

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: STREETWORKS

Report Number: P159153

Luminaire Tested: **VST-F09-LED-E-U-SLR-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159153
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: STREETWORKS
Catalog Number: VST-F09-LED-E-U-SLR-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(9) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (63) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16850.9 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 234.8
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: 28.75 FT



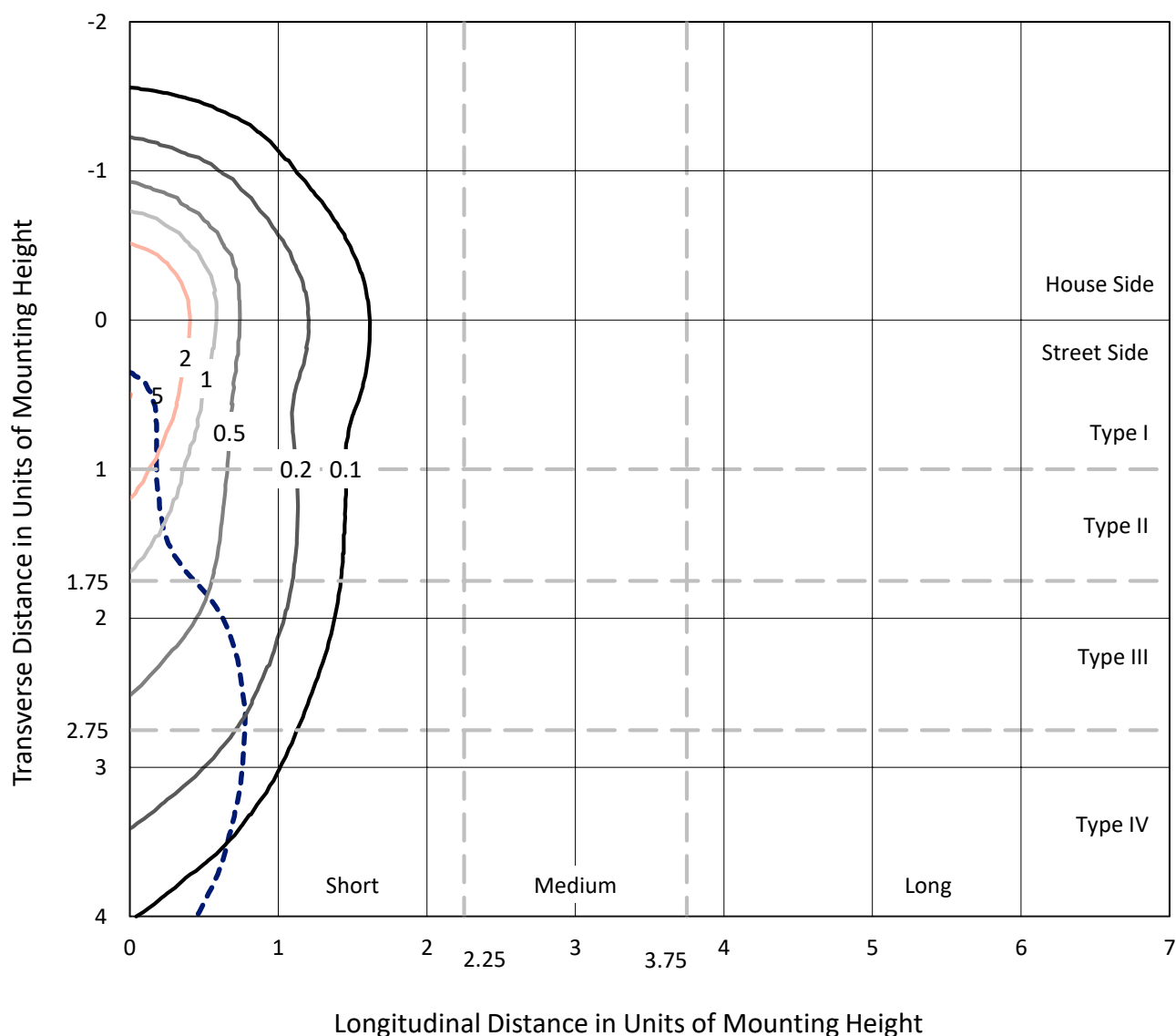
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

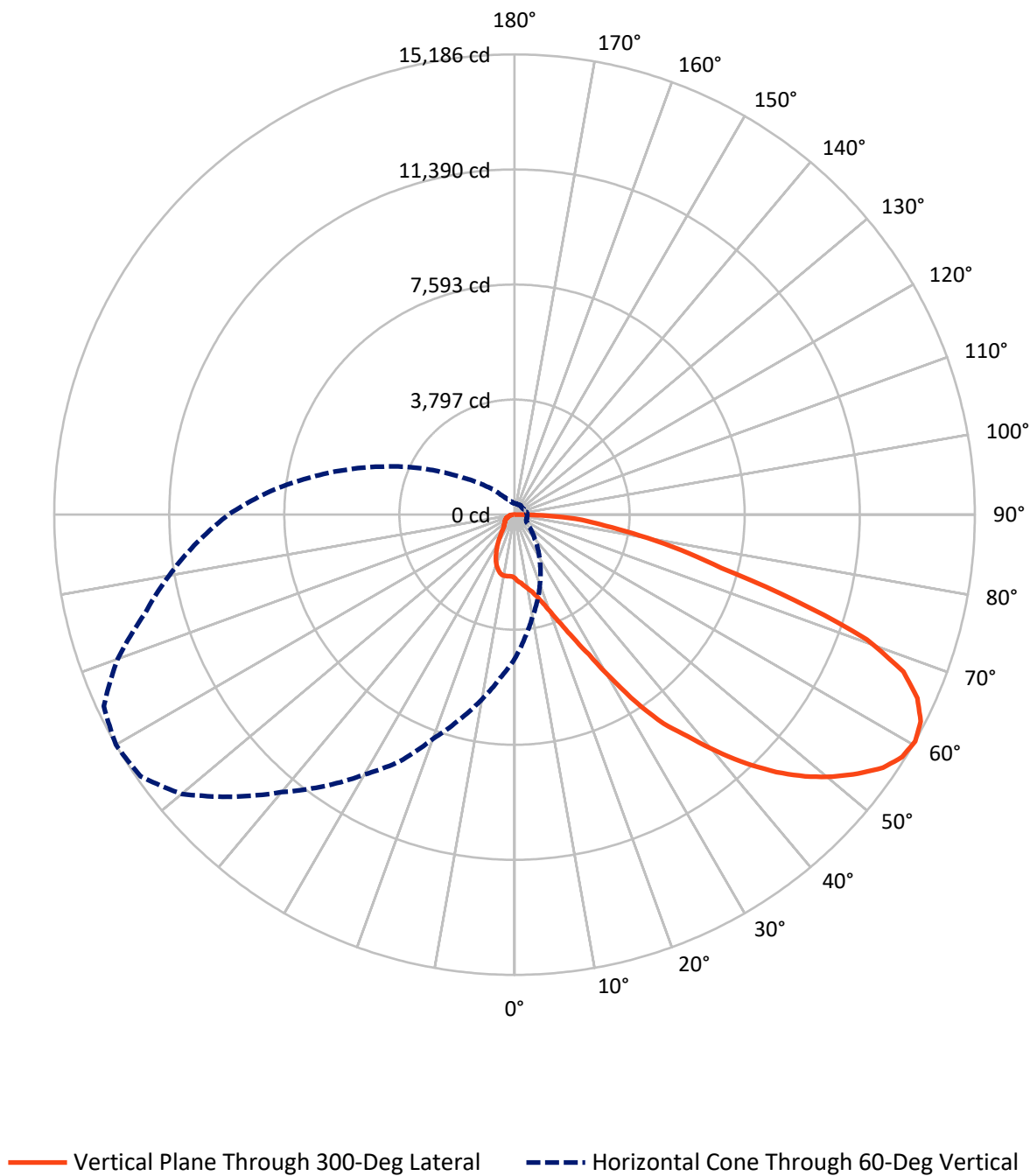


Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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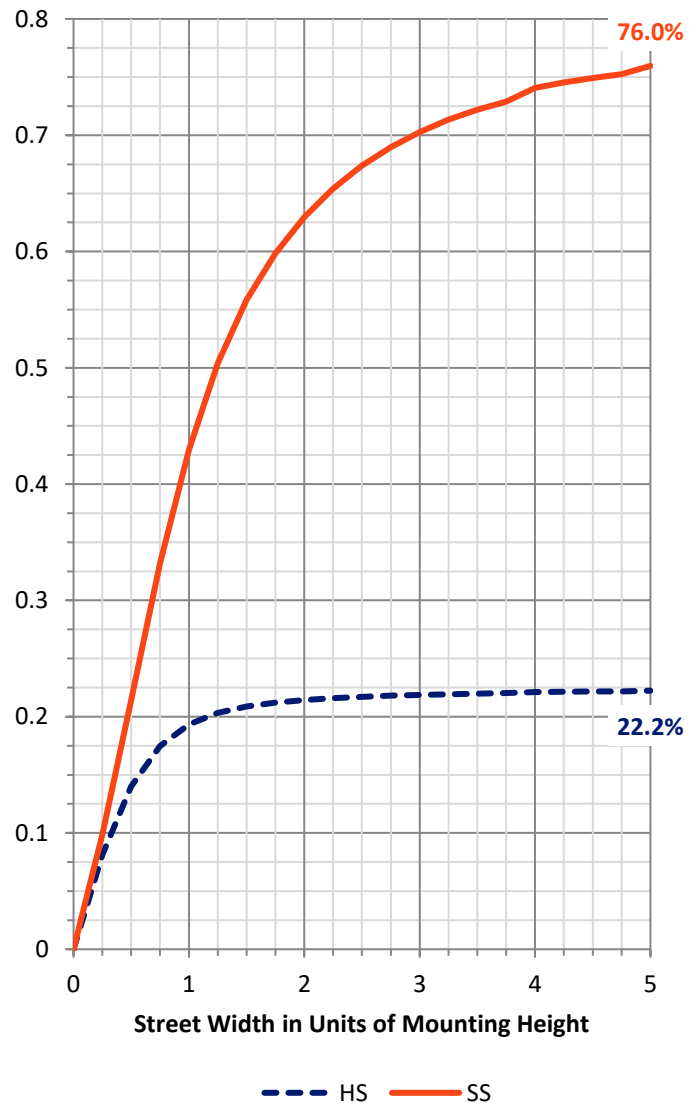
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3794.3	0.0	3794.3
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	13056.6	0.0	13056.6
	% Fixture	77.5	0.0	77.5
Total	Lumens	16850.9	0.0	16850.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.8	1.2
10°-20°	667.6	4.0
20°-30°	1266.7	7.5
30°-40°	1994.9	11.8
40°-50°	2784.4	16.5
50°-60°	3443.6	20.4
60°-70°	3569.5	21.2
70°-80°	2246.1	13.3
80°-90°	671.4	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°	16850.9	100.0
0°-180°	16850.9	100.0

Coefficient of Utilization



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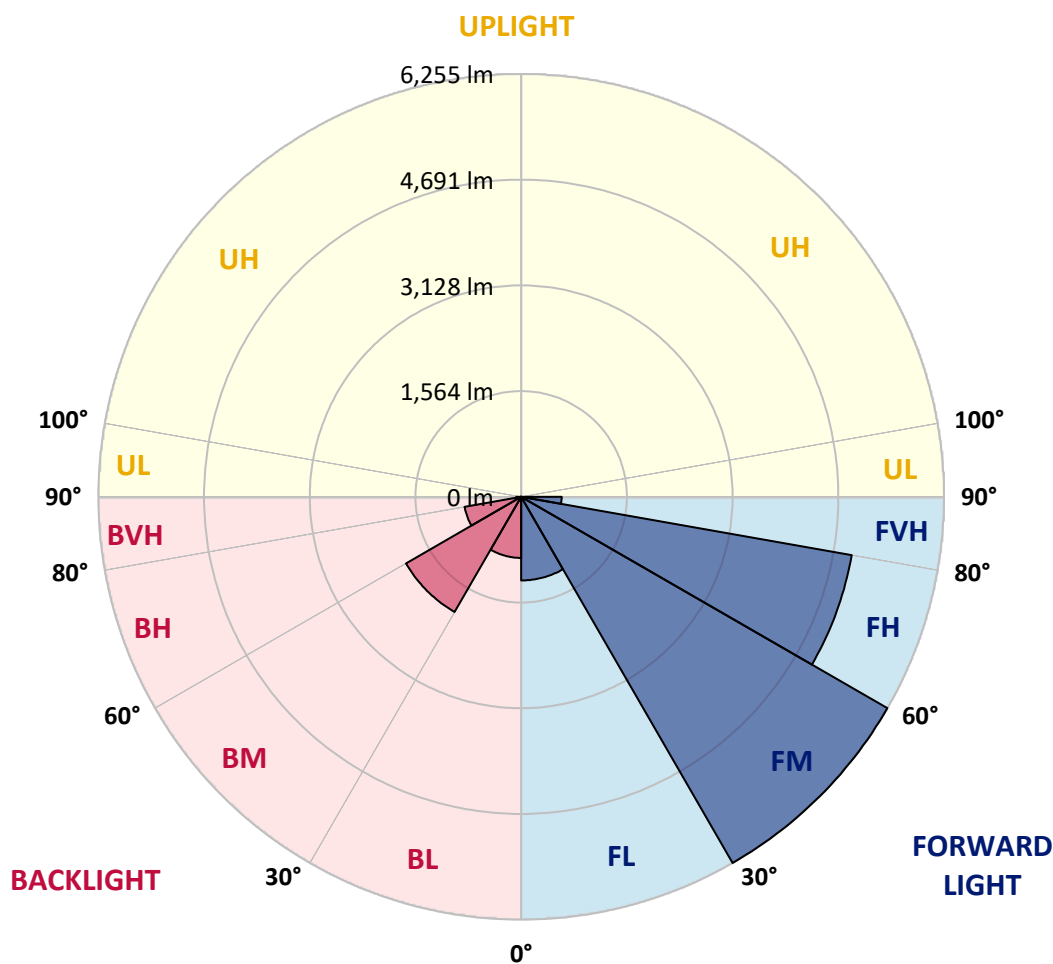
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1237.1	7.3			
FM	(30°-60°)	6255.3	37.1			
FH	(60°-80°)	4965.8	29.5			G2/5000
FVH	(80°-90°)	598.4	3.6			G4/750
BL	(0°-30°)	903.9	5.4	B2/1000		
BM	(30°-60°)	1967.6	11.7	B2/2500		
BH	(60°-80°)	849.8	5.0	B2/1000		G2/1000
BVH	(80°-90°)	73.0	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6
2.5°	2219.8	2086.9	2089.4	2085.6	2085.6	2083.1	2085.6	2083.1	2080.6	2080.6	2081.8
5°	2248.6	2101.9	2101.9	2098.1	2095.6	2093.1	2095.6	2093.1	2091.9	2089.4	2090.6
7.5°	2276.2	2110.7	2105.7	2100.7	2094.4	2096.9	2096.9	2095.6	2096.9	2095.6	2098.1
10°	2321.4	2139.5	2127.0	2115.7	2114.5	2111.9	2111.9	2108.2	2108.2	2105.7	2106.9
12.5°	2436.8	2228.6	2214.8	2194.7	2191.0	2179.7	2173.4	2165.9	2153.3	2142.0	2133.3
15°	2631.2	2376.6	2350.2	2332.7	2325.1	2302.6	2267.5	2239.9	2203.5	2172.1	2139.5
17.5°	2869.4	2574.7	2543.4	2520.8	2483.2	2421.7	2362.8	2295.0	2224.8	2160.9	2101.9
20°	3203.0	2859.4	2798.0	2744.0	2650.0	2544.6	2434.3	2316.4	2208.5	2108.2	2021.6
22.5°	3654.5	3226.9	3112.7	2968.5	2794.2	2616.1	2440.5	2277.5	2133.3	2002.8	1887.5
25°	4173.7	3578.0	3372.3	3124.0	2856.9	2611.1	2380.3	2170.9	2002.8	1834.8	1709.4
27.5°	4556.2	3871.5	3568.0	3241.9	2900.8	2587.3	2303.8	2050.5	1847.3	1675.5	1523.8
30°	4774.5	4039.5	3674.6	3292.1	2908.3	2547.1	2207.3	1913.8	1679.3	1474.8	1329.4
32.5°	4914.9	4129.8	3685.9	3241.9	2818.0	2428.0	2060.5	1755.8	1501.2	1283.0	1128.7
35°	5032.8	4166.2	3633.2	3130.3	2647.5	2247.4	1872.4	1567.7	1298.0	1097.4	939.3
37.5°	5080.5	4159.9	3549.2	2981.1	2480.7	2050.5	1680.5	1368.2	1127.5	950.6	815.2
40°	5071.7	4102.2	3435.0	2821.8	2285.0	1844.8	1477.4	1202.7	1007.1	857.8	758.7
42.5°	5012.7	4025.7	3308.4	2660.0	2105.7	1674.3	1339.4	1096.1	938.1	825.2	738.7
45°	4938.7	3934.2	3193.0	2512.0	1964.0	1552.6	1259.1	1066.0	929.3	821.5	728.6
47.5°	4838.4	3832.6	3076.4	2406.7	1888.7	1516.2	1257.9	1083.6	936.8	812.7	711.1
50°	4729.3	3758.6	3012.4	2361.5	1879.9	1538.8	1301.8	1111.2	941.8	803.9	687.3
52.5°	4652.8	3726.0	3011.2	2377.8	1926.3	1601.5	1353.2	1146.3	960.7	808.9	682.2
55°	4558.7	3721.0	3043.8	2448.1	2027.9	1708.1	1434.7	1206.5	999.5	827.7	686.0
57.5°	4565.0	3820.1	3170.4	2621.1	2211.0	1852.3	1538.8	1280.5	1037.2	839.0	679.7
60°	4763.2	4050.8	3420.0	2917.1	2450.6	2021.6	1645.4	1320.6	1034.7	813.9	649.6
62.5°	5172.0	4397.0	3793.7	3264.5	2693.9	2152.1	1684.3	1309.3	997.0	760.0	600.7
65°	5659.9	4802.0	4157.4	3534.1	2841.8	2182.2	1650.4	1246.6	921.8	689.8	541.8
67.5°	6147.7	5089.2	4366.9	3610.6	2781.6	2060.5	1525.0	1106.1	793.9	594.5	475.3
70°	6323.3	5148.2	4350.6	3438.8	2508.2	1758.3	1255.4	890.4	637.1	486.6	400.1
72.5°	6059.9	4779.5	3867.7	2922.1	2039.2	1363.2	920.5	657.2	486.6	381.3	326.1
75°	5083.0	3848.9	3057.6	2201.0	1472.3	964.4	664.7	479.1	366.2	302.2	260.9
77.5°	3623.2	2680.1	2083.1	1446.0	955.6	668.4	476.6	359.9	291.0	242.0	211.9
80°	2276.2	1645.4	1269.2	867.9	595.7	454.0	342.4	284.7	234.5	196.9	176.8
82.5°	1370.8	958.2	747.5	539.3	391.3	311.0	252.1	223.2	186.9	163.0	151.7
85°	930.6	704.8	490.4	318.5	235.8	183.1	171.8	154.3	139.2	116.6	112.9
87.5°	178.1	252.1	219.5	130.4	86.5	74.0	65.2	62.7	56.4	45.1	51.4
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°	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6
2.5°	2074.3	2071.8	2066.8	2066.8	2063.0	2055.5	2054.3	2049.2	2043.0	2044.2	2043.0
5°	2081.8	2076.8	2070.6	2068.1	2063.0	2055.5	2051.7	2045.5	2039.2	2039.2	2039.2
7.5°	2090.6	2084.4	2079.3	2070.6	2060.5	2053.0	2043.0	2035.4	2031.7	2030.4	2031.7
10°	2098.1	2094.4	2086.9	2074.3	2060.5	2045.5	2035.4	2025.4	2015.4	2016.6	2017.9
12.5°	2114.5	2101.9	2081.8	2063.0	2041.7	2022.9	2005.3	1992.8	1980.3	1980.3	1981.5
15°	2103.2	2066.8	2039.2	2002.8	1979.0	1948.9	1928.8	1917.6	1910.0	1907.5	1908.8
17.5°	2036.7	1992.8	1951.4	1918.8	1886.2	1862.4	1853.6	1846.1	1836.0	1841.1	1836.0
20°	1936.4	1882.4	1823.5	1784.6	1745.7	1729.4	1714.4	1706.9	1700.6	1723.2	1723.2
22.5°	1792.1	1726.9	1666.7	1619.1	1575.2	1557.6	1542.6	1533.8	1537.6	1565.1	1567.7
25°	1610.3	1531.3	1452.3	1423.4	1379.5	1365.7	1357.0	1355.7	1359.5	1387.1	1393.3
27.5°	1417.2	1334.4	1266.7	1200.2	1180.1	1168.8	1152.5	1171.4	1175.1	1205.2	1217.8
30°	1211.5	1122.4	1051.0	1007.1	964.4	970.7	956.9	979.5	989.5	1020.9	1030.9
32.5°	1000.8	916.8	845.3	801.4	771.3	775.0	765.0	785.1	795.1	832.7	851.6
35°	827.7	756.2	698.5	660.9	647.1	633.3	630.8	633.3	643.4	672.2	706.1
37.5°	728.6	669.7	628.3	600.7	581.9	573.1	568.1	568.1	568.1	574.4	590.7
40°	686.0	633.3	597.0	570.6	558.1	553.1	549.3	545.5	539.3	536.8	538.0
42.5°	667.2	607.0	568.1	548.1	540.5	540.5	540.5	538.0	531.7	525.5	519.2
45°	648.4	583.2	544.3	530.5	526.7	528.0	528.0	528.0	523.0	515.4	504.2
47.5°	624.6	556.8	518.0	509.2	509.2	512.9	514.2	514.2	509.2	501.6	492.9
50°	595.7	523.0	487.9	480.3	476.6	476.6	476.6	476.6	472.8	467.8	461.5
52.5°	580.7	504.2	467.8	460.3	460.3	456.5	455.2	451.5	447.7	444.0	435.2
55°	575.6	496.6	459.0	452.7	452.7	449.0	445.2	441.5	435.2	428.9	420.1
57.5°	561.8	480.3	447.7	442.7	442.7	440.2	436.4	432.7	426.4	417.6	406.3
60°	530.5	452.7	425.1	423.9	423.9	422.6	420.1	420.1	413.9	405.1	391.3
62.5°	490.4	423.9	397.6	397.6	396.3	395.0	390.0	388.8	381.3	370.0	357.4
65°	451.5	398.8	381.3	376.2	373.7	370.0	367.5	361.2	354.9	344.9	332.3
67.5°	402.6	361.2	349.9	344.9	339.9	336.1	332.3	328.6	321.1	313.5	303.5
70°	349.9	319.8	313.5	312.3	306.0	302.2	301.0	297.2	289.7	282.2	269.6
72.5°	299.7	282.2	277.2	277.2	269.6	264.6	262.1	260.9	255.8	249.6	238.3
75°	242.0	229.5	228.3	234.5	234.5	230.8	228.3	230.8	223.2	219.5	208.2
77.5°	198.2	191.9	188.1	190.6	198.2	194.4	189.4	189.4	189.4	183.1	179.3
80°	168.1	163.0	159.3	161.8	160.5	159.3	156.8	151.7	151.7	151.7	150.5
82.5°	151.7	150.5	136.7	136.7	131.7	127.9	125.4	122.9	120.4	120.4	126.7
85°	114.1	117.9	110.4	109.1	102.8	97.8	92.8	90.3	87.8	91.6	104.1
87.5°	55.2	55.2	52.7	58.9	53.9	51.4	47.7	45.1	47.7	58.9	70.2
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6
2.5°	2040.5	2039.2	2038.0	2035.4	2030.4	2029.2	2026.7	2026.7	2025.4	2022.9	2025.4
5°	2036.7	2039.2	2039.2	2038.0	2034.2	2036.7	2036.7	2040.5	2040.5	2043.0	2049.2
7.5°	2031.7	2038.0	2043.0	2046.7	2051.7	2055.5	2063.0	2074.3	2079.3	2088.1	2091.9
10°	2021.6	2032.9	2041.7	2053.0	2065.5	2079.3	2090.6	2108.2	2114.5	2127.0	2133.3
12.5°	1992.8	2011.6	2026.7	2049.2	2070.6	2091.9	2111.9	2134.5	2145.8	2159.6	2168.4
15°	1922.6	1943.9	1965.2	1985.3	2022.9	2064.3	2096.9	2127.0	2143.3	2160.9	2169.6
17.5°	1838.5	1852.3	1869.9	1896.2	1932.6	1969.0	2021.6	2064.3	2089.4	2109.4	2111.9
20°	1740.7	1760.8	1773.3	1783.4	1812.2	1837.3	1893.7	1942.6	1975.2	1999.1	2005.3
22.5°	1591.5	1612.8	1634.1	1641.6	1664.2	1696.8	1728.2	1780.9	1827.3	1862.4	1883.7
25°	1420.9	1441.0	1469.8	1492.4	1497.4	1523.8	1555.1	1615.3	1663.0	1719.4	1744.5
27.5°	1250.4	1267.9	1299.3	1311.8	1326.9	1353.2	1378.3	1428.4	1478.6	1543.8	1571.4
30°	1051.0	1088.6	1124.9	1148.8	1161.3	1192.7	1210.2	1259.1	1305.5	1353.2	1393.3
32.5°	880.4	914.3	955.6	985.7	1000.8	1024.6	1052.2	1093.6	1130.0	1176.4	1222.8
35°	723.6	770.0	797.6	824.0	862.8	874.1	901.7	939.3	960.7	1010.8	1063.5
37.5°	613.3	640.9	668.4	694.8	727.4	742.4	768.8	800.1	825.2	855.3	903.0
40°	545.5	560.6	580.7	598.2	622.0	640.9	654.7	681.0	699.8	729.9	763.8
42.5°	514.2	518.0	520.5	533.0	545.5	558.1	573.1	584.4	607.0	629.6	650.9
45°	496.6	489.1	485.3	486.6	491.6	499.1	511.7	524.2	539.3	553.1	565.6
47.5°	481.6	471.6	460.3	454.0	455.2	457.8	467.8	477.8	485.3	496.6	501.6
50°	446.5	437.7	427.7	418.9	420.1	421.4	430.2	437.7	442.7	446.5	452.7
52.5°	423.9	411.4	402.6	393.8	392.5	396.3	403.8	411.4	413.9	416.4	417.6
55°	407.6	395.0	383.8	375.0	371.2	380.0	382.5	392.5	396.3	396.3	397.6
57.5°	395.0	380.0	368.7	359.9	353.7	359.9	366.2	377.5	378.7	376.2	376.2
60°	376.2	365.0	353.7	344.9	338.6	343.6	348.6	361.2	361.2	354.9	353.7
62.5°	343.6	337.4	329.8	326.1	324.8	329.8	333.6	343.6	339.9	332.3	329.8
65°	319.8	314.8	307.3	304.8	303.5	311.0	312.3	318.5	313.5	309.8	308.5
67.5°	291.0	287.2	283.4	282.2	278.4	278.4	280.9	284.7	282.2	282.2	283.4
70°	258.3	253.3	249.6	250.8	248.3	248.3	249.6	252.1	250.8	253.3	255.8
72.5°	228.3	222.0	220.7	220.7	218.2	219.5	219.5	220.7	223.2	224.5	230.8
75°	199.4	193.1	193.1	191.9	191.9	191.9	193.1	195.6	198.2	199.4	201.9
77.5°	173.1	169.3	170.6	169.3	169.3	169.3	169.3	173.1	174.3	175.6	179.3
80°	149.2	149.2	150.5	150.5	149.2	148.0	149.2	151.7	153.0	154.3	155.5
82.5°	135.4	136.7	136.7	136.7	130.4	127.9	131.7	134.2	136.7	138.0	140.5
85°	116.6	111.6	116.6	115.4	106.6	105.3	105.3	106.6	109.1	106.6	106.6
87.5°	75.2	67.7	71.5	71.5	62.7	51.4	65.2	70.2	62.7	66.5	66.5
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°	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6
2.5°	2029.2	2026.7	2027.9	2027.9	2030.4	2026.7	2031.7	2036.7	2038.0	2038.0	2039.2
5°	2055.5	2053.0	2061.8	2058.0	2066.8	2065.5	2071.8	2076.8	2079.3	2079.3	2079.3
7.5°	2096.9	2105.7	2110.7	2124.5	2125.7	2133.3	2139.5	2145.8	2143.3	2144.6	2143.3
10°	2143.3	2154.6	2167.1	2180.9	2182.2	2191.0	2201.0	2207.3	2204.7	2203.5	2199.7
12.5°	2183.4	2191.0	2206.0	2219.8	2227.3	2241.1	2251.2	2256.2	2256.2	2252.4	2248.6
15°	2180.9	2192.2	2208.5	2228.6	2242.4	2262.4	2280.0	2291.3	2292.5	2288.8	2287.5
17.5°	2125.7	2142.0	2157.1	2184.7	2209.8	2237.4	2266.2	2282.5	2297.6	2306.3	2311.4
20°	2026.7	2046.7	2068.1	2104.4	2138.3	2174.7	2208.5	2232.3	2254.9	2281.3	2312.6
22.5°	1910.0	1940.1	1970.2	2016.6	2058.0	2099.4	2138.3	2167.1	2202.2	2247.4	2306.3
25°	1773.3	1804.7	1842.3	1896.2	1948.9	2009.1	2066.8	2124.5	2192.2	2270.0	2361.5
27.5°	1611.5	1646.7	1695.6	1760.8	1821.0	1882.4	1972.7	2064.3	2174.7	2275.0	2379.1
30°	1451.0	1496.2	1548.8	1614.1	1674.3	1762.0	1852.3	1965.2	2081.8	2194.7	2318.9
32.5°	1278.0	1334.4	1399.6	1453.5	1521.3	1610.3	1700.6	1821.0	1945.1	2078.1	2214.8
35°	1111.2	1165.1	1216.5	1276.7	1344.4	1428.4	1516.2	1631.6	1788.4	1930.1	2093.1
37.5°	941.8	992.0	1028.4	1076.0	1135.0	1227.8	1321.8	1454.8	1602.8	1777.1	1940.1
40°	793.9	835.2	876.6	914.3	964.4	1052.2	1152.5	1283.0	1428.4	1597.8	1779.6
42.5°	676.0	707.3	752.5	797.6	840.3	915.5	1009.6	1137.5	1281.7	1454.8	1636.6
45°	576.9	598.2	634.6	672.2	724.9	787.6	877.9	1008.3	1155.0	1329.4	1521.3
47.5°	505.4	515.4	540.5	579.4	628.3	689.8	767.5	885.4	1028.4	1204.0	1405.9
50°	456.5	467.8	480.3	512.9	556.8	619.5	683.5	786.3	916.8	1088.6	1289.2
52.5°	422.6	427.7	432.7	452.7	492.9	545.5	613.3	691.0	822.7	987.0	1167.6
55°	402.6	403.8	407.6	417.6	447.7	496.6	555.6	629.6	732.4	887.9	1072.3
57.5°	378.7	381.3	385.0	391.3	410.1	454.0	504.2	564.4	649.6	780.1	956.9
60°	356.2	362.4	368.7	372.5	382.5	408.8	451.5	499.1	568.1	665.9	806.4
62.5°	332.3	339.9	344.9	348.6	352.4	368.7	400.1	431.4	474.1	538.0	643.4
65°	311.0	316.0	319.8	322.3	324.8	329.8	343.6	356.2	368.7	407.6	484.1
67.5°	287.2	289.7	291.0	292.2	291.0	291.0	292.2	297.2	302.2	317.3	353.7
70°	259.6	263.4	263.4	264.6	264.6	260.9	260.9	260.9	260.9	264.6	284.7
72.5°	233.3	238.3	238.3	239.5	238.3	237.0	237.0	237.0	240.8	243.3	250.8
75°	208.2	213.2	211.9	213.2	214.5	214.5	217.0	218.2	222.0	223.2	228.3
77.5°	183.1	186.9	188.1	186.9	189.4	191.9	196.9	199.4	200.7	201.9	203.2
80°	159.3	161.8	160.5	156.8	163.0	166.8	174.3	183.1	180.6	181.8	184.4
82.5°	131.7	127.9	125.4	127.9	131.7	136.7	144.2	155.5	156.8	163.0	161.8
85°	101.6	90.3	89.0	95.3	94.1	100.3	112.9	121.7	129.2	135.4	129.2
87.5°	60.2	53.9	45.1	42.6	46.4	61.5	64.0	77.8	84.0	86.5	77.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P159153

CATALOG NUMBER: VST-F09-LED-E-U-SLR-8030

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6
2.5°	2153.3	2159.6	2159.6	2162.1	2165.9	2167.1	2172.1	2180.9	2182.2	2182.2	2185.9
5°	2193.5	2199.7	2199.7	2204.7	2206.0	2212.3	2218.5	2228.6	2233.6	2232.3	2248.6
7.5°	2258.7	2253.7	2249.9	2257.4	2261.2	2268.7	2281.3	2290.0	2298.8	2312.6	2335.2
10°	2313.9	2306.3	2302.6	2307.6	2310.1	2318.9	2326.4	2338.9	2360.3	2381.6	2409.2
12.5°	2359.0	2350.2	2340.2	2342.7	2346.5	2357.8	2370.3	2386.6	2418.0	2445.5	2486.9
15°	2396.6	2384.1	2374.1	2379.1	2387.9	2402.9	2424.2	2453.1	2504.5	2552.1	2607.3
17.5°	2433.0	2430.5	2426.7	2443.0	2449.3	2484.4	2515.8	2568.4	2638.7	2710.2	2789.2
20°	2468.1	2495.7	2509.5	2542.1	2562.2	2609.8	2657.5	2721.4	2810.5	2908.3	3016.2
22.5°	2517.0	2592.3	2638.7	2705.1	2739.0	2790.4	2860.7	2944.7	3043.8	3169.2	3307.1
25°	2633.7	2744.0	2836.8	2940.9	3026.2	3105.2	3189.2	3290.8	3433.8	3547.9	3728.5
27.5°	2685.1	2840.6	2979.8	3126.5	3254.5	3376.1	3509.0	3631.9	3801.2	3955.5	4173.7
30°	2636.2	2811.7	2992.3	3184.2	3371.1	3555.4	3748.6	3936.7	4132.3	4348.0	4580.1
32.5°	2545.9	2742.8	2945.9	3171.7	3403.7	3643.2	3894.1	4167.5	4443.4	4711.7	4948.8
35°	2454.3	2666.3	2892.0	3150.4	3423.8	3721.0	4032.0	4378.1	4743.1	5083.0	5392.7
37.5°	2321.4	2554.7	2813.0	3111.5	3436.3	3802.5	4202.6	4629.0	5090.5	5558.3	5964.6
40°	2160.9	2407.9	2690.1	3033.7	3423.8	3886.5	4407.0	4953.8	5547.0	6117.6	6616.8
42.5°	2014.1	2254.9	2555.9	2929.6	3391.2	3960.5	4601.4	5282.4	5984.7	6623.0	7275.2
45°	1884.9	2150.8	2453.1	2856.9	3374.8	4023.2	4745.6	5528.2	6332.1	7092.1	7862.1
47.5°	1767.1	2043.0	2381.6	2816.8	3367.3	4060.9	4845.9	5688.7	6579.1	7452.0	8346.2
50°	1645.4	1913.8	2276.2	2772.9	3348.5	4059.6	4898.6	5797.8	6752.2	7731.7	8679.8
52.5°	1515.0	1784.6	2148.3	2692.6	3308.4	4037.0	4912.4	5871.8	6888.9	7903.5	8963.2
55°	1395.8	1647.9	2011.6	2558.4	3224.4	3981.8	4881.1	5903.2	6985.5	8074.1	9162.6
57.5°	1259.1	1521.3	1867.4	2374.1	3066.3	3884.0	4792.0	5859.3	7013.1	8188.2	9320.6
60°	1071.0	1328.1	1684.3	2155.8	2819.3	3677.1	4626.5	5726.3	6925.3	8208.2	9433.5
62.5°	855.3	1077.3	1420.9	1854.8	2471.9	3352.3	4320.5	5427.8	6651.9	8020.1	9375.8
65°	635.8	783.8	1079.8	1461.1	2069.3	2863.2	3827.6	4927.5	6117.6	7497.2	9013.4
67.5°	442.7	549.3	731.2	1014.6	1504.9	2211.0	3124.0	4146.1	5291.1	6529.0	8260.9
70°	334.9	383.8	482.8	640.9	974.5	1506.2	2271.2	3181.7	4244.0	5436.6	7068.2
72.5°	285.9	311.0	366.2	438.9	597.0	915.5	1425.9	2189.7	3131.5	4102.2	5422.8
75°	257.1	278.4	313.5	359.9	422.6	555.6	836.5	1385.8	2074.3	2747.8	3783.7
77.5°	233.3	252.1	283.4	307.3	341.1	400.1	533.0	829.0	1242.8	1698.1	2347.7
80°	208.2	219.5	248.3	272.1	298.5	332.3	382.5	520.5	713.6	1005.8	1384.6
82.5°	178.1	186.9	208.2	240.8	260.9	274.7	289.7	344.9	427.7	545.5	768.8
85°	138.0	144.2	163.0	186.9	195.6	196.9	199.4	214.5	265.9	408.8	662.2
87.5°	70.2	77.8	97.8	105.3	89.0	96.6	97.8	104.1	138.0	224.5	228.3
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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CATALOG NUMBER: VST-F09-LED-E-U-SLR-8030

REPORT N
CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6	0°
2.5°	2185.9	2189.7	2198.5	2197.2	2203.5	2203.5	2203.5	2209.8	2206.0	2209.8	2216.0	2.5°
5°	2248.6	2254.9	2267.5	2267.5	2268.7	2264.9	2272.5	2277.5	2271.2	2268.7	2270.0	5°
7.5°	2340.2	2350.2	2360.3	2370.3	2377.8	2374.1	2375.3	2364.0	2361.5	2352.7	2341.4	7.5°
10°	2429.2	2456.8	2475.6	2493.2	2494.5	2490.7	2491.9	2473.1	2469.4	2451.8	2440.5	10°
12.5°	2520.8	2555.9	2586.0	2604.8	2616.1	2618.6	2619.9	2619.9	2602.3	2587.3	2560.9	12.5°
15°	2656.2	2717.7	2764.1	2784.2	2800.5	2815.5	2819.3	2824.3	2810.5	2790.4	2786.7	15°
17.5°	2870.7	2928.4	2989.8	3043.8	3080.1	3082.6	3114.0	3111.5	3140.3	3117.8	3111.5	17.5°
20°	3125.3	3250.7	3314.6	3386.1	3427.5	3447.6	3520.3	3497.8	3519.1	3555.4	3519.1	20°
22.5°	3443.8	3603.1	3695.9	3793.7	3861.4	3910.4	3963.0	4004.4	4062.1	4089.7	4064.6	22.5°
25°	3866.5	4048.3	4158.7	4294.1	4402.0	4489.8	4581.3	4691.7	4690.4	4756.9	4803.3	25°
27.5°	4351.8	4583.8	4744.4	4982.6	5075.4	5223.4	5380.2	5550.8	5580.9	5667.4	5711.3	27.5°
30°	4808.3	5095.5	5414.1	5697.5	6018.5	6238.0	6419.9	6540.3	6722.1	6677.0	6651.9	30°
32.5°	5229.7	5612.2	6066.2	6531.5	7040.7	7388.0	7709.1	7858.3	7971.2	7731.7	7414.4	32.5°
35°	5776.5	6234.3	6753.5	7327.8	7975.0	8467.8	8798.9	8845.3	8781.4	8474.1	7948.6	35°
37.5°	6453.7	6934.1	7524.7	8131.7	8819.0	9281.8	9659.3	9727.0	9557.7	9009.6	8457.8	37.5°
40°	7122.2	7685.3	8326.1	9044.7	9757.1	10266.3	10645.0	10665.1	10389.2	9748.3	9102.4	40°
42.5°	7853.3	8469.1	9182.7	9979.1	10715.2	11230.7	11504.1	11590.6	11200.6	10379.1	9759.6	42.5°
45°	8484.1	9220.3	10015.4	10862.0	11632.0	12121.1	12399.5	12371.9	11900.4	11089.0	10362.8	45°
47.5°	9098.7	9908.8	10746.6	11645.8	12410.8	12904.9	13190.9	13165.8	12567.6	11633.3	10834.4	47.5°
50°	9645.5	10524.6	11420.1	12380.7	13143.2	13596.0	13945.9	13835.5	13079.3	12070.9	11137.9	50°
52.5°	10025.5	11006.2	11941.8	12980.2	13765.3	14194.2	14639.4	14284.5	13381.5	12339.3	11300.9	52.5°
55°	10266.3	11337.3	12313.0	13461.8	14233.1	14746.0	15033.2	14529.0	13498.1	12413.3	11357.3	55°
57.5°	10429.3	11519.1	12531.2	13740.2	14654.4	15084.6	15154.8	14537.8	13422.9	12296.7	11300.9	57.5°
60°	10509.6	11573.1	12630.3	13935.8	14950.4	15186.2	15058.3	14334.6	13163.3	11954.3	10937.2	60°
62.5°	10500.8	11505.3	12578.9	14001.0	15009.4	15039.5	14748.5	13988.5	12685.5	11235.7	10332.7	62.5°
65°	10277.5	11258.3	12289.2	13759.0	14734.7	14605.5	14239.3	13338.9	11756.2	10297.6	9841.1	65°
67.5°	9634.2	10574.8	11531.7	12966.4	13960.9	13835.5	13281.2	12062.2	10676.4	9467.4	9221.6	67.5°
70°	8558.1	9355.8	10196.0	11456.4	12499.9	12330.5	11361.1	10619.9	9606.6	8508.0	8422.7	70°
72.5°	7154.8	7759.3	8368.8	9306.9	10025.5	9679.3	9069.8	9030.9	8212.0	7373.0	7390.6	72.5°
75°	5595.9	6049.9	6334.6	6886.4	7364.2	7054.4	7090.8	7306.5	7036.9	6376.0	6161.5	75°
77.5°	4054.6	4489.8	4580.1	4907.4	5243.5	5595.9	6062.4	6570.4	6655.6	6284.4	5506.9	77.5°
80°	2653.7	3132.8	2954.7	3071.3	3544.2	4187.5	5039.1	5875.6	6162.8	5829.2	4872.3	80°
82.5°	1565.1	2236.1	1952.7	2152.1	2451.8	3012.4	3600.6	4231.4	4711.7	4356.8	4069.6	82.5°
85°	1188.9	1763.3	1867.4	2109.4	2207.3	2231.1	2333.9	2539.6	2787.9	2880.7	2873.2	85°
87.5°	619.5	1370.8	1538.8	1423.4	1328.1	1151.3	898.0	966.9	884.2	1209.0	1145.0	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°
2095.6	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6
2217.3	2213.5	2216.0	2217.3	2217.3	2217.3	2219.8
2268.7	2258.7	2254.9	2254.9	2253.7	2249.9	2248.6
2323.9	2306.3	2300.1	2292.5	2286.3	2282.5	2276.2
2423.0	2407.9	2376.6	2359.0	2342.7	2331.4	2321.4
2555.9	2534.6	2504.5	2481.9	2456.8	2449.3	2436.8
2761.6	2742.8	2716.4	2691.4	2676.3	2650.0	2631.2
3082.6	3045.0	3018.7	2986.1	2949.7	2895.8	2869.4
3505.3	3430.0	3377.4	3348.5	3275.8	3267.0	3203.0
3990.6	3968.0	3887.8	3852.7	3782.4	3754.8	3654.5
4716.8	4699.2	4534.9	4517.4	4409.5	4329.2	4173.7
5671.1	5526.9	5341.3	5212.1	5027.8	4820.9	4556.2
6505.1	6210.4	5927.0	5626.0	5371.4	5074.2	4774.5
7036.9	6641.8	6276.9	5968.4	5653.6	5299.9	4914.9
7503.4	7104.6	6707.1	6342.1	5960.9	5508.1	5032.8
8061.5	7665.2	7217.5	6704.5	6215.4	5661.1	5080.5
8633.4	8169.4	7610.0	6981.7	6367.2	5736.4	5071.7
9219.1	8625.9	7882.2	7166.1	6463.8	5747.7	5012.7
9694.4	8944.4	8084.1	7260.1	6483.8	5708.8	4938.7
10030.5	9148.8	8174.4	7292.7	6458.7	5647.3	4838.4
10222.4	9260.5	8197.0	7268.9	6407.3	5559.5	4729.3
10292.6	9294.3	8174.4	7220.0	6360.9	5465.5	4652.8
10285.1	9275.5	8091.6	7105.9	6236.8	5340.1	4558.7
10143.4	9101.2	7922.3	6969.2	6131.4	5282.4	4565.0
9902.6	8990.8	7872.1	6996.8	6186.6	5406.5	4763.2
9793.5	9211.5	8154.3	7272.7	6470.0	5761.4	5172.0
9732.0	9570.2	8558.1	7569.9	6806.1	6191.6	5659.9
9481.2	9673.1	8787.6	7739.2	7105.9	6623.0	6147.7
9076.1	9433.5	8613.3	7706.6	7271.4	6954.1	6323.3
8230.8	8608.3	7837.0	7226.3	7064.5	6959.1	6059.9
6668.2	6863.8	6424.9	6286.9	6347.1	6348.4	5083.0
4917.4	4799.5	4601.4	4611.4	5016.5	4953.8	3623.2
4014.5	3285.8	3004.9	3111.5	3611.9	3342.2	2276.2
3736.0	2930.9	2419.2	2444.3	2727.7	2153.3	1370.8
3021.2	2671.3	2142.0	1922.6	1866.1	1434.7	930.6
1264.2	1162.6	865.3	780.1	639.6	391.3	178.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)