

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: P158933

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158933
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-SLL-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(9) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
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



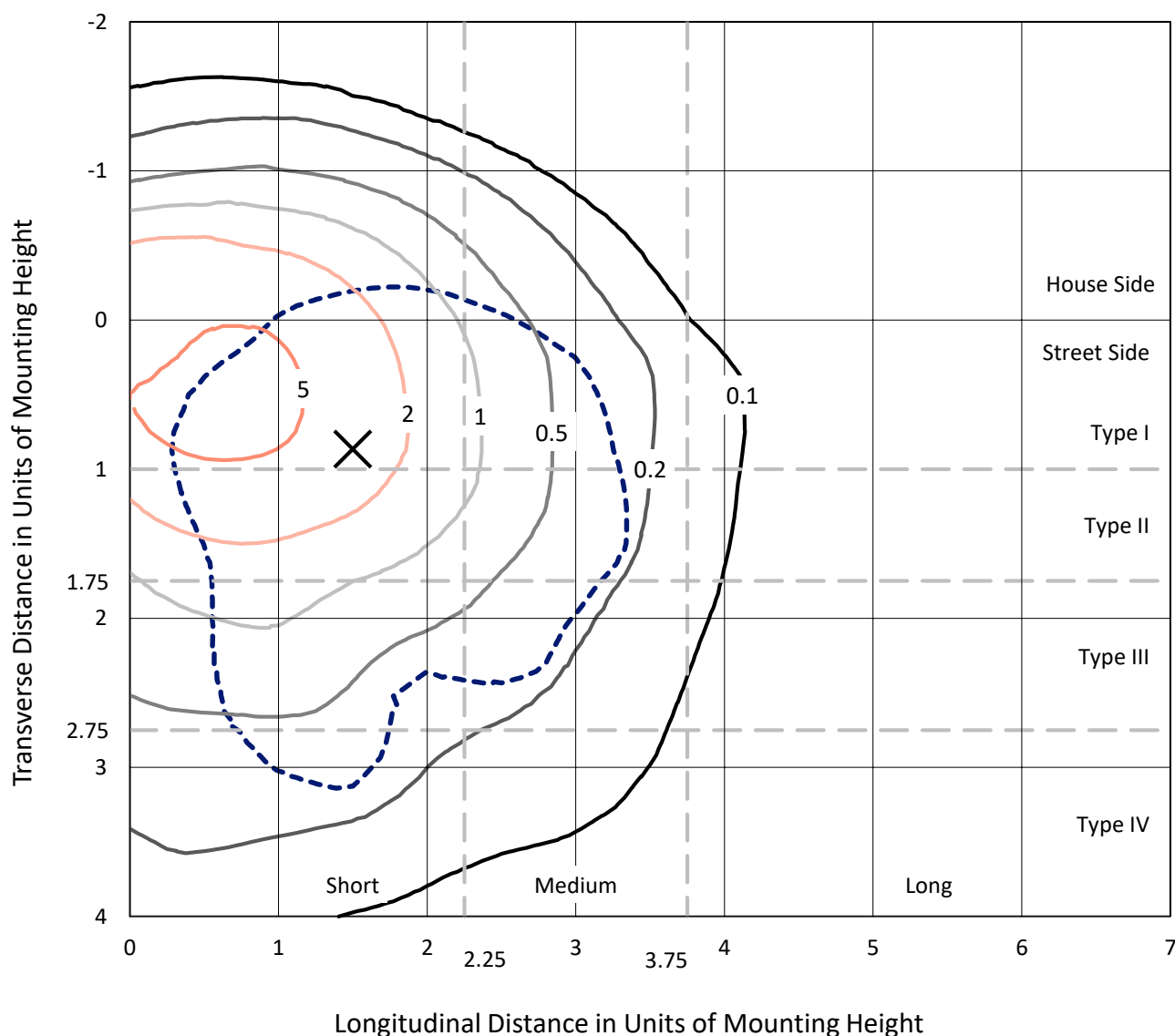
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

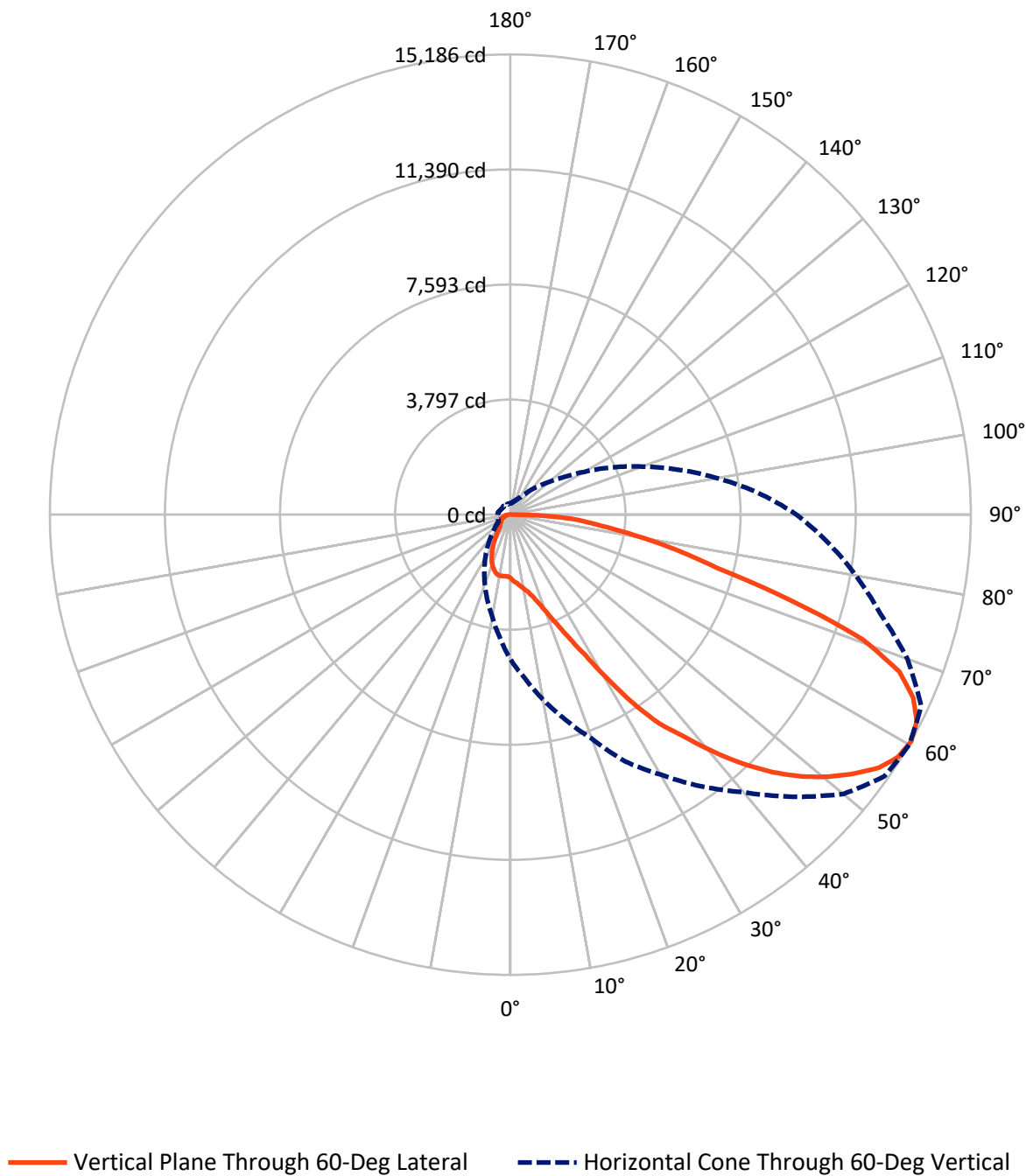


Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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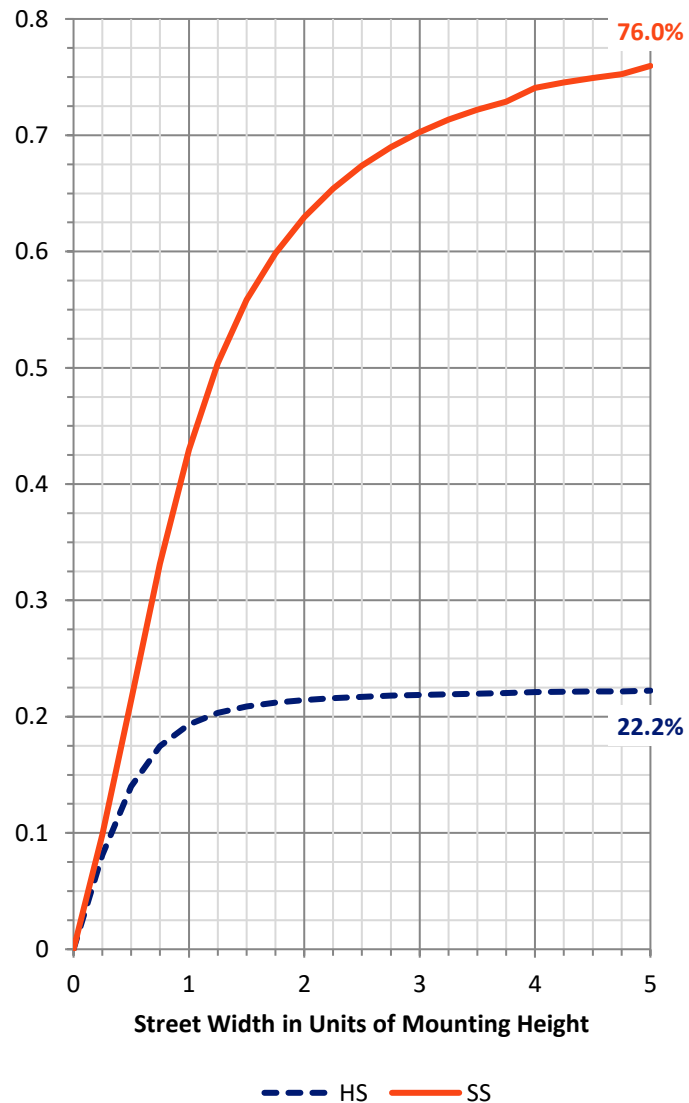
FLUX DISTRIBUTION:

		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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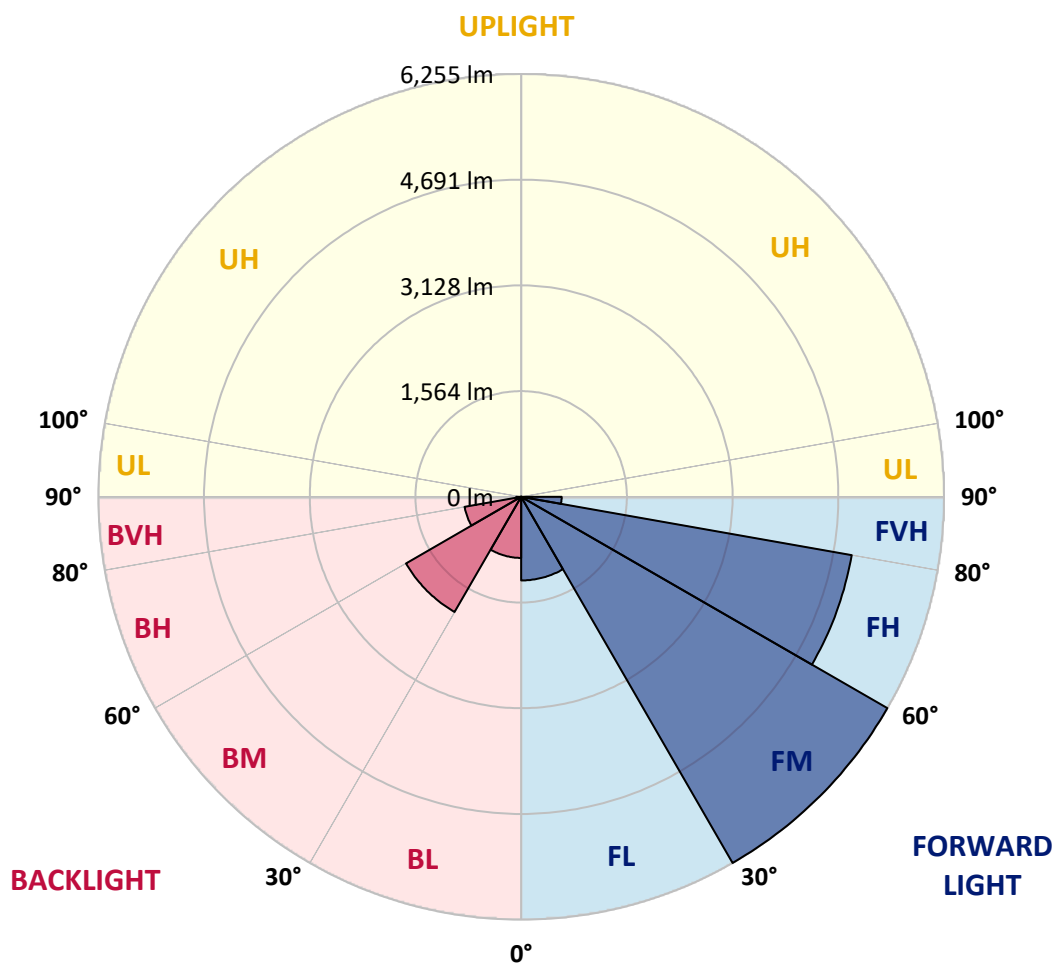
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

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	2217.3	2217.3	2217.3	2216.0	2213.5	2217.3	2216.0	2209.8	2206.0	2209.8
5°	2248.6	2249.9	2253.7	2254.9	2254.9	2258.7	2268.7	2270.0	2268.7	2271.2	2277.5
7.5°	2276.2	2282.5	2286.3	2292.5	2300.1	2306.3	2323.9	2341.4	2352.7	2361.5	2364.0
10°	2321.4	2331.4	2342.7	2359.0	2376.6	2407.9	2423.0	2440.5	2451.8	2469.4	2473.1
12.5°	2436.8	2449.3	2456.8	2481.9	2504.5	2534.6	2555.9	2560.9	2587.3	2602.3	2619.9
15°	2631.2	2650.0	2676.3	2691.4	2716.4	2742.8	2761.6	2786.7	2790.4	2810.5	2824.3
17.5°	2869.4	2895.8	2949.7	2986.1	3018.7	3045.0	3082.6	3111.5	3117.8	3140.3	3111.5
20°	3203.0	3267.0	3275.8	3348.5	3377.4	3430.0	3505.3	3519.1	3555.4	3519.1	3497.8
22.5°	3654.5	3754.8	3782.4	3852.7	3887.8	3968.0	3990.6	4064.6	4089.7	4062.1	4004.4
25°	4173.7	4329.2	4409.5	4517.4	4534.9	4699.2	4716.8	4803.3	4756.9	4690.4	4691.7
27.5°	4556.2	4820.9	5027.8	5212.1	5341.3	5526.9	5671.1	5711.3	5667.4	5580.9	5550.8
30°	4774.5	5074.2	5371.4	5626.0	5927.0	6210.4	6505.1	6651.9	6677.0	6722.1	6540.3
32.5°	4914.9	5299.9	5653.6	5968.4	6276.9	6641.8	7036.9	7414.4	7731.7	7971.2	7858.3
35°	5032.8	5508.1	5960.9	6342.1	6707.1	7104.6	7503.4	7948.6	8474.1	8781.4	8845.3
37.5°	5080.5	5661.1	6215.4	6704.5	7217.5	7665.2	8061.5	8457.8	9009.6	9557.7	9727.0
40°	5071.7	5736.4	6367.2	6981.7	7610.0	8169.4	8633.4	9102.4	9748.3	10389.2	10665.1
42.5°	5012.7	5747.7	6463.8	7166.1	7882.2	8625.9	9219.1	9759.6	10379.1	11200.6	11590.6
45°	4938.7	5708.8	6483.8	7260.1	8084.1	8944.4	9694.4	10362.8	11089.0	11900.4	12371.9
47.5°	4838.4	5647.3	6458.7	7292.7	8174.4	9148.8	10030.5	10834.4	11633.3	12567.6	13165.8
50°	4729.3	5559.5	6407.3	7268.9	8197.0	9260.5	10222.4	11137.9	12070.9	13079.3	13835.5
52.5°	4652.8	5465.5	6360.9	7220.0	8174.4	9294.3	10292.6	11300.9	12339.3	13381.5	14284.5
55°	4558.7	5340.1	6236.8	7105.9	8091.6	9275.5	10285.1	11357.3	12413.3	13498.1	14529.0
57.5°	4565.0	5282.4	6131.4	6969.2	7922.3	9101.2	10143.4	11300.9	12296.7	13422.9	14537.8
60°	4763.2	5406.5	6186.6	6996.8	7872.1	8990.8	9902.6	10937.2	11954.3	13163.3	14334.6
62.5°	5172.0	5761.4	6470.0	7272.7	8154.3	9211.5	9793.5	10332.7	11235.7	12685.5	13988.5
65°	5659.9	6191.6	6806.1	7569.9	8558.1	9570.2	9732.0	9841.1	10297.6	11756.2	13338.9
67.5°	6147.7	6623.0	7105.9	7739.2	8787.6	9673.1	9481.2	9221.6	9467.4	10676.4	12062.2
70°	6323.3	6954.1	7271.4	7706.6	8613.3	9433.5	9076.1	8422.7	8508.0	9606.6	10619.9
72.5°	6059.9	6959.1	7064.5	7226.3	7837.0	8608.3	8230.8	7390.6	7373.0	8212.0	9030.9
75°	5083.0	6348.4	6347.1	6286.9	6424.9	6863.8	6668.2	6161.5	6376.0	7036.9	7306.5
77.5°	3623.2	4953.8	5016.5	4611.4	4601.4	4799.5	4917.4	5506.9	6284.4	6655.6	6570.4
80°	2276.2	3342.2	3611.9	3111.5	3004.9	3285.8	4014.5	4872.3	5829.2	6162.8	5875.6
82.5°	1370.8	2153.3	2727.7	2444.3	2419.2	2930.9	3736.0	4069.6	4356.8	4711.7	4231.4
85°	930.6	1434.7	1866.1	1922.6	2142.0	2671.3	3021.2	2873.2	2880.7	2787.9	2539.6
87.5°	178.1	391.3	639.6	780.1	865.3	1162.6	1264.2	1145.0	1209.0	884.2	966.9
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°	2203.5	2203.5	2203.5	2197.2	2198.5	2189.7	2185.9	2185.9	2182.2	2182.2	2180.9
5°	2272.5	2264.9	2268.7	2267.5	2267.5	2254.9	2248.6	2248.6	2232.3	2233.6	2228.6
7.5°	2375.3	2374.1	2377.8	2370.3	2360.3	2350.2	2340.2	2335.2	2312.6	2298.8	2290.0
10°	2491.9	2490.7	2494.5	2493.2	2475.6	2456.8	2429.2	2409.2	2381.6	2360.3	2338.9
12.5°	2619.9	2618.6	2616.1	2604.8	2586.0	2555.9	2520.8	2486.9	2445.5	2418.0	2386.6
15°	2819.3	2815.5	2800.5	2784.2	2764.1	2717.7	2656.2	2607.3	2552.1	2504.5	2453.1
17.5°	3114.0	3082.6	3080.1	3043.8	2989.8	2928.4	2870.7	2789.2	2710.2	2638.7	2568.4
20°	3520.3	3447.6	3427.5	3386.1	3314.6	3250.7	3125.3	3016.2	2908.3	2810.5	2721.4
22.5°	3963.0	3910.4	3861.4	3793.7	3695.9	3603.1	3443.8	3307.1	3169.2	3043.8	2944.7
25°	4581.3	4489.8	4402.0	4294.1	4158.7	4048.3	3866.5	3728.5	3547.9	3433.8	3290.8
27.5°	5380.2	5223.4	5075.4	4982.6	4744.4	4583.8	4351.8	4173.7	3955.5	3801.2	3631.9
30°	6419.9	6238.0	6018.5	5697.5	5414.1	5095.5	4808.3	4580.1	4348.0	4132.3	3936.7
32.5°	7709.1	7388.0	7040.7	6531.5	6066.2	5612.2	5229.7	4948.8	4711.7	4443.4	4167.5
35°	8798.9	8467.8	7975.0	7327.8	6753.5	6234.3	5776.5	5392.7	5083.0	4743.1	4378.1
37.5°	9659.3	9281.8	8819.0	8131.7	7524.7	6934.1	6453.7	5964.6	5558.3	5090.5	4629.0
40°	10645.0	10266.3	9757.1	9044.7	8326.1	7685.3	7122.2	6616.8	6117.6	5547.0	4953.8
42.5°	11504.1	11230.7	10715.2	9979.1	9182.7	8469.1	7853.3	7275.2	6623.0	5984.7	5282.4
45°	12399.5	12121.1	11632.0	10862.0	10015.4	9220.3	8484.1	7862.1	7092.1	6332.1	5528.2
47.5°	13190.9	12904.9	12410.8	11645.8	10746.6	9908.8	9098.7	8346.2	7452.0	6579.1	5688.7
50°	13945.9	13596.0	13143.2	12380.7	11420.1	10524.6	9645.5	8679.8	7731.7	6752.2	5797.8
52.5°	14639.4	14194.2	13765.3	12980.2	11941.8	11006.2	10025.5	8963.2	7903.5	6888.9	5871.8
55°	15033.2	14746.0	14233.1	13461.8	12313.0	11337.3	10266.3	9162.6	8074.1	6985.5	5903.2
57.5°	15154.8	15084.6	14654.4	13740.2	12531.2	11519.1	10429.3	9320.6	8188.2	7013.1	5859.3
60°	15058.3	15186.2	14950.4	13935.8	12630.3	11573.1	10509.6	9433.5	8208.2	6925.3	5726.3
62.5°	14748.5	15039.5	15009.4	14001.0	12578.9	11505.3	10500.8	9375.8	8020.1	6651.9	5427.8
65°	14239.3	14605.5	14734.7	13759.0	12289.2	11258.3	10277.5	9013.4	7497.2	6117.6	4927.5
67.5°	13281.2	13835.5	13960.9	12966.4	11531.7	10574.8	9634.2	8260.9	6529.0	5291.1	4146.1
70°	11361.1	12330.5	12499.9	11456.4	10196.0	9355.8	8558.1	7068.2	5436.6	4244.0	3181.7
72.5°	9069.8	9679.3	10025.5	9306.9	8368.8	7759.3	7154.8	5422.8	4102.2	3131.5	2189.7
75°	7090.8	7054.4	7364.2	6886.4	6334.6	6049.9	5595.9	3783.7	2747.8	2074.3	1385.8
77.5°	6062.4	5595.9	5243.5	4907.4	4580.1	4489.8	4054.6	2347.7	1698.1	1242.8	829.0
80°	5039.1	4187.5	3544.2	3071.3	2954.7	3132.8	2653.7	1384.6	1005.8	713.6	520.5
82.5°	3600.6	3012.4	2451.8	2152.1	1952.7	2236.1	1565.1	768.8	545.5	427.7	344.9
85°	2333.9	2231.1	2207.3	2109.4	1867.4	1763.3	1188.9	662.2	408.8	265.9	214.5
87.5°	898.0	1151.3	1328.1	1423.4	1538.8	1370.8	619.5	228.3	224.5	138.0	104.1
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°	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6
2.5°	2172.1	2167.1	2165.9	2162.1	2159.6	2159.6	2153.3	2039.2	2038.0	2038.0	2036.7
5°	2218.5	2212.3	2206.0	2204.7	2199.7	2199.7	2193.5	2079.3	2079.3	2079.3	2076.8
7.5°	2281.3	2268.7	2261.2	2257.4	2249.9	2253.7	2258.7	2143.3	2144.6	2143.3	2145.8
10°	2326.4	2318.9	2310.1	2307.6	2302.6	2306.3	2313.9	2199.7	2203.5	2204.7	2207.3
12.5°	2370.3	2357.8	2346.5	2342.7	2340.2	2350.2	2359.0	2248.6	2252.4	2256.2	2256.2
15°	2424.2	2402.9	2387.9	2379.1	2374.1	2384.1	2396.6	2287.5	2288.8	2292.5	2291.3
17.5°	2515.8	2484.4	2449.3	2443.0	2426.7	2430.5	2433.0	2311.4	2306.3	2297.6	2282.5
20°	2657.5	2609.8	2562.2	2542.1	2509.5	2495.7	2468.1	2312.6	2281.3	2254.9	2232.3
22.5°	2860.7	2790.4	2739.0	2705.1	2638.7	2592.3	2517.0	2306.3	2247.4	2202.2	2167.1
25°	3189.2	3105.2	3026.2	2940.9	2836.8	2744.0	2633.7	2361.5	2270.0	2192.2	2124.5
27.5°	3509.0	3376.1	3254.5	3126.5	2979.8	2840.6	2685.1	2379.1	2275.0	2174.7	2064.3
30°	3748.6	3555.4	3371.1	3184.2	2992.3	2811.7	2636.2	2318.9	2194.7	2081.8	1965.2
32.5°	3894.1	3643.2	3403.7	3171.7	2945.9	2742.8	2545.9	2214.8	2078.1	1945.1	1821.0
35°	4032.0	3721.0	3423.8	3150.4	2892.0	2666.3	2454.3	2093.1	1930.1	1788.4	1631.6
37.5°	4202.6	3802.5	3436.3	3111.5	2813.0	2554.7	2321.4	1940.1	1777.1	1602.8	1454.8
40°	4407.0	3886.5	3423.8	3033.7	2690.1	2407.9	2160.9	1779.6	1597.8	1428.4	1283.0
42.5°	4601.4	3960.5	3391.2	2929.6	2555.9	2254.9	2014.1	1636.6	1454.8	1281.7	1137.5
45°	4745.6	4023.2	3374.8	2856.9	2453.1	2150.8	1884.9	1521.3	1329.4	1155.0	1008.3
47.5°	4845.9	4060.9	3367.3	2816.8	2381.6	2043.0	1767.1	1405.9	1204.0	1028.4	885.4
50°	4898.6	4059.6	3348.5	2772.9	2276.2	1913.8	1645.4	1289.2	1088.6	916.8	786.3
52.5°	4912.4	4037.0	3308.4	2692.6	2148.3	1784.6	1515.0	1167.6	987.0	822.7	691.0
55°	4881.1	3981.8	3224.4	2558.4	2011.6	1647.9	1395.8	1072.3	887.9	732.4	629.6
57.5°	4792.0	3884.0	3066.3	2374.1	1867.4	1521.3	1259.1	956.9	780.1	649.6	564.4
60°	4626.5	3677.1	2819.3	2155.8	1684.3	1328.1	1071.0	806.4	665.9	568.1	499.1
62.5°	4320.5	3352.3	2471.9	1854.8	1420.9	1077.3	855.3	643.4	538.0	474.1	431.4
65°	3827.6	2863.2	2069.3	1461.1	1079.8	783.8	635.8	484.1	407.6	368.7	356.2
67.5°	3124.0	2211.0	1504.9	1014.6	731.2	549.3	442.7	353.7	317.3	302.2	297.2
70°	2271.2	1506.2	974.5	640.9	482.8	383.8	334.9	284.7	264.6	260.9	260.9
72.5°	1425.9	915.5	597.0	438.9	366.2	311.0	285.9	250.8	243.3	240.8	237.0
75°	836.5	555.6	422.6	359.9	313.5	278.4	257.1	228.3	223.2	222.0	218.2
77.5°	533.0	400.1	341.1	307.3	283.4	252.1	233.3	203.2	201.9	200.7	199.4
80°	382.5	332.3	298.5	272.1	248.3	219.5	208.2	184.4	181.8	180.6	183.1
82.5°	289.7	274.7	260.9	240.8	208.2	186.9	178.1	161.8	163.0	156.8	155.5
85°	199.4	196.9	195.6	186.9	163.0	144.2	138.0	129.2	135.4	129.2	121.7
87.5°	97.8	96.6	89.0	105.3	97.8	77.8	70.2	77.8	86.5	84.0	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: P158933

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

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°	2031.7	2026.7	2030.4	2027.9	2027.9	2026.7	2029.2	2025.4	2022.9	2025.4	2026.7
5°	2071.8	2065.5	2066.8	2058.0	2061.8	2053.0	2055.5	2049.2	2043.0	2040.5	2040.5
7.5°	2139.5	2133.3	2125.7	2124.5	2110.7	2105.7	2096.9	2091.9	2088.1	2079.3	2074.3
10°	2201.0	2191.0	2182.2	2180.9	2167.1	2154.6	2143.3	2133.3	2127.0	2114.5	2108.2
12.5°	2251.2	2241.1	2227.3	2219.8	2206.0	2191.0	2183.4	2168.4	2159.6	2145.8	2134.5
15°	2280.0	2262.4	2242.4	2228.6	2208.5	2192.2	2180.9	2169.6	2160.9	2143.3	2127.0
17.5°	2266.2	2237.4	2209.8	2184.7	2157.1	2142.0	2125.7	2111.9	2109.4	2089.4	2064.3
20°	2208.5	2174.7	2138.3	2104.4	2068.1	2046.7	2026.7	2005.3	1999.1	1975.2	1942.6
22.5°	2138.3	2099.4	2058.0	2016.6	1970.2	1940.1	1910.0	1883.7	1862.4	1827.3	1780.9
25°	2066.8	2009.1	1948.9	1896.2	1842.3	1804.7	1773.3	1744.5	1719.4	1663.0	1615.3
27.5°	1972.7	1882.4	1821.0	1760.8	1695.6	1646.7	1611.5	1571.4	1543.8	1478.6	1428.4
30°	1852.3	1762.0	1674.3	1614.1	1548.8	1496.2	1451.0	1393.3	1353.2	1305.5	1259.1
32.5°	1700.6	1610.3	1521.3	1453.5	1399.6	1334.4	1278.0	1222.8	1176.4	1130.0	1093.6
35°	1516.2	1428.4	1344.4	1276.7	1216.5	1165.1	1111.2	1063.5	1010.8	960.7	939.3
37.5°	1321.8	1227.8	1135.0	1076.0	1028.4	992.0	941.8	903.0	855.3	825.2	800.1
40°	1152.5	1052.2	964.4	914.3	876.6	835.2	793.9	763.8	729.9	699.8	681.0
42.5°	1009.6	915.5	840.3	797.6	752.5	707.3	676.0	650.9	629.6	607.0	584.4
45°	877.9	787.6	724.9	672.2	634.6	598.2	576.9	565.6	553.1	539.3	524.2
47.5°	767.5	689.8	628.3	579.4	540.5	515.4	505.4	501.6	496.6	485.3	477.8
50°	683.5	619.5	556.8	512.9	480.3	467.8	456.5	452.7	446.5	442.7	437.7
52.5°	613.3	545.5	492.9	452.7	432.7	427.7	422.6	417.6	416.4	413.9	411.4
55°	555.6	496.6	447.7	417.6	407.6	403.8	402.6	397.6	396.3	396.3	392.5
57.5°	504.2	454.0	410.1	391.3	385.0	381.3	378.7	376.2	376.2	378.7	377.5
60°	451.5	408.8	382.5	372.5	368.7	362.4	356.2	353.7	354.9	361.2	361.2
62.5°	400.1	368.7	352.4	348.6	344.9	339.9	332.3	329.8	332.3	339.9	343.6
65°	343.6	329.8	324.8	322.3	319.8	316.0	311.0	308.5	309.8	313.5	318.5
67.5°	292.2	291.0	291.0	292.2	291.0	289.7	287.2	283.4	282.2	282.2	284.7
70°	260.9	260.9	264.6	264.6	263.4	263.4	259.6	255.8	253.3	250.8	252.1
72.5°	237.0	237.0	238.3	239.5	238.3	238.3	233.3	230.8	224.5	223.2	220.7
75°	217.0	214.5	214.5	213.2	211.9	213.2	208.2	201.9	199.4	198.2	195.6
77.5°	196.9	191.9	189.4	186.9	188.1	186.9	183.1	179.3	175.6	174.3	173.1
80°	174.3	166.8	163.0	156.8	160.5	161.8	159.3	155.5	154.3	153.0	151.7
82.5°	144.2	136.7	131.7	127.9	125.4	127.9	131.7	140.5	138.0	136.7	134.2
85°	112.9	100.3	94.1	95.3	89.0	90.3	101.6	106.6	106.6	109.1	106.6
87.5°	64.0	61.5	46.4	42.6	45.1	53.9	60.2	66.5	66.5	62.7	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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CATALOG NUMBER: VST-F09-LED-E-U-SLL-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°	2026.7	2029.2	2030.4	2035.4	2038.0	2039.2	2040.5	2043.0	2044.2	2043.0	2049.2
5°	2036.7	2036.7	2034.2	2038.0	2039.2	2039.2	2036.7	2039.2	2039.2	2039.2	2045.5
7.5°	2063.0	2055.5	2051.7	2046.7	2043.0	2038.0	2031.7	2031.7	2030.4	2031.7	2035.4
10°	2090.6	2079.3	2065.5	2053.0	2041.7	2032.9	2021.6	2017.9	2016.6	2015.4	2025.4
12.5°	2111.9	2091.9	2070.6	2049.2	2026.7	2011.6	1992.8	1981.5	1980.3	1980.3	1992.8
15°	2096.9	2064.3	2022.9	1985.3	1965.2	1943.9	1922.6	1908.8	1907.5	1910.0	1917.6
17.5°	2021.6	1969.0	1932.6	1896.2	1869.9	1852.3	1838.5	1836.0	1841.1	1836.0	1846.1
20°	1893.7	1837.3	1812.2	1783.4	1773.3	1760.8	1740.7	1723.2	1723.2	1700.6	1706.9
22.5°	1728.2	1696.8	1664.2	1641.6	1634.1	1612.8	1591.5	1567.7	1565.1	1537.6	1533.8
25°	1555.1	1523.8	1497.4	1492.4	1469.8	1441.0	1420.9	1393.3	1387.1	1359.5	1355.7
27.5°	1378.3	1353.2	1326.9	1311.8	1299.3	1267.9	1250.4	1217.8	1205.2	1175.1	1171.4
30°	1210.2	1192.7	1161.3	1148.8	1124.9	1088.6	1051.0	1030.9	1020.9	989.5	979.5
32.5°	1052.2	1024.6	1000.8	985.7	955.6	914.3	880.4	851.6	832.7	795.1	785.1
35°	901.7	874.1	862.8	824.0	797.6	770.0	723.6	706.1	672.2	643.4	633.3
37.5°	768.8	742.4	727.4	694.8	668.4	640.9	613.3	590.7	574.4	568.1	568.1
40°	654.7	640.9	622.0	598.2	580.7	560.6	545.5	538.0	536.8	539.3	545.5
42.5°	573.1	558.1	545.5	533.0	520.5	518.0	514.2	519.2	525.5	531.7	538.0
45°	511.7	499.1	491.6	486.6	485.3	489.1	496.6	504.2	515.4	523.0	528.0
47.5°	467.8	457.8	455.2	454.0	460.3	471.6	481.6	492.9	501.6	509.2	514.2
50°	430.2	421.4	420.1	418.9	427.7	437.7	446.5	461.5	467.8	472.8	476.6
52.5°	403.8	396.3	392.5	393.8	402.6	411.4	423.9	435.2	444.0	447.7	451.5
55°	382.5	380.0	371.2	375.0	383.8	395.0	407.6	420.1	428.9	435.2	441.5
57.5°	366.2	359.9	353.7	359.9	368.7	380.0	395.0	406.3	417.6	426.4	432.7
60°	348.6	343.6	338.6	344.9	353.7	365.0	376.2	391.3	405.1	413.9	420.1
62.5°	333.6	329.8	324.8	326.1	329.8	337.4	343.6	357.4	370.0	381.3	388.8
65°	312.3	311.0	303.5	304.8	307.3	314.8	319.8	332.3	344.9	354.9	361.2
67.5°	280.9	278.4	278.4	282.2	283.4	287.2	291.0	303.5	313.5	321.1	328.6
70°	249.6	248.3	248.3	250.8	249.6	253.3	258.3	269.6	282.2	289.7	297.2
72.5°	219.5	219.5	218.2	220.7	220.7	222.0	228.3	238.3	249.6	255.8	260.9
75°	193.1	191.9	191.9	191.9	193.1	193.1	199.4	208.2	219.5	223.2	230.8
77.5°	169.3	169.3	169.3	169.3	170.6	169.3	173.1	179.3	183.1	189.4	189.4
80°	149.2	148.0	149.2	150.5	150.5	149.2	149.2	150.5	151.7	151.7	151.7
82.5°	131.7	127.9	130.4	136.7	136.7	136.7	135.4	126.7	120.4	120.4	122.9
85°	105.3	105.3	106.6	115.4	116.6	111.6	116.6	104.1	91.6	87.8	90.3
87.5°	65.2	51.4	62.7	71.5	71.5	67.7	75.2	70.2	58.9	47.7	45.1
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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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°	2054.3	2055.5	2063.0	2066.8	2066.8	2071.8	2074.3	2081.8	2080.6	2080.6	2083.1	2.5°
5°	2051.7	2055.5	2063.0	2068.1	2070.6	2076.8	2081.8	2090.6	2089.4	2091.9	2093.1	5°
7.5°	2043.0	2053.0	2060.5	2070.6	2079.3	2084.4	2090.6	2098.1	2095.6	2096.9	2095.6	7.5°
10°	2035.4	2045.5	2060.5	2074.3	2086.9	2094.4	2098.1	2106.9	2105.7	2108.2	2108.2	10°
12.5°	2005.3	2022.9	2041.7	2063.0	2081.8	2101.9	2114.5	2133.3	2142.0	2153.3	2165.9	12.5°
15°	1928.8	1948.9	1979.0	2002.8	2039.2	2066.8	2103.2	2139.5	2172.1	2203.5	2239.9	15°
17.5°	1853.6	1862.4	1886.2	1918.8	1951.4	1992.8	2036.7	2101.9	2160.9	2224.8	2295.0	17.5°
20°	1714.4	1729.4	1745.7	1784.6	1823.5	1882.4	1936.4	2021.6	2108.2	2208.5	2316.4	20°
22.5°	1542.6	1557.6	1575.2	1619.1	1666.7	1726.9	1792.1	1887.5	2002.8	2133.3	2277.5	22.5°
25°	1357.0	1365.7	1379.5	1423.4	1452.3	1531.3	1610.3	1709.4	1834.8	2002.8	2170.9	25°
27.5°	1152.5	1168.8	1180.1	1200.2	1266.7	1334.4	1417.2	1523.8	1675.5	1847.3	2050.5	27.5°
30°	956.9	970.7	964.4	1007.1	1051.0	1122.4	1211.5	1329.4	1474.8	1679.3	1913.8	30°
32.5°	765.0	775.0	771.3	801.4	845.3	916.8	1000.8	1128.7	1283.0	1501.2	1755.8	32.5°
35°	630.8	633.3	647.1	660.9	698.5	756.2	827.7	939.3	1097.4	1298.0	1567.7	35°
37.5°	568.1	573.1	581.9	600.7	628.3	669.7	728.6	815.2	950.6	1127.5	1368.2	37.5°
40°	549.3	553.1	558.1	570.6	597.0	633.3	686.0	758.7	857.8	1007.1	1202.7	40°
42.5°	540.5	540.5	540.5	548.1	568.1	607.0	667.2	738.7	825.2	938.1	1096.1	42.5°
45°	528.0	528.0	526.7	530.5	544.3	583.2	648.4	728.6	821.5	929.3	1066.0	45°
47.5°	514.2	512.9	509.2	509.2	518.0	556.8	624.6	711.1	812.7	936.8	1083.6	47.5°
50°	476.6	476.6	476.6	480.3	487.9	523.0	595.7	687.3	803.9	941.8	1111.2	50°
52.5°	455.2	456.5	460.3	460.3	467.8	504.2	580.7	682.2	808.9	960.7	1146.3	52.5°
55°	445.2	449.0	452.7	452.7	459.0	496.6	575.6	686.0	827.7	999.5	1206.5	55°
57.5°	436.4	440.2	442.7	442.7	447.7	480.3	561.8	679.7	839.0	1037.2	1280.5	57.5°
60°	420.1	422.6	423.9	423.9	425.1	452.7	530.5	649.6	813.9	1034.7	1320.6	60°
62.5°	390.0	395.0	396.3	397.6	397.6	423.9	490.4	600.7	760.0	997.0	1309.3	62.5°
65°	367.5	370.0	373.7	376.2	381.3	398.8	451.5	541.8	689.8	921.8	1246.6	65°
67.5°	332.3	336.1	339.9	344.9	349.9	361.2	402.6	475.3	594.5	793.9	1106.1	67.5°
70°	301.0	302.2	306.0	312.3	313.5	319.8	349.9	400.1	486.6	637.1	890.4	70°
72.5°	262.1	264.6	269.6	277.2	277.2	282.2	299.7	326.1	381.3	486.6	657.2	72.5°
75°	228.3	230.8	234.5	234.5	228.3	229.5	242.0	260.9	302.2	366.2	479.1	75°
77.5°	189.4	194.4	198.2	190.6	188.1	191.9	198.2	211.9	242.0	291.0	359.9	77.5°
80°	156.8	159.3	160.5	161.8	159.3	163.0	168.1	176.8	196.9	234.5	284.7	80°
82.5°	125.4	127.9	131.7	136.7	136.7	150.5	151.7	151.7	163.0	186.9	223.2	82.5°
85°	92.8	97.8	102.8	109.1	110.4	117.9	114.1	112.9	116.6	139.2	154.3	85°
87.5°	47.7	51.4	53.9	58.9	52.7	55.2	55.2	51.4	45.1	56.4	62.7	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
2085.6	2083.1	2085.6	2085.6	2089.4	2086.9	2219.8
2095.6	2093.1	2095.6	2098.1	2101.9	2101.9	2248.6
2096.9	2096.9	2094.4	2100.7	2105.7	2110.7	2276.2
2111.9	2111.9	2114.5	2115.7	2127.0	2139.5	2321.4
2173.4	2179.7	2191.0	2194.7	2214.8	2228.6	2436.8
2267.5	2302.6	2325.1	2332.7	2350.2	2376.6	2631.2
2362.8	2421.7	2483.2	2520.8	2543.4	2574.7	2869.4
2434.3	2544.6	2650.0	2744.0	2798.0	2859.4	3203.0
2440.5	2616.1	2794.2	2968.5	3112.7	3226.9	3654.5
2380.3	2611.1	2856.9	3124.0	3372.3	3578.0	4173.7
2303.8	2587.3	2900.8	3241.9	3568.0	3871.5	4556.2
2207.3	2547.1	2908.3	3292.1	3674.6	4039.5	4774.5
2060.5	2428.0	2818.0	3241.9	3685.9	4129.8	4914.9
1872.4	2247.4	2647.5	3130.3	3633.2	4166.2	5032.8
1680.5	2050.5	2480.7	2981.1	3549.2	4159.9	5080.5
1477.4	1844.8	2285.0	2821.8	3435.0	4102.2	5071.7
1339.4	1674.3	2105.7	2660.0	3308.4	4025.7	5012.7
1259.1	1552.6	1964.0	2512.0	3193.0	3934.2	4938.7
1257.9	1516.2	1888.7	2406.7	3076.4	3832.6	4838.4
1301.8	1538.8	1879.9	2361.5	3012.4	3758.6	4729.3
1353.2	1601.5	1926.3	2377.8	3011.2	3726.0	4652.8
1434.7	1708.1	2027.9	2448.1	3043.8	3721.0	4558.7
1538.8	1852.3	2211.0	2621.1	3170.4	3820.1	4565.0
1645.4	2021.6	2450.6	2917.1	3420.0	4050.8	4763.2
1684.3	2152.1	2693.9	3264.5	3793.7	4397.0	5172.0
1650.4	2182.2	2841.8	3534.1	4157.4	4802.0	5659.9
1525.0	2060.5	2781.6	3610.6	4366.9	5089.2	6147.7
1255.4	1758.3	2508.2	3438.8	4350.6	5148.2	6323.3
920.5	1363.2	2039.2	2922.1	3867.7	4779.5	6059.9
664.7	964.4	1472.3	2201.0	3057.6	3848.9	5083.0
476.6	668.4	955.6	1446.0	2083.1	2680.1	3623.2
342.4	454.0	595.7	867.9	1269.2	1645.4	2276.2
252.1	311.0	391.3	539.3	747.5	958.2	1370.8
171.8	183.1	235.8	318.5	490.4	704.8	930.6
65.2	74.0	86.5	130.4	219.5	252.1	178.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)