

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: P165503

Luminaire Tested: **VST-F06-LED-E-U-SL4-HSS-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165503
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33728)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-F06-LED-E-U-SL4-HSS-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (42) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10218.2 lumens
Efficiency: N/A
Efficacy: 65.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 156.5
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: 28.75 FT

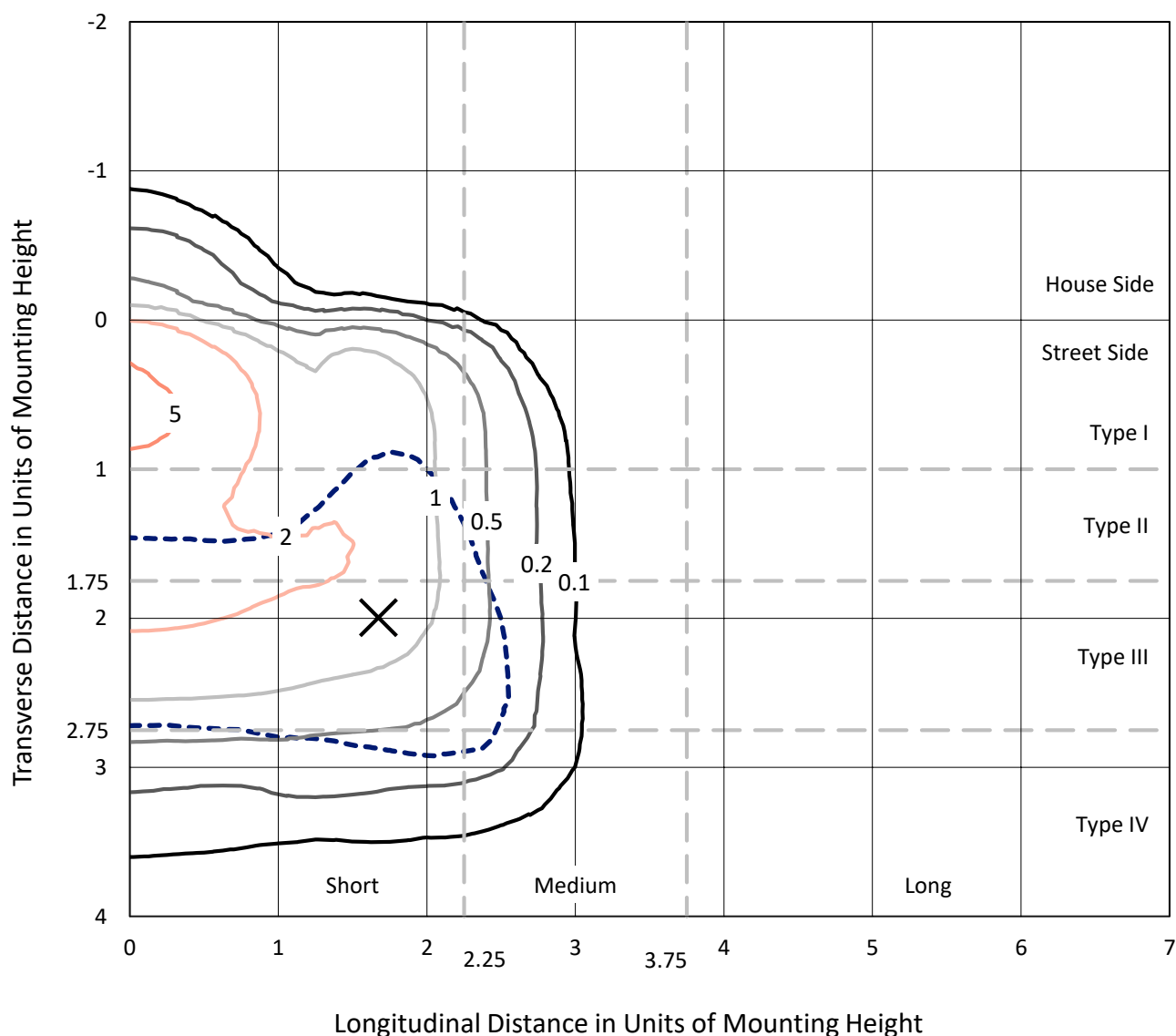


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

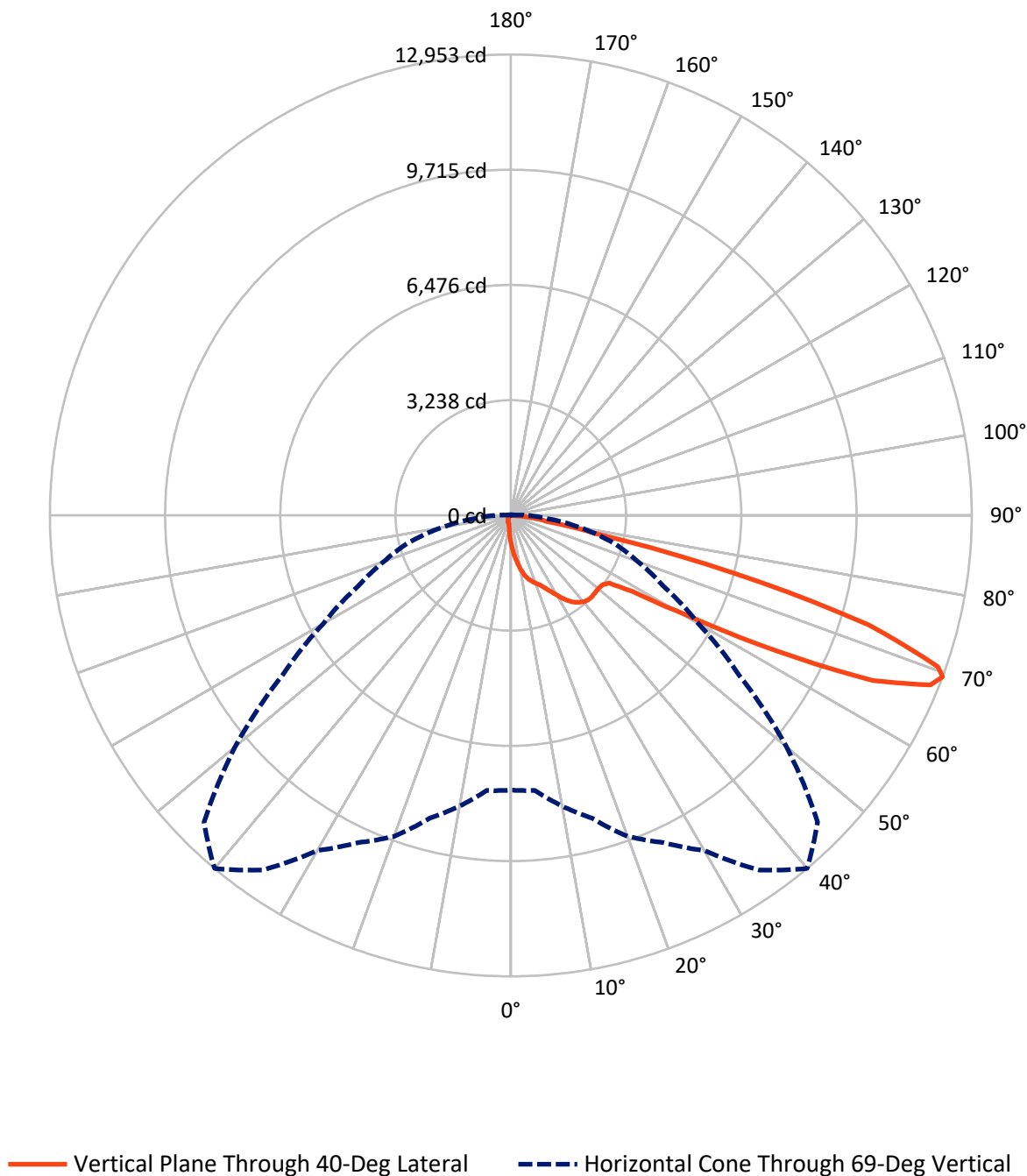


Based on 20 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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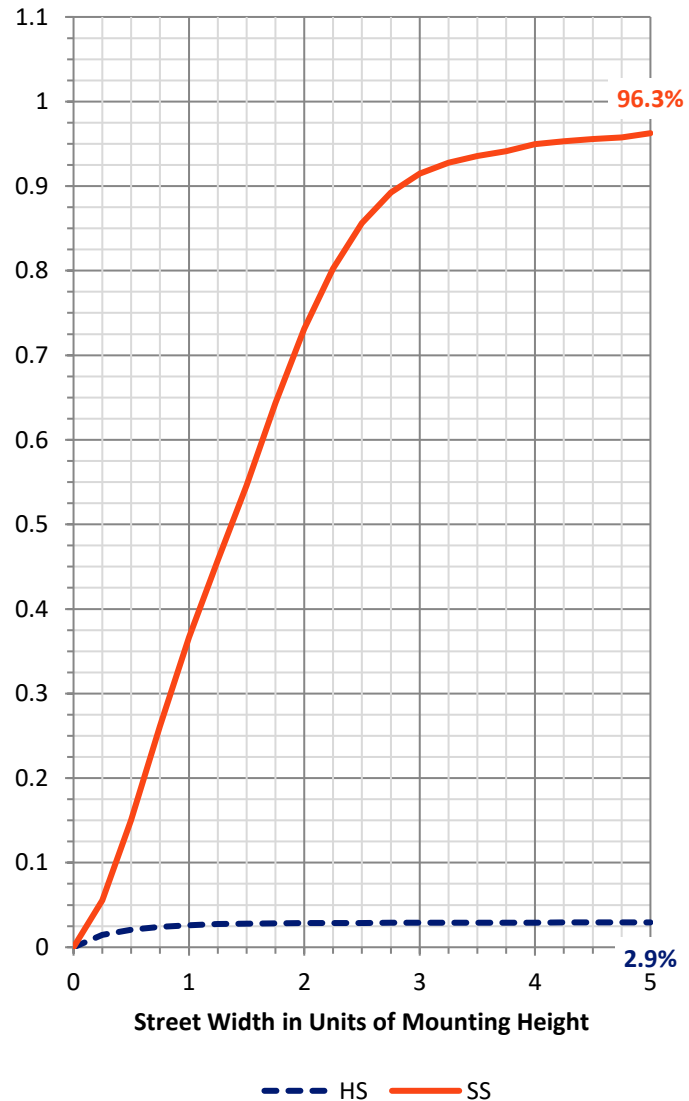
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	304.3	0.0	304.3
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	9913.9	0.0	9913.9
	% Fixture	97.0	0.0	97.0
Total	Lumens	10218.2	0.0	10218.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.3	0.8
10°-20°	273.5	2.7
20°-30°	523.4	5.1
30°-40°	870.4	8.5
40°-50°	1177.8	11.5
50°-60°	1842.0	18.0
60°-70°	3787.1	37.1
70°-80°	1523.8	14.9
80°-90°	140.9	1.4
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°	10218.2	100.0
0°-180°	10218.2	100.0

Coefficient of Utilization



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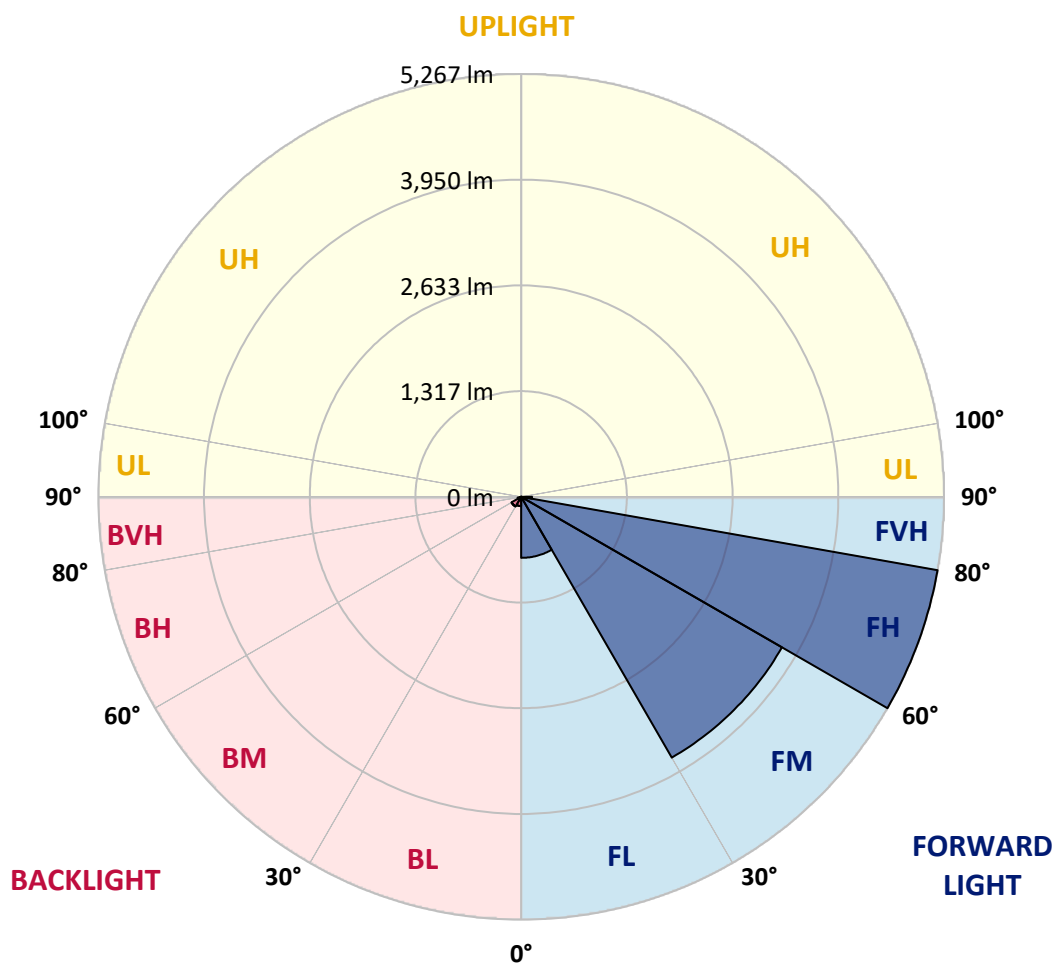
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	760.4	7.4			
FM	(30°-60°)	3751.3	36.7			
FH	(60°-80°)	5266.5	51.5			G3/7500
FVH	(80°-90°)	135.7	1.3			G2/225
BL	(0°-30°)	115.7	1.1	B1/500		
BM	(30°-60°)	138.9	1.4	B0/220		
BH	(60°-80°)	44.4	0.4	B0/110		G0/110
BVH	(80°-90°)	5.2	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	771.7	771.7	771.7	771.7	771.7	771.7	771.7	771.7	771.7	771.7	771.7
2.5°	1029.5	1017.7	1004.3	1004.3	987.6	987.6	977.6	950.8	947.5	932.3	917.3
5°	1314.0	1304.0	1287.3	1272.1	1258.8	1235.3	1218.6	1186.8	1151.7	1118.1	1088.1
7.5°	1591.9	1586.8	1556.8	1551.7	1529.9	1491.5	1458.0	1411.1	1350.8	1304.0	1248.8
10°	1849.7	1837.9	1831.2	1802.7	1771.0	1729.2	1677.2	1620.4	1550.0	1476.4	1397.7
12.5°	2053.9	2047.2	2017.0	2005.3	1971.9	1930.0	1864.8	1791.1	1720.8	1625.4	1533.3
15°	2206.2	2194.5	2174.4	2156.0	2115.8	2079.0	2018.8	1938.3	1853.1	1749.3	1638.8
17.5°	2333.5	2311.7	2306.6	2278.2	2236.4	2192.8	2125.9	2052.2	1951.8	1848.0	1727.4
20°	2504.1	2474.0	2464.0	2422.1	2373.6	2313.3	2236.4	2144.3	2038.8	1925.0	1801.1
22.5°	2705.0	2683.2	2661.5	2624.7	2562.8	2477.4	2365.3	2264.8	2130.9	2005.3	1871.5
25°	2989.6	2971.2	2936.0	2885.8	2808.8	2706.7	2571.1	2423.8	2266.5	2105.8	1948.4
27.5°	3265.8	3249.0	3223.9	3185.5	3098.4	2986.2	2818.8	2631.4	2432.2	2238.0	2063.9
30°	3525.3	3510.1	3485.0	3446.6	3369.6	3259.1	3069.9	2869.0	2621.3	2395.4	2186.2
32.5°	3804.8	3799.7	3771.3	3716.1	3649.1	3500.2	3294.2	3078.3	2827.3	2566.1	2321.7
35°	4121.2	4082.6	4055.9	4000.6	3886.9	3727.8	3486.8	3250.7	2986.2	2718.4	2445.6
37.5°	4389.0	4352.2	4318.7	4248.4	4109.5	3906.9	3634.1	3374.5	3101.7	2828.9	2551.0
40°	4584.8	4566.4	4526.2	4434.1	4278.5	4037.5	3742.8	3459.9	3185.5	2910.9	2636.4
42.5°	4730.4	4702.0	4656.8	4561.4	4377.3	4102.8	3786.3	3495.1	3223.9	2961.1	2691.7
45°	4784.0	4760.6	4718.8	4615.0	4415.7	4121.2	3784.7	3485.0	3225.6	2976.2	2728.5
47.5°	4752.2	4728.8	4691.9	4594.8	4399.1	4099.4	3754.6	3456.6	3208.9	2981.3	2761.9
50°	4646.8	4633.4	4604.9	4522.9	4347.1	4057.5	3727.8	3441.5	3205.5	3006.4	2808.8
52.5°	4636.7	4628.4	4593.2	4511.2	4332.1	4044.1	3724.4	3450.0	3234.0	3038.2	2842.3
55°	5666.1	5547.3	5281.2	5055.2	4683.6	4241.7	3893.5	3585.5	3354.5	3163.7	3026.4
57.5°	8053.1	7875.8	7525.9	7095.7	6242.0	5403.4	4732.2	4246.7	4007.3	3920.3	3972.1
60°	9171.3	9139.6	9084.3	8880.1	8443.2	7721.8	6918.2	6049.5	5701.3	5671.2	5776.6
62.5°	9702.0	9681.9	9698.6	9673.5	9537.9	9327.0	9096.0	8721.1	8376.2	8153.6	7681.5
65°	9946.4	9959.8	10055.1	10130.4	10147.2	10202.4	10371.6	10838.5	11180.0	10605.9	9295.2
67.5°	9325.3	9404.0	9623.3	9897.8	10219.2	10530.5	11032.7	12017.0	12718.3	12043.8	10182.4
69°	7720.0	7758.6	8294.2	8811.4	9596.5	10145.6	10873.7	12164.2	12952.7	12191.1	10112.0
70°	6077.9	6113.1	6687.3	7390.3	8717.7	9424.1	10376.5	11914.9	12733.4	11995.2	9750.5
72.5°	2741.9	2691.7	2894.2	3270.8	4713.7	5835.3	7500.8	9653.4	10505.4	9609.9	7294.8
75°	1915.0	1893.2	1915.0	1916.6	2140.9	2761.9	3485.0	5232.6	6471.3	5584.2	3485.0
77.5°	1483.1	1468.0	1453.0	1436.2	1463.0	1638.8	1709.0	1856.3	2410.4	2279.9	1329.1
80°	1173.4	1160.0	1196.8	1185.1	1185.1	1205.3	1191.8	1136.5	1032.8	957.4	857.0
82.5°	545.7	549.0	549.0	595.9	718.2	838.6	877.1	821.9	729.8	621.0	500.5
85°	51.8	58.5	98.8	152.4	303.0	341.4	343.2	284.5	284.5	224.3	180.7
87.5°	0.0	1.6	1.6	1.6	15.0	41.9	35.2	10.1	5.0	5.0	8.3
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	771.7	771.7	771.7	771.7	771.7	771.7	771.7	771.7	771.7	771.7	771.7
2.5°	890.5	885.5	865.4	845.3	826.9	806.8	788.4	770.0	749.9	734.8	716.4
5°	1041.2	1004.3	962.5	922.4	882.1	840.3	796.8	758.3	718.2	681.3	646.1
7.5°	1193.5	1121.5	1064.6	992.6	927.3	862.1	801.8	739.9	683.0	629.4	579.2
10°	1322.4	1235.3	1146.6	1054.6	960.8	873.8	790.1	716.4	641.1	575.8	513.9
12.5°	1427.9	1317.4	1208.6	1093.0	987.6	877.1	773.3	684.6	595.9	522.3	458.6
15°	1523.2	1396.0	1265.4	1131.6	997.7	872.1	756.6	646.1	555.7	472.1	400.1
17.5°	1600.3	1454.6	1307.3	1156.7	1012.7	865.4	734.8	619.3	513.9	426.8	356.6
20°	1667.2	1514.9	1355.9	1186.8	1022.8	863.7	716.4	585.9	477.0	385.0	316.3
22.5°	1729.2	1576.8	1406.1	1225.3	1037.8	862.1	699.7	560.8	445.2	353.2	284.5
25°	1799.5	1638.8	1459.7	1265.4	1064.6	868.8	689.7	540.7	416.8	323.0	259.4
27.5°	1878.2	1709.0	1523.2	1315.6	1099.7	882.1	686.3	518.9	391.7	294.6	239.4
30°	1988.6	1792.8	1586.8	1365.9	1131.6	897.3	683.0	505.5	366.5	272.8	219.3
32.5°	2085.7	1874.8	1657.2	1417.8	1166.7	912.3	681.3	487.1	343.2	251.1	204.2
35°	2187.8	1950.1	1717.5	1468.0	1196.8	929.0	679.6	473.7	321.4	229.3	189.2
37.5°	2276.5	2013.7	1764.3	1511.5	1230.4	944.1	681.3	462.0	301.3	210.9	175.8
40°	2351.9	2079.0	1816.2	1551.7	1265.4	967.5	683.0	450.3	281.3	194.1	164.1
42.5°	2418.8	2140.9	1871.5	1596.9	1305.7	994.3	693.0	440.2	264.5	179.1	152.4
45°	2470.7	2197.9	1931.6	1660.5	1370.9	1037.8	711.4	433.5	247.7	165.7	142.3
47.5°	2524.3	2281.5	2033.8	1761.0	1466.4	1106.5	743.3	431.9	234.3	155.6	133.9
50°	2597.9	2365.3	2124.2	1863.0	1553.4	1176.8	781.7	433.5	217.6	145.7	125.5
52.5°	2651.5	2450.6	2241.4	2040.5	1761.0	1391.0	930.7	463.6	209.2	137.2	115.5
55°	2967.8	2932.7	2937.7	2971.2	2755.3	2366.9	1556.8	669.6	246.1	155.6	113.8
57.5°	4184.8	4308.6	4380.6	4378.9	4022.4	3336.1	2090.7	860.4	274.6	180.7	135.6
60°	5785.1	5691.3	5559.1	5232.6	4758.9	3808.2	2338.4	925.7	237.7	143.9	123.9
62.5°	7199.5	6650.4	6163.3	5634.4	5013.3	3972.1	2388.7	920.6	207.6	108.8	87.0
65°	8081.6	7094.0	6307.3	5644.4	4912.9	3834.9	2259.8	845.3	175.8	88.7	72.0
67.5°	8292.5	6854.6	5741.5	4896.1	4104.4	2984.6	1658.8	636.1	137.2	73.7	63.6
69°	7832.2	6093.0	4757.3	3798.1	2986.2	1980.2	1026.1	401.7	105.4	67.0	58.5
70°	7204.5	5299.6	3875.1	3048.2	2211.3	1391.0	718.2	282.9	85.4	61.9	53.6
72.5°	4635.1	2783.7	1904.9	1325.7	912.3	554.1	281.3	127.3	65.3	51.8	43.5
75°	1797.8	1029.5	746.6	567.4	443.6	308.0	170.8	82.0	55.2	43.5	33.4
77.5°	885.5	677.9	554.1	380.0	221.0	137.2	92.1	63.6	45.2	31.8	21.8
80°	699.7	465.3	277.9	172.4	130.5	98.8	70.3	51.8	33.4	20.1	15.0
82.5°	358.2	195.9	143.9	117.2	97.1	77.0	56.9	36.8	21.8	13.4	11.7
85°	112.1	82.0	73.7	72.0	67.0	55.2	40.2	23.5	13.4	8.3	8.3
87.5°	8.3	11.7	15.0	11.7	13.4	11.7	15.0	10.1	6.7	6.7	5.0
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°	771.7	771.7	771.7	771.7	771.7	771.7	771.7	771.7	771.7	771.7	771.7
2.5°	703.0	683.0	664.6	652.8	631.0	622.7	614.4	611.0	595.9	599.2	585.9
5°	614.4	579.2	552.4	525.6	500.5	482.1	467.0	448.6	433.5	426.8	413.4
7.5°	534.0	488.8	453.7	425.2	395.0	371.6	351.5	338.1	324.8	311.4	304.6
10°	463.6	415.1	375.0	346.5	318.1	297.9	282.9	272.8	264.5	259.4	257.8
12.5°	398.4	351.5	314.7	289.6	267.8	257.8	251.1	246.1	244.4	242.7	242.7
15°	348.1	301.3	272.8	254.4	244.4	239.4	237.7	234.3	231.0	229.3	229.3
17.5°	301.3	266.1	246.1	236.0	231.0	227.7	224.3	221.0	217.6	215.9	215.9
20°	269.5	241.0	231.0	224.3	219.3	215.9	210.9	207.6	205.9	204.2	202.6
22.5°	244.4	226.0	219.3	214.3	207.6	202.6	199.2	195.9	192.5	190.8	189.2
25°	226.0	214.3	209.2	202.6	195.9	190.8	185.8	180.7	177.5	175.8	172.4
27.5°	212.5	204.2	197.5	189.2	182.5	177.5	172.4	167.4	164.1	160.7	159.0
30°	200.9	192.5	184.1	177.5	169.0	164.1	157.4	152.4	150.6	147.3	143.9
32.5°	189.2	180.7	172.4	164.1	155.6	149.0	145.7	139.0	135.6	133.9	130.5
35°	175.8	167.4	157.4	150.6	142.3	135.6	130.5	125.5	122.2	118.8	117.2
37.5°	164.1	154.0	143.9	135.6	128.9	122.2	117.2	112.1	108.8	105.4	103.8
40°	150.6	140.6	130.5	122.2	115.5	110.5	105.4	100.4	97.1	95.4	95.4
42.5°	139.0	127.3	117.2	110.5	105.4	98.8	93.7	88.7	87.0	85.4	87.0
45°	127.3	115.5	107.1	100.4	95.4	88.7	83.7	80.3	78.7	80.3	82.0
47.5°	117.2	105.4	97.1	92.1	87.0	82.0	77.0	73.7	73.7	77.0	80.3
50°	107.1	95.4	88.7	85.4	80.3	75.3	68.6	67.0	68.6	72.0	75.3
52.5°	97.1	83.7	78.7	77.0	72.0	67.0	61.9	60.3	61.9	65.3	63.6
55°	87.0	73.7	72.0	70.3	65.3	58.5	53.6	53.6	53.6	51.8	48.6
57.5°	83.7	65.3	63.6	61.9	56.9	50.2	46.9	43.5	41.9	36.8	35.2
60°	87.0	58.5	58.5	55.2	50.2	43.5	38.5	33.4	30.1	26.7	26.7
62.5°	70.3	53.6	51.8	48.6	41.9	35.2	30.1	25.1	23.5	21.8	21.8
65°	56.9	48.6	45.2	40.2	35.2	28.5	23.5	20.1	18.4	18.4	20.1
67.5°	51.8	43.5	38.5	33.4	28.5	21.8	18.4	16.8	16.8	18.4	18.4
69°	48.6	40.2	35.2	30.1	25.1	20.1	16.8	16.8	16.8	16.8	18.4
70°	45.2	38.5	33.4	28.5	21.8	16.8	15.0	15.0	16.8	16.8	18.4
72.5°	35.2	30.1	28.5	23.5	16.8	15.0	13.4	15.0	15.0	16.8	16.8
75°	26.7	21.8	21.8	18.4	13.4	11.7	11.7	13.4	13.4	15.0	15.0
77.5°	18.4	15.0	15.0	13.4	11.7	10.1	10.1	11.7	13.4	13.4	15.0
80°	13.4	11.7	10.1	11.7	10.1	8.3	10.1	11.7	11.7	13.4	13.4
82.5°	10.1	10.1	10.1	10.1	8.3	8.3	10.1	10.1	11.7	13.4	13.4
85°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	10.1	10.1	11.7	11.7
87.5°	5.0	5.0	5.0	6.7	6.7	8.3	8.3	8.3	8.3	10.1	10.1
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):

	165°	170°	175°	180°
0°	771.7	771.7	771.7	771.7
2.5°	582.6	580.8	574.1	575.8
5°	408.4	398.4	405.1	403.4
7.5°	299.7	297.9	296.3	299.7
10°	256.2	256.2	254.4	256.2
12.5°	241.0	241.0	241.0	241.0
15°	229.3	229.3	227.7	227.7
17.5°	215.9	215.9	215.9	214.3
20°	202.6	200.9	200.9	200.9
22.5°	187.4	185.8	185.8	185.8
25°	172.4	170.8	170.8	170.8
27.5°	157.4	155.6	154.0	154.0
30°	142.3	140.6	139.0	139.0
32.5°	127.3	125.5	123.9	123.9
35°	113.8	113.8	112.1	110.5
37.5°	102.2	102.2	102.2	102.2
40°	93.7	95.4	95.4	95.4
42.5°	88.7	90.4	92.1	93.7
45°	85.4	88.7	90.4	90.4
47.5°	83.7	85.4	87.0	87.0
50°	77.0	75.3	75.3	75.3
52.5°	61.9	58.5	56.9	55.2
55°	45.2	43.5	40.2	40.2
57.5°	31.8	31.8	30.1	30.1
60°	25.1	25.1	23.5	25.1
62.5°	21.8	21.8	21.8	21.8
65°	20.1	20.1	20.1	20.1
67.5°	20.1	20.1	20.1	20.1
69°	18.4	18.4	18.4	18.4
70°	18.4	18.4	18.4	18.4
72.5°	16.8	16.8	16.8	16.8
75°	15.0	16.8	16.8	16.8
77.5°	15.0	15.0	15.0	15.0
80°	13.4	13.4	15.0	15.0
82.5°	13.4	13.4	13.4	13.4
85°	11.7	11.7	13.4	13.4
87.5°	10.1	10.1	11.7	11.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)