

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: P165506

Luminaire Tested: **VST-E07-LED-E-U-SL4-HSS-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165506
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-E07-LED-E-U-SL4-HSS-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (147) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12854 lumens
Efficiency: N/A
Efficacy: 74.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 172.5
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

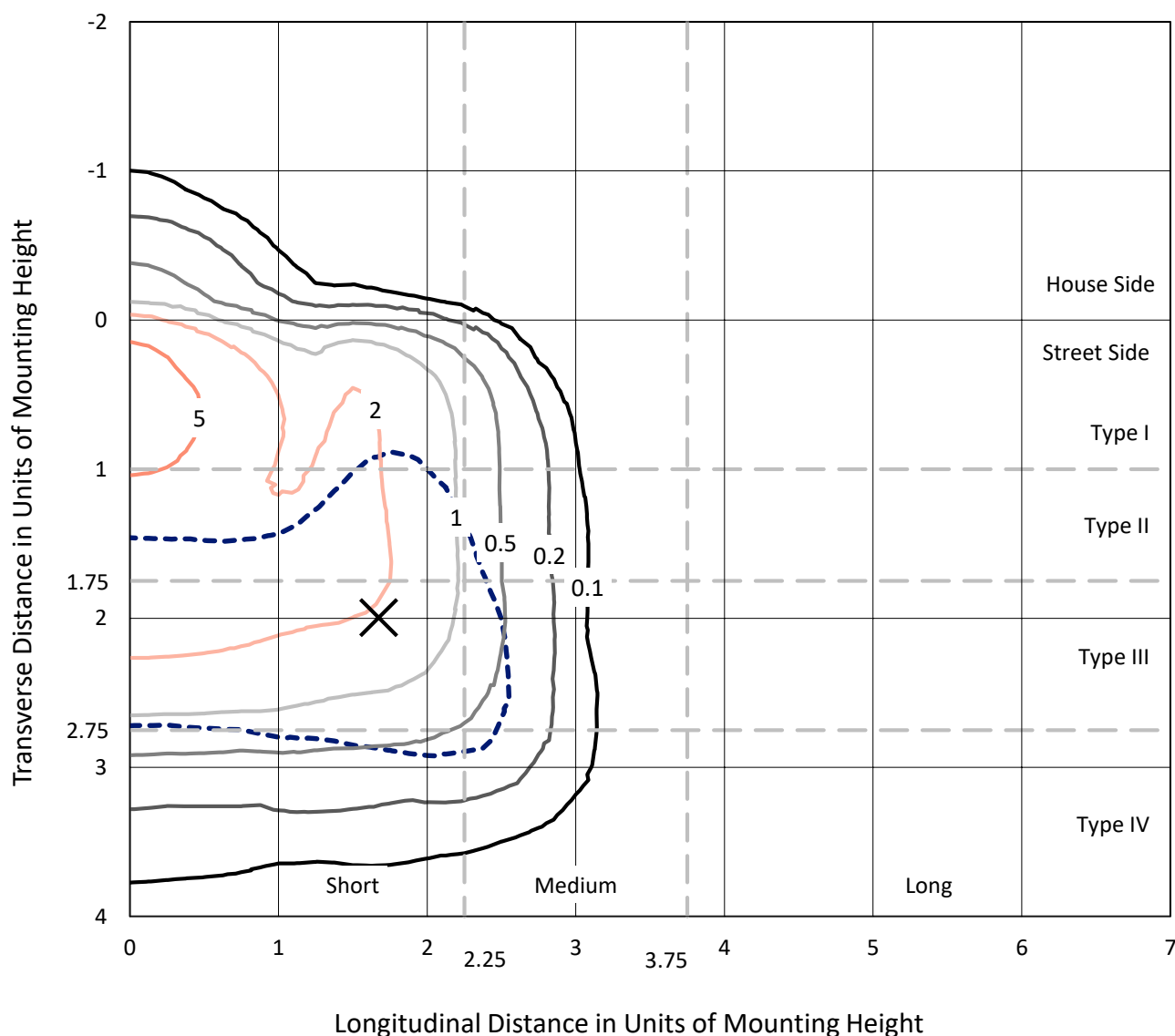


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

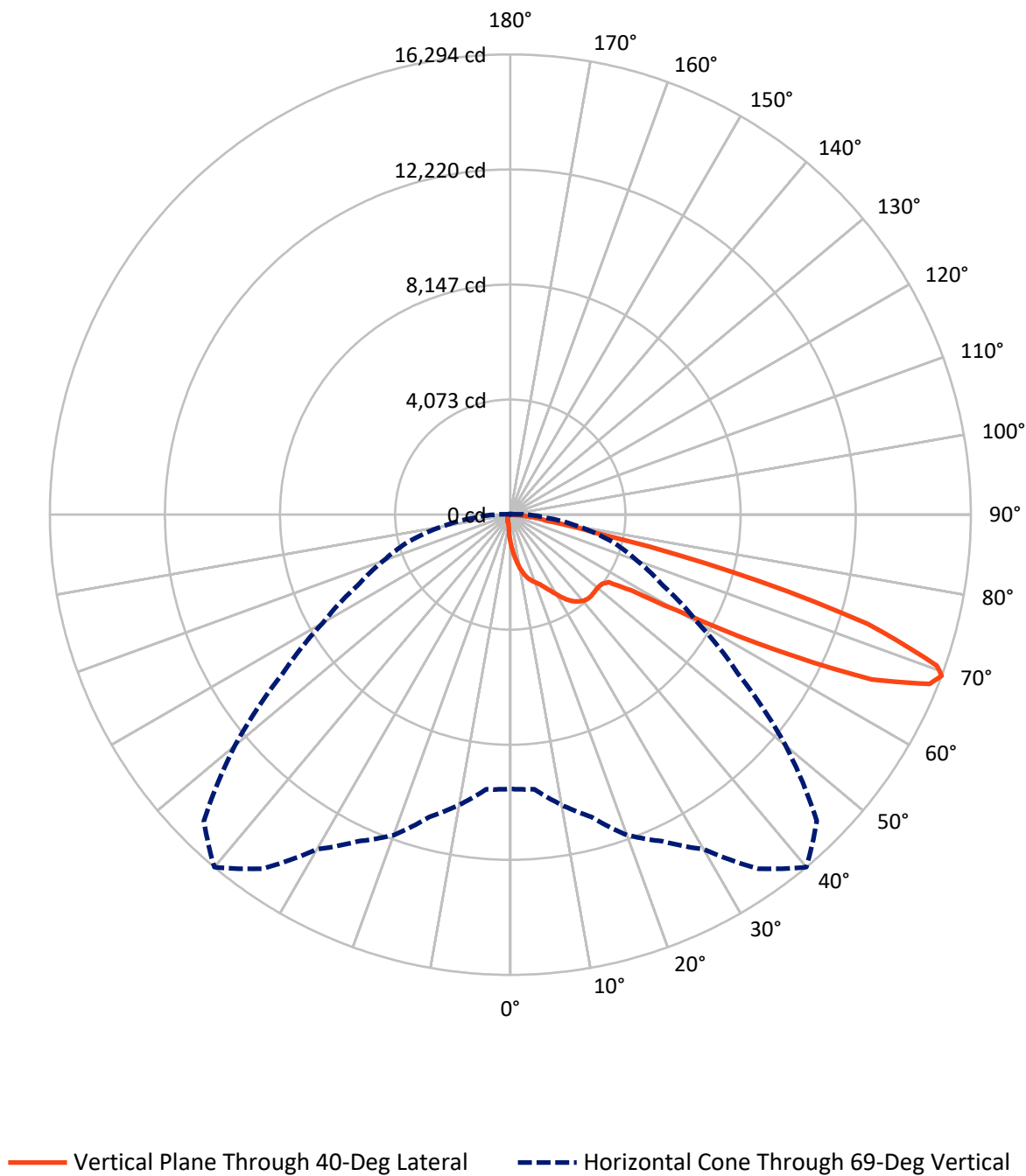


Based on 20 foot mounting height. Maximum calculated value = 7.2 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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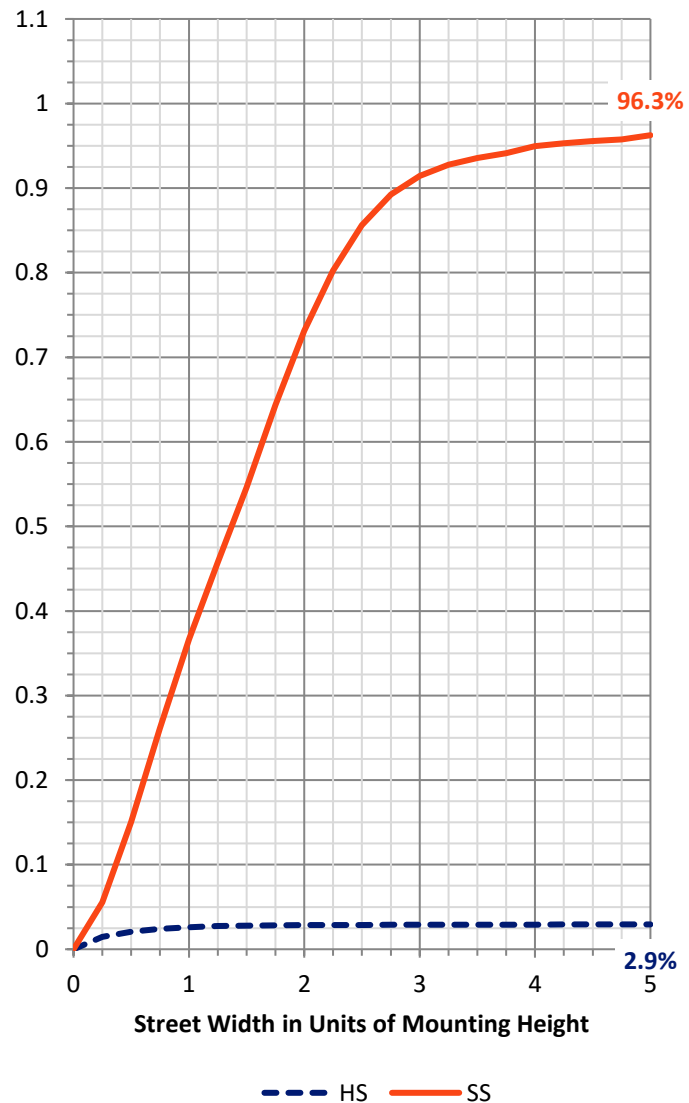
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	382.8	0.0	382.8
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	12471.2	0.0	12471.2
	% Fixture	97.0	0.0	97.0
Total	Lumens	12854.0	0.0	12854.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.8	0.8
10°-20°	344.0	2.7
20°-30°	658.4	5.1
30°-40°	1094.9	8.5
40°-50°	1481.6	11.5
50°-60°	2317.1	18.0
60°-70°	4763.9	37.1
70°-80°	1916.9	14.9
80°-90°	177.3	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°	12854.0	100.0
0°-180°	12854.0	100.0

Coefficient of Utilization



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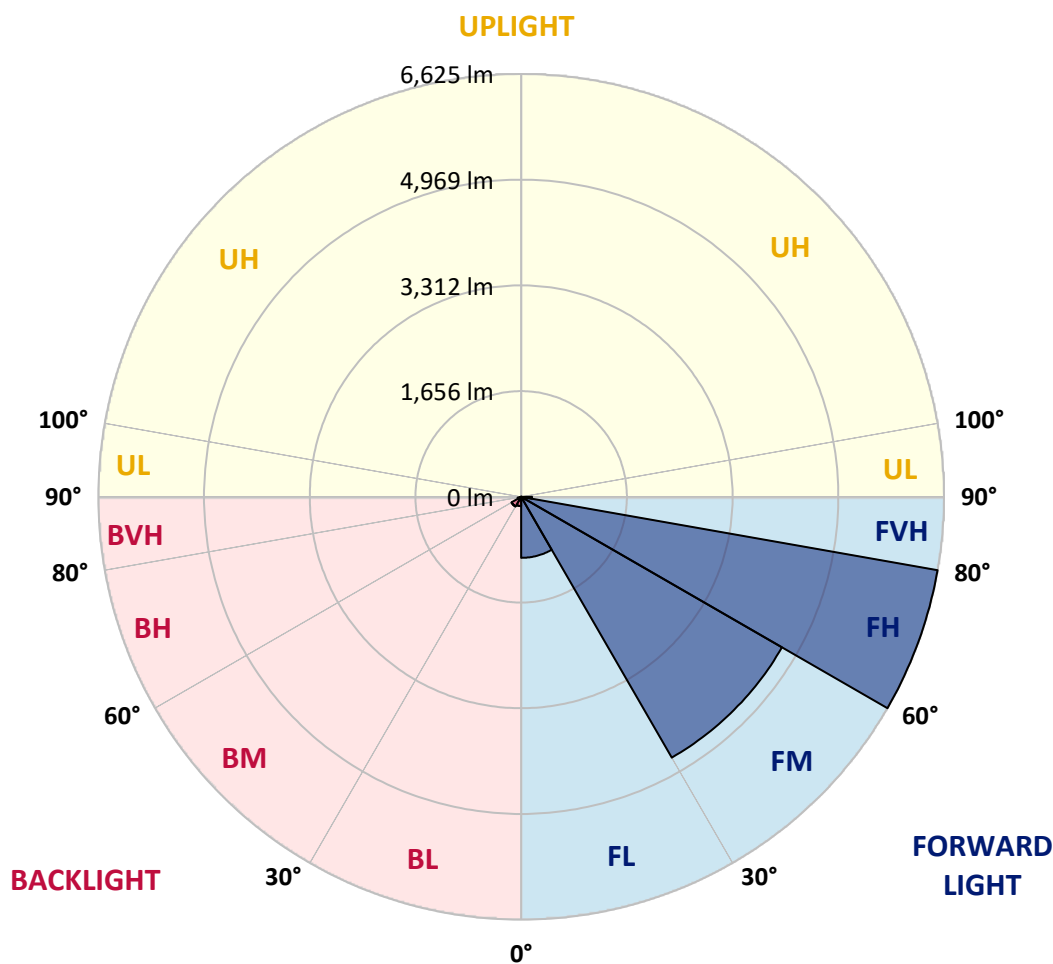
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	956.6	7.4			
FM	(30°-60°)	4718.9	36.7			
FH	(60°-80°)	6625.0	51.5			G3/7500
FVH	(80°-90°)	170.7	1.3			G2/225
BL	(0°-30°)	145.6	1.1	B1/500		
BM	(30°-60°)	174.8	1.4	B0/220		
BH	(60°-80°)	55.8	0.4	B0/110		G0/110
BVH	(80°-90°)	6.6	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°	970.8	970.8	970.8	970.8	970.8	970.8	970.8	970.8	970.8	970.8	970.8
2.5°	1295.1	1280.2	1263.3	1263.3	1242.4	1242.4	1229.7	1196.1	1191.9	1172.8	1153.9
5°	1653.0	1640.3	1619.3	1600.3	1583.5	1554.0	1532.9	1492.9	1448.8	1406.6	1368.7
7.5°	2002.6	1996.2	1958.3	1951.9	1924.6	1876.2	1834.0	1775.1	1699.3	1640.3	1570.9
10°	2326.8	2312.0	2303.6	2267.8	2227.9	2175.2	2109.8	2038.4	1949.9	1857.2	1758.2
12.5°	2583.7	2575.3	2537.3	2522.6	2480.5	2427.8	2345.8	2253.1	2164.7	2044.6	1928.8
15°	2775.3	2760.6	2735.2	2712.1	2661.6	2615.3	2539.5	2438.3	2331.1	2200.5	2061.5
17.5°	2935.4	2908.0	2901.6	2865.8	2813.2	2758.4	2674.3	2581.5	2455.2	2324.7	2173.0
20°	3150.1	3112.2	3099.5	3046.9	2985.9	2910.0	2813.2	2697.4	2564.7	2421.6	2265.7
22.5°	3402.7	3375.4	3348.0	3301.7	3223.8	3116.4	2975.4	2849.1	2680.5	2522.6	2354.2
25°	3760.8	3737.6	3693.4	3630.2	3533.3	3404.9	3234.3	3049.0	2851.1	2648.9	2451.0
27.5°	4108.2	4087.1	4055.5	4007.2	3897.6	3756.5	3545.9	3310.1	3059.5	2815.3	2596.3
30°	4434.6	4415.6	4384.0	4335.7	4238.7	4099.7	3861.8	3609.1	3297.5	3013.2	2750.1
32.5°	4786.3	4779.9	4744.1	4674.6	4590.4	4403.0	4144.0	3872.4	3556.5	3228.1	2920.5
35°	5184.2	5135.7	5102.1	5032.5	4889.5	4689.3	4386.2	4089.3	3756.5	3419.6	3076.4
37.5°	5521.1	5474.8	5432.6	5344.3	5169.5	4914.6	4571.4	4245.0	3901.8	3558.6	3209.0
40°	5767.4	5744.3	5693.8	5577.9	5382.1	5079.0	4708.3	4352.4	4007.2	3661.8	3316.4
42.5°	5950.6	5914.8	5858.1	5738.0	5506.4	5161.1	4763.0	4396.6	4055.5	3725.0	3386.0
45°	6018.0	5988.6	5935.9	5805.4	5554.8	5184.2	4760.9	4384.0	4057.7	3743.9	3432.3
47.5°	5978.0	5948.6	5902.2	5780.1	5533.8	5156.8	4723.1	4348.2	4036.6	3750.3	3474.3
50°	5845.4	5828.5	5792.7	5689.5	5468.4	5104.1	4689.3	4329.3	4032.4	3781.9	3533.3
52.5°	5832.7	5822.3	5778.0	5674.8	5449.5	5087.3	4685.1	4339.9	4068.2	3821.9	3575.5
55°	7127.7	6978.2	6643.4	6359.2	5891.7	5335.8	4897.8	4510.3	4219.8	3979.8	3807.0
57.5°	10130.4	9907.3	9467.2	8926.0	7852.1	6797.1	5952.8	5342.1	5041.0	4931.5	4996.7
60°	11537.0	11497.1	11427.5	11170.6	10621.1	9713.6	8702.8	7610.0	7171.9	7134.1	7266.7
62.5°	12204.6	12179.3	12200.4	12168.8	11998.2	11732.9	11442.2	10970.7	10536.8	10256.8	9662.9
65°	12512.0	12528.9	12648.8	12743.6	12764.7	12834.1	13046.9	13634.3	14063.8	13341.6	11692.9
67.5°	11730.7	11829.7	12105.6	12450.9	12855.2	13246.8	13878.5	15116.7	15999.0	15150.4	12808.9
69°	9711.4	9759.9	10433.6	11084.3	12071.9	12762.6	13678.5	15302.0	16293.8	15335.7	12720.4
70°	7645.7	7689.9	8412.2	9296.6	10966.4	11855.0	13053.1	14988.3	16017.9	15089.3	12265.6
72.5°	3449.1	3386.0	3640.7	4114.4	5929.5	7340.5	9435.6	12143.5	13215.3	12088.7	9176.5
75°	2408.9	2381.6	2408.9	2411.0	2693.2	3474.3	4384.0	6582.3	8140.5	7024.6	4384.0
77.5°	1865.6	1846.7	1827.8	1806.7	1840.4	2061.5	2149.9	2335.1	3032.2	2868.0	1671.9
80°	1476.1	1459.2	1505.5	1490.8	1490.8	1516.1	1499.3	1429.7	1299.1	1204.4	1078.1
82.5°	686.4	690.6	690.6	749.6	903.4	1054.9	1103.4	1033.9	918.1	781.2	629.6
85°	65.2	73.7	124.3	191.7	381.2	429.5	431.7	357.9	357.9	282.2	227.4
87.5°	0.0	2.0	2.0	2.0	18.9	52.7	44.2	12.7	6.3	6.3	10.5
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	970.8	970.8	970.8	970.8	970.8	970.8	970.8	970.8	970.8	970.8	970.8
2.5°	1120.3	1113.9	1088.7	1063.4	1040.2	1014.9	991.8	968.6	943.3	924.4	901.2
5°	1309.8	1263.3	1210.8	1160.3	1109.6	1057.1	1002.4	953.9	903.4	857.0	812.7
7.5°	1501.3	1410.8	1339.2	1248.6	1166.5	1084.5	1008.6	930.8	859.2	791.8	728.6
10°	1663.4	1554.0	1442.4	1326.6	1208.6	1099.2	993.9	901.2	806.5	724.4	646.5
12.5°	1796.2	1657.2	1520.4	1375.0	1242.4	1103.4	972.8	861.2	749.6	657.0	576.9
15°	1916.1	1756.2	1591.8	1423.4	1255.0	1097.1	951.7	812.7	699.1	593.8	503.3
17.5°	2013.0	1829.8	1644.5	1455.0	1274.0	1088.7	924.4	779.1	646.5	536.9	448.6
20°	2097.3	1905.6	1705.6	1492.9	1286.6	1086.5	901.2	737.0	600.1	484.4	397.9
22.5°	2175.2	1983.5	1768.8	1541.3	1305.5	1084.5	880.1	705.5	560.1	444.3	357.9
25°	2263.7	2061.5	1836.2	1591.8	1339.2	1092.9	867.6	680.1	524.3	406.4	326.3
27.5°	2362.6	2149.9	1916.1	1655.0	1383.4	1109.6	863.4	652.8	492.7	370.6	301.1
30°	2501.5	2255.2	1996.2	1718.2	1423.4	1128.7	859.2	635.9	461.1	343.2	275.8
32.5°	2623.7	2358.4	2084.6	1783.5	1467.7	1147.6	857.0	612.7	431.7	315.8	256.9
35°	2752.1	2453.2	2160.5	1846.7	1505.5	1168.6	854.9	595.9	404.3	288.5	238.0
37.5°	2863.8	2533.1	2219.4	1901.4	1547.7	1187.6	857.0	581.2	379.0	265.3	221.1
40°	2958.5	2615.3	2284.6	1951.9	1591.8	1217.1	859.2	566.5	353.8	244.2	206.4
42.5°	3042.8	2693.2	2354.2	2008.8	1642.5	1250.8	871.8	553.8	332.7	225.3	191.7
45°	3108.0	2764.8	2429.9	2088.9	1724.6	1305.5	895.0	545.4	311.6	208.4	179.0
47.5°	3175.4	2870.0	2558.4	2215.2	1844.6	1391.9	935.0	543.3	294.7	195.8	168.4
50°	3268.1	2975.4	2672.1	2343.6	1954.1	1480.3	983.3	545.4	273.8	183.2	157.9
52.5°	3335.5	3082.7	2819.5	2566.8	2215.2	1749.8	1170.8	583.2	263.2	172.6	145.3
55°	3733.4	3689.1	3695.4	3737.6	3466.0	2977.4	1958.3	842.3	309.6	195.8	143.2
57.5°	5264.2	5420.0	5510.5	5508.5	5059.9	4196.7	2630.0	1082.3	345.4	227.4	170.6
60°	7277.3	7159.4	6993.0	6582.3	5986.4	4790.5	2941.6	1164.5	299.0	181.1	155.9
62.5°	9056.6	8365.8	7753.1	7087.8	6306.5	4996.7	3004.8	1158.1	261.1	136.8	109.5
65°	10166.2	8923.9	7934.3	7100.3	6180.2	4824.1	2842.7	1063.4	221.1	111.6	90.5
67.5°	10431.6	8622.7	7222.6	6159.1	5163.1	3754.5	2086.7	800.2	172.6	92.7	80.0
69°	9852.4	7664.7	5984.4	4777.8	3756.5	2491.0	1290.8	505.3	132.6	84.3	73.7
70°	9062.8	6666.6	4874.6	3834.4	2781.7	1749.8	903.4	355.9	107.4	77.9	67.4
72.5°	5830.7	3501.7	2396.3	1667.7	1147.6	697.0	353.8	160.1	82.1	65.2	54.7
75°	2261.5	1295.1	939.2	713.8	558.0	387.4	214.8	103.2	69.4	54.7	42.1
77.5°	1113.9	852.8	697.0	478.0	278.0	172.6	115.8	80.0	56.9	40.0	27.4
80°	880.1	585.4	349.6	216.9	164.2	124.3	88.5	65.2	42.1	25.3	18.9
82.5°	450.6	246.4	181.1	147.4	122.1	96.9	71.6	46.3	27.4	16.9	14.7
85°	141.0	103.2	92.7	90.5	84.3	69.4	50.5	29.5	16.9	10.5	10.5
87.5°	10.5	14.7	18.9	14.7	16.9	14.7	18.9	12.7	8.4	8.4	6.3
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	970.8	970.8	970.8	970.8	970.8	970.8	970.8	970.8	970.8	970.8	970.8
2.5°	884.3	859.2	836.0	821.2	793.8	783.3	772.8	768.6	749.6	753.8	737.0
5°	772.8	728.6	694.8	661.2	629.6	606.5	587.4	564.3	545.4	536.9	520.0
7.5°	671.7	614.9	570.7	534.9	496.9	467.5	442.2	425.3	408.5	391.7	383.2
10°	583.2	522.2	471.7	435.9	400.1	374.8	355.9	343.2	332.7	326.3	324.3
12.5°	501.1	442.2	395.9	364.3	336.9	324.3	315.8	309.6	307.4	305.4	305.4
15°	438.0	379.0	343.2	320.1	307.4	301.1	299.0	294.7	290.6	288.5	288.5
17.5°	379.0	334.8	309.6	296.9	290.6	286.4	282.2	278.0	273.8	271.6	271.6
20°	339.0	303.2	290.6	282.2	275.8	271.6	265.3	261.1	259.1	256.9	254.8
22.5°	307.4	284.3	275.8	269.5	261.1	254.8	250.6	246.4	242.2	240.0	238.0
25°	284.3	269.5	263.2	254.8	246.4	240.0	233.7	227.4	223.3	221.1	216.9
27.5°	267.4	256.9	248.4	238.0	229.5	223.3	216.9	210.6	206.4	202.2	200.0
30°	252.7	242.2	231.6	223.3	212.6	206.4	197.9	191.7	189.5	185.3	181.1
32.5°	238.0	227.4	216.9	206.4	195.8	187.5	183.2	174.8	170.6	168.4	164.2
35°	221.1	210.6	197.9	189.5	179.0	170.6	164.2	157.9	153.7	149.5	147.4
37.5°	206.4	193.7	181.1	170.6	162.1	153.7	147.4	141.0	136.8	132.6	130.6
40°	189.5	176.8	164.2	153.7	145.3	139.0	132.6	126.3	122.1	120.1	120.1
42.5°	174.8	160.1	147.4	139.0	132.6	124.3	117.9	111.6	109.5	107.4	109.5
45°	160.1	145.3	134.8	126.3	120.1	111.6	105.2	101.0	99.0	101.0	103.2
47.5°	147.4	132.6	122.1	115.8	109.5	103.2	96.9	92.7	92.7	96.9	101.0
50°	134.8	120.1	111.6	107.4	101.0	94.8	86.3	84.3	86.3	90.5	94.8
52.5°	122.1	105.2	99.0	96.9	90.5	84.3	77.9	75.8	77.9	82.1	80.0
55°	109.5	92.7	90.5	88.5	82.1	73.7	67.4	67.4	67.4	65.2	61.1
57.5°	105.2	82.1	80.0	77.9	71.6	63.2	58.9	54.7	52.7	46.3	44.2
60°	109.5	73.7	73.7	69.4	63.2	54.7	48.5	42.1	37.8	33.6	33.6
62.5°	88.5	67.4	65.2	61.1	52.7	44.2	37.8	31.6	29.5	27.4	27.4
65°	71.6	61.1	56.9	50.5	44.2	35.8	29.5	25.3	23.1	23.1	25.3
67.5°	65.2	54.7	48.5	42.1	35.8	27.4	23.1	21.1	21.1	23.1	23.1
69°	61.1	50.5	44.2	37.8	31.6	25.3	21.1	21.1	21.1	21.1	23.1
70°	56.9	48.5	42.1	35.8	27.4	21.1	18.9	18.9	21.1	21.1	23.1
72.5°	44.2	37.8	35.8	29.5	21.1	18.9	16.9	18.9	18.9	21.1	21.1
75°	33.6	27.4	27.4	23.1	16.9	14.7	14.7	16.9	16.9	18.9	18.9
77.5°	23.1	18.9	18.9	16.9	14.7	12.7	12.7	14.7	16.9	16.9	18.9
80°	16.9	14.7	12.7	14.7	12.7	10.5	12.7	14.7	14.7	16.9	16.9
82.5°	12.7	12.7	12.7	12.7	10.5	10.5	12.7	12.7	14.7	16.9	16.9
85°	10.5	10.5	10.5	10.5	10.5	10.5	10.5	12.7	12.7	14.7	14.7
87.5°	6.3	6.3	6.3	8.4	8.4	10.5	10.5	10.5	10.5	12.7	12.7
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°	970.8	970.8	970.8	970.8
2.5°	732.8	730.6	722.2	724.4
5°	513.8	501.1	509.6	507.5
7.5°	377.0	374.8	372.7	377.0
10°	322.2	322.2	320.1	322.2
12.5°	303.2	303.2	303.2	303.2
15°	288.5	288.5	286.4	286.4
17.5°	271.6	271.6	271.6	269.5
20°	254.8	252.7	252.7	252.7
22.5°	235.8	233.7	233.7	233.7
25°	216.9	214.8	214.8	214.8
27.5°	197.9	195.8	193.7	193.7
30°	179.0	176.8	174.8	174.8
32.5°	160.1	157.9	155.9	155.9
35°	143.2	143.2	141.0	139.0
37.5°	128.5	128.5	128.5	128.5
40°	117.9	120.1	120.1	120.1
42.5°	111.6	113.7	115.8	117.9
45°	107.4	111.6	113.7	113.7
47.5°	105.2	107.4	109.5	109.5
50°	96.9	94.8	94.8	94.8
52.5°	77.9	73.7	71.6	69.4
55°	56.9	54.7	50.5	50.5
57.5°	40.0	40.0	37.8	37.8
60°	31.6	31.6	29.5	31.6
62.5°	27.4	27.4	27.4	27.4
65°	25.3	25.3	25.3	25.3
67.5°	25.3	25.3	25.3	25.3
69°	23.1	23.1	23.1	23.1
70°	23.1	23.1	23.1	23.1
72.5°	21.1	21.1	21.1	21.1
75°	18.9	21.1	21.1	21.1
77.5°	18.9	18.9	18.9	18.9
80°	16.9	16.9	18.9	18.9
82.5°	16.9	16.9	16.9	16.9
85°	14.7	14.7	16.9	16.9
87.5°	12.7	12.7	14.7	14.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)