

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: P165524

Luminaire Tested: **VST-F08-LED-E-U-SL4-HSS-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165524
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-F08-LED-E-U-SL4-HSS-7060
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (56) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13624.3 lumens
Efficiency: N/A
Efficacy: 66.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.33' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

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

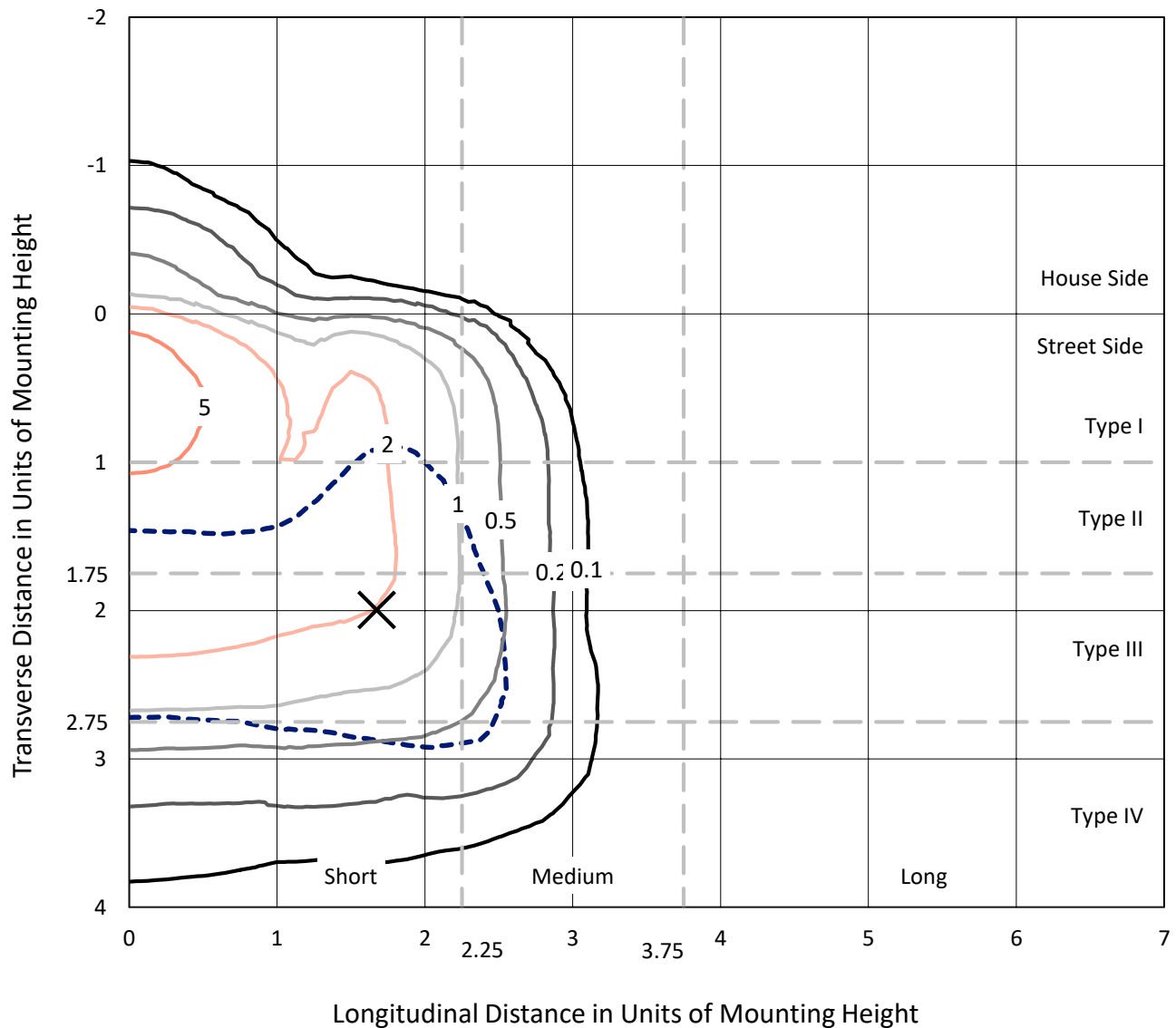


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

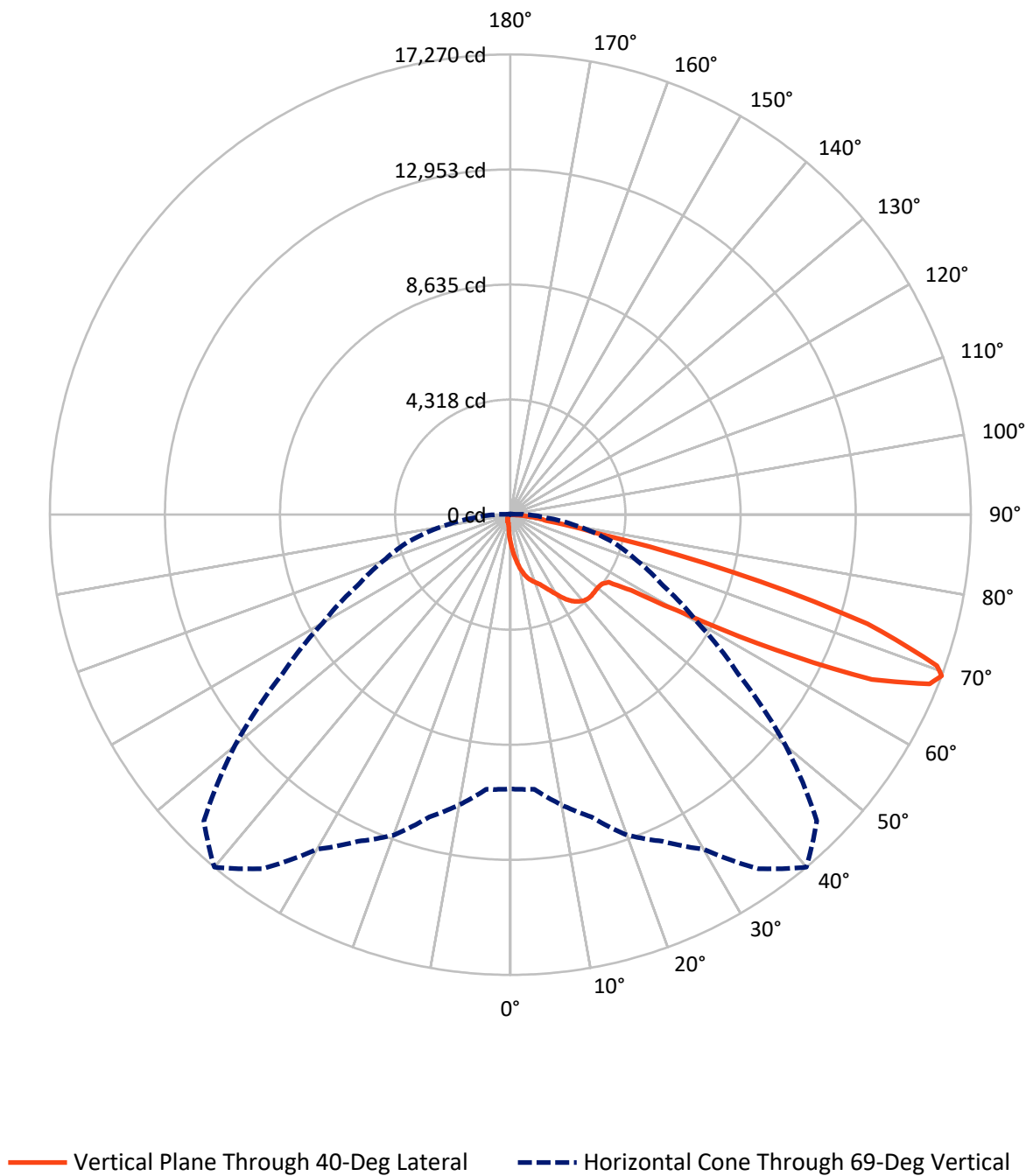


Based on 20 foot mounting height. Maximum calculated value = 7.6 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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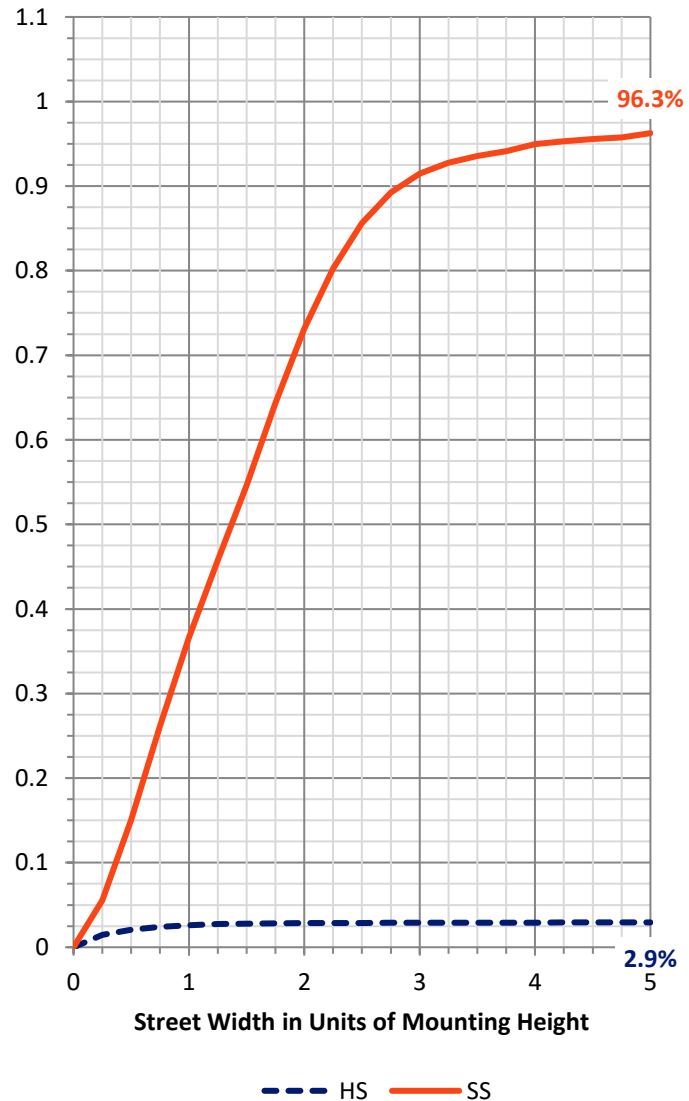
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	405.7	0.0	405.7
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	13218.6	0.0	13218.6
	% Fixture	97.0	0.0	97.0
Total	Lumens	13624.3	0.0	13624.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.8	0.8
10°-20°	364.6	2.7
20°-30°	697.8	5.1
30°-40°	1160.6	8.5
40°-50°	1570.4	11.5
50°-60°	2456.0	18.0
60°-70°	5049.4	37.1
70°-80°	2031.8	14.9
80°-90°	187.9	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°	13624.3	100.0
0°-180°	13624.3	100.0

Coefficient of Utilization



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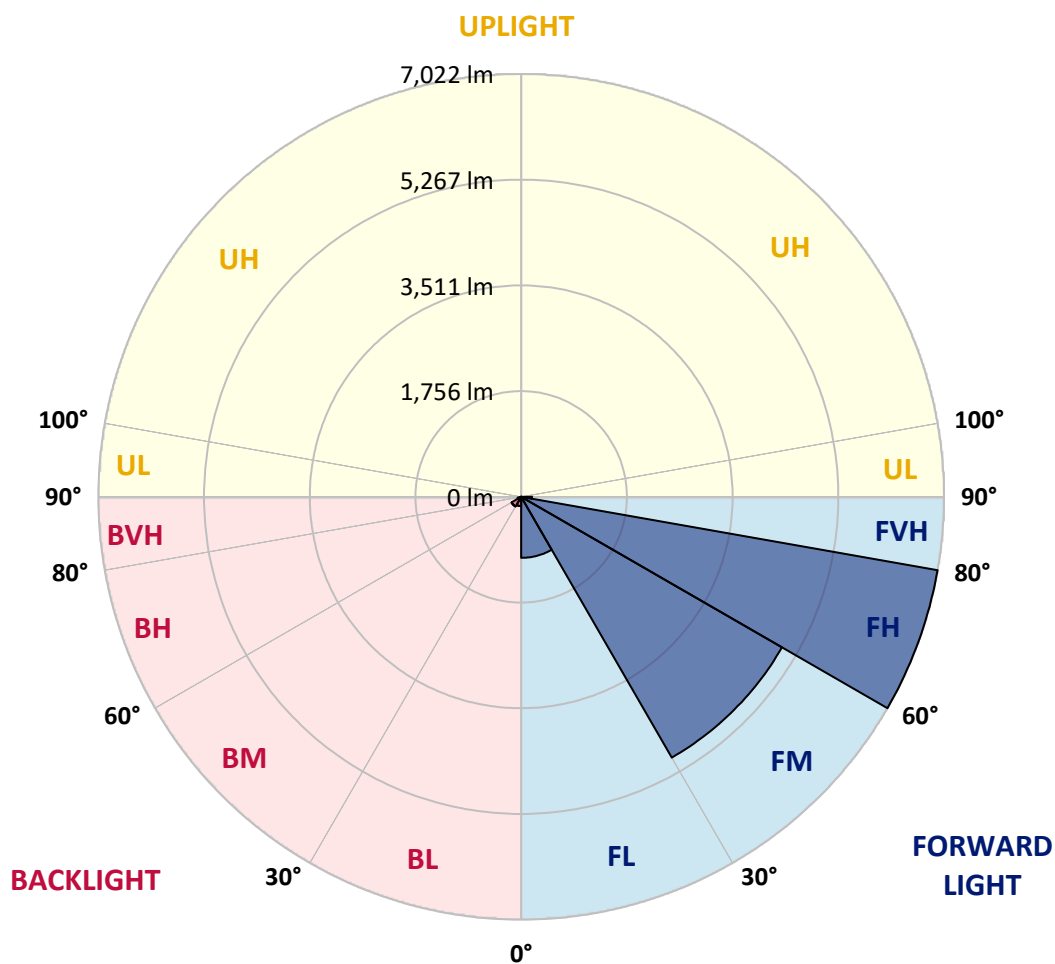
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1013.9	7.4			
FM	(30°-60°)	5001.7	36.7			
FH	(60°-80°)	7022.0	51.5			G3/7500
FVH	(80°-90°)	181.0	1.3			G2/225
BL	(0°-30°)	154.3	1.1	B1/500		
BM	(30°-60°)	185.2	1.4	B0/220		
BH	(60°-80°)	59.2	0.4	B0/110		G0/110
BVH	(80°-90°)	7.0	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°	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0
2.5°	1372.7	1356.9	1339.1	1339.1	1316.8	1316.8	1303.4	1267.8	1263.3	1243.1	1223.0
5°	1752.0	1738.6	1716.4	1696.2	1678.4	1647.1	1624.8	1582.3	1535.6	1490.9	1450.7
7.5°	2122.6	2115.8	2075.7	2068.9	2039.9	1988.7	1943.9	1881.5	1801.1	1738.6	1665.0
10°	2466.3	2450.6	2441.6	2403.7	2361.4	2305.5	2236.3	2160.5	2066.7	1968.5	1863.6
12.5°	2738.6	2729.6	2689.4	2673.8	2629.2	2573.3	2486.3	2388.1	2294.4	2167.2	2044.4
15°	2941.6	2926.0	2899.2	2874.6	2821.1	2772.0	2691.7	2584.5	2470.8	2332.4	2185.0
17.5°	3111.3	3082.3	3075.5	3037.5	2981.8	2923.7	2834.5	2736.3	2602.4	2464.0	2303.2
20°	3338.8	3298.7	3285.3	3229.5	3164.8	3084.4	2981.8	2859.0	2718.4	2566.7	2401.5
22.5°	3606.6	3577.6	3548.6	3499.6	3417.0	3303.2	3153.7	3019.8	2841.2	2673.8	2495.3
25°	3986.1	3961.6	3914.7	3847.8	3745.0	3608.9	3428.1	3231.8	3022.0	2807.7	2597.9
27.5°	4354.4	4332.0	4298.5	4247.3	4131.2	3981.7	3758.4	3508.5	3242.9	2984.0	2751.8
30°	4700.4	4680.2	4646.7	4595.5	4492.8	4345.4	4093.2	3825.4	3495.1	3193.8	2914.9
32.5°	5073.1	5066.3	5028.4	4954.8	4865.5	4666.9	4392.3	4104.5	3769.7	3421.5	3095.6
35°	5494.9	5443.5	5407.9	5334.1	5182.5	4970.4	4649.0	4334.3	3981.7	3624.5	3260.8
37.5°	5852.0	5802.9	5758.2	5664.6	5479.3	5209.2	4845.4	4499.4	4135.6	3771.9	3401.3
40°	6113.0	6088.5	6035.0	5912.2	5704.7	5383.3	4990.4	4613.2	4247.3	3881.2	3515.2
42.5°	6307.3	6269.3	6209.1	6081.9	5836.4	5470.3	5048.4	4660.1	4298.5	3948.2	3588.9
45°	6378.7	6347.5	6291.7	6153.3	5887.6	5494.9	5046.3	4646.7	4300.8	3968.2	3638.0
47.5°	6336.3	6305.1	6255.9	6126.5	5865.4	5465.9	5006.1	4608.8	4278.5	3975.0	3682.5
50°	6195.7	6177.8	6139.9	6030.5	5796.2	5410.0	4970.4	4588.7	4274.0	4008.5	3745.0
52.5°	6182.3	6171.2	6124.3	6014.9	5776.1	5392.1	4965.9	4600.0	4312.0	4050.9	3789.7
55°	7554.8	7396.4	7041.6	6740.3	6244.8	5655.6	5191.3	4780.6	4472.7	4218.3	4035.2
57.5°	10737.5	10501.0	10034.5	9461.0	8322.6	7204.5	6309.6	5662.3	5343.1	5227.1	5296.2
60°	12228.4	12186.1	12112.4	11840.1	11257.6	10295.7	9224.3	8066.1	7601.7	7561.6	7702.2
62.5°	12936.0	12909.2	12931.5	12898.0	12717.2	12436.0	12128.0	11628.1	11168.3	10871.4	10242.0
65°	13261.8	13279.7	13406.8	13507.3	13529.6	13603.2	13828.7	14451.4	14906.6	14141.1	12393.6
67.5°	12433.7	12538.6	12831.1	13197.0	13625.6	14040.7	14710.2	16022.6	16957.8	16058.4	13576.5
69°	10293.4	10344.8	11058.9	11748.6	12795.3	13527.5	14498.3	16219.0	17270.3	16254.8	13482.7
70°	8103.9	8150.8	8916.4	9853.7	11623.6	12565.5	13835.4	15886.5	16977.8	15993.6	13000.6
72.5°	3655.8	3588.9	3858.9	4361.0	6284.9	7780.4	10001.0	12871.2	14007.2	12813.2	9726.5
75°	2553.3	2524.3	2553.3	2555.5	2854.6	3682.5	4646.7	6976.8	8628.4	7445.6	4646.7
77.5°	1977.4	1957.4	1937.3	1914.9	1950.7	2185.0	2278.7	2475.1	3213.9	3039.8	1772.1
80°	1564.6	1546.7	1595.8	1580.2	1580.2	1607.0	1589.1	1515.4	1377.0	1276.6	1142.7
82.5°	727.5	732.0	732.0	794.5	957.5	1118.1	1169.5	1095.9	973.1	828.0	667.4
85°	69.1	78.1	131.7	203.2	404.0	455.3	457.6	379.4	379.4	299.1	241.0
87.5°	0.0	2.2	2.2	2.2	20.1	55.8	46.9	13.4	6.6	6.6	11.1
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0
2.5°	1187.4	1180.6	1153.9	1127.1	1102.6	1075.7	1051.2	1026.7	999.8	979.8	955.2
5°	1388.3	1339.1	1283.4	1229.8	1176.1	1120.4	1062.4	1011.1	957.5	908.3	861.4
7.5°	1591.3	1495.3	1419.4	1323.5	1236.5	1149.4	1069.1	986.5	910.6	839.2	772.3
10°	1763.1	1647.1	1528.8	1406.1	1281.0	1165.0	1053.5	955.2	854.8	767.8	685.3
12.5°	1903.8	1756.5	1611.5	1457.4	1316.8	1169.5	1031.1	912.8	794.5	696.4	611.5
15°	2030.9	1861.4	1687.2	1508.7	1330.2	1162.9	1008.8	861.4	741.0	629.4	533.5
17.5°	2133.7	1939.5	1743.1	1542.2	1350.3	1153.9	979.8	825.8	685.3	569.1	475.4
20°	2223.0	2019.8	1807.9	1582.3	1363.7	1151.6	955.2	781.2	636.1	513.4	421.8
22.5°	2305.5	2102.4	1874.8	1633.7	1383.8	1149.4	932.9	747.7	593.6	471.0	379.4
25°	2399.3	2185.0	1946.2	1687.2	1419.4	1158.4	919.6	720.9	555.7	430.7	345.9
27.5°	2504.2	2278.7	2030.9	1754.2	1466.3	1176.1	915.1	691.9	522.2	392.8	319.2
30°	2651.4	2390.4	2115.8	1821.1	1508.7	1196.3	910.6	674.0	488.7	363.8	292.3
32.5°	2781.0	2499.8	2209.6	1890.4	1555.6	1216.4	908.3	649.5	457.6	334.8	272.3
35°	2917.1	2600.2	2290.0	1957.4	1595.8	1238.6	906.2	631.6	428.6	305.8	252.2
37.5°	3035.4	2684.9	2352.4	2015.4	1640.5	1258.8	908.3	616.0	401.7	281.2	234.3
40°	3135.8	2772.0	2421.6	2068.9	1687.2	1290.0	910.6	600.4	375.0	258.9	218.7
42.5°	3225.1	2854.6	2495.3	2129.2	1740.9	1325.8	924.1	587.0	352.7	238.8	203.2
45°	3294.2	2930.5	2575.5	2214.1	1827.9	1383.8	948.6	578.0	330.3	220.9	189.7
47.5°	3365.7	3042.0	2711.7	2348.0	1955.2	1475.3	991.0	575.9	312.4	207.5	178.5
50°	3463.9	3153.7	2832.2	2484.0	2071.2	1569.1	1042.2	578.0	290.2	194.2	167.4
52.5°	3535.4	3267.4	2988.5	2720.7	2348.0	1854.6	1240.9	618.2	278.9	183.0	154.0
55°	3957.1	3910.2	3916.9	3961.6	3673.7	3155.9	2075.7	892.7	328.1	207.5	151.8
57.5°	5579.7	5744.8	5840.8	5838.6	5363.1	4448.2	2787.6	1147.1	366.1	241.0	180.8
60°	7713.4	7588.4	7412.1	6976.8	6345.2	5077.6	3117.9	1234.3	316.9	191.9	165.2
62.5°	9599.3	8867.2	8217.7	7512.5	6684.4	5296.2	3184.9	1227.5	276.8	145.0	116.0
65°	10775.5	9458.6	8409.8	7525.8	6550.5	5113.2	3013.0	1127.1	234.3	118.3	96.0
67.5°	11056.7	9139.5	7655.4	6528.2	5472.5	3979.5	2211.7	848.2	183.0	98.3	84.8
69°	10442.9	8124.1	6343.0	5064.2	3981.7	2640.3	1368.2	535.6	140.5	89.3	78.1
70°	9606.0	7066.1	5166.8	4064.2	2948.4	1854.6	957.5	377.2	113.8	82.5	71.4
72.5°	6180.1	3711.5	2539.9	1767.6	1216.4	738.8	375.0	169.7	87.0	69.1	58.0
75°	2397.0	1372.7	995.5	756.5	591.5	410.7	227.7	109.4	73.6	58.0	44.6
77.5°	1180.6	903.9	738.8	506.6	294.6	183.0	122.8	84.8	60.3	42.4	29.0
80°	932.9	620.5	370.5	229.9	174.0	131.7	93.8	69.1	44.6	26.8	20.1
82.5°	477.6	261.2	191.9	156.3	129.4	102.7	75.9	49.1	29.0	17.9	15.6
85°	149.5	109.4	98.3	96.0	89.3	73.6	53.5	31.3	17.9	11.1	11.1
87.5°	11.1	15.6	20.1	15.6	17.9	15.6	20.1	13.4	8.9	8.9	6.6
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0
2.5°	937.3	910.6	886.1	870.4	841.4	830.3	819.2	814.7	794.5	799.0	781.2
5°	819.2	772.3	736.5	700.8	667.4	642.8	622.6	598.1	578.0	569.1	551.2
7.5°	712.0	651.8	604.9	566.9	526.7	495.5	468.7	450.8	433.0	415.1	406.2
10°	618.2	553.5	500.0	462.0	424.1	397.2	377.2	363.8	352.7	345.9	343.7
12.5°	531.2	468.7	419.6	386.1	357.1	343.7	334.8	328.1	325.8	323.7	323.7
15°	464.2	401.7	363.8	339.2	325.8	319.2	316.9	312.4	308.1	305.8	305.8
17.5°	401.7	354.8	328.1	314.7	308.1	303.6	299.1	294.6	290.2	287.9	287.9
20°	359.3	321.3	308.1	299.1	292.3	287.9	281.2	276.8	274.6	272.3	270.1
22.5°	325.8	301.3	292.3	285.7	276.8	270.1	265.6	261.2	256.7	254.4	252.2
25°	301.3	285.7	278.9	270.1	261.2	254.4	247.8	241.0	236.6	234.3	229.9
27.5°	283.4	272.3	263.3	252.2	243.3	236.6	229.9	223.2	218.7	214.3	212.0
30°	267.8	256.7	245.4	236.6	225.4	218.7	209.8	203.2	200.9	196.4	191.9
32.5°	252.2	241.0	229.9	218.7	207.5	198.7	194.2	185.3	180.8	178.5	174.0
35°	234.3	223.2	209.8	200.9	189.7	180.8	174.0	167.4	162.9	158.4	156.3
37.5°	218.7	205.3	191.9	180.8	171.9	162.9	156.3	149.5	145.0	140.5	138.4
40°	200.9	187.4	174.0	162.9	154.0	147.3	140.5	133.9	129.4	127.3	127.3
42.5°	185.3	169.7	156.3	147.3	140.5	131.7	125.0	118.3	116.0	113.8	116.0
45°	169.7	154.0	142.9	133.9	127.3	118.3	111.5	107.1	104.9	107.1	109.4
47.5°	156.3	140.5	129.4	122.8	116.0	109.4	102.7	98.3	98.3	102.7	107.1
50°	142.9	127.3	118.3	113.8	107.1	100.4	91.5	89.3	91.5	96.0	100.4
52.5°	129.4	111.5	104.9	102.7	96.0	89.3	82.5	80.4	82.5	87.0	84.8
55°	116.0	98.3	96.0	93.8	87.0	78.1	71.4	71.4	71.4	69.1	64.8
57.5°	111.5	87.0	84.8	82.5	75.9	67.0	62.5	58.0	55.8	49.1	46.9
60°	116.0	78.1	78.1	73.6	67.0	58.0	51.4	44.6	40.1	35.6	35.6
62.5°	93.8	71.4	69.1	64.8	55.8	46.9	40.1	33.5	31.3	29.0	29.0
65°	75.9	64.8	60.3	53.5	46.9	37.9	31.3	26.8	24.5	24.5	26.8
67.5°	69.1	58.0	51.4	44.6	37.9	29.0	24.5	22.4	22.4	24.5	24.5
69°	64.8	53.5	46.9	40.1	33.5	26.8	22.4	22.4	22.4	22.4	24.5
70°	60.3	51.4	44.6	37.9	29.0	22.4	20.1	20.1	22.4	22.4	24.5
72.5°	46.9	40.1	37.9	31.3	22.4	20.1	17.9	20.1	20.1	22.4	22.4
75°	35.6	29.0	29.0	24.5	17.9	15.6	15.6	17.9	17.9	20.1	20.1
77.5°	24.5	20.1	20.1	17.9	15.6	13.4	13.4	15.6	17.9	17.9	20.1
80°	17.9	15.6	13.4	15.6	13.4	11.1	13.4	15.6	15.6	17.9	17.9
82.5°	13.4	13.4	13.4	13.4	11.1	11.1	13.4	13.4	15.6	17.9	17.9
85°	11.1	11.1	11.1	11.1	11.1	11.1	11.1	13.4	13.4	15.6	15.6
87.5°	6.6	6.6	6.6	8.9	8.9	11.1	11.1	11.1	11.1	13.4	13.4
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):

	165°	170°	175°	180°
0°	1029.0	1029.0	1029.0	1029.0
2.5°	776.7	774.4	765.5	767.8
5°	544.6	531.2	540.1	537.9
7.5°	399.5	397.2	395.1	399.5
10°	341.5	341.5	339.2	341.5
12.5°	321.3	321.3	321.3	321.3
15°	305.8	305.8	303.6	303.6
17.5°	287.9	287.9	287.9	285.7
20°	270.1	267.8	267.8	267.8
22.5°	249.9	247.8	247.8	247.8
25°	229.9	227.7	227.7	227.7
27.5°	209.8	207.5	205.3	205.3
30°	189.7	187.4	185.3	185.3
32.5°	169.7	167.4	165.2	165.2
35°	151.8	151.8	149.5	147.3
37.5°	136.2	136.2	136.2	136.2
40°	125.0	127.3	127.3	127.3
42.5°	118.3	120.5	122.8	125.0
45°	113.8	118.3	120.5	120.5
47.5°	111.5	113.8	116.0	116.0
50°	102.7	100.4	100.4	100.4
52.5°	82.5	78.1	75.9	73.6
55°	60.3	58.0	53.5	53.5
57.5°	42.4	42.4	40.1	40.1
60°	33.5	33.5	31.3	33.5
62.5°	29.0	29.0	29.0	29.0
65°	26.8	26.8	26.8	26.8
67.5°	26.8	26.8	26.8	26.8
69°	24.5	24.5	24.5	24.5
70°	24.5	24.5	24.5	24.5
72.5°	22.4	22.4	22.4	22.4
75°	20.1	22.4	22.4	22.4
77.5°	20.1	20.1	20.1	20.1
80°	17.9	17.9	20.1	20.1
82.5°	17.9	17.9	17.9	17.9
85°	15.6	15.6	17.9	17.9
87.5°	13.4	13.4	15.6	15.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)