

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: P158924

Luminaire Tested: **VST-F08-LED-E-U-SLL-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158924
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-F08-LED-E-U-SLL-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (56) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16209.5 lumens
Efficiency: N/A
Efficacy: 79.3 lumens/watt
Luminous Opening: Rectangular (W 1.33' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 204.4
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



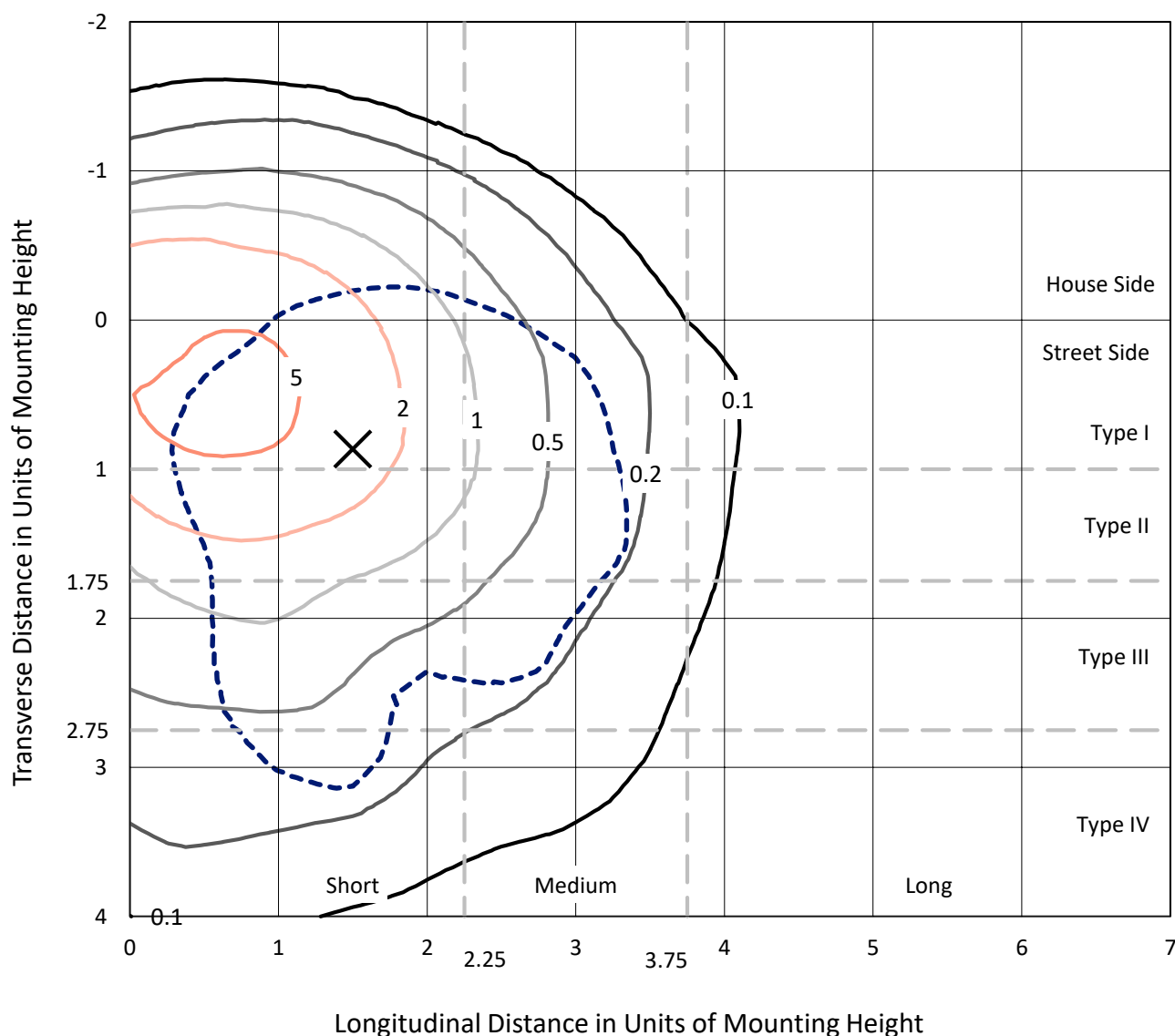
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

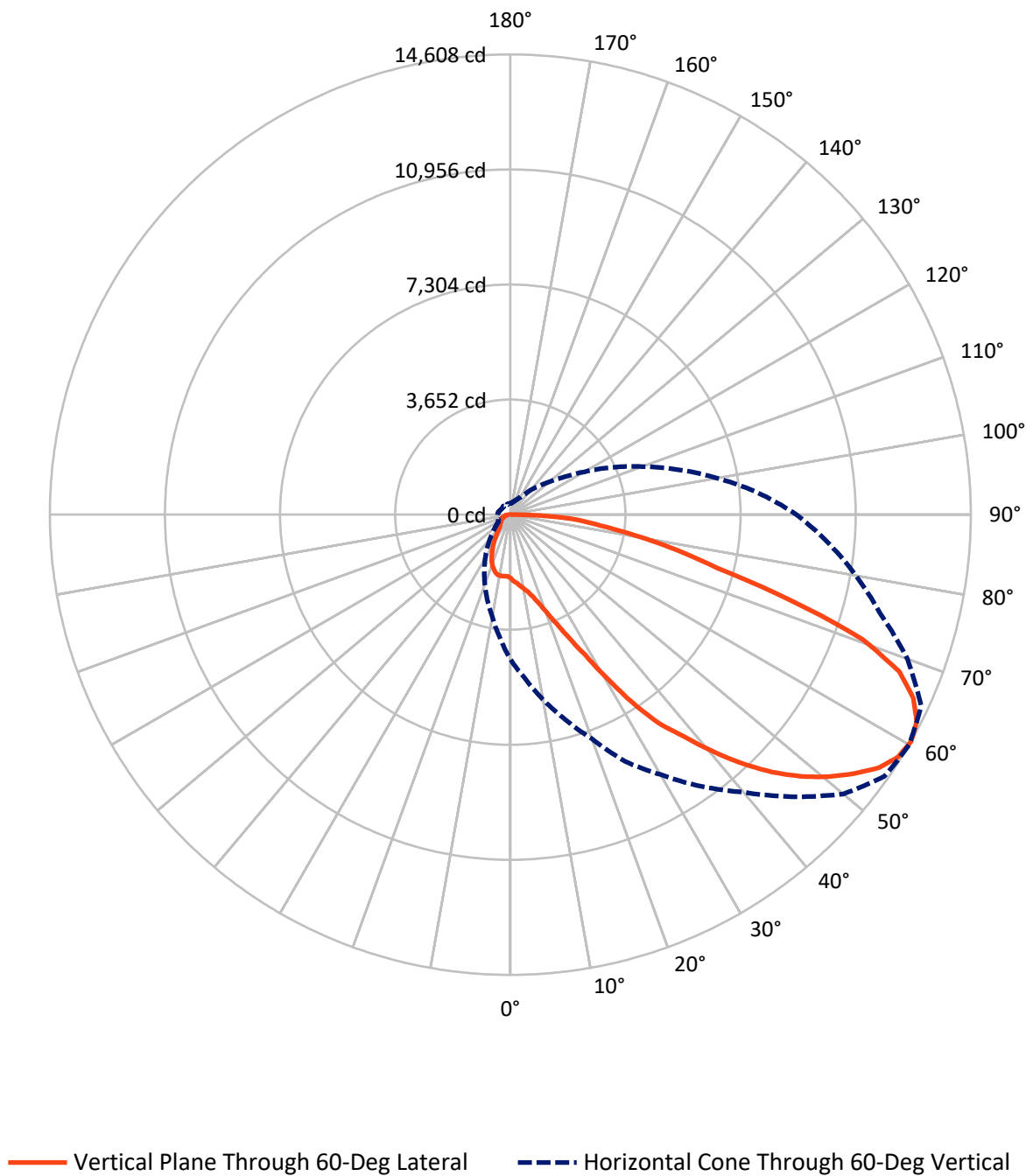


Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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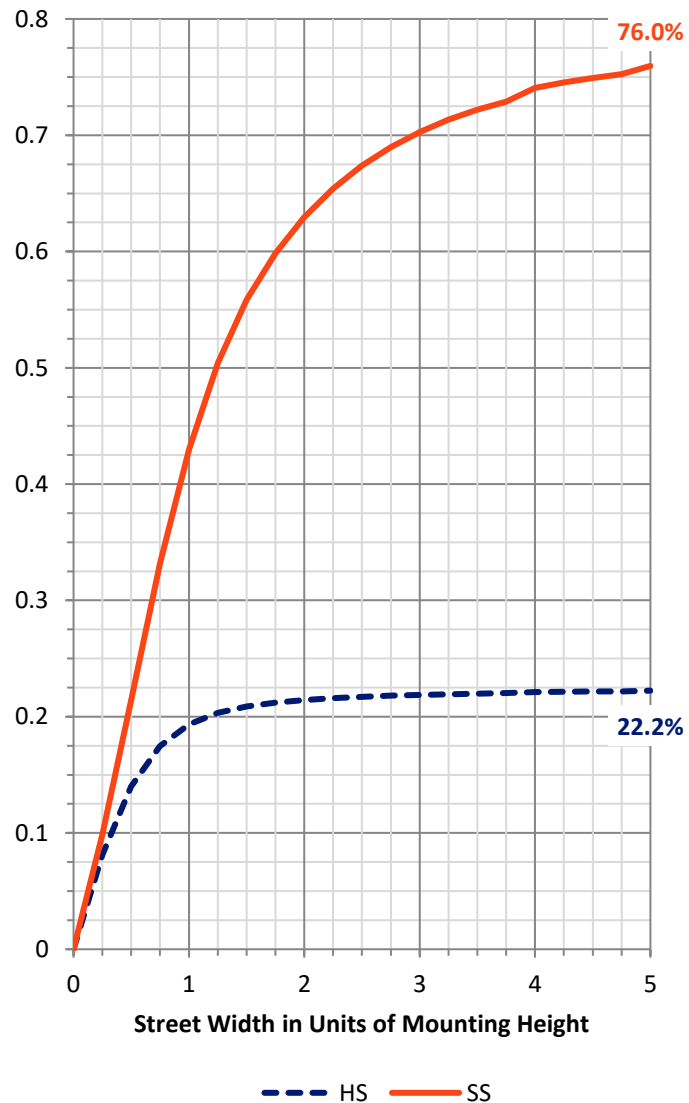
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3649.9	0.0	3649.9
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	12559.7	0.0	12559.7
	% Fixture	77.5	0.0	77.5
Total	Lumens	16209.5	0.0	16209.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.9	1.2
10°-20°	642.1	4.0
20°-30°	1218.5	7.5
30°-40°	1919.0	11.8
40°-50°	2678.4	16.5
50°-60°	3312.6	20.4
60°-70°	3433.6	21.2
70°-80°	2160.6	13.3
80°-90°	645.9	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°	16209.5	100.0
0°-180°	16209.5	100.0

Coefficient of Utilization



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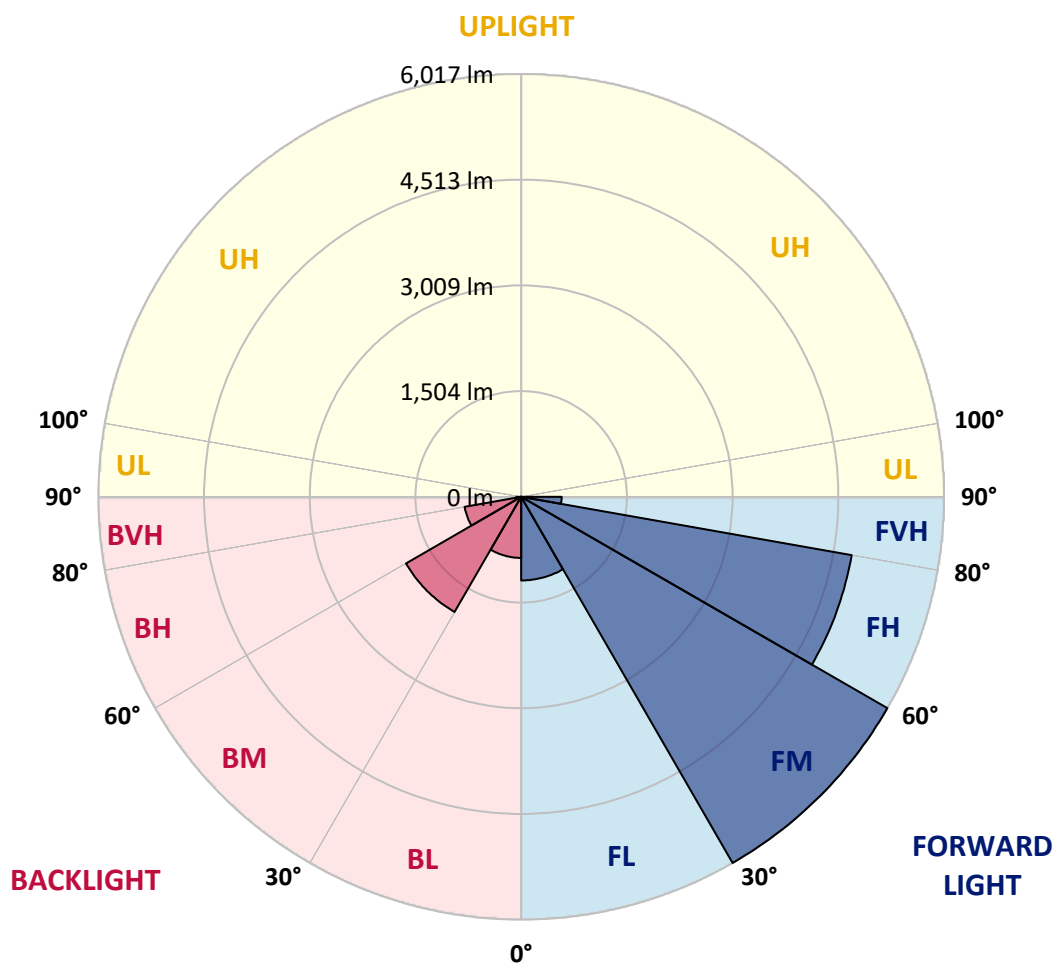
CATALOG NUMBER: VST-F08-LED-E-U-SLL-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1190.0	7.3			
FM	(30°-60°)	6017.2	37.1			
FH	(60°-80°)	4776.8	29.5			G2/5000
FVH	(80°-90°)	575.6	3.6			G4/750
BL	(0°-30°)	869.5	5.4	B2/1000		
BM	(30°-60°)	1892.7	11.7	B2/2500		
BH	(60°-80°)	817.4	5.0	B2/1000		G2/1000
BVH	(80°-90°)	70.3	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°	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9
2.5°	2135.3	2132.9	2132.9	2132.9	2131.7	2129.3	2132.9	2131.7	2125.7	2122.0	2125.7
5°	2163.1	2164.3	2167.9	2169.1	2169.1	2172.7	2182.4	2183.6	2182.4	2184.8	2190.8
7.5°	2189.6	2195.6	2199.2	2205.3	2212.5	2218.6	2235.4	2252.3	2263.2	2271.6	2274.0
10°	2233.0	2242.7	2253.5	2269.2	2286.1	2316.3	2330.7	2347.6	2358.5	2375.4	2379.0
12.5°	2344.0	2356.1	2363.3	2387.4	2409.2	2438.1	2458.6	2463.4	2488.8	2503.3	2520.1
15°	2531.0	2549.1	2574.4	2588.9	2613.0	2638.4	2656.5	2680.6	2684.2	2703.5	2716.8
17.5°	2760.2	2785.6	2837.4	2872.4	2903.8	2929.1	2965.3	2993.1	2999.1	3020.8	2993.1
20°	3081.1	3142.6	3151.1	3221.1	3248.8	3299.5	3371.9	3385.1	3420.1	3385.1	3364.6
22.5°	3515.4	3611.9	3638.5	3706.0	3739.8	3817.0	3838.7	3909.9	3934.0	3907.5	3852.0
25°	4014.9	4164.5	4241.7	4345.4	4362.3	4520.3	4537.2	4620.5	4575.8	4511.9	4513.1
27.5°	4382.8	4637.4	4836.4	5013.8	5138.0	5316.6	5455.3	5493.9	5451.7	5368.4	5339.5
30°	4592.7	4881.1	5167.0	5411.9	5701.4	5974.0	6257.5	6398.7	6422.8	6466.2	6291.3
32.5°	4727.8	5098.2	5438.4	5741.2	6038.0	6389.0	6769.1	7132.2	7437.4	7667.8	7559.2
35°	4841.2	5298.5	5734.0	6100.7	6451.8	6834.2	7217.8	7646.1	8151.6	8447.1	8508.7
37.5°	4887.1	5445.6	5978.9	6449.4	6942.8	7373.5	7754.7	8135.9	8666.7	9193.9	9356.8
40°	4878.6	5518.0	6124.8	6716.0	7320.4	7858.4	8304.8	8756.0	9377.3	9993.7	10259.1
42.5°	4821.9	5528.9	6217.7	6893.3	7582.2	8297.5	8868.2	9388.1	9984.1	10774.3	11149.5
45°	4750.8	5491.5	6237.0	6983.8	7776.4	8604.0	9325.4	9968.4	10666.9	11447.4	11901.0
47.5°	4654.3	5432.4	6212.9	7015.2	7863.2	8800.6	9648.7	10422.0	11190.5	12089.2	12664.7
50°	4549.3	5347.9	6163.4	6992.2	7885.0	8908.0	9833.3	10713.9	11611.5	12581.4	13308.9
52.5°	4475.7	5257.4	6118.8	6945.2	7863.2	8940.6	9900.8	10870.8	11869.7	12872.2	13740.8
55°	4385.2	5136.8	5999.4	6835.4	7783.6	8922.5	9893.6	10925.1	11940.8	12984.4	13976.0
57.5°	4391.3	5081.3	5898.0	6703.9	7620.8	8754.8	9757.3	10870.8	11828.6	12912.0	13984.5
60°	4581.9	5200.7	5951.1	6730.4	7572.5	8648.6	9525.7	10520.9	11499.3	12662.3	13789.0
62.5°	4975.2	5542.2	6223.8	6995.9	7843.9	8860.9	9420.7	9939.4	10808.0	12202.6	13456.1
65°	5444.4	5955.9	6547.1	7281.8	8232.4	9206.0	9361.6	9466.5	9905.7	11308.7	12831.2
67.5°	5913.7	6370.9	6835.4	7444.6	8453.2	9304.9	9120.3	8870.6	9107.0	10270.0	11603.1
70°	6082.6	6689.4	6994.6	7413.3	8285.5	9074.5	8730.6	8102.1	8184.1	9240.9	10215.7
72.5°	5829.3	6694.3	6795.6	6951.2	7538.7	8280.7	7917.5	7109.3	7092.4	7899.4	8687.2
75°	4889.5	6106.7	6105.5	6047.6	6180.3	6602.6	6414.4	5927.0	6133.3	6769.1	7028.4
77.5°	3485.3	4765.2	4825.6	4435.9	4426.2	4616.9	4730.3	5297.3	6045.2	6402.3	6320.3
80°	2189.6	3215.0	3474.4	2993.1	2890.5	3160.7	3861.7	4686.8	5607.3	5928.2	5651.9
82.5°	1318.6	2071.4	2623.9	2351.3	2327.1	2819.3	3593.8	3914.7	4191.0	4532.4	4070.4
85°	895.1	1380.1	1795.1	1849.4	2060.5	2569.6	2906.2	2763.8	2771.1	2681.8	2442.9
87.5°	171.3	376.4	615.3	750.4	832.4	1118.3	1216.0	1101.4	1163.0	850.5	930.1
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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CATALOG NUMBER: VST-F08-LED-E-U-SLL-7030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9
2.5°	2119.6	2119.6	2119.6	2113.6	2114.8	2106.4	2102.7	2102.7	2099.1	2099.1	2097.9
5°	2186.0	2178.7	2182.4	2181.2	2181.2	2169.1	2163.1	2163.1	2147.4	2148.6	2143.8
7.5°	2284.9	2283.7	2287.3	2280.1	2270.4	2260.8	2251.1	2246.3	2224.6	2211.3	2202.9
10°	2397.1	2395.9	2399.5	2398.3	2381.4	2363.3	2336.8	2317.5	2290.9	2270.4	2249.9
12.5°	2520.1	2518.9	2516.5	2505.7	2487.6	2458.6	2424.8	2392.3	2352.5	2325.9	2295.8
15°	2712.0	2708.3	2693.9	2678.2	2658.9	2614.2	2555.1	2508.1	2455.0	2409.2	2359.7
17.5°	2995.5	2965.3	2962.9	2927.9	2876.0	2816.9	2761.4	2683.0	2607.0	2538.2	2470.7
20°	3386.3	3316.4	3297.1	3257.3	3188.5	3127.0	3006.3	2901.4	2797.6	2703.5	2617.9
22.5°	3812.2	3761.5	3714.5	3649.3	3555.2	3466.0	3312.7	3181.2	3048.5	2927.9	2832.6
25°	4406.9	4318.9	4234.4	4130.7	4000.4	3894.2	3719.3	3586.6	3412.9	3303.1	3165.6
27.5°	5175.4	5024.6	4882.3	4793.0	4563.8	4409.4	4186.2	4014.9	3805.0	3656.6	3493.7
30°	6175.5	6000.6	5789.5	5480.6	5208.0	4901.6	4625.3	4405.7	4182.6	3975.1	3786.9
32.5°	7415.7	7106.8	6772.7	6282.9	5835.3	5398.6	5030.6	4760.4	4532.4	4274.2	4008.8
35°	8464.0	8145.5	7671.4	7048.9	6496.4	5997.0	5556.6	5187.5	4889.5	4562.6	4211.5
37.5°	9291.6	8928.5	8483.3	7822.2	7238.3	6670.1	6208.1	5737.6	5346.7	4896.7	4452.8
40°	10239.8	9875.5	9385.7	8700.5	8009.2	7392.8	6851.1	6364.9	5884.8	5335.9	4765.2
42.5°	11066.2	10803.2	10307.4	9599.2	8833.2	8146.7	7554.4	6998.3	6370.9	5756.9	5081.3
45°	11927.6	11659.8	11189.3	10448.5	9634.2	8869.4	8161.2	7562.9	6822.1	6091.1	5317.8
47.5°	12688.8	12413.7	11938.4	11202.5	10337.6	9531.7	8752.4	8028.5	7168.4	6328.7	5472.2
50°	13415.1	13078.5	12643.0	11909.5	10985.4	10124.0	9278.3	8349.4	7437.4	6495.2	5577.1
52.5°	14082.2	13653.9	13241.3	12486.1	11487.2	10587.3	9643.9	8622.1	7602.7	6626.7	5648.3
55°	14461.0	14184.7	13691.3	12949.4	11844.3	10905.8	9875.5	8813.9	7766.7	6719.6	5678.5
57.5°	14578.0	14510.5	14096.7	13217.2	12054.2	11080.7	10032.3	8965.9	7876.5	6746.1	5636.3
60°	14485.1	14608.2	14381.4	13405.4	12149.5	11132.6	10109.5	9074.5	7895.8	6661.7	5508.4
62.5°	14187.1	14467.0	14438.1	13468.1	12100.1	11067.4	10101.1	9019.0	7714.9	6398.7	5221.3
65°	13697.3	14049.6	14173.9	13235.3	11821.4	10829.8	9886.4	8670.3	7211.8	5884.8	4739.9
67.5°	12775.7	13308.9	13429.5	12472.9	11092.8	10172.3	9267.5	7946.5	6280.5	5089.8	3988.3
70°	10928.7	11861.2	12024.1	11020.4	9807.9	8999.7	8232.4	6799.2	5229.7	4082.4	3060.6
72.5°	8724.6	9310.9	9643.9	8952.6	8050.2	7463.9	6882.5	5216.4	3946.1	3012.4	2106.4
75°	6820.9	6785.9	7083.9	6624.3	6093.5	5819.6	5382.9	3639.7	2643.2	1995.4	1333.1
77.5°	5831.7	5382.9	5043.9	4720.6	4405.7	4318.9	3900.3	2258.4	1633.5	1195.5	797.4
80°	4847.3	4028.1	3409.3	2954.4	2842.3	3013.6	2552.7	1331.9	967.5	686.4	500.7
82.5°	3463.5	2897.7	2358.5	2070.2	1878.3	2151.0	1505.6	739.5	524.8	411.4	331.8
85°	2245.1	2146.2	2123.2	2029.1	1796.3	1696.2	1143.7	637.0	393.3	255.8	206.3
87.5°	863.8	1107.5	1277.6	1369.3	1480.2	1318.6	596.0	219.6	215.9	132.7	100.1
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°	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9
2.5°	2089.5	2084.6	2083.4	2079.8	2077.4	2077.4	2071.4	1961.6	1960.4	1960.4	1959.2
5°	2134.1	2128.1	2122.0	2120.8	2116.0	2116.0	2110.0	2000.2	2000.2	2000.2	1997.8
7.5°	2194.4	2182.4	2175.1	2171.5	2164.3	2167.9	2172.7	2061.7	2062.9	2061.7	2064.1
10°	2237.9	2230.6	2222.2	2219.8	2214.9	2218.6	2225.8	2116.0	2119.6	2120.8	2123.2
12.5°	2280.1	2268.0	2257.2	2253.5	2251.1	2260.8	2269.2	2163.1	2166.7	2170.3	2170.3
15°	2332.0	2311.4	2297.0	2288.5	2283.7	2293.3	2305.4	2200.5	2201.7	2205.3	2204.1
17.5°	2420.0	2389.9	2356.1	2350.0	2334.4	2338.0	2340.4	2223.4	2218.6	2210.1	2195.6
20°	2556.3	2510.5	2464.7	2445.4	2414.0	2400.7	2374.2	2224.6	2194.4	2169.1	2147.4
22.5°	2751.8	2684.2	2634.8	2602.2	2538.2	2493.6	2421.2	2218.6	2161.9	2118.4	2084.6
25°	3067.8	2987.0	2911.0	2829.0	2728.9	2639.6	2533.4	2271.6	2183.6	2108.8	2043.6
27.5°	3375.5	3247.6	3130.6	3007.5	2866.4	2732.5	2582.9	2288.5	2188.4	2091.9	1985.7
30°	3605.9	3420.1	3242.8	3063.0	2878.4	2704.7	2535.8	2230.6	2111.2	2002.6	1890.4
32.5°	3745.8	3504.6	3274.1	3051.0	2833.8	2638.4	2449.0	2130.5	1999.0	1871.1	1751.7
35°	3878.5	3579.4	3293.4	3030.5	2781.9	2564.8	2360.9	2013.5	1856.6	1720.3	1569.5
37.5°	4042.6	3657.8	3305.5	2993.1	2705.9	2457.4	2233.0	1866.3	1709.5	1541.8	1399.4
40°	4239.3	3738.6	3293.4	2918.3	2587.7	2316.3	2078.6	1711.9	1536.9	1374.1	1234.1
42.5°	4426.2	3809.8	3262.1	2818.1	2458.6	2169.1	1937.5	1574.3	1399.4	1232.9	1094.2
45°	4565.0	3870.1	3246.4	2748.2	2359.7	2069.0	1813.2	1463.4	1278.8	1111.1	969.9
47.5°	4661.5	3906.3	3239.2	2709.6	2290.9	1965.2	1699.8	1352.4	1158.1	989.2	851.7
50°	4712.2	3905.1	3221.1	2667.3	2189.6	1841.0	1582.8	1240.2	1047.1	881.9	756.4
52.5°	4725.4	3883.4	3182.5	2590.1	2066.5	1716.7	1457.3	1123.1	949.4	791.4	664.7
55°	4695.3	3830.3	3101.6	2461.0	1935.0	1585.2	1342.7	1031.5	854.1	704.5	605.6
57.5°	4609.6	3736.2	2949.6	2283.7	1796.3	1463.4	1211.2	920.5	750.4	624.9	542.9
60°	4450.4	3537.1	2712.0	2073.8	1620.2	1277.6	1030.3	775.7	640.6	546.5	480.1
62.5°	4156.0	3224.7	2377.8	1784.3	1366.8	1036.3	822.8	618.9	517.5	456.0	415.0
65°	3681.9	2754.2	1990.5	1405.4	1038.7	754.0	611.6	465.7	392.1	354.7	342.6
67.5°	3005.1	2126.9	1447.7	976.0	703.3	528.4	425.9	340.2	305.2	290.7	285.9
70°	2184.8	1448.9	937.4	616.5	464.5	369.2	322.1	273.9	254.5	250.9	250.9
72.5°	1371.7	880.7	574.2	422.2	352.3	299.2	275.1	241.3	234.0	231.6	228.0
75°	804.7	534.4	406.6	346.2	301.6	267.8	247.3	219.6	214.7	213.5	209.9
77.5°	512.7	384.8	328.1	295.6	272.6	242.5	224.4	195.4	194.2	193.0	191.8
80°	367.9	319.7	287.1	261.8	238.9	211.1	200.3	177.3	174.9	173.7	176.1
82.5°	278.7	264.2	250.9	231.6	200.3	179.8	171.3	155.6	156.8	150.8	149.6
85°	191.8	189.4	188.2	179.8	156.8	138.7	132.7	124.3	130.3	124.3	117.0
87.5°	94.1	92.9	85.7	101.3	94.1	74.8	67.6	74.8	83.2	80.8	74.8
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: P158924

CATALOG NUMBER: VST-F08-LED-E-U-SLL-7030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9
2.5°	1954.4	1949.5	1953.1	1950.7	1950.7	1949.5	1951.9	1948.3	1945.9	1948.3	1949.5
5°	1993.0	1986.9	1988.1	1979.7	1983.3	1974.9	1977.3	1971.2	1965.2	1962.8	1962.8
7.5°	2058.1	2052.1	2044.8	2043.6	2030.4	2025.5	2017.1	2012.3	2008.6	2000.2	1995.4
10°	2117.2	2107.6	2099.1	2097.9	2084.6	2072.6	2061.7	2052.1	2046.0	2034.0	2027.9
12.5°	2165.5	2155.8	2142.5	2135.3	2122.0	2107.6	2100.3	2085.8	2077.4	2064.1	2053.3
15°	2193.2	2176.3	2157.0	2143.8	2124.5	2108.8	2097.9	2087.1	2078.6	2061.7	2046.0
17.5°	2179.9	2152.2	2125.7	2101.5	2075.0	2060.5	2044.8	2031.6	2029.1	2009.8	1985.7
20°	2124.5	2091.9	2056.9	2024.3	1989.3	1968.8	1949.5	1929.0	1923.0	1900.1	1868.7
22.5°	2056.9	2019.5	1979.7	1939.9	1895.2	1866.3	1837.3	1812.0	1791.5	1757.7	1713.1
25°	1988.1	1932.6	1874.7	1824.1	1772.2	1736.0	1705.8	1678.1	1654.0	1599.7	1553.8
27.5°	1897.7	1810.8	1751.7	1693.8	1631.0	1584.0	1550.2	1511.6	1485.1	1422.3	1374.1
30°	1781.8	1695.0	1610.5	1552.6	1489.9	1439.2	1395.8	1340.3	1301.7	1255.9	1211.2
32.5°	1635.9	1549.0	1463.4	1398.2	1346.3	1283.6	1229.3	1176.2	1131.6	1087.0	1052.0
35°	1458.5	1374.1	1293.2	1228.1	1170.2	1120.7	1068.9	1023.0	972.3	924.1	903.6
37.5°	1271.5	1181.1	1091.8	1035.1	989.2	954.3	906.0	868.6	822.8	793.8	769.7
40°	1108.7	1012.2	927.7	879.5	843.3	803.5	763.6	734.7	702.1	673.2	655.1
42.5°	971.1	880.7	808.3	767.3	723.8	680.4	650.2	626.1	605.6	583.9	562.2
45°	844.5	757.6	697.3	646.6	610.4	575.4	554.9	544.1	532.0	518.7	504.3
47.5°	738.3	663.5	604.4	557.4	520.0	495.8	486.2	482.6	477.7	466.9	459.6
50°	657.5	596.0	535.6	493.4	462.0	450.0	439.1	435.5	429.5	425.9	421.0
52.5°	589.9	524.8	474.1	435.5	416.2	411.4	406.6	401.7	400.5	398.1	395.7
55°	534.4	477.7	430.7	401.7	392.1	388.5	387.3	382.4	381.2	381.2	377.6
57.5°	485.0	436.7	394.5	376.4	370.4	366.7	364.3	361.9	361.9	364.3	363.1
60°	434.3	393.3	367.9	358.3	354.7	348.6	342.6	340.2	341.4	347.4	347.4
62.5°	384.8	354.7	339.0	335.4	331.8	326.9	319.7	317.3	319.7	326.9	330.6
65°	330.6	317.3	312.5	310.0	307.6	304.0	299.2	296.8	298.0	301.6	306.4
67.5°	281.1	279.9	279.9	281.1	279.9	278.7	276.3	272.6	271.4	271.4	273.9
70°	250.9	250.9	254.5	254.5	253.3	253.3	249.7	246.1	243.7	241.3	242.5
72.5°	228.0	228.0	229.2	230.4	229.2	229.2	224.4	222.0	215.9	214.7	212.3
75°	208.7	206.3	206.3	205.1	203.9	205.1	200.3	194.2	191.8	190.6	188.2
77.5°	189.4	184.6	182.2	179.8	181.0	179.8	176.1	172.5	168.9	167.7	166.5
80°	167.7	160.4	156.8	150.8	154.4	155.6	153.2	149.6	148.4	147.2	146.0
82.5°	138.7	131.5	126.7	123.1	120.6	123.1	126.7	135.1	132.7	131.5	129.1
85°	108.6	96.5	90.5	91.7	85.7	86.9	97.7	102.5	102.5	105.0	102.5
87.5°	61.5	59.1	44.6	41.0	43.4	51.9	57.9	63.9	63.9	60.3	67.6
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):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9
2.5°	1949.5	1951.9	1953.1	1958.0	1960.4	1961.6	1962.8	1965.2	1966.4	1965.2	1971.2
5°	1959.2	1959.2	1956.8	1960.4	1961.6	1961.6	1959.2	1961.6	1961.6	1961.6	1967.6
7.5°	1984.5	1977.3	1973.7	1968.8	1965.2	1960.4	1954.4	1954.4	1953.1	1954.4	1958.0
10°	2011.1	2000.2	1986.9	1974.9	1964.0	1955.6	1944.7	1941.1	1939.9	1938.7	1948.3
12.5°	2031.6	2012.3	1991.7	1971.2	1949.5	1935.0	1917.0	1906.1	1904.9	1904.9	1917.0
15°	2017.1	1985.7	1945.9	1909.7	1890.4	1869.9	1849.4	1836.1	1834.9	1837.3	1844.6
17.5°	1944.7	1894.0	1859.0	1824.1	1798.7	1781.8	1768.6	1766.2	1771.0	1766.2	1775.8
20°	1821.6	1767.4	1743.2	1715.5	1705.8	1693.8	1674.5	1657.6	1657.6	1635.9	1641.9
22.5°	1662.4	1632.2	1600.9	1579.2	1571.9	1551.4	1530.9	1508.0	1505.6	1479.0	1475.4
25°	1495.9	1465.8	1440.4	1435.6	1413.9	1386.1	1366.8	1340.3	1334.3	1307.7	1304.1
27.5°	1325.8	1301.7	1276.4	1261.9	1249.8	1219.7	1202.8	1171.4	1159.3	1130.4	1126.8
30°	1164.2	1147.3	1117.1	1105.1	1082.1	1047.1	1011.0	991.7	982.0	951.8	942.2
32.5°	1012.2	985.6	962.7	948.2	919.3	879.5	846.9	819.1	801.0	764.9	755.2
35°	867.4	840.9	830.0	792.6	767.3	740.7	696.1	679.2	646.6	618.9	609.2
37.5°	739.5	714.2	699.7	668.3	643.0	616.5	589.9	568.2	552.5	546.5	546.5
40°	629.7	616.5	598.4	575.4	558.6	539.3	524.8	517.5	516.3	518.7	524.8
42.5°	551.3	536.8	524.8	512.7	500.7	498.2	494.6	499.4	505.5	511.5	517.5
45°	492.2	480.1	472.9	468.1	466.9	470.5	477.7	485.0	495.8	503.1	507.9
47.5°	450.0	440.3	437.9	436.7	442.7	453.6	463.3	474.1	482.6	489.8	494.6
50°	413.8	405.3	404.1	402.9	411.4	421.0	429.5	444.0	450.0	454.8	458.4
52.5°	388.5	381.2	377.6	378.8	387.3	395.7	407.8	418.6	427.1	430.7	434.3
55°	367.9	365.5	357.1	360.7	369.2	380.0	392.1	404.1	412.6	418.6	424.6
57.5°	352.3	346.2	340.2	346.2	354.7	365.5	380.0	390.9	401.7	410.2	416.2
60°	335.4	330.6	325.7	331.8	340.2	351.1	361.9	376.4	389.7	398.1	404.1
62.5°	320.9	317.3	312.5	313.7	317.3	324.5	330.6	343.8	355.9	366.7	374.0
65°	300.4	299.2	291.9	293.2	295.6	302.8	307.6	319.7	331.8	341.4	347.4
67.5°	270.2	267.8	267.8	271.4	272.6	276.3	279.9	291.9	301.6	308.8	316.1
70°	240.1	238.9	238.9	241.3	240.1	243.7	248.5	259.4	271.4	278.7	285.9
72.5°	211.1	211.1	209.9	212.3	212.3	213.5	219.6	229.2	240.1	246.1	250.9
75°	185.8	184.6	184.6	184.6	185.8	185.8	191.8	200.3	211.1	214.7	222.0
77.5°	162.9	162.9	162.9	162.9	164.1	162.9	166.5	172.5	176.1	182.2	182.2
80°	143.6	142.4	143.6	144.8	144.8	143.6	143.6	144.8	146.0	146.0	146.0
82.5°	126.7	123.1	125.5	131.5	131.5	131.5	130.3	121.8	115.8	115.8	118.2
85°	101.3	101.3	102.5	111.0	112.2	107.4	112.2	100.1	88.1	84.4	86.9
87.5°	62.7	49.5	60.3	68.8	68.8	65.1	72.4	67.6	56.7	45.8	43.4
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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REPORT N
CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	0°
2.5°	1976.1	1977.3	1984.5	1988.1	1988.1	1993.0	1995.4	2002.6	2001.4	2001.4	2003.8	2.5°
5°	1973.7	1977.3	1984.5	1989.3	1991.7	1997.8	2002.6	2011.1	2009.8	2012.3	2013.5	5°
7.5°	1965.2	1974.9	1982.1	1991.7	2000.2	2005.0	2011.1	2018.3	2015.9	2017.1	2015.9	7.5°
10°	1958.0	1967.6	1982.1	1995.4	2007.4	2014.7	2018.3	2026.7	2025.5	2027.9	2027.9	10°
12.5°	1929.0	1945.9	1964.0	1984.5	2002.6	2021.9	2034.0	2052.1	2060.5	2071.4	2083.4	12.5°
15°	1855.4	1874.7	1903.7	1926.6	1961.6	1988.1	2023.1	2058.1	2089.5	2119.6	2154.6	15°
17.5°	1783.0	1791.5	1814.4	1845.8	1877.1	1917.0	1959.2	2021.9	2078.6	2140.1	2207.7	17.5°
20°	1649.1	1663.6	1679.3	1716.7	1754.1	1810.8	1862.7	1944.7	2027.9	2124.5	2228.2	20°
22.5°	1483.9	1498.3	1515.2	1557.4	1603.3	1661.2	1723.9	1815.6	1926.6	2052.1	2190.8	22.5°
25°	1305.3	1313.8	1327.0	1369.3	1397.0	1473.0	1549.0	1644.3	1764.9	1926.6	2088.3	25°
27.5°	1108.7	1124.4	1135.2	1154.5	1218.5	1283.6	1363.2	1465.8	1611.7	1777.0	1972.4	27.5°
30°	920.5	933.7	927.7	968.7	1011.0	1079.7	1165.4	1278.8	1418.7	1615.4	1841.0	30°
32.5°	735.9	745.5	741.9	770.9	813.1	881.9	962.7	1085.8	1234.1	1444.0	1688.9	32.5°
35°	606.8	609.2	622.5	635.8	672.0	727.5	796.2	903.6	1055.6	1248.6	1508.0	35°
37.5°	546.5	551.3	559.8	577.9	604.4	644.2	700.9	784.2	914.4	1084.5	1316.2	37.5°
40°	528.4	532.0	536.8	548.9	574.2	609.2	659.9	729.9	825.2	968.7	1156.9	40°
42.5°	520.0	520.0	520.0	527.2	546.5	583.9	641.8	710.6	793.8	902.4	1054.4	42.5°
45°	507.9	507.9	506.7	510.3	523.6	561.0	623.7	700.9	790.2	893.9	1025.4	45°
47.5°	494.6	493.4	489.8	489.8	498.2	535.6	600.8	684.0	781.7	901.2	1042.3	47.5°
50°	458.4	458.4	458.4	462.0	469.3	503.1	573.0	661.1	773.3	906.0	1068.9	50°
52.5°	437.9	439.1	442.7	442.7	450.0	485.0	558.6	656.3	778.1	924.1	1102.6	52.5°
55°	428.3	431.9	435.5	435.5	441.5	477.7	553.7	659.9	796.2	961.5	1160.5	55°
57.5°	419.8	423.4	425.9	425.9	430.7	462.0	540.5	653.9	807.1	997.7	1231.7	57.5°
60°	404.1	406.6	407.8	407.8	409.0	435.5	510.3	624.9	782.9	995.3	1270.3	60°
62.5°	375.2	380.0	381.2	382.4	382.4	407.8	471.7	577.9	731.1	959.1	1259.5	62.5°
65°	353.5	355.9	359.5	361.9	366.7	383.6	434.3	521.2	663.5	886.7	1199.2	65°
67.5°	319.7	323.3	326.9	331.8	336.6	347.4	387.3	457.2	571.8	763.6	1064.0	67.5°
70°	289.5	290.7	294.4	300.4	301.6	307.6	336.6	384.8	468.1	612.8	856.5	70°
72.5°	252.1	254.5	259.4	266.6	266.6	271.4	288.3	313.7	366.7	468.1	632.1	72.5°
75°	219.6	222.0	225.6	225.6	219.6	220.8	232.8	250.9	290.7	352.3	460.8	75°
77.5°	182.2	187.0	190.6	183.4	181.0	184.6	190.6	203.9	232.8	279.9	346.2	77.5°
80°	150.8	153.2	154.4	155.6	153.2	156.8	161.7	170.1	189.4	225.6	273.9	80°
82.5°	120.6	123.1	126.7	131.5	131.5	144.8	146.0	146.0	156.8	179.8	214.7	82.5°
85°	89.3	94.1	98.9	105.0	106.2	113.4	109.8	108.6	112.2	133.9	148.4	85°
87.5°	45.8	49.5	51.9	56.7	50.7	53.1	53.1	49.5	43.4	54.3	60.3	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°
2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9
2006.2	2003.8	2006.2	2006.2	2009.8	2007.4	2135.3
2015.9	2013.5	2015.9	2018.3	2021.9	2021.9	2163.1
2017.1	2017.1	2014.7	2020.7	2025.5	2030.4	2189.6
2031.6	2031.6	2034.0	2035.2	2046.0	2058.1	2233.0
2090.7	2096.7	2107.6	2111.2	2130.5	2143.8	2344.0
2181.2	2214.9	2236.6	2243.9	2260.8	2286.1	2531.0
2272.8	2329.5	2388.7	2424.8	2446.6	2476.7	2760.2
2341.6	2447.8	2549.1	2639.6	2691.5	2750.6	3081.1
2347.6	2516.5	2687.8	2855.5	2994.3	3104.0	3515.4
2289.7	2511.7	2748.2	3005.1	3244.0	3441.8	4014.9
2216.1	2488.8	2790.4	3118.5	3432.2	3724.1	4382.8
2123.2	2450.2	2797.6	3166.8	3534.7	3885.8	4592.7
1982.1	2335.6	2710.8	3118.5	3545.6	3972.6	4727.8
1801.1	2161.9	2546.7	3011.1	3494.9	4007.6	4841.2
1616.6	1972.4	2386.2	2867.6	3414.1	4001.6	4887.1
1421.1	1774.6	2198.0	2714.4	3304.3	3946.1	4878.6
1288.4	1610.5	2025.5	2558.8	3182.5	3872.5	4821.9
1211.2	1493.5	1889.2	2416.4	3071.5	3784.4	4750.8
1210.0	1458.5	1816.8	2315.1	2959.3	3686.7	4654.3
1252.2	1480.2	1808.4	2271.6	2897.7	3615.5	4549.3
1301.7	1540.6	1853.0	2287.3	2896.5	3584.2	4475.7
1380.1	1643.1	1950.7	2354.9	2927.9	3579.4	4385.2
1480.2	1781.8	2126.9	2521.4	3049.8	3674.7	4391.3
1582.8	1944.7	2357.3	2806.1	3289.8	3896.6	4581.9
1620.2	2070.2	2591.3	3140.2	3649.3	4229.6	4975.2
1587.6	2099.1	2733.7	3399.6	3999.2	4619.3	5444.4
1467.0	1982.1	2675.8	3473.2	4200.6	4895.5	5913.7
1207.6	1691.4	2412.8	3307.9	4185.0	4952.2	6082.6
885.5	1311.3	1961.6	2810.9	3720.5	4597.6	5829.3
639.4	927.7	1416.3	2117.2	2941.2	3702.4	4889.5
458.4	643.0	919.3	1391.0	2003.8	2578.1	3485.3
329.3	436.7	573.0	834.8	1220.9	1582.8	2189.6
242.5	299.2	376.4	518.7	719.0	921.7	1318.6
165.3	176.1	226.8	306.4	471.7	678.0	895.1
62.7	71.2	83.2	125.5	211.1	242.5	171.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)