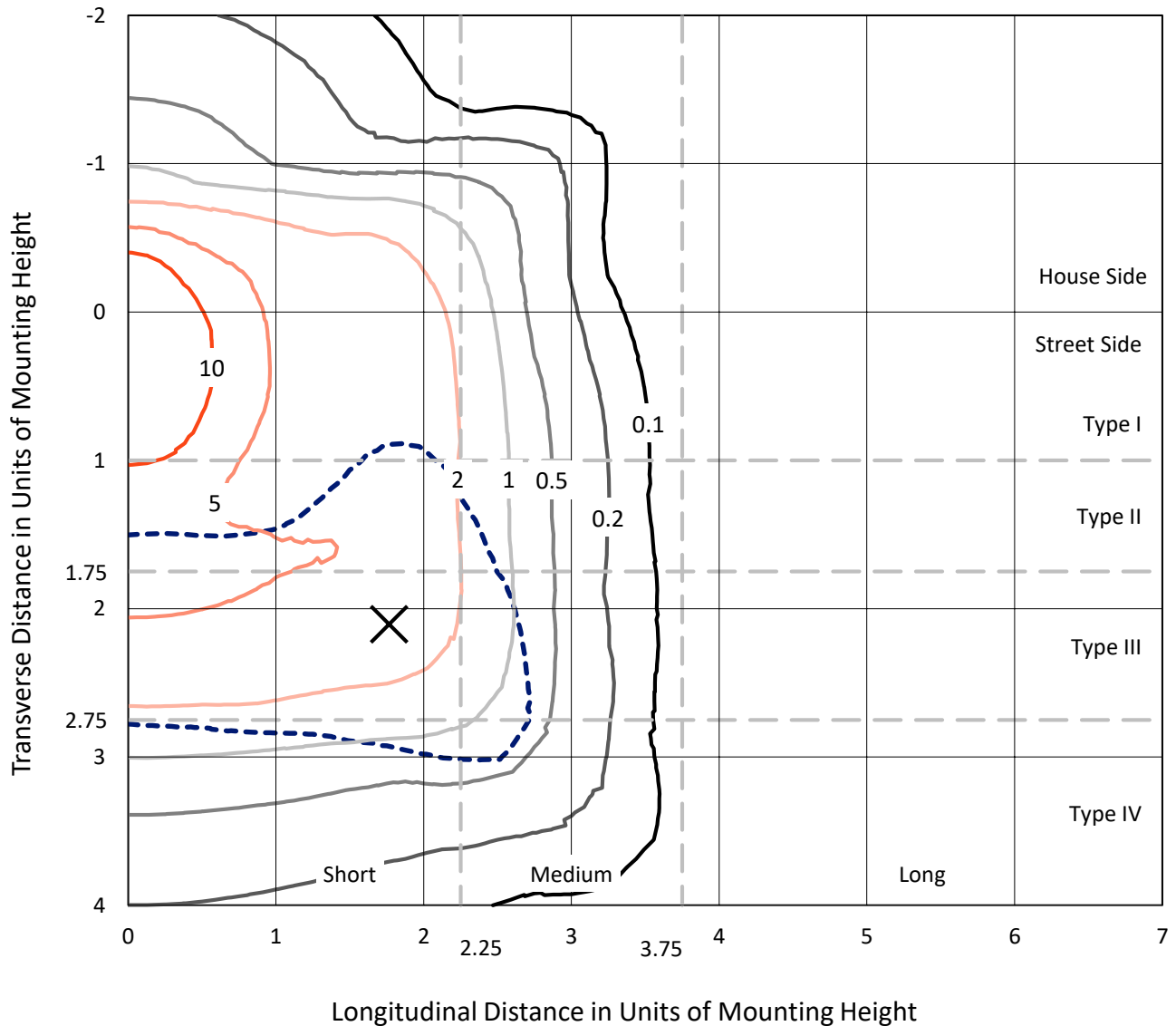


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

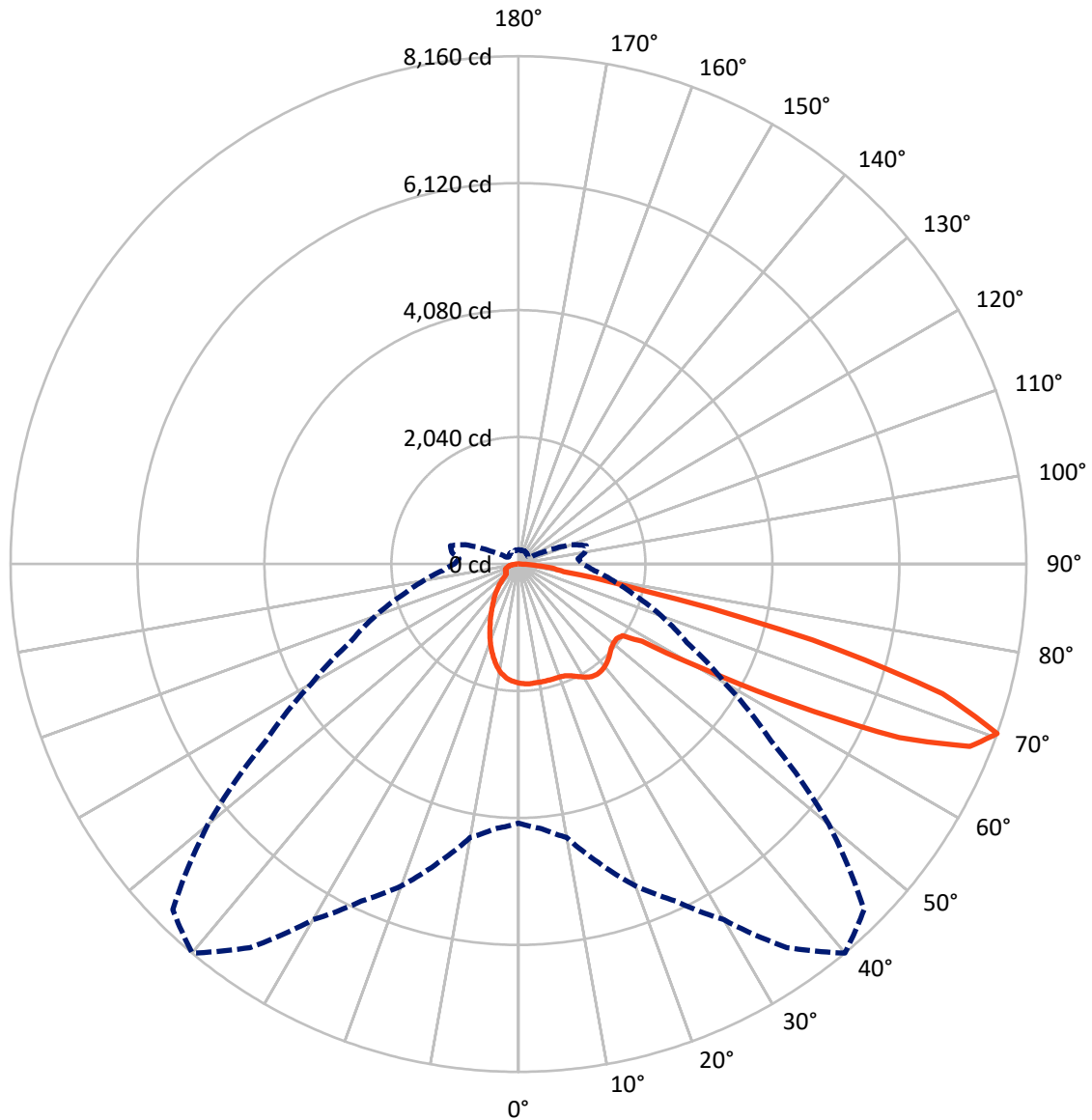


Based on 10 foot mounting height. Maximum calculated value = 19.3 fc  
 Type IV - Short - Full Cutoff

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### Luminous Intensity Polar Plot



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

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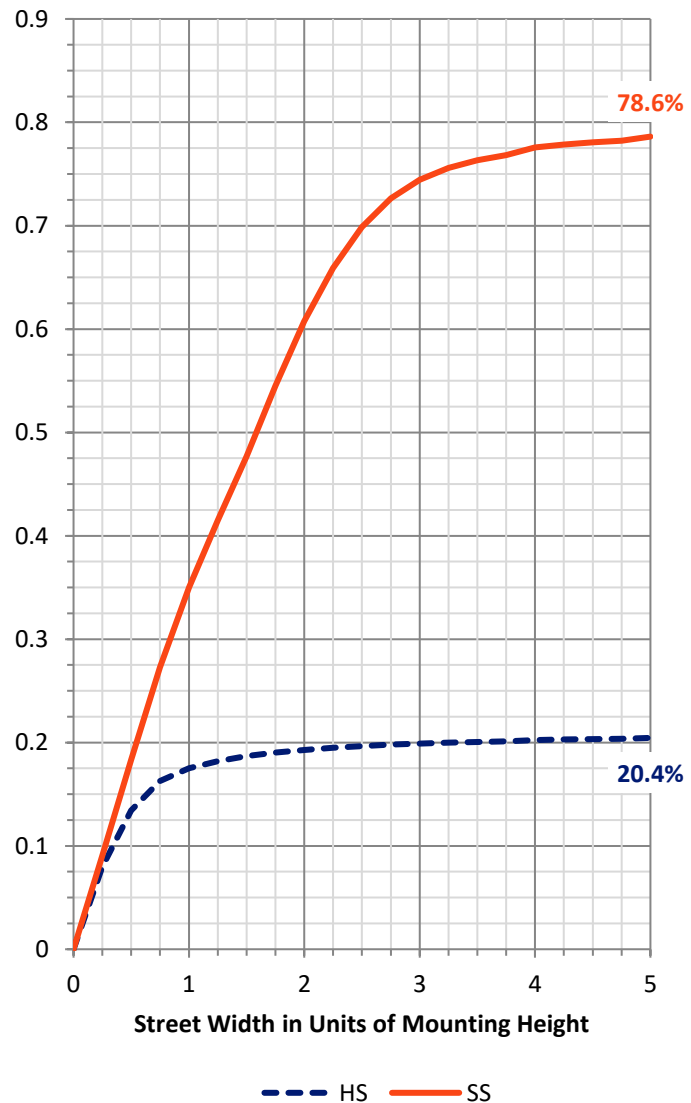
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1863.4	0.0	1863.4
	% Fixture	20.8	0.0	20.8
<b>Street Side</b>	Lumens	7112.8	0.0	7112.8
	% Fixture	79.2	0.0	79.2
<b>Total</b>	Lumens	8976.2	0.0	8976.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.9	2.0
10°-20°	489.8	5.5
20°-30°	725.1	8.1
30°-40°	916.4	10.2
40°-50°	1036.4	11.5
50°-60°	1474.8	16.4
60°-70°	2746.6	30.6
70°-80°	1258.8	14.0
80°-90°	149.4	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°	8976.2	100.0
0°-180°	8976.2	100.0



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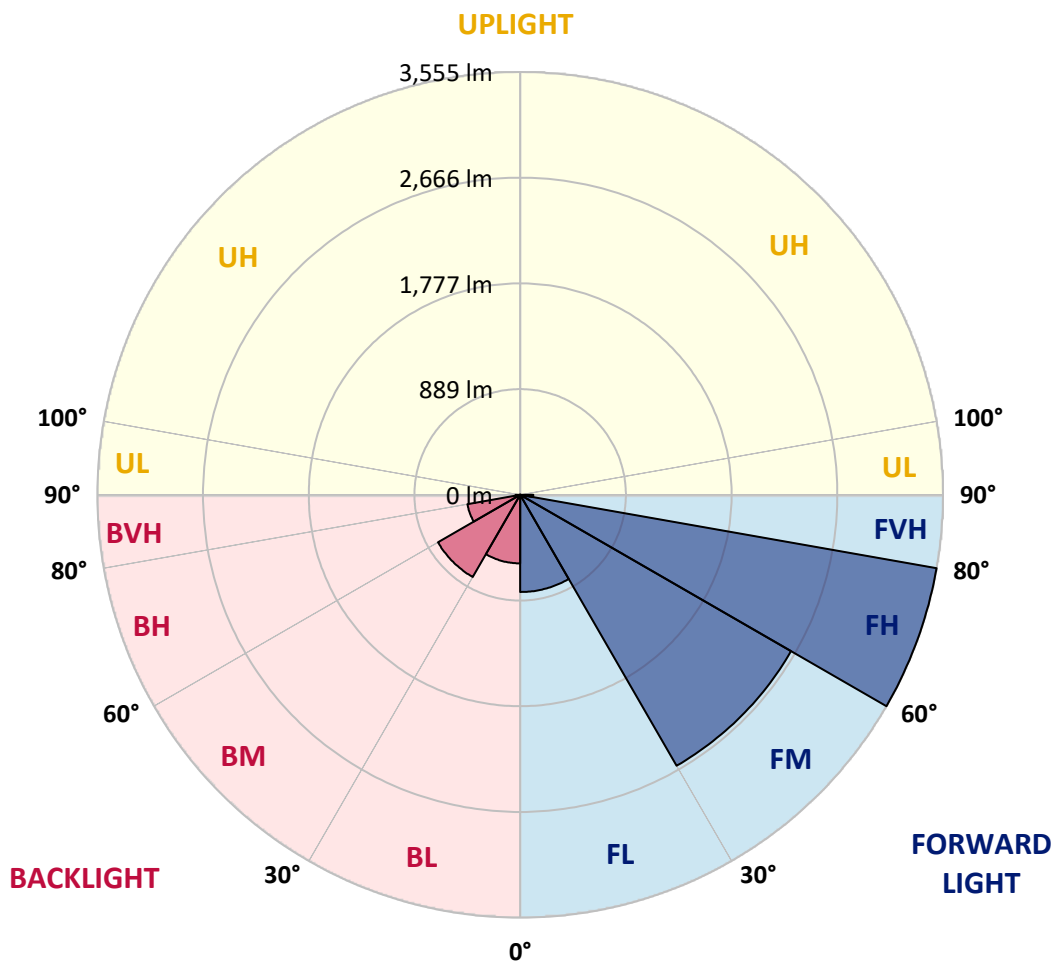
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	817.3	9.1			
FM	(30°-60°)	2629.7	29.3			
FH	(60°-80°)	3554.9	39.6			G2/5000
FVH	(80°-90°)	110.8	1.2			G2/225
BL	(0°-30°)	576.5	6.4	B2/1000		
BM	(30°-60°)	797.8	8.9	B1/1000		
BH	(60°-80°)	450.5	5.0	B1/500		G1/500
BVH	(80°-90°)	38.6	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°	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3
2.5°	1944.7	1949.7	1943.6	1942.6	1942.6	1941.6	1935.5	1934.5	1926.4	1927.4	1929.5
5°	1958.8	1960.9	1956.8	1955.8	1953.8	1949.7	1944.7	1938.6	1932.5	1926.4	1921.4
7.5°	1973.0	1971.0	1968.0	1968.0	1964.9	1958.8	1948.7	1940.6	1927.4	1920.4	1911.2
10°	1993.3	1990.2	1986.2	1984.2	1979.1	1970.0	1955.8	1944.7	1928.5	1914.3	1899.1
12.5°	2012.5	2011.5	2005.4	2002.4	1994.3	1985.2	1968.0	1950.7	1929.5	1907.2	1886.9
15°	2047.0	2042.9	2036.8	2030.8	2017.6	2005.4	1979.1	1958.8	1928.5	1899.1	1867.7
17.5°	2106.7	2099.6	2093.5	2080.4	2064.2	2042.9	2004.4	1970.0	1928.5	1885.9	1850.5
20°	2216.1	2200.9	2192.8	2175.6	2147.2	2108.7	2049.0	1993.3	1931.5	1876.8	1829.2
22.5°	2339.7	2329.5	2318.4	2307.3	2262.7	2207.0	2126.0	2042.9	1949.7	1872.7	1812.0
25°	2478.4	2465.3	2459.2	2439.9	2398.4	2334.6	2224.2	2108.7	1991.3	1889.0	1812.0
27.5°	2602.0	2597.9	2596.9	2574.6	2535.1	2460.2	2329.5	2190.8	2048.0	1922.4	1827.2
30°	2714.4	2710.4	2708.3	2696.2	2650.6	2561.5	2419.7	2263.7	2109.8	1969.0	1855.5
32.5°	2833.9	2820.8	2814.7	2791.4	2739.7	2635.4	2473.4	2311.3	2158.4	2014.5	1886.9
35°	2931.2	2920.0	2907.9	2874.5	2801.5	2678.0	2496.7	2327.5	2177.6	2039.9	1903.1
37.5°	3002.1	2990.9	2973.7	2931.2	2841.0	2692.1	2495.6	2322.5	2170.5	2035.8	1906.2
40°	3033.5	3022.3	3004.1	2950.4	2848.1	2684.0	2476.4	2299.2	2149.3	2014.5	1894.0
42.5°	3021.3	3013.2	2989.9	2938.3	2825.8	2647.6	2437.9	2255.6	2108.7	1980.1	1866.7
45°	2974.7	2968.6	2946.4	2891.7	2775.2	2588.8	2381.2	2200.9	2060.1	1937.6	1830.2
47.5°	2904.8	2902.8	2880.5	2826.8	2711.4	2530.1	2322.5	2147.2	2011.5	1896.0	1799.8
50°	2827.9	2817.7	2806.6	2757.0	2651.6	2479.4	2279.9	2113.8	1984.2	1880.9	1786.7
52.5°	2779.2	2776.2	2766.1	2721.5	2620.2	2450.1	2260.7	2101.7	1982.1	1877.8	1779.6
55°	3210.7	3217.8	3124.6	2931.2	2761.0	2531.1	2318.4	2163.4	2031.8	1926.4	1854.5
57.5°	4749.2	4717.8	4557.8	4173.9	3740.4	3168.2	2755.9	2505.8	2342.7	2360.9	2397.4
60°	5533.2	5527.1	5497.7	5348.8	5060.2	4624.6	4141.5	3587.5	3411.3	3430.5	3444.7
62.5°	5883.6	5892.7	5915.0	5859.3	5783.3	5656.7	5415.7	5192.9	4956.9	4868.7	4632.7
65°	6045.7	6061.9	6112.5	6143.9	6173.3	6195.6	6290.8	6552.1	6724.3	6402.2	5652.7
67.5°	5710.4	5788.4	5955.5	6118.6	6264.4	6472.1	6794.2	7400.9	7823.2	7427.2	6340.4
70°	4162.8	4269.1	4460.6	4965.0	5503.8	5974.8	6598.7	7522.4	8159.5	7853.6	6510.6
72.5°	2610.1	2639.5	2724.6	2909.9	3310.0	3914.6	5005.5	6391.0	7126.4	6882.3	5502.8
75°	1656.0	1666.1	1663.1	1705.6	1773.5	1905.2	2336.6	3774.9	4881.9	4501.1	3066.9
77.5°	986.5	1001.7	1007.8	1020.9	1053.4	1099.9	1135.4	1284.3	2047.0	1987.2	1113.1
80°	826.5	838.6	828.5	825.5	805.2	791.0	808.2	791.0	734.3	707.0	651.3
82.5°	437.5	436.5	433.5	462.9	522.6	569.2	604.7	596.6	539.8	459.8	389.9
85°	240.0	248.1	248.1	258.3	249.2	250.2	258.3	272.5	252.2	210.7	172.2
87.5°	20.3	31.4	25.3	31.4	42.5	30.4	29.4	29.4	25.3	18.2	16.2
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°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3
2.5°	1924.4	1922.4	1918.3	1915.3	1915.3	1910.2	1907.2	1905.2	1904.1	1900.1	1900.1
5°	1918.3	1911.2	1904.1	1899.1	1896.0	1891.0	1882.9	1878.8	1873.8	1869.7	1867.7
7.5°	1905.2	1892.0	1880.9	1872.7	1862.6	1854.5	1844.4	1835.3	1826.2	1822.1	1820.1
10°	1884.9	1867.7	1850.5	1835.3	1821.1	1806.9	1793.7	1780.6	1769.4	1761.3	1753.2
12.5°	1865.7	1839.3	1817.0	1794.8	1772.5	1755.3	1737.0	1717.8	1701.6	1686.4	1682.3
15°	1839.3	1808.9	1780.6	1753.2	1725.9	1697.5	1675.2	1654.0	1627.6	1610.4	1597.3
17.5°	1815.0	1778.6	1744.1	1711.7	1678.3	1648.9	1615.5	1587.1	1560.8	1534.5	1515.2
20°	1788.7	1749.2	1712.7	1676.3	1639.8	1602.3	1563.8	1527.4	1495.0	1463.6	1432.2
22.5°	1765.4	1724.9	1689.4	1649.9	1609.4	1566.9	1522.3	1476.7	1439.3	1398.7	1362.3
25°	1751.2	1706.6	1670.2	1631.7	1587.1	1540.5	1489.9	1436.2	1390.6	1344.0	1300.5
27.5°	1751.2	1693.5	1656.0	1617.5	1571.9	1522.3	1466.6	1407.9	1356.2	1304.5	1250.9
30°	1766.4	1695.5	1644.9	1604.3	1557.8	1504.1	1442.3	1380.5	1323.8	1263.0	1211.4
32.5°	1780.6	1699.6	1636.8	1585.1	1531.4	1478.8	1416.0	1350.1	1287.3	1229.6	1174.9
35°	1789.7	1699.6	1621.6	1555.7	1495.0	1443.3	1381.5	1315.7	1251.9	1195.2	1144.5
37.5°	1790.7	1691.4	1597.3	1522.3	1458.5	1404.8	1346.1	1284.3	1223.5	1170.8	1128.3
40°	1780.6	1675.2	1572.9	1486.9	1420.0	1365.3	1311.6	1255.9	1201.2	1157.7	1121.2
42.5°	1762.3	1658.0	1549.7	1458.5	1388.6	1331.9	1282.3	1234.7	1187.1	1149.6	1119.2
45°	1735.0	1634.7	1528.4	1441.3	1372.4	1312.6	1264.0	1224.5	1184.0	1152.6	1122.2
47.5°	1710.7	1626.6	1535.5	1452.4	1380.5	1318.7	1269.1	1235.7	1204.3	1183.0	1141.5
50°	1705.6	1622.6	1538.5	1461.5	1388.6	1325.8	1282.3	1265.0	1255.9	1242.8	1179.0
52.5°	1691.4	1621.6	1560.8	1518.3	1471.7	1442.3	1396.7	1412.9	1402.8	1356.2	1240.7
55°	1840.3	1860.6	1917.3	1998.3	2073.3	2090.5	2085.4	2066.2	1963.9	1689.4	1389.6
57.5°	2530.1	2644.5	2751.9	2799.5	2793.4	2739.7	2701.3	2623.3	2475.4	2141.2	1683.3
60°	3488.2	3506.5	3449.7	3365.7	3223.9	3105.4	2978.8	2832.9	2618.2	2291.1	1863.6
62.5°	4370.4	4125.3	3873.1	3636.1	3420.4	3232.0	3055.8	2852.2	2572.6	2231.3	1840.3
65°	4993.3	4474.7	4076.7	3736.4	3431.5	3168.2	2948.4	2684.0	2369.0	2061.1	1705.6
67.5°	5314.4	4519.3	3908.6	3434.6	3002.1	2637.4	2344.7	2087.5	1853.5	1718.8	1492.9
70°	4955.8	3835.6	2984.9	2449.1	1931.5	1548.6	1223.5	1027.0	959.2	1086.8	1130.3
72.5°	3692.8	2496.7	1775.5	1373.4	1052.3	838.6	643.2	505.4	411.2	431.5	560.1
75°	1746.1	1077.7	761.7	579.3	460.8	381.8	312.0	285.6	239.0	198.5	186.4
77.5°	679.6	495.3	409.2	299.8	212.7	171.2	145.8	140.8	143.8	139.8	137.7
80°	517.6	350.4	219.8	161.0	138.8	122.6	108.4	104.3	106.3	111.4	116.5
82.5°	288.7	180.3	133.7	116.5	104.3	89.1	81.0	75.0	76.0	82.0	93.2
85°	111.4	87.1	80.0	77.0	71.9	57.7	49.6	50.6	57.7	68.9	68.9
87.5°	12.2	12.2	16.2	12.2	12.2	12.2	11.1	13.2	14.2	18.2	21.3
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°	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3
2.5°	1898.1	1898.1	1898.1	1896.0	1897.1	1893.0	1893.0	1890.0	1895.0	1892.0	1891.0
5°	1868.7	1867.7	1863.6	1863.6	1863.6	1863.6	1866.7	1858.6	1864.6	1864.6	1861.6
7.5°	1819.1	1819.1	1807.9	1814.0	1812.0	1815.0	1819.1	1815.0	1821.1	1825.1	1822.1
10°	1750.2	1750.2	1741.1	1748.2	1745.1	1752.2	1759.3	1755.3	1759.3	1765.4	1767.4
12.5°	1674.2	1670.2	1662.1	1665.1	1665.1	1669.2	1672.2	1677.3	1682.3	1690.4	1694.5
15°	1586.1	1580.0	1569.9	1569.9	1563.8	1565.9	1571.9	1574.0	1584.1	1595.2	1608.4
17.5°	1496.0	1480.8	1469.6	1456.5	1446.3	1454.4	1461.5	1466.6	1474.7	1491.9	1501.0
20°	1410.9	1380.5	1359.2	1342.0	1330.9	1335.9	1345.1	1351.1	1358.2	1362.3	1365.3
22.5°	1326.8	1292.4	1263.0	1241.7	1223.5	1228.6	1224.5	1221.5	1226.6	1213.4	1212.4
25°	1253.9	1213.4	1173.9	1148.6	1126.3	1119.2	1097.9	1092.9	1078.7	1067.5	1059.4
27.5°	1201.2	1148.6	1105.0	1075.6	1040.2	1013.9	986.5	959.2	944.0	925.7	916.6
30°	1159.7	1104.0	1052.3	1002.7	956.1	915.6	879.1	843.7	819.4	793.1	775.8
32.5°	1121.2	1069.6	1006.8	938.9	876.1	830.5	782.9	742.4	703.9	669.5	644.2
35°	1094.9	1037.2	957.1	874.1	803.2	749.5	698.9	641.1	594.5	550.0	522.6
37.5°	1080.7	1009.8	911.6	819.4	740.4	679.6	616.8	550.0	493.3	451.7	410.2
40°	1069.6	982.5	871.0	770.8	687.7	614.8	541.9	462.9	400.1	356.5	324.1
42.5°	1057.4	952.1	835.6	732.3	640.1	555.0	466.9	382.9	323.1	292.7	278.5
45°	1044.2	925.7	802.2	695.8	593.5	490.2	388.9	310.9	275.5	265.4	265.4
47.5°	1041.2	908.5	777.9	660.4	540.9	415.3	317.0	268.4	258.3	260.3	264.4
50°	1053.4	903.5	756.6	618.8	471.0	336.3	268.4	252.2	254.2	260.3	266.4
52.5°	1082.7	907.5	734.3	561.1	387.9	277.5	248.1	247.1	253.2	262.3	268.4
55°	1132.4	907.5	691.8	475.0	309.9	249.2	241.1	245.1	253.2	261.3	266.4
57.5°	1238.7	898.4	616.8	379.8	259.3	239.0	239.0	244.1	251.2	259.3	263.3
60°	1365.3	886.2	511.5	293.7	234.0	230.9	238.0	244.1	250.2	257.3	261.3
62.5°	1373.4	854.8	405.1	243.1	220.8	225.9	237.0	245.1	247.1	252.2	257.3
65°	1262.0	745.5	322.1	217.8	214.7	222.8	234.0	240.0	241.1	243.1	248.1
67.5°	1105.0	607.7	260.3	205.6	208.6	217.8	223.8	228.9	231.9	237.0	238.0
70°	907.5	488.2	222.8	193.5	196.5	206.6	211.7	216.7	222.8	228.9	225.9
72.5°	643.2	379.8	195.5	180.3	184.3	193.5	199.5	203.6	208.6	214.7	210.7
75°	273.5	265.4	169.1	163.1	169.1	175.2	181.3	187.4	192.4	195.5	195.5
77.5°	139.8	156.0	145.8	145.8	149.9	156.0	161.0	167.1	170.2	173.2	177.2
80°	118.5	120.5	122.6	126.6	130.7	136.7	141.8	146.9	147.9	148.9	150.9
82.5°	98.2	102.3	104.3	110.4	113.4	115.5	118.5	118.5	120.5	120.5	117.5
85°	70.9	76.0	79.0	80.0	79.0	80.0	81.0	83.1	88.1	88.1	84.1
87.5°	20.3	19.2	24.3	25.3	27.3	31.4	35.4	42.5	44.6	46.6	46.6
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):**

	165°	170°	175°	180°
0°	1915.3	1915.3	1915.3	1915.3
2.5°	1890.0	1892.0	1887.9	1889.0
5°	1861.6	1865.7	1860.6	1866.7
7.5°	1825.1	1831.2	1830.2	1829.2
10°	1772.5	1780.6	1780.6	1783.6
12.5°	1705.6	1710.7	1714.7	1716.8
15°	1615.5	1624.6	1629.7	1629.7
17.5°	1507.1	1513.2	1516.2	1512.2
20°	1369.4	1367.3	1368.4	1358.2
22.5°	1210.3	1213.4	1204.3	1206.3
25°	1054.4	1049.3	1053.4	1047.3
27.5°	903.5	904.5	893.3	898.4
30°	759.6	754.6	740.4	747.5
32.5°	620.9	607.7	592.5	583.4
35°	490.2	470.0	462.9	459.8
37.5°	384.9	362.6	355.5	347.4
40°	305.9	297.8	294.7	296.8
42.5°	274.5	274.5	276.5	277.5
45°	266.4	269.4	272.5	273.5
47.5°	267.4	270.4	274.5	275.5
50°	269.4	272.5	275.5	276.5
52.5°	270.4	270.4	272.5	273.5
55°	268.4	267.4	268.4	269.4
57.5°	264.4	262.3	263.3	266.4
60°	262.3	259.3	261.3	263.3
62.5°	257.3	256.2	258.3	259.3
65°	246.1	247.1	250.2	250.2
67.5°	236.0	237.0	238.0	239.0
70°	223.8	224.9	226.9	227.9
72.5°	209.7	213.7	216.7	220.8
75°	198.5	202.6	208.6	212.7
77.5°	179.3	182.3	189.4	194.5
80°	151.9	150.9	151.9	155.0
82.5°	116.5	116.5	115.5	114.5
85°	82.0	81.0	78.0	78.0
87.5°	44.6	43.6	42.5	40.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)