

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: P165514

Luminaire Tested: **VST-F07-LED-E-U-SL4-HSS-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165514
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-F07-LED-E-U-SL4-HSS-7060
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (49) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11921.3 lumens
Efficiency: N/A
Efficacy: 66.0 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): 180.5
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

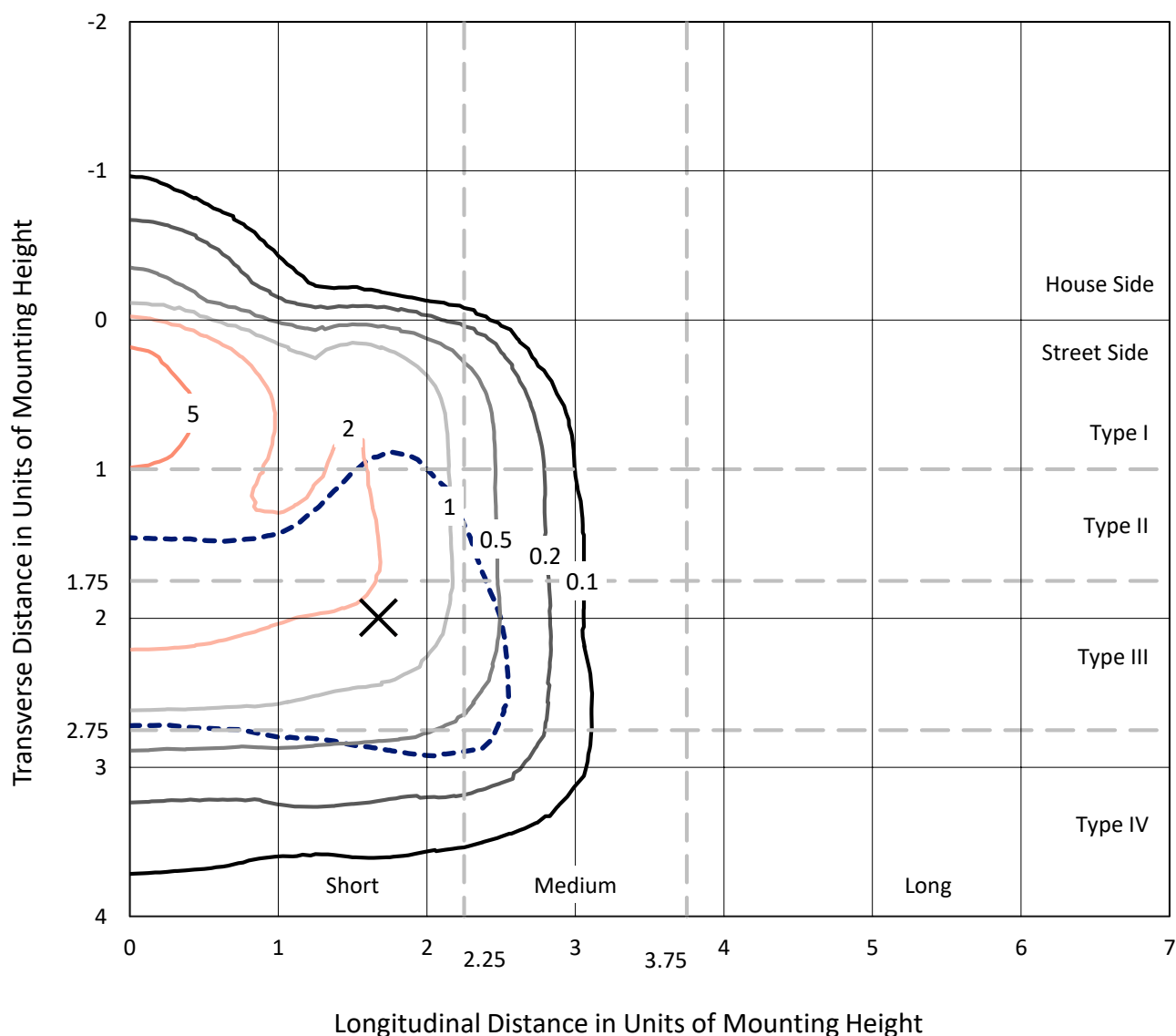


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

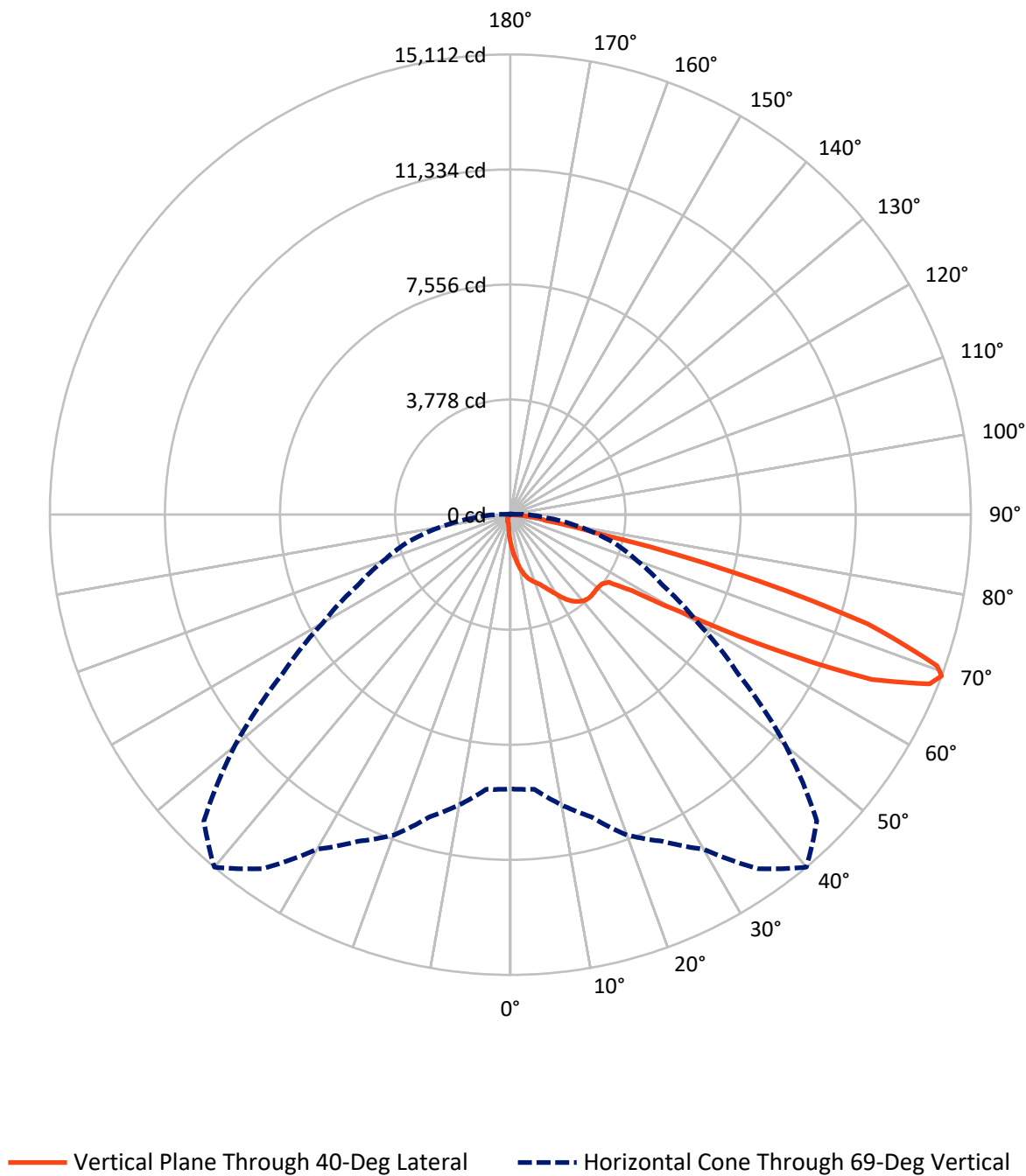


Based on 20 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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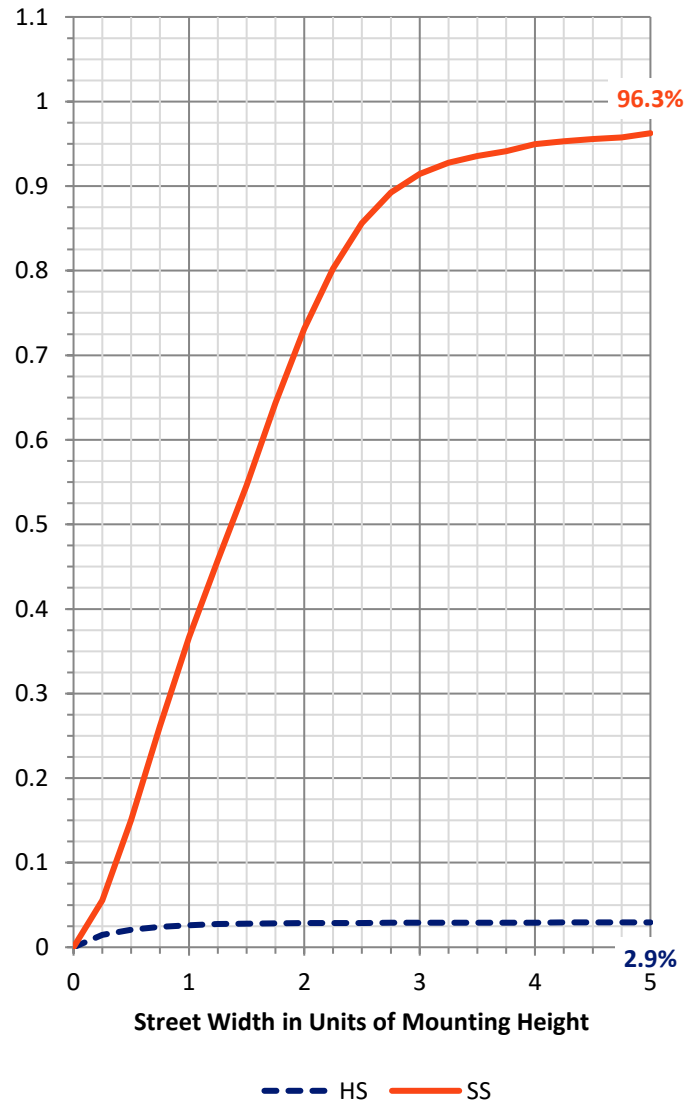
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	355.0	0.0	355.0
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	11566.3	0.0	11566.3
	% Fixture	97.0	0.0	97.0
Total	Lumens	11921.3	0.0	11921.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.5	0.8
10°-20°	319.0	2.7
20°-30°	610.6	5.1
30°-40°	1015.5	8.5
40°-50°	1374.1	11.5
50°-60°	2149.0	18.0
60°-70°	4418.2	37.1
70°-80°	1777.8	14.9
80°-90°	164.4	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°	11921.3	100.0
0°-180°	11921.3	100.0

Coefficient of Utilization



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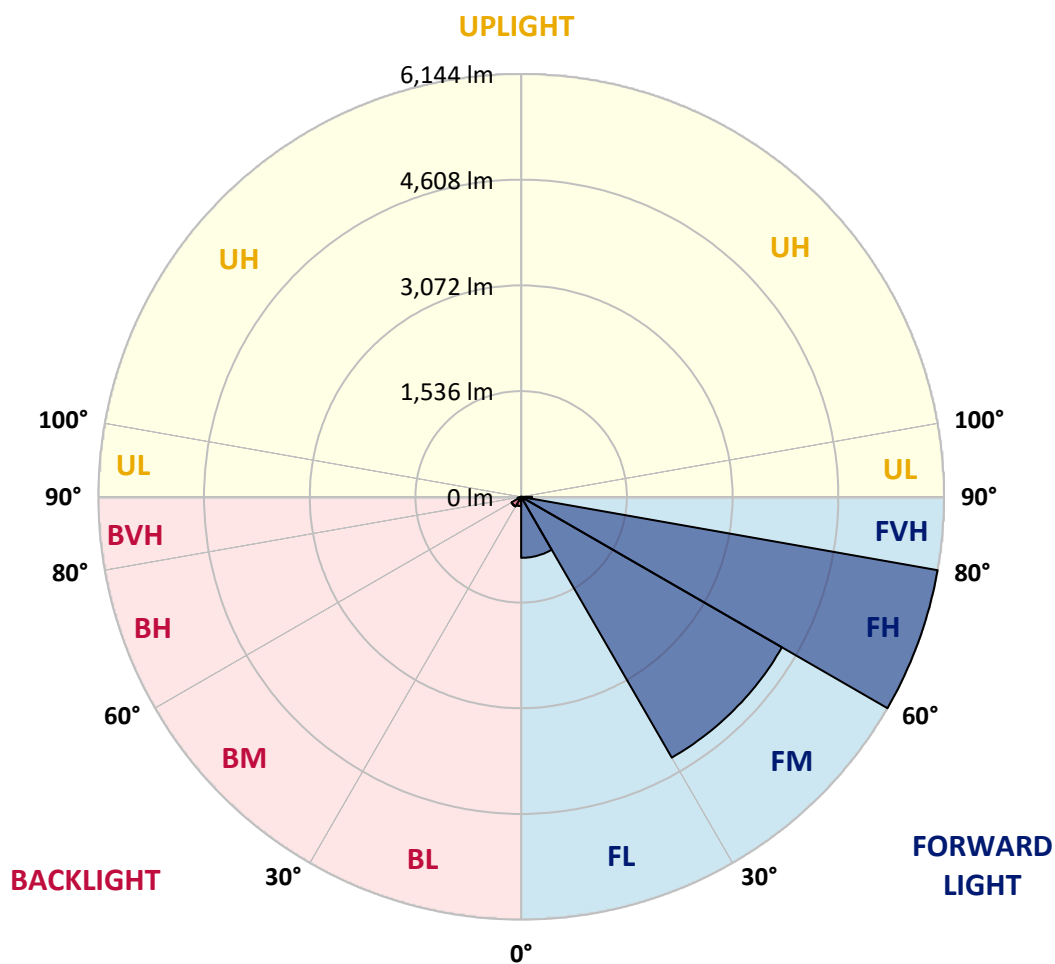
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	887.2	7.4			
FM	(30°-60°)	4376.5	36.7			
FH	(60°-80°)	6144.3	51.5			G3/7500
FVH	(80°-90°)	158.3	1.3			G2/225
BL	(0°-30°)	135.0	1.1	B1/500		
BM	(30°-60°)	162.1	1.4	B0/220		
BH	(60°-80°)	51.8	0.4	B0/110		G0/110
BVH	(80°-90°)	6.1	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°	900.3	900.3	900.3	900.3	900.3	900.3	900.3	900.3	900.3	900.3	900.3
2.5°	1201.1	1187.3	1171.7	1171.7	1152.2	1152.2	1140.5	1109.3	1105.4	1087.7	1070.2
5°	1533.0	1521.3	1501.8	1484.2	1468.6	1441.2	1421.7	1384.5	1343.6	1304.5	1269.4
7.5°	1857.2	1851.3	1816.2	1810.3	1784.9	1740.1	1700.9	1646.3	1576.0	1521.3	1456.9
10°	2158.0	2144.2	2136.4	2103.2	2066.2	2017.3	1956.7	1890.5	1808.4	1722.4	1630.6
12.5°	2396.2	2388.4	2353.2	2339.6	2300.5	2251.7	2175.5	2089.6	2007.6	1896.3	1788.8
15°	2573.9	2560.3	2536.8	2515.3	2468.5	2425.5	2355.2	2261.4	2161.9	2040.8	1911.9
17.5°	2722.4	2697.0	2691.1	2657.9	2609.1	2558.2	2480.2	2394.2	2277.1	2156.0	2015.3
20°	2921.5	2886.4	2874.6	2825.8	2769.2	2698.9	2609.1	2501.7	2378.6	2245.9	2101.3
22.5°	3155.8	3130.4	3105.1	3062.1	2989.9	2890.3	2759.5	2642.3	2486.0	2339.6	2183.4
25°	3487.9	3466.4	3425.4	3366.8	3276.9	3157.8	2999.6	2827.8	2644.2	2456.7	2273.1
27.5°	3810.1	3790.5	3761.2	3716.4	3614.8	3484.0	3288.6	3070.0	2837.5	2611.0	2407.9
30°	4112.8	4095.2	4065.9	4021.1	3931.2	3802.3	3581.6	3347.2	3058.2	2794.6	2550.5
32.5°	4439.0	4433.0	4399.8	4335.4	4257.3	4083.5	3843.3	3591.4	3298.5	2993.8	2708.6
35°	4808.0	4763.1	4731.9	4667.4	4534.7	4349.1	4067.9	3792.5	3484.0	3171.5	2853.2
37.5°	5120.5	5077.6	5038.4	4956.5	4794.4	4558.0	4239.7	3937.0	3618.7	3300.4	2976.1
40°	5348.9	5327.4	5280.6	5173.2	4991.6	4710.4	4366.6	4036.6	3716.4	3396.1	3075.8
42.5°	5518.9	5485.6	5433.0	5321.6	5106.9	4786.6	4417.4	4077.6	3761.2	3454.7	3140.3
45°	5581.3	5554.1	5505.2	5384.1	5151.7	4808.0	4415.5	4065.9	3763.2	3472.2	3183.2
47.5°	5544.2	5517.0	5473.9	5360.7	5132.2	4782.6	4380.4	4032.7	3743.7	3478.1	3222.2
50°	5421.3	5405.6	5372.4	5276.7	5071.6	4733.8	4349.1	4015.1	3739.8	3507.4	3276.9
52.5°	5409.5	5399.8	5358.8	5263.1	5054.1	4718.1	4345.2	4025.0	3773.0	3544.6	3316.0
55°	6610.5	6471.8	6161.4	5897.7	5464.2	4948.7	4542.4	4183.0	3913.6	3691.0	3530.8
57.5°	9395.3	9188.4	8780.2	8278.3	7282.3	6303.9	5520.9	4954.5	4675.2	4573.7	4634.2
60°	10699.8	10662.8	10598.3	10360.1	9850.4	9008.7	8071.3	7057.8	6651.5	6616.4	6739.4
62.5°	11319.0	11295.5	11315.1	11285.8	11127.6	10881.5	10612.0	10174.6	9772.2	9512.5	8961.8
65°	11604.1	11619.7	11731.0	11818.9	11838.4	11902.8	12100.2	12645.0	13043.3	12373.5	10844.4
67.5°	10879.5	10971.3	11227.2	11547.4	11922.4	12285.6	12871.5	14019.8	14838.1	14051.1	11879.5
69°	9006.7	9051.7	9676.5	10280.0	11195.9	11836.5	12686.0	14191.6	15111.5	14222.9	11797.4
70°	7090.9	7131.9	7801.8	8622.0	10170.7	10994.8	12106.0	13900.7	14855.6	13994.4	11375.6
72.5°	3198.9	3140.3	3376.5	3815.9	5499.3	6807.8	8750.9	11262.3	12256.3	11211.6	8510.7
75°	2234.1	2208.7	2234.1	2236.0	2497.8	3222.2	4065.9	6104.7	7549.8	6514.9	4065.9
77.5°	1730.2	1712.7	1695.1	1675.6	1706.9	1911.9	1993.9	2165.7	2812.1	2659.9	1550.6
80°	1369.0	1353.4	1396.3	1382.6	1382.6	1406.1	1390.5	1326.0	1204.9	1117.0	999.8
82.5°	636.6	640.5	640.5	695.2	837.8	978.4	1023.3	958.9	851.5	724.5	583.9
85°	60.5	68.3	115.3	177.8	353.5	398.3	400.4	331.9	331.9	261.7	210.9
87.5°	0.0	1.9	1.9	1.9	17.6	48.9	41.0	11.7	5.8	5.8	9.7
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	900.3	900.3	900.3	900.3	900.3	900.3	900.3	900.3	900.3	900.3	900.3
2.5°	1039.0	1033.0	1009.7	986.2	964.7	941.3	919.8	898.3	874.8	857.3	835.8
5°	1214.7	1171.7	1122.9	1076.1	1029.1	980.4	929.6	884.7	837.8	794.8	753.8
7.5°	1392.4	1308.4	1242.0	1158.0	1081.9	1005.8	935.4	863.2	796.8	734.3	675.7
10°	1542.7	1441.2	1337.7	1230.4	1120.9	1019.4	921.8	835.8	748.0	671.8	599.6
12.5°	1665.8	1536.9	1410.0	1275.2	1152.2	1023.3	902.2	798.7	695.2	609.3	535.1
15°	1777.1	1628.7	1476.3	1320.2	1164.0	1017.5	882.7	753.8	648.3	550.7	466.8
17.5°	1867.0	1697.0	1525.2	1349.4	1181.5	1009.7	857.3	722.6	599.6	498.0	416.0
20°	1945.1	1767.4	1581.9	1384.5	1193.3	1007.7	835.8	683.6	556.5	449.2	369.1
22.5°	2017.3	1839.6	1640.5	1429.5	1210.8	1005.8	816.3	654.3	519.4	412.1	331.9
25°	2099.4	1911.9	1703.0	1476.3	1242.0	1013.6	804.6	630.8	486.2	376.9	302.6
27.5°	2191.2	1993.9	1777.1	1534.9	1283.0	1029.1	800.7	605.4	456.9	343.7	279.3
30°	2320.0	2091.6	1851.3	1593.5	1320.2	1046.8	796.8	589.8	427.6	318.3	255.8
32.5°	2433.4	2187.3	1933.4	1654.1	1361.2	1064.4	794.8	568.3	400.4	292.9	238.2
35°	2552.4	2275.2	2003.7	1712.7	1396.3	1083.8	792.9	552.6	375.0	267.5	220.7
37.5°	2656.0	2349.3	2058.4	1763.4	1435.4	1101.5	794.8	539.0	351.5	246.1	205.0
40°	2743.8	2425.5	2118.9	1810.3	1476.3	1128.7	796.8	525.4	328.1	226.5	191.4
42.5°	2822.0	2497.8	2183.4	1863.1	1523.3	1160.1	808.6	513.6	308.6	209.0	177.8
45°	2882.5	2564.2	2253.6	1937.3	1599.4	1210.8	830.0	505.8	289.0	193.3	166.0
47.5°	2945.0	2661.8	2372.8	2054.5	1710.8	1290.9	867.1	503.9	273.4	181.6	156.2
50°	3030.9	2759.5	2478.2	2173.5	1812.3	1372.9	912.0	505.8	253.9	169.9	146.5
52.5°	3093.4	2859.0	2614.9	2380.6	2054.5	1622.8	1085.8	540.9	244.1	160.1	134.7
55°	3462.5	3421.5	3427.3	3466.4	3214.5	2761.4	1816.2	781.2	287.1	181.6	132.8
57.5°	4882.3	5026.7	5110.7	5108.8	4692.7	3892.1	2439.2	1003.8	320.3	210.9	158.2
60°	6749.2	6639.9	6485.6	6104.7	5552.1	4442.9	2728.2	1080.0	277.3	167.9	144.6
62.5°	8399.4	7758.8	7190.5	6573.5	5848.9	4634.2	2786.8	1074.1	242.2	126.9	101.5
65°	9428.5	8276.3	7358.5	6585.1	5731.7	4474.1	2636.4	986.2	205.0	103.5	84.0
67.5°	9674.6	7997.0	6698.5	5712.2	4788.5	3482.1	1935.3	742.1	160.1	86.0	74.2
69°	9137.5	7108.6	5550.2	4431.1	3484.0	2310.3	1197.2	468.7	123.0	78.2	68.3
70°	8405.2	6182.8	4520.9	3556.2	2579.8	1622.8	837.8	330.0	99.6	72.2	62.5
72.5°	5407.6	3247.6	2222.4	1546.7	1064.4	646.4	328.1	148.5	76.1	60.5	50.8
75°	2097.4	1201.1	871.0	662.0	517.5	359.3	199.2	95.7	64.4	50.8	39.0
77.5°	1033.0	790.9	646.4	443.3	257.8	160.1	107.4	74.2	52.8	37.1	25.4
80°	816.3	542.9	324.2	201.1	152.3	115.3	82.1	60.5	39.0	23.5	17.6
82.5°	417.9	228.5	167.9	136.7	113.3	89.9	66.4	42.9	25.4	15.7	13.6
85°	130.8	95.7	86.0	84.0	78.2	64.4	46.8	27.4	15.7	9.7	9.7
87.5°	9.7	13.6	17.6	13.6	15.7	13.6	17.6	11.7	7.8	7.8	5.8
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°	900.3	900.3	900.3	900.3	900.3	900.3	900.3	900.3	900.3	900.3	900.3
2.5°	820.2	796.8	775.3	761.6	736.2	726.5	716.8	712.8	695.2	699.1	683.6
5°	716.8	675.7	644.4	613.2	583.9	562.5	544.8	523.3	505.8	498.0	482.3
7.5°	623.0	570.3	529.3	496.1	460.8	433.6	410.1	394.4	378.9	363.2	355.4
10°	540.9	484.3	437.5	404.3	371.1	347.6	330.0	318.3	308.6	302.6	300.7
12.5°	464.8	410.1	367.2	337.9	312.5	300.7	292.9	287.1	285.1	283.2	283.2
15°	406.2	351.5	318.3	296.8	285.1	279.3	277.3	273.4	269.6	267.5	267.5
17.5°	351.5	310.5	287.1	275.4	269.6	265.6	261.7	257.8	253.9	251.9	251.9
20°	314.4	281.2	269.6	261.7	255.8	251.9	246.1	242.2	240.3	238.2	236.4
22.5°	285.1	263.6	255.8	250.0	242.2	236.4	232.4	228.5	224.6	222.6	220.7
25°	263.6	250.0	244.1	236.4	228.5	222.6	216.8	210.9	207.1	205.0	201.1
27.5°	248.0	238.2	230.4	220.7	212.9	207.1	201.1	195.3	191.4	187.5	185.5
30°	234.3	224.6	214.8	207.1	197.2	191.4	183.6	177.8	175.8	171.8	167.9
32.5°	220.7	210.9	201.1	191.4	181.6	173.9	169.9	162.1	158.2	156.2	152.3
35°	205.0	195.3	183.6	175.8	166.0	158.2	152.3	146.5	142.5	138.6	136.7
37.5°	191.4	179.7	167.9	158.2	150.4	142.5	136.7	130.8	126.9	123.0	121.1
40°	175.8	164.0	152.3	142.5	134.7	128.9	123.0	117.2	113.3	111.4	111.4
42.5°	162.1	148.5	136.7	128.9	123.0	115.3	109.3	103.5	101.5	99.6	101.5
45°	148.5	134.7	125.0	117.2	111.4	103.5	97.6	93.7	91.8	93.7	95.7
47.5°	136.7	123.0	113.3	107.4	101.5	95.7	89.9	86.0	86.0	89.9	93.7
50°	125.0	111.4	103.5	99.6	93.7	87.9	80.0	78.2	80.0	84.0	87.9
52.5°	113.3	97.6	91.8	89.9	84.0	78.2	72.2	70.3	72.2	76.1	74.2
55°	101.5	86.0	84.0	82.1	76.1	68.3	62.5	62.5	62.5	60.5	56.7
57.5°	97.6	76.1	74.2	72.2	66.4	58.6	54.7	50.8	48.9	42.9	41.0
60°	101.5	68.3	68.3	64.4	58.6	50.8	44.9	39.0	35.1	31.2	31.2
62.5°	82.1	62.5	60.5	56.7	48.9	41.0	35.1	29.3	27.4	25.4	25.4
65°	66.4	56.7	52.8	46.8	41.0	33.2	27.4	23.5	21.5	21.5	23.5
67.5°	60.5	50.8	44.9	39.0	33.2	25.4	21.5	19.6	19.6	21.5	21.5
69°	56.7	46.8	41.0	35.1	29.3	23.5	19.6	19.6	19.6	19.6	21.5
70°	52.8	44.9	39.0	33.2	25.4	19.6	17.6	17.6	19.6	19.6	21.5
72.5°	41.0	35.1	33.2	27.4	19.6	17.6	15.7	17.6	17.6	19.6	19.6
75°	31.2	25.4	25.4	21.5	15.7	13.6	13.6	15.7	15.7	17.6	17.6
77.5°	21.5	17.6	17.6	15.7	13.6	11.7	11.7	13.6	15.7	15.7	17.6
80°	15.7	13.6	11.7	13.6	11.7	9.7	11.7	13.6	13.6	15.7	15.7
82.5°	11.7	11.7	11.7	11.7	9.7	9.7	11.7	11.7	13.6	15.7	15.7
85°	9.7	9.7	9.7	9.7	9.7	9.7	9.7	11.7	11.7	13.6	13.6
87.5°	5.8	5.8	5.8	7.8	7.8	9.7	9.7	9.7	9.7	11.7	11.7
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°	900.3	900.3	900.3	900.3
2.5°	679.6	677.6	669.8	671.8
5°	476.5	464.8	472.6	470.7
7.5°	349.6	347.6	345.7	349.6
10°	298.8	298.8	296.8	298.8
12.5°	281.2	281.2	281.2	281.2
15°	267.5	267.5	265.6	265.6
17.5°	251.9	251.9	251.9	250.0
20°	236.4	234.3	234.3	234.3
22.5°	218.7	216.8	216.8	216.8
25°	201.1	199.2	199.2	199.2
27.5°	183.6	181.6	179.7	179.7
30°	166.0	164.0	162.1	162.1
32.5°	148.5	146.5	144.6	144.6
35°	132.8	132.8	130.8	128.9
37.5°	119.2	119.2	119.2	119.2
40°	109.3	111.4	111.4	111.4
42.5°	103.5	105.4	107.4	109.3
45°	99.6	103.5	105.4	105.4
47.5°	97.6	99.6	101.5	101.5
50°	89.9	87.9	87.9	87.9
52.5°	72.2	68.3	66.4	64.4
55°	52.8	50.8	46.8	46.8
57.5°	37.1	37.1	35.1	35.1
60°	29.3	29.3	27.4	29.3
62.5°	25.4	25.4	25.4	25.4
65°	23.5	23.5	23.5	23.5
67.5°	23.5	23.5	23.5	23.5
69°	21.5	21.5	21.5	21.5
70°	21.5	21.5	21.5	21.5
72.5°	19.6	19.6	19.6	19.6
75°	17.6	19.6	19.6	19.6
77.5°	17.6	17.6	17.6	17.6
80°	15.7	15.7	17.6	17.6
82.5°	15.7	15.7	15.7	15.7
85°	13.6	13.6	15.7	15.7
87.5°	11.7	11.7	13.6	13.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)