

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: McGRAW-EDISON

Report Number: P159025

Luminaire Tested: **VTS-F07-LED-E1-SLR**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P159025  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33715)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: VTS-F07-LED-E1-SLR  
Description: VENTUS LED SITE LUMINAIRE  
(7) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT  
Light Source: (49) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

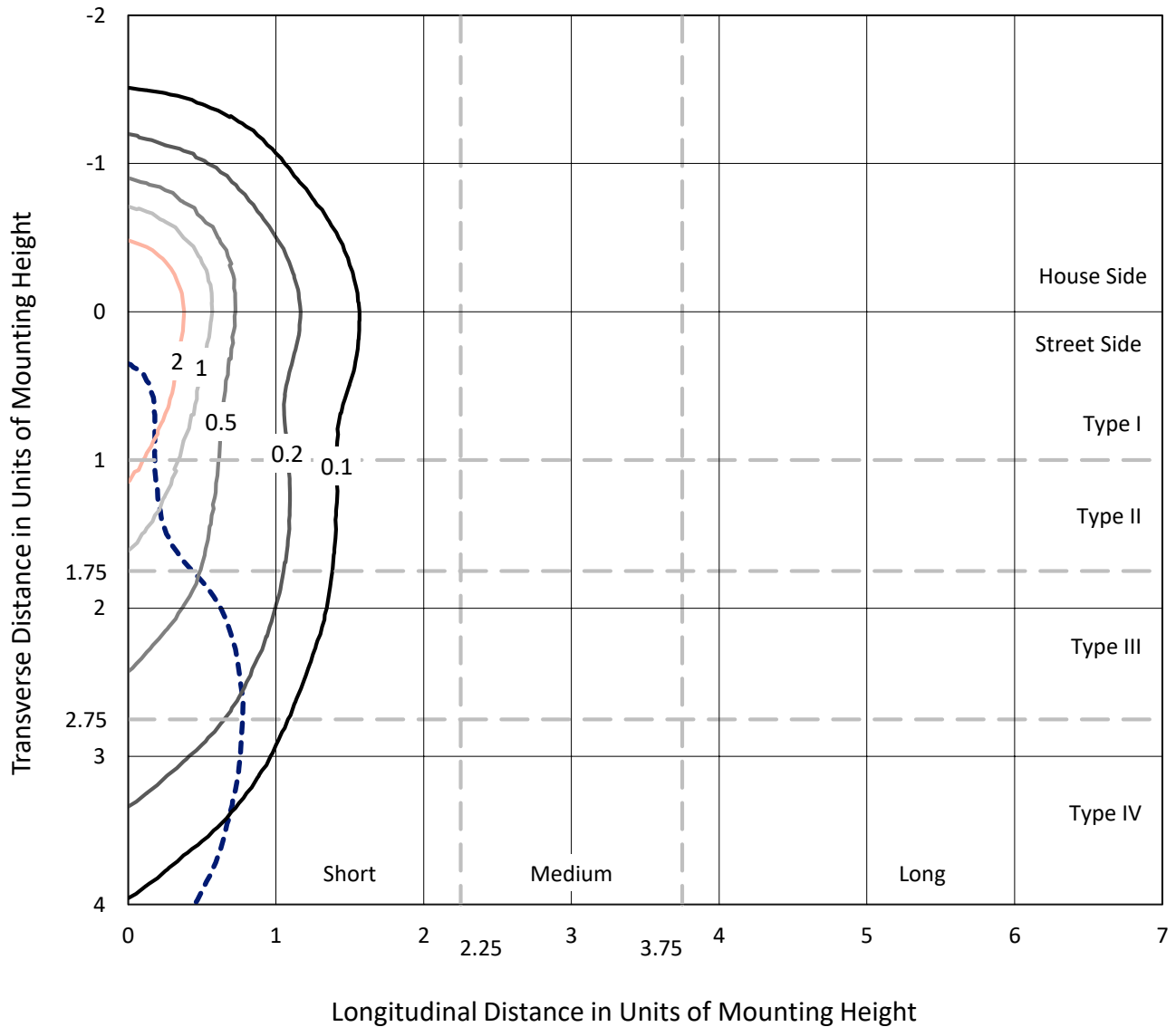
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15528.9 lumens  
Efficiency: N/A  
Efficacy: 86.0 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 180.5  
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: 25 FT

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### Iso-Footcandle Lines of Horizontal Illumination

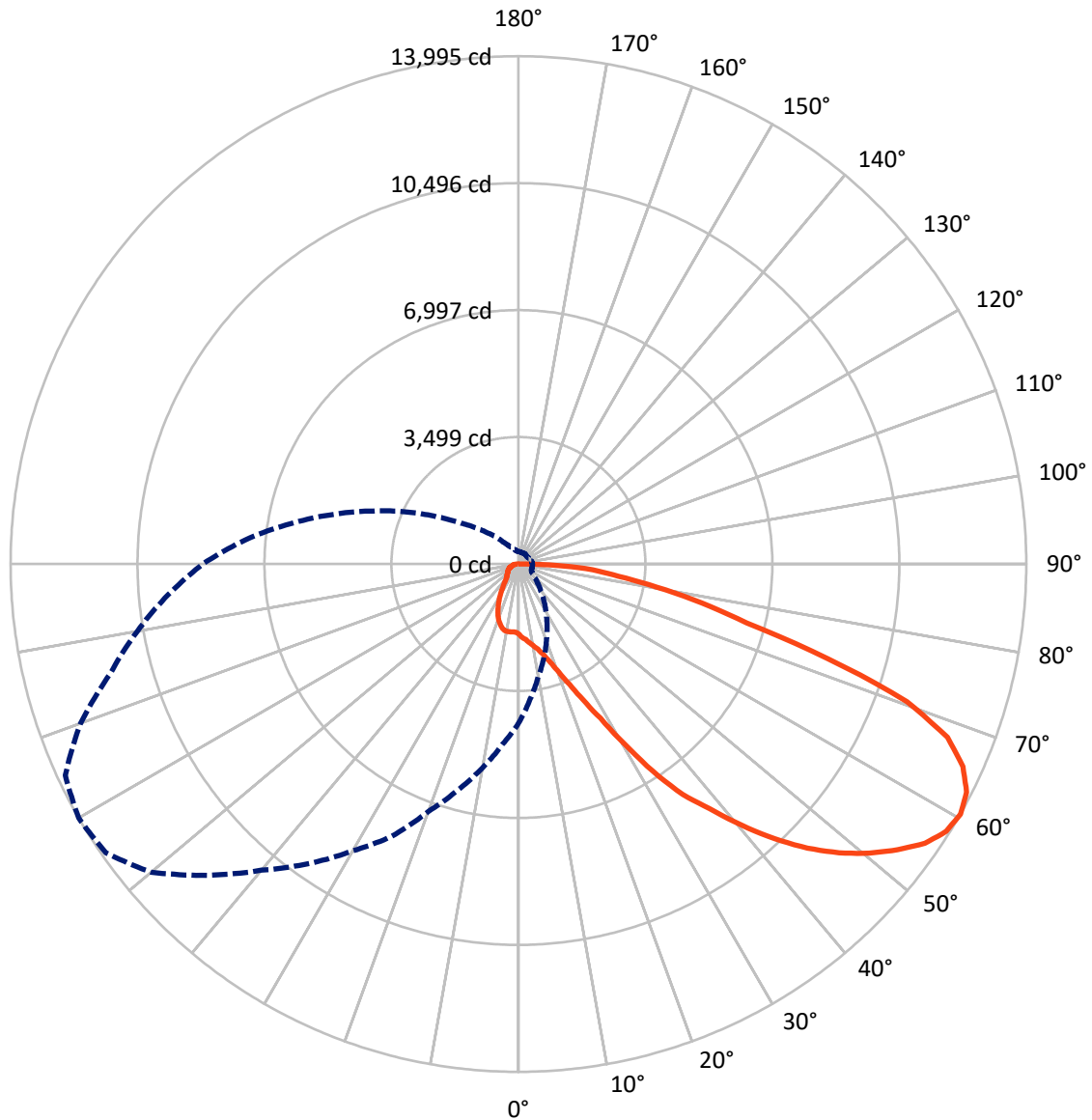
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 300-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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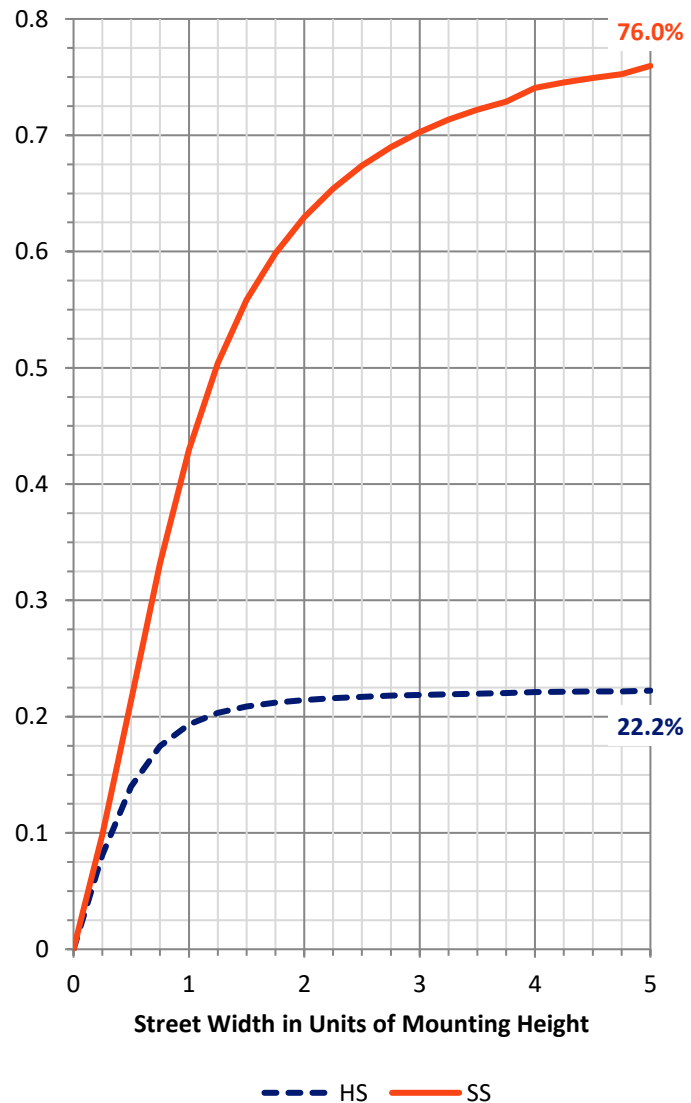
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3496.6	0.0	3496.6
	% Fixture	22.5	0.0	22.5
<b>Street Side</b>	Lumens	12032.3	0.0	12032.3
	% Fixture	77.5	0.0	77.5
<b>Total</b>	Lumens	15528.9	0.0	15528.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	190.5	1.2
10°-20°	615.2	4.0
20°-30°	1167.4	7.5
30°-40°	1838.4	11.8
40°-50°	2565.9	16.5
50°-60°	3173.5	20.4
60°-70°	3289.5	21.2
70°-80°	2069.9	13.3
80°-90°	618.7	4.0
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°	15528.9	100.0
0°-180°	15528.9	100.0



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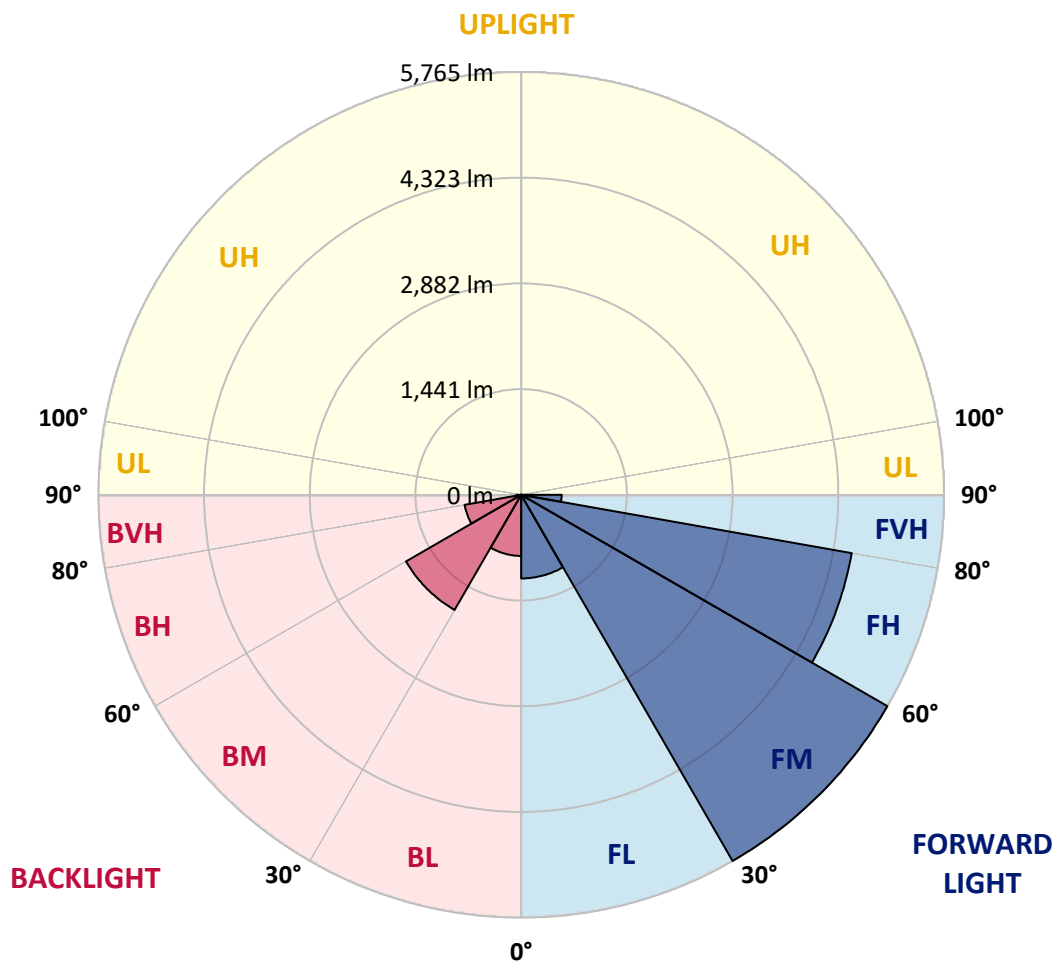
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1140.1	7.3			
FM	(30°-60°)	5764.6	37.1			
FH	(60°-80°)	4576.2	29.5			G2/5000
FVH	(80°-90°)	551.4	3.6			G4/750
BL	(0°-30°)	833.0	5.4	B2/1000		
BM	(30°-60°)	1813.2	11.7	B2/2500		
BH	(60°-80°)	783.1	5.0	B2/1000		G2/1000
BVH	(80°-90°)	67.3	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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2
2.5°	2045.7	1923.1	1925.5	1922.0	1922.0	1919.7	1922.0	1919.7	1917.4	1917.4	1918.5
5°	2072.2	1937.0	1937.0	1933.5	1931.2	1928.9	1931.2	1928.9	1927.8	1925.5	1926.6
7.5°	2097.7	1945.1	1940.5	1935.9	1930.1	1932.4	1932.4	1931.2	1932.4	1931.2	1933.5
10°	2139.3	1971.7	1960.1	1949.7	1948.6	1946.3	1946.3	1942.8	1942.8	1940.5	1941.6
12.5°	2245.6	2053.7	2041.0	2022.5	2019.1	2008.7	2002.9	1996.0	1984.4	1974.0	1965.9
15°	2424.7	2190.1	2165.8	2149.7	2142.7	2121.9	2089.6	2064.1	2030.6	2001.7	1971.7
17.5°	2644.3	2372.7	2343.8	2323.0	2288.4	2231.7	2177.4	2115.0	2050.3	1991.3	1937.0
20°	2951.7	2635.1	2578.4	2528.7	2442.1	2345.0	2243.3	2134.6	2035.2	1942.8	1863.0
22.5°	3367.8	2973.7	2868.5	2735.6	2575.0	2410.9	2249.1	2098.8	1965.9	1845.7	1739.4
25°	3846.3	3297.3	3107.8	2878.9	2632.8	2406.2	2193.6	2000.6	1845.7	1690.8	1575.3
27.5°	4198.8	3567.8	3288.1	2987.6	2673.2	2384.3	2123.1	1889.6	1702.4	1544.1	1404.2
30°	4399.9	3722.6	3386.3	3033.8	2680.1	2347.3	2034.1	1763.7	1547.5	1359.1	1225.1
32.5°	4529.3	3805.8	3396.7	2987.6	2596.9	2237.5	1898.9	1618.0	1383.4	1182.3	1040.2
35°	4638.0	3839.4	3348.2	2884.7	2439.8	2071.1	1725.5	1444.7	1196.2	1011.3	865.6
37.5°	4681.9	3833.6	3270.7	2747.2	2286.0	1889.6	1548.7	1260.9	1039.0	876.0	751.2
40°	4673.8	3780.4	3165.6	2600.4	2105.7	1700.1	1361.5	1108.3	928.1	790.5	699.2
42.5°	4619.5	3709.9	3048.8	2451.3	1940.5	1542.9	1234.3	1010.1	864.5	760.5	680.7
45°	4551.3	3625.5	2942.5	2314.9	1809.9	1430.8	1160.4	982.4	856.4	757.0	671.5
47.5°	4458.8	3531.9	2835.0	2217.9	1740.5	1397.3	1159.2	998.6	863.3	748.9	655.3
50°	4358.3	3463.7	2776.1	2176.2	1732.4	1418.1	1199.7	1024.0	868.0	740.8	633.3
52.5°	4287.8	3433.7	2774.9	2191.3	1775.2	1475.9	1247.0	1056.3	885.3	745.4	628.7
55°	4201.1	3429.1	2805.0	2256.0	1868.8	1574.1	1322.2	1111.8	921.1	762.8	632.2
57.5°	4206.9	3520.4	2921.7	2415.5	2037.6	1707.0	1418.1	1180.0	955.8	773.2	626.4
60°	4389.5	3733.0	3151.7	2688.2	2258.3	1863.0	1516.3	1217.0	953.5	750.1	598.7
62.5°	4766.3	4052.0	3496.1	3008.4	2482.5	1983.2	1552.2	1206.6	918.8	700.4	553.6
65°	5215.8	4425.3	3831.3	3256.9	2618.9	2011.0	1520.9	1148.8	849.5	635.7	499.3
67.5°	5665.4	4690.0	4024.3	3327.4	2563.4	1898.9	1405.4	1019.4	731.6	547.8	438.0
70°	5827.2	4744.3	4009.2	3169.0	2311.5	1620.3	1156.9	820.6	587.1	448.4	368.7
72.5°	5584.5	4404.5	3564.3	2692.9	1879.2	1256.3	848.3	605.6	448.4	351.3	300.5
75°	4684.2	3547.0	2817.7	2028.3	1356.8	888.8	612.5	441.5	337.5	278.5	240.4
77.5°	3338.9	2469.8	1919.7	1332.6	880.7	616.0	439.2	331.7	268.1	223.1	195.3
80°	2097.7	1516.3	1169.6	799.8	549.0	418.4	315.5	262.4	216.1	181.5	163.0
82.5°	1263.2	883.0	688.8	497.0	360.6	286.6	232.3	205.7	172.2	150.2	139.8
85°	857.6	649.5	451.9	293.6	217.3	168.7	158.3	142.2	128.3	107.5	104.0
87.5°	164.1	232.3	202.3	120.2	79.7	68.2	60.1	57.8	52.0	41.6	47.4
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2
2.5°	1911.6	1909.3	1904.7	1904.7	1901.2	1894.2	1893.1	1888.5	1882.7	1883.8	1882.7
5°	1918.5	1913.9	1908.1	1905.8	1901.2	1894.2	1890.8	1885.0	1879.2	1879.2	1879.2
7.5°	1926.6	1920.8	1916.2	1908.1	1898.9	1891.9	1882.7	1875.8	1872.3	1871.1	1872.3
10°	1933.5	1930.1	1923.1	1911.6	1898.9	1885.0	1875.8	1866.5	1857.3	1858.4	1859.6
12.5°	1948.6	1937.0	1918.5	1901.2	1881.5	1864.2	1848.0	1836.5	1824.9	1824.9	1826.1
15°	1938.2	1904.7	1879.2	1845.7	1823.7	1796.0	1777.5	1767.1	1760.2	1757.9	1759.0
17.5°	1876.9	1836.5	1798.3	1768.3	1738.2	1716.3	1708.2	1701.2	1692.0	1696.6	1692.0
20°	1784.5	1734.8	1680.4	1644.6	1608.8	1593.8	1579.9	1573.0	1567.2	1588.0	1588.0
22.5°	1651.5	1591.4	1536.0	1492.1	1451.6	1435.4	1421.6	1413.5	1416.9	1442.4	1444.7
25°	1484.0	1411.2	1338.3	1311.8	1271.3	1258.6	1250.5	1249.3	1252.8	1278.2	1284.0
27.5°	1306.0	1229.7	1167.3	1106.0	1087.5	1077.1	1062.1	1079.5	1082.9	1110.7	1122.2
30°	1116.4	1034.4	968.5	928.1	888.8	894.5	881.8	902.6	911.9	940.8	950.0
32.5°	922.3	844.8	779.0	738.5	710.8	714.2	705.0	723.5	732.7	767.4	784.7
35°	762.8	696.9	643.7	609.1	596.4	583.6	581.3	583.6	592.9	619.5	650.7
37.5°	671.5	617.2	579.0	553.6	536.3	528.2	523.5	523.5	523.5	529.3	544.4
40°	632.2	583.6	550.1	525.9	514.3	509.7	506.2	502.7	497.0	494.7	495.8
42.5°	614.9	559.4	523.5	505.1	498.1	498.1	498.1	495.8	490.0	484.3	478.5
45°	597.5	537.4	501.6	488.9	485.4	486.6	486.6	486.6	481.9	475.0	464.6
47.5°	575.6	513.1	477.3	469.2	469.2	472.7	473.9	473.9	469.2	462.3	454.2
50°	549.0	481.9	449.6	442.6	439.2	439.2	439.2	439.2	435.7	431.1	425.3
52.5°	535.1	464.6	431.1	424.2	424.2	420.7	419.5	416.1	412.6	409.1	401.0
55°	530.5	457.7	423.0	417.2	417.2	413.8	410.3	406.8	401.0	395.3	387.2
57.5°	517.8	442.6	412.6	408.0	408.0	405.7	402.2	398.7	392.9	384.9	374.5
60°	488.9	417.2	391.8	390.6	390.6	389.5	387.2	387.2	381.4	373.3	360.6
62.5°	451.9	390.6	366.4	366.4	365.2	364.1	359.4	358.3	351.3	340.9	329.4
65°	416.1	367.5	351.3	346.7	344.4	340.9	338.6	332.9	327.1	317.8	306.3
67.5°	371.0	332.9	322.5	317.8	313.2	309.7	306.3	302.8	295.9	288.9	279.7
70°	322.5	294.7	288.9	287.8	282.0	278.5	277.4	273.9	267.0	260.0	248.5
72.5°	276.2	260.0	255.4	255.4	248.5	243.9	241.5	240.4	235.8	230.0	219.6
75°	223.1	211.5	210.3	216.1	216.1	212.7	210.3	212.7	205.7	202.3	191.9
77.5°	182.6	176.8	173.4	175.7	182.6	179.1	174.5	174.5	174.5	168.7	165.3
80°	154.9	150.2	146.8	149.1	147.9	146.8	144.5	139.8	139.8	139.8	138.7
82.5°	139.8	138.7	126.0	126.0	121.4	117.9	115.6	113.3	111.0	111.0	116.7
85°	105.2	108.6	101.7	100.5	94.8	90.1	85.5	83.2	80.9	84.4	95.9
87.5°	50.9	50.9	48.5	54.3	49.7	47.4	43.9	41.6	43.9	54.3	64.7
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°	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2
2.5°	1880.4	1879.2	1878.1	1875.8	1871.1	1870.0	1867.7	1867.7	1866.5	1864.2	1866.5
5°	1876.9	1879.2	1879.2	1878.1	1874.6	1876.9	1876.9	1880.4	1880.4	1882.7	1888.5
7.5°	1872.3	1878.1	1882.7	1886.2	1890.8	1894.2	1901.2	1911.6	1916.2	1924.3	1927.8
10°	1863.0	1873.4	1881.5	1891.9	1903.5	1916.2	1926.6	1942.8	1948.6	1960.1	1965.9
12.5°	1836.5	1853.8	1867.7	1888.5	1908.1	1927.8	1946.3	1967.1	1977.5	1990.2	1998.3
15°	1771.7	1791.4	1811.0	1829.5	1864.2	1902.3	1932.4	1960.1	1975.2	1991.3	1999.4
17.5°	1694.3	1707.0	1723.2	1747.5	1781.0	1814.5	1863.0	1902.3	1925.5	1943.9	1946.3
20°	1604.2	1622.7	1634.2	1643.5	1670.0	1693.2	1745.2	1790.2	1820.3	1842.2	1848.0
22.5°	1466.6	1486.3	1505.9	1512.9	1533.7	1563.7	1592.6	1641.1	1683.9	1716.3	1735.9
25°	1309.4	1327.9	1354.5	1375.3	1379.9	1404.2	1433.1	1488.6	1532.5	1584.5	1607.6
27.5°	1152.3	1168.4	1197.3	1208.9	1222.8	1247.0	1270.2	1316.4	1362.6	1422.7	1448.1
30°	968.5	1003.2	1036.7	1058.7	1070.2	1099.1	1115.3	1160.4	1203.1	1247.0	1284.0
32.5°	811.3	842.5	880.7	908.4	922.3	944.2	969.7	1007.8	1041.3	1084.1	1126.8
35°	666.9	709.6	735.0	759.3	795.1	805.5	831.0	865.6	885.3	931.5	980.1
37.5°	565.2	590.6	616.0	640.3	670.3	684.2	708.5	737.4	760.5	788.2	832.1
40°	502.7	516.6	535.1	551.3	573.2	590.6	603.3	627.6	644.9	672.6	703.8
42.5°	473.9	477.3	479.6	491.2	502.7	514.3	528.2	538.6	559.4	580.2	599.8
45°	457.7	450.7	447.3	448.4	453.0	460.0	471.5	483.1	497.0	509.7	521.2
47.5°	443.8	434.6	424.2	418.4	419.5	421.8	431.1	440.3	447.3	457.7	462.3
50°	411.4	403.4	394.1	386.0	387.2	388.3	396.4	403.4	408.0	411.4	417.2
52.5°	390.6	379.1	371.0	362.9	361.7	365.2	372.1	379.1	381.4	383.7	384.9
55°	375.6	364.1	353.7	345.6	342.1	350.2	352.5	361.7	365.2	365.2	366.4
57.5°	364.1	350.2	339.8	331.7	325.9	331.7	337.5	347.9	349.0	346.7	346.7
60°	346.7	336.3	325.9	317.8	312.0	316.7	321.3	332.9	332.9	327.1	325.9
62.5°	316.7	310.9	304.0	300.5	299.3	304.0	307.4	316.7	313.2	306.3	304.0
65°	294.7	290.1	283.2	280.8	279.7	286.6	287.8	293.6	288.9	285.5	284.3
67.5°	268.1	264.7	261.2	260.0	256.6	256.6	258.9	262.4	260.0	260.0	261.2
70°	238.1	233.5	230.0	231.1	228.8	228.8	230.0	232.3	231.1	233.5	235.8
72.5°	210.3	204.6	203.4	203.4	201.1	202.3	202.3	203.4	205.7	206.9	212.7
75°	183.8	178.0	178.0	176.8	176.8	176.8	178.0	180.3	182.6	183.8	186.1
77.5°	159.5	156.0	157.2	156.0	156.0	156.0	156.0	159.5	160.6	161.8	165.3
80°	137.5	137.5	138.7	138.7	137.5	136.4	137.5	139.8	141.0	142.2	143.3
82.5°	124.8	126.0	126.0	126.0	120.2	117.9	121.4	123.7	126.0	127.1	129.4
85°	107.5	102.9	107.5	106.3	98.2	97.1	97.1	98.2	100.5	98.2	98.2
87.5°	69.3	62.4	65.9	65.9	57.8	47.4	60.1	64.7	57.8	61.3	61.3
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):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2
2.5°	1870.0	1867.7	1868.8	1868.8	1871.1	1867.7	1872.3	1876.9	1878.1	1878.1	1879.2
5°	1894.2	1891.9	1900.0	1896.6	1904.7	1903.5	1909.3	1913.9	1916.2	1916.2	1916.2
7.5°	1932.4	1940.5	1945.1	1957.8	1959.0	1965.9	1971.7	1977.5	1975.2	1976.3	1975.2
10°	1975.2	1985.6	1997.1	2009.8	2011.0	2019.1	2028.3	2034.1	2031.8	2030.6	2027.2
12.5°	2012.1	2019.1	2032.9	2045.7	2052.6	2065.3	2074.5	2079.2	2079.2	2075.7	2072.2
15°	2009.8	2020.2	2035.2	2053.7	2066.5	2084.9	2101.1	2111.5	2112.7	2109.2	2108.1
17.5°	1959.0	1974.0	1987.9	2013.3	2036.4	2061.8	2088.4	2103.4	2117.3	2125.4	2130.0
20°	1867.7	1886.2	1905.8	1939.3	1970.5	2004.0	2035.2	2057.2	2078.0	2102.3	2131.2
22.5°	1760.2	1787.9	1815.7	1858.4	1896.6	1934.7	1970.5	1997.1	2029.5	2071.1	2125.4
25°	1634.2	1663.1	1697.8	1747.5	1796.0	1851.5	1904.7	1957.8	2020.2	2091.9	2176.2
27.5°	1485.1	1517.5	1562.6	1622.7	1678.1	1734.8	1818.0	1902.3	2004.0	2096.5	2192.4
30°	1337.2	1378.8	1427.3	1487.4	1542.9	1623.8	1707.0	1811.0	1918.5	2022.5	2137.0
32.5°	1177.7	1229.7	1289.8	1339.5	1401.9	1484.0	1567.2	1678.1	1792.5	1915.1	2041.0
35°	1024.0	1073.7	1121.1	1176.5	1238.9	1316.4	1397.3	1503.6	1648.1	1778.7	1928.9
37.5°	868.0	914.2	947.7	991.6	1045.9	1131.5	1218.1	1340.7	1477.0	1637.7	1787.9
40°	731.6	769.7	807.9	842.5	888.8	969.7	1062.1	1182.3	1316.4	1472.4	1640.0
42.5°	622.9	651.8	693.4	735.0	774.3	843.7	930.4	1048.3	1181.2	1340.7	1508.2
45°	531.6	551.3	584.8	619.5	668.0	725.8	809.0	929.2	1064.4	1225.1	1401.9
47.5°	465.8	475.0	498.1	533.9	579.0	635.7	707.3	815.9	947.7	1109.5	1295.6
50°	420.7	431.1	442.6	472.7	513.1	570.9	629.9	724.6	844.8	1003.2	1188.1
52.5°	389.5	394.1	398.7	417.2	454.2	502.7	565.2	636.8	758.2	909.6	1076.0
55°	371.0	372.1	375.6	384.9	412.6	457.7	512.0	580.2	674.9	818.3	988.2
57.5°	349.0	351.3	354.8	360.6	377.9	418.4	464.6	520.1	598.7	718.9	881.8
60°	328.2	334.0	339.8	343.3	352.5	376.8	416.1	460.0	523.5	613.7	743.1
62.5°	306.3	313.2	317.8	321.3	324.8	339.8	368.7	397.6	436.9	495.8	592.9
65°	286.6	291.2	294.7	297.0	299.3	304.0	316.7	328.2	339.8	375.6	446.1
67.5°	264.7	267.0	268.1	269.3	268.1	268.1	269.3	273.9	278.5	292.4	325.9
70°	239.2	242.7	242.7	243.9	243.9	240.4	240.4	240.4	240.4	243.9	262.4
72.5°	215.0	219.6	219.6	220.7	219.6	218.4	218.4	218.4	221.9	224.2	231.1
75°	191.9	196.5	195.3	196.5	197.6	197.6	199.9	201.1	204.6	205.7	210.3
77.5°	168.7	172.2	173.4	172.2	174.5	176.8	181.5	183.8	184.9	186.1	187.2
80°	146.8	149.1	147.9	144.5	150.2	153.7	160.6	168.7	166.4	167.6	169.9
82.5°	121.4	117.9	115.6	117.9	121.4	126.0	132.9	143.3	144.5	150.2	149.1
85°	93.6	83.2	82.1	87.8	86.7	92.5	104.0	112.1	119.0	124.8	119.0
87.5°	55.5	49.7	41.6	39.3	42.8	56.6	58.9	71.7	77.4	79.7	71.7
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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CATALOG NUMBER: VTS-F07-LED-E1-SLR

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2
2.5°	1984.4	1990.2	1990.2	1992.5	1996.0	1997.1	2001.7	2009.8	2011.0	2011.0	2014.4
5°	2021.4	2027.2	2027.2	2031.8	2032.9	2038.7	2044.5	2053.7	2058.4	2057.2	2072.2
7.5°	2081.5	2076.9	2073.4	2080.3	2083.8	2090.7	2102.3	2110.4	2118.5	2131.2	2152.0
10°	2132.3	2125.4	2121.9	2126.6	2128.9	2137.0	2143.9	2155.4	2175.1	2194.7	2220.2
12.5°	2173.9	2165.8	2156.6	2158.9	2162.4	2172.8	2184.3	2199.4	2228.3	2253.7	2291.8
15°	2208.6	2197.1	2187.8	2192.4	2200.5	2214.4	2234.0	2260.6	2308.0	2351.9	2402.8
17.5°	2242.1	2239.8	2236.3	2251.4	2257.2	2289.5	2318.4	2366.9	2431.7	2497.5	2570.4
20°	2274.5	2299.9	2312.6	2342.7	2361.2	2405.1	2449.0	2507.9	2590.0	2680.1	2779.5
22.5°	2319.6	2388.9	2431.7	2492.9	2524.1	2571.5	2636.2	2713.7	2805.0	2920.5	3047.7
25°	2427.0	2528.7	2614.3	2710.2	2788.8	2861.6	2939.0	3032.6	3164.4	3269.6	3436.0
27.5°	2474.4	2617.7	2746.0	2881.2	2999.1	3111.2	3233.7	3347.0	3503.0	3645.2	3846.3
30°	2429.4	2591.2	2757.6	2934.4	3106.6	3276.5	3454.5	3627.9	3808.1	4006.9	4220.7
32.5°	2346.1	2527.6	2714.8	2922.9	3136.7	3357.4	3588.6	3840.5	4094.8	4342.1	4560.5
35°	2261.8	2457.1	2665.1	2903.2	3155.2	3429.1	3715.7	4034.7	4371.0	4684.2	4969.7
37.5°	2139.3	2354.2	2592.3	2867.4	3166.7	3504.2	3872.9	4265.8	4691.1	5122.2	5496.7
40°	1991.3	2219.0	2479.1	2795.7	3155.2	3581.6	4061.3	4565.2	5111.8	5637.7	6097.7
42.5°	1856.1	2078.0	2355.4	2699.8	3125.1	3649.8	4240.4	4868.0	5515.2	6103.4	6704.4
45°	1737.1	1982.1	2260.6	2632.8	3110.1	3707.6	4373.3	5094.5	5835.3	6535.7	7245.3
47.5°	1628.4	1882.7	2194.7	2595.8	3103.1	3742.3	4465.8	5242.4	6063.0	6867.4	7691.4
50°	1516.3	1763.7	2097.7	2555.3	3085.8	3741.1	4514.3	5343.0	6222.5	7125.1	7998.8
52.5°	1396.1	1644.6	1979.8	2481.4	3048.8	3720.3	4527.0	5411.2	6348.5	7283.4	8260.0
55°	1286.3	1518.6	1853.8	2357.7	2971.4	3669.5	4498.1	5440.0	6437.4	7440.6	8443.8
57.5°	1160.4	1401.9	1720.9	2187.8	2825.8	3579.3	4416.1	5399.6	6462.9	7545.8	8589.4
60°	987.0	1223.9	1552.2	1986.7	2598.1	3388.6	4263.5	5277.1	6382.0	7564.3	8693.4
62.5°	788.2	992.8	1309.4	1709.3	2278.0	3089.3	3981.5	5002.0	6130.0	7390.9	8640.3
65°	586.0	722.3	995.1	1346.4	1907.0	2638.5	3527.3	4540.9	5637.7	6909.0	8306.3
67.5°	408.0	506.2	673.8	935.0	1386.9	2037.6	2878.9	3820.9	4876.0	6016.8	7612.8
70°	308.6	353.7	445.0	590.6	898.0	1388.0	2093.0	2932.1	3911.0	5010.1	6513.7
72.5°	263.5	286.6	337.5	404.5	550.1	843.7	1314.1	2017.9	2885.9	3780.4	4997.4
75°	236.9	256.6	288.9	331.7	389.5	512.0	770.9	1277.1	1911.6	2532.2	3486.9
77.5°	215.0	232.3	261.2	283.2	314.4	368.7	491.2	763.9	1145.3	1564.9	2163.5
80°	191.9	202.3	228.8	250.8	275.1	306.3	352.5	479.6	657.6	926.9	1275.9
82.5°	164.1	172.2	191.9	221.9	240.4	253.1	267.0	317.8	394.1	502.7	708.5
85°	127.1	132.9	150.2	172.2	180.3	181.5	183.8	197.6	245.0	376.8	610.2
87.5°	64.7	71.7	90.1	97.1	82.1	89.0	90.1	95.9	127.1	206.9	210.3
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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REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	0°
2.5°	2014.4	2017.9	2026.0	2024.8	2030.6	2030.6	2030.6	2036.4	2032.9	2036.4	2042.2	2.5°
5°	2072.2	2078.0	2089.6	2089.6	2090.7	2087.3	2094.2	2098.8	2093.0	2090.7	2091.9	5°
7.5°	2156.6	2165.8	2175.1	2184.3	2191.3	2187.8	2189.0	2178.6	2176.2	2168.2	2157.8	7.5°
10°	2238.7	2264.1	2281.4	2297.6	2298.8	2295.3	2296.4	2279.1	2275.6	2259.5	2249.1	10°
12.5°	2323.0	2355.4	2383.1	2400.5	2410.9	2413.2	2414.3	2414.3	2398.1	2384.3	2360.0	12.5°
15°	2447.8	2504.5	2547.2	2565.7	2580.8	2594.6	2598.1	2602.7	2590.0	2571.5	2568.0	15°
17.5°	2645.5	2698.6	2755.3	2805.0	2838.5	2840.8	2869.7	2867.4	2894.0	2873.2	2867.4	17.5°
20°	2880.1	2995.7	3054.6	3120.5	3158.6	3177.1	3244.1	3223.3	3243.0	3276.5	3243.0	20°
22.5°	3173.6	3320.4	3406.0	3496.1	3558.5	3603.6	3652.1	3690.3	3743.4	3768.9	3745.7	22.5°
25°	3563.1	3730.7	3832.4	3957.2	4056.6	4137.5	4221.9	4323.6	4322.4	4383.7	4426.5	25°
27.5°	4010.4	4224.2	4372.1	4591.7	4677.3	4813.6	4958.1	5115.3	5143.0	5222.8	5263.2	27.5°
30°	4431.1	4695.8	4989.3	5250.5	5546.4	5748.6	5916.2	6027.2	6194.7	6153.1	6130.0	30°
32.5°	4819.4	5171.9	5590.3	6019.1	6488.3	6808.4	7104.3	7241.8	7345.9	7125.1	6832.7	32.5°
35°	5323.3	5745.2	6223.6	6753.0	7349.3	7803.5	8108.6	8151.4	8092.5	7809.3	7325.0	35°
37.5°	5947.4	6390.1	6934.4	7493.8	8127.1	8553.6	8901.5	8963.9	8807.9	8302.8	7794.3	37.5°
40°	6563.4	7082.3	7672.9	8335.2	8991.6	9460.8	9809.9	9828.4	9574.1	8983.5	8388.3	40°
42.5°	7237.2	7804.7	8462.3	9196.2	9874.6	10349.6	10601.6	10681.3	10321.9	9564.9	8993.9	42.5°
45°	7818.5	8497.0	9229.7	10009.8	10719.4	11170.2	11426.8	11401.3	10966.8	10219.0	9549.8	45°
47.5°	8384.9	9131.5	9903.5	10732.2	11437.2	11892.5	12156.0	12132.9	11581.6	10720.6	9984.4	47.5°
50°	8888.8	9698.9	10524.1	11409.4	12112.1	12529.3	12851.8	12750.1	12053.2	11123.9	10264.1	50°
52.5°	9238.9	10142.7	11004.9	11961.9	12685.3	13080.6	13490.9	13163.8	12331.7	11371.3	10414.3	52.5°
55°	9460.8	10447.8	11347.0	12405.7	13116.4	13589.1	13853.8	13389.2	12439.2	11439.5	10466.3	55°
57.5°	9611.1	10615.4	11548.1	12662.2	13504.8	13901.2	13965.9	13397.3	12369.8	11332.0	10414.3	57.5°
60°	9685.1	10665.1	11639.4	12842.5	13777.5	13994.8	13876.9	13210.0	12130.6	11016.5	10079.2	60°
62.5°	9677.0	10602.7	11592.0	12902.6	13831.8	13859.6	13591.4	12891.1	11690.3	10354.2	9522.1	62.5°
65°	9471.2	10375.0	11325.0	12679.6	13578.7	13459.7	13122.2	12292.4	10833.9	9489.7	9069.1	65°
67.5°	8878.4	9745.2	10627.0	11949.1	12865.6	12750.1	12239.2	11115.9	9838.8	8724.6	8498.1	67.5°
70°	7886.7	8621.8	9396.1	10557.6	11519.2	11363.2	10469.8	9786.8	8852.9	7840.5	7761.9	70°
72.5°	6593.5	7150.5	7712.2	8576.7	9238.9	8920.0	8358.3	8322.4	7567.8	6794.6	6810.7	72.5°
75°	5156.9	5575.3	5837.6	6346.1	6786.5	6501.0	6534.5	6733.3	6484.8	5875.8	5678.1	75°
77.5°	3736.5	4137.5	4220.7	4522.4	4832.1	5156.9	5586.8	6054.9	6133.5	5791.4	5074.8	77.5°
80°	2445.5	2887.0	2722.9	2830.4	3266.1	3859.0	4643.7	5414.6	5679.3	5371.9	4490.0	80°
82.5°	1442.4	2060.7	1799.5	1983.2	2259.5	2776.1	3318.1	3899.4	4342.1	4015.0	3750.4	82.5°
85°	1095.6	1625.0	1720.9	1943.9	2034.1	2056.1	2150.8	2340.4	2569.2	2654.7	2647.8	85°
87.5°	570.9	1263.2	1418.1	1311.8	1223.9	1061.0	827.5	891.1	814.8	1114.1	1055.2	87.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90°



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**DISTRIBUTION (continued):**

330°	335°	340°	345°	350°	355°	360°
1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2
2043.3	2039.9	2042.2	2043.3	2043.3	2043.3	2045.7
2090.7	2081.5	2078.0	2078.0	2076.9	2073.4	2072.2
2141.6	2125.4	2119.6	2112.7	2106.9	2103.4	2097.7
2232.9	2219.0	2190.1	2173.9	2158.9	2148.5	2139.3
2355.4	2335.7	2308.0	2287.2	2264.1	2257.2	2245.6
2544.9	2527.6	2503.3	2480.2	2466.3	2442.1	2424.7
2840.8	2806.1	2781.9	2751.8	2718.3	2668.6	2644.3
3230.3	3160.9	3112.4	3085.8	3018.8	3010.7	2951.7
3677.5	3656.7	3582.8	3550.4	3485.7	3460.3	3367.8
4346.7	4330.5	4179.1	4163.0	4063.6	3989.6	3846.3
5226.2	5093.3	4922.3	4803.2	4633.3	4442.6	4198.8
5994.8	5723.2	5462.0	5184.6	4950.0	4676.1	4399.9
6484.8	6120.8	5784.5	5500.1	5210.1	4884.1	4529.3
6914.8	6547.2	6180.9	5844.6	5493.2	5076.0	4638.0
7429.1	7063.9	6651.3	6178.6	5727.8	5217.0	4681.9
7956.1	7528.5	7013.0	6434.0	5867.7	5286.3	4673.8
8495.8	7949.1	7263.8	6603.9	5956.7	5296.7	4619.5
8933.8	8242.7	7449.9	6690.5	5975.1	5260.9	4551.3
9243.6	8431.1	7533.1	6720.6	5952.0	5204.3	4458.8
9420.4	8533.9	7553.9	6698.6	5904.6	5123.4	4358.3
9485.1	8565.2	7533.1	6653.6	5861.9	5036.7	4287.8
9478.2	8547.8	7456.8	6548.4	5747.5	4921.1	4201.1
9347.6	8387.2	7300.8	6422.4	5650.4	4868.0	4206.9
9125.7	8285.5	7254.5	6447.8	5701.2	4982.4	4389.5
9025.1	8488.9	7514.6	6702.1	5962.4	5309.4	4766.3
8968.5	8819.4	7886.7	6976.0	6272.2	5705.9	5215.8
8737.4	8914.2	8098.2	7132.0	6548.4	6103.4	5665.4
8364.1	8693.4	7937.6	7102.0	6701.0	6408.5	5827.2
7585.1	7933.0	7222.2	6659.3	6510.3	6413.2	5584.5
6145.0	6325.3	5920.8	5793.7	5849.2	5850.3	4684.2
4531.6	4423.0	4240.4	4249.6	4622.9	4565.2	3338.9
3699.5	3028.0	2769.1	2867.4	3328.5	3080.0	2097.7
3442.9	2701.0	2229.4	2252.5	2513.7	1984.4	1263.2
2784.2	2461.7	1974.0	1771.7	1719.7	1322.2	857.6
1165.0	1071.4	797.5	718.9	589.4	360.6	164.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)