

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: P165522

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165522
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
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (56) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13277.7 lumens
Efficiency: N/A
Efficacy: 65.0 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



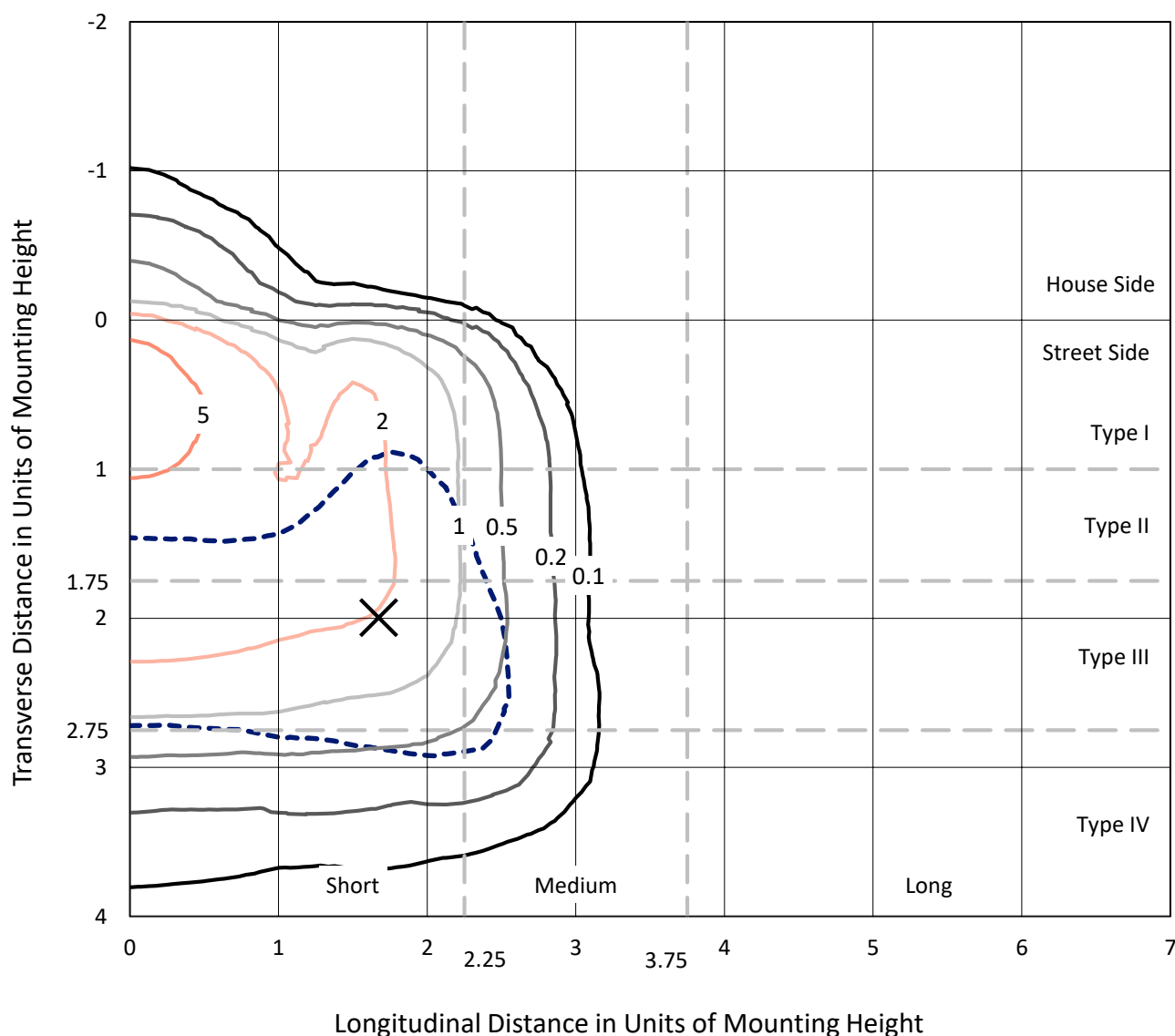
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

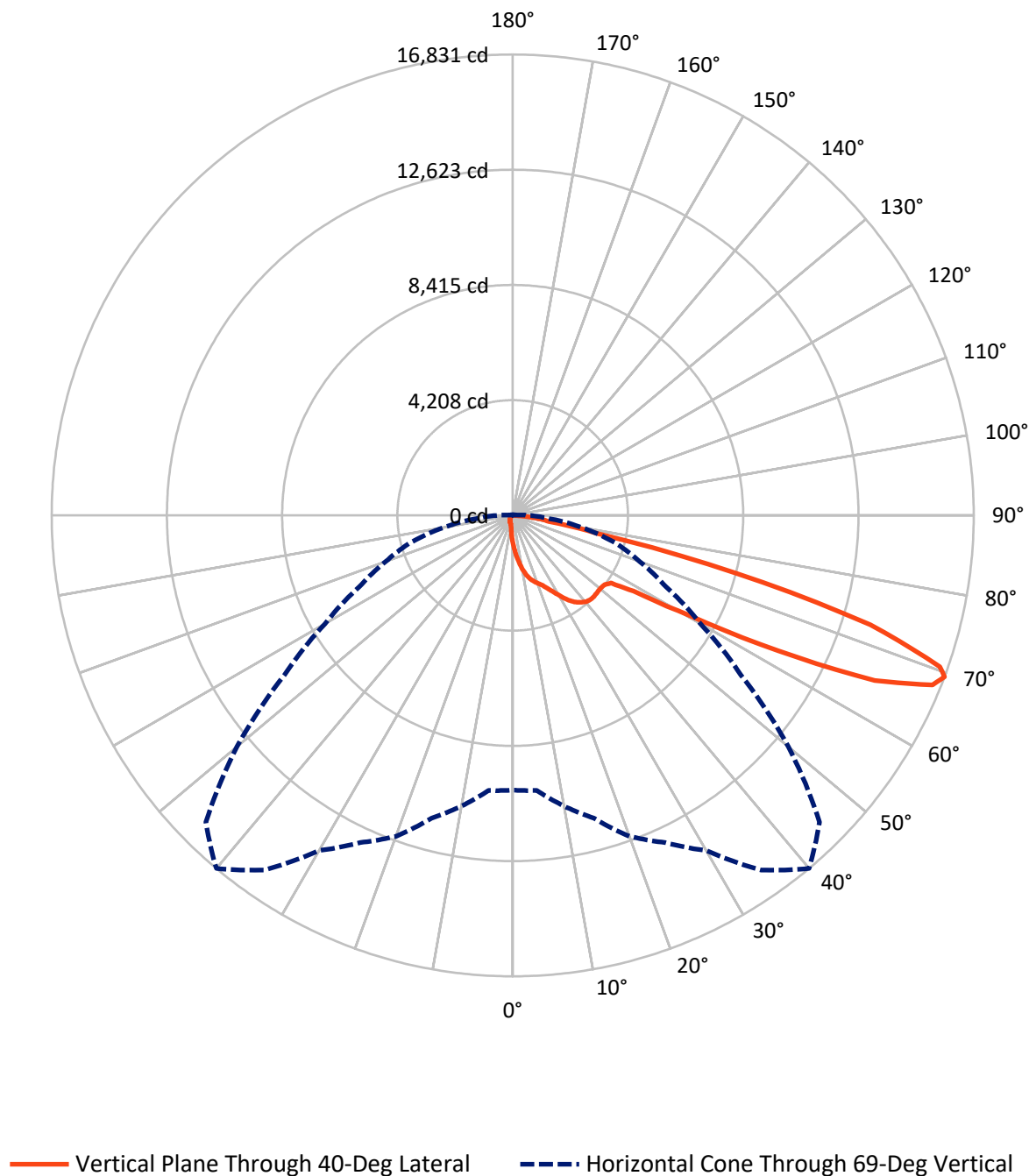


Based on 20 foot mounting height. Maximum calculated value = 7.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	395.4	0.0	395.4
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	12882.3	0.0	12882.3
	% Fixture	97.0	0.0	97.0
Total	Lumens	13277.7	0.0	13277.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.1	0.8
10°-20°	355.3	2.7
20°-30°	680.1	5.1
30°-40°	1131.0	8.5
40°-50°	1530.5	11.5
50°-60°	2393.5	18.0
60°-70°	4920.9	37.1
70°-80°	1980.1	14.9
80°-90°	183.2	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°	13277.7	100.0
0°-180°	13277.7	100.0

Coefficient of Utilization



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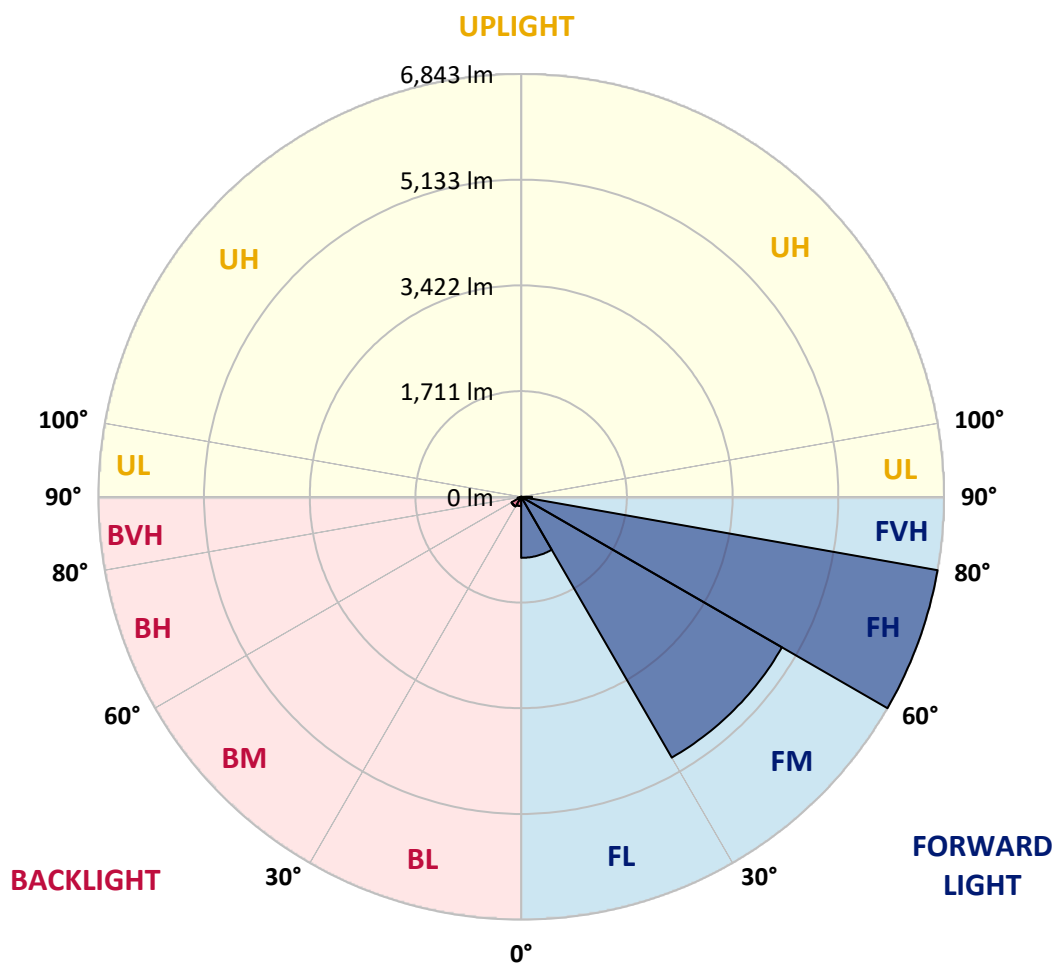
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	988.1	7.4			
FM	(30°-60°)	4874.4	36.7			
FH	(60°-80°)	6843.4	51.5			G3/7500
FVH	(80°-90°)	176.3	1.3			G2/225
BL	(0°-30°)	150.4	1.1	B1/500		
BM	(30°-60°)	180.5	1.4	B0/220		
BH	(60°-80°)	57.7	0.4	B0/110		G0/110
BVH	(80°-90°)	6.8	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°	1002.8	1002.8	1002.8	1002.8	1002.8	1002.8	1002.8	1002.8	1002.8	1002.8	1002.8
2.5°	1337.7	1322.4	1305.0	1305.0	1283.3	1283.3	1270.3	1235.5	1231.2	1211.5	1191.9
5°	1707.4	1694.4	1672.7	1653.0	1635.7	1605.2	1583.4	1542.1	1496.5	1452.9	1413.8
7.5°	2068.6	2062.0	2022.9	2016.3	1988.0	1938.1	1894.5	1833.6	1755.3	1694.4	1622.7
10°	2403.5	2388.2	2379.5	2342.5	2301.3	2246.9	2179.4	2105.6	2014.1	1918.4	1816.2
12.5°	2668.9	2660.2	2620.9	2605.8	2562.3	2507.9	2423.1	2327.3	2236.0	2112.0	1992.4
15°	2866.8	2851.6	2825.4	2801.5	2749.3	2701.5	2623.2	2518.7	2407.9	2273.0	2129.5
17.5°	3032.1	3003.9	2997.2	2960.3	2906.0	2849.3	2762.4	2666.6	2536.1	2401.3	2244.6
20°	3253.9	3214.8	3201.7	3147.3	3084.3	3006.0	2906.0	2786.3	2649.2	2501.4	2340.4
22.5°	3514.9	3486.6	3458.4	3410.5	3330.1	3219.2	3073.5	2943.0	2768.9	2605.8	2431.8
25°	3884.7	3860.8	3815.1	3749.9	3649.7	3517.1	3340.9	3149.5	2945.1	2736.3	2531.8
27.5°	4243.6	4221.8	4189.2	4139.2	4026.1	3880.4	3662.8	3419.3	3160.4	2908.1	2681.8
30°	4580.8	4561.1	4528.5	4478.6	4378.5	4234.9	3989.1	3728.1	3406.2	3112.6	2840.7
32.5°	4944.0	4937.4	4900.4	4828.7	4741.7	4548.2	4280.6	4000.0	3673.8	3334.5	3016.8
35°	5355.1	5305.0	5270.3	5198.4	5050.6	4843.9	4530.7	4224.0	3880.4	3532.3	3177.8
37.5°	5703.1	5655.3	5611.7	5520.5	5339.9	5076.6	4722.1	4384.9	4030.4	3675.9	3314.8
40°	5957.5	5933.6	5881.4	5761.8	5559.5	5246.4	4863.5	4495.9	4139.2	3782.5	3425.7
42.5°	6146.8	6109.8	6051.2	5927.1	5687.9	5331.2	4920.0	4541.6	4189.2	3847.7	3497.6
45°	6216.4	6186.0	6131.6	5996.7	5737.9	5355.1	4917.9	4528.5	4191.4	3867.3	3545.4
47.5°	6175.1	6144.7	6096.7	5970.6	5716.2	5326.8	4878.8	4491.5	4169.6	3873.9	3588.9
50°	6038.1	6020.7	5983.7	5877.1	5648.7	5272.4	4843.9	4472.0	4165.3	3906.5	3649.7
52.5°	6025.0	6014.2	5968.5	5861.9	5629.2	5255.0	4839.6	4482.9	4202.3	3947.9	3693.3
55°	7362.6	7208.2	6862.4	6568.8	6085.9	5511.7	5059.2	4659.0	4358.9	4111.0	3932.5
57.5°	10464.4	10233.9	9779.2	9220.3	8110.9	7021.2	6149.0	5518.2	5207.1	5094.1	5161.4
60°	11917.3	11876.1	11804.2	11538.9	10971.2	10033.8	8989.6	7860.8	7408.3	7369.2	7506.2
62.5°	12606.9	12580.7	12602.5	12569.9	12393.7	12119.6	11819.4	11332.3	10884.1	10594.9	9981.5
65°	12924.4	12941.9	13065.7	13163.6	13185.4	13257.1	13476.9	14083.7	14527.4	13781.4	12078.3
67.5°	12117.4	12219.6	12504.7	12861.3	13278.9	13683.5	14336.0	15615.0	16526.3	15649.8	13231.1
69°	10031.5	10081.6	10777.5	11449.7	12469.8	13183.3	14129.4	15806.4	16830.9	15841.2	13139.7
70°	7897.7	7943.4	8689.5	9603.0	11327.9	12245.8	13483.4	15482.4	16545.9	15586.7	12669.9
72.5°	3562.8	3497.6	3760.7	4250.1	6125.0	7582.4	9746.6	12543.8	13650.9	12487.2	9479.0
75°	2488.3	2460.1	2488.3	2490.4	2782.0	3588.9	4528.5	6799.3	8408.9	7256.2	4528.5
77.5°	1927.1	1907.6	1888.0	1866.2	1901.1	2129.5	2220.7	2412.1	3132.1	2962.5	1727.0
80°	1524.8	1507.3	1555.2	1540.0	1540.0	1566.1	1548.7	1476.8	1342.0	1244.1	1113.6
82.5°	709.0	713.4	713.4	774.3	933.2	1089.7	1139.8	1068.0	948.4	806.9	650.4
85°	67.4	76.1	128.4	198.0	393.7	443.7	445.9	369.7	369.7	291.5	234.8
87.5°	0.0	2.1	2.1	2.1	19.5	54.4	45.7	13.1	6.5	6.5	10.8
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1002.8	1002.8	1002.8	1002.8	1002.8	1002.8	1002.8	1002.8	1002.8	1002.8	1002.8
2.5°	1157.2	1150.6	1124.6	1098.4	1074.5	1048.4	1024.4	1000.5	974.4	954.8	930.9
5°	1352.9	1305.0	1250.7	1198.5	1146.2	1091.9	1035.4	985.3	933.2	885.2	839.5
7.5°	1550.8	1457.3	1383.3	1289.8	1205.0	1120.2	1041.9	961.4	887.5	817.9	752.6
10°	1718.3	1605.2	1489.9	1370.4	1248.5	1135.4	1026.7	930.9	833.1	748.3	667.8
12.5°	1855.4	1711.8	1570.5	1420.3	1283.3	1139.8	1004.9	889.6	774.3	678.6	596.0
15°	1979.3	1814.0	1644.3	1470.4	1296.4	1133.3	983.1	839.5	722.1	613.4	519.9
17.5°	2079.4	1890.1	1698.7	1503.0	1316.0	1124.6	954.8	804.8	667.8	554.6	463.4
20°	2166.4	1968.4	1761.9	1542.1	1329.0	1122.3	930.9	761.3	619.9	500.3	411.0
22.5°	2246.9	2048.9	1827.1	1592.1	1348.6	1120.2	909.1	728.7	578.5	459.0	369.7
25°	2338.3	2129.5	1896.7	1644.3	1383.3	1128.9	896.2	702.6	541.5	419.8	337.1
27.5°	2440.5	2220.7	1979.3	1709.6	1429.0	1146.2	891.8	674.3	508.9	382.8	311.1
30°	2584.0	2329.6	2062.0	1774.8	1470.4	1165.9	887.5	656.9	476.3	354.5	284.9
32.5°	2710.2	2436.2	2153.4	1842.3	1516.1	1185.5	885.2	632.9	445.9	326.2	265.4
35°	2842.8	2534.0	2231.7	1907.6	1555.2	1207.1	883.1	615.5	417.6	298.0	245.8
37.5°	2958.2	2616.6	2292.6	1964.1	1598.7	1226.8	885.2	600.3	391.5	274.1	228.4
40°	3056.0	2701.5	2359.9	2016.3	1644.3	1257.2	887.5	585.1	365.5	252.3	213.2
42.5°	3143.1	2782.0	2431.8	2075.0	1696.6	1292.0	900.5	572.1	343.7	232.7	198.0
45°	3210.4	2855.9	2510.0	2157.7	1781.4	1348.6	924.5	563.3	321.9	215.3	184.9
47.5°	3280.0	2964.6	2642.7	2288.2	1905.4	1437.7	965.8	561.2	304.5	202.2	174.0
50°	3375.8	3073.5	2760.2	2420.8	2018.5	1529.1	1015.7	563.3	282.8	189.3	163.1
52.5°	3445.4	3184.3	2912.5	2651.5	2288.2	1807.4	1209.4	602.4	271.8	178.3	150.0
55°	3856.5	3810.8	3817.2	3860.8	3580.3	3075.6	2022.9	870.0	319.8	202.2	147.9
57.5°	5437.8	5598.6	5692.2	5690.0	5226.7	4335.0	2716.7	1118.0	356.8	234.8	176.2
60°	7517.2	7395.4	7223.5	6799.3	6183.8	4948.4	3038.6	1202.9	308.8	187.0	161.0
62.5°	9355.1	8641.6	8008.6	7321.4	6514.4	5161.4	3103.8	1196.3	269.7	141.3	113.1
65°	10501.3	9218.0	8195.8	7334.4	6383.9	4983.1	2936.4	1098.4	228.4	115.3	93.5
67.5°	10775.4	8907.0	7460.6	6362.1	5333.3	3878.3	2155.5	826.6	178.3	95.8	82.7
69°	10177.2	7917.4	6181.7	4935.3	3880.4	2573.1	1333.4	522.0	137.0	87.0	76.1
70°	9361.6	6886.3	5035.3	3960.8	2873.4	1807.4	933.2	367.6	111.0	80.4	69.6
72.5°	6022.9	3617.1	2475.3	1722.6	1185.5	720.0	365.5	165.4	84.8	67.4	56.5
75°	2336.0	1337.7	970.2	737.3	576.4	400.2	221.9	106.6	71.7	56.5	43.5
77.5°	1150.6	880.9	720.0	493.7	287.2	178.3	119.7	82.7	58.8	41.3	28.3
80°	909.1	604.7	361.1	224.0	169.6	128.4	91.4	67.4	43.5	26.2	19.5
82.5°	465.5	254.5	187.0	152.3	126.1	100.1	74.0	47.8	28.3	17.4	15.2
85°	145.7	106.6	95.8	93.5	87.0	71.7	52.2	30.5	17.4	10.8	10.8
87.5°	10.8	15.2	19.5	15.2	17.4	15.2	19.5	13.1	8.7	8.7	6.5
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1002.8	1002.8	1002.8	1002.8	1002.8	1002.8	1002.8	1002.8	1002.8	1002.8	1002.8
2.5°	913.5	887.5	863.6	848.2	820.0	809.1	798.3	794.0	774.3	778.6	761.3
5°	798.3	752.6	717.7	683.0	650.4	626.5	606.8	582.9	563.3	554.6	537.2
7.5°	693.8	635.2	589.5	552.5	513.3	482.9	456.7	439.3	422.0	404.6	395.9
10°	602.4	539.4	487.3	450.3	413.3	387.1	367.6	354.5	343.7	337.1	335.0
12.5°	517.6	456.7	408.9	376.3	348.0	335.0	326.2	319.8	317.5	315.4	315.4
15°	452.4	391.5	354.5	330.6	317.5	311.1	308.8	304.5	300.2	298.0	298.0
17.5°	391.5	345.8	319.8	306.7	300.2	295.9	291.5	287.2	282.8	280.5	280.5
20°	350.2	313.2	300.2	291.5	284.9	280.5	274.1	269.7	267.6	265.4	263.2
22.5°	317.5	293.6	284.9	278.4	269.7	263.2	258.9	254.5	250.2	247.9	245.8
25°	293.6	278.4	271.8	263.2	254.5	247.9	241.4	234.8	230.6	228.4	224.0
27.5°	276.2	265.4	256.6	245.8	237.1	230.6	224.0	217.5	213.2	208.8	206.6
30°	261.0	250.2	239.2	230.6	219.7	213.2	204.5	198.0	195.7	191.4	187.0
32.5°	245.8	234.8	224.0	213.2	202.2	193.6	189.3	180.6	176.2	174.0	169.6
35°	228.4	217.5	204.5	195.7	184.9	176.2	169.6	163.1	158.8	154.4	152.3
37.5°	213.2	200.1	187.0	176.2	167.5	158.8	152.3	145.7	141.3	137.0	134.9
40°	195.7	182.7	169.6	158.8	150.0	143.6	137.0	130.5	126.1	124.0	124.0
42.5°	180.6	165.4	152.3	143.6	137.0	128.4	121.8	115.3	113.1	111.0	113.1
45°	165.4	150.0	139.2	130.5	124.0	115.3	108.7	104.3	102.2	104.3	106.6
47.5°	152.3	137.0	126.1	119.7	113.1	106.6	100.1	95.8	95.8	100.1	104.3
50°	139.2	124.0	115.3	111.0	104.3	97.9	89.2	87.0	89.2	93.5	97.9
52.5°	126.1	108.7	102.2	100.1	93.5	87.0	80.4	78.3	80.4	84.8	82.7
55°	113.1	95.8	93.5	91.4	84.8	76.1	69.6	69.6	69.6	67.4	63.1
57.5°	108.7	84.8	82.7	80.4	74.0	65.2	60.9	56.5	54.4	47.8	45.7
60°	113.1	76.1	76.1	71.7	65.2	56.5	50.1	43.5	39.1	34.7	34.7
62.5°	91.4	69.6	67.4	63.1	54.4	45.7	39.1	32.6	30.5	28.3	28.3
65°	74.0	63.1	58.8	52.2	45.7	37.0	30.5	26.2	23.9	23.9	26.2
67.5°	67.4	56.5	50.1	43.5	37.0	28.3	23.9	21.8	21.8	23.9	23.9
69°	63.1	52.2	45.7	39.1	32.6	26.2	21.8	21.8	21.8	21.8	23.9
70°	58.8	50.1	43.5	37.0	28.3	21.8	19.5	19.5	21.8	21.8	23.9
72.5°	45.7	39.1	37.0	30.5	21.8	19.5	17.4	19.5	19.5	21.8	21.8
75°	34.7	28.3	28.3	23.9	17.4	15.2	15.2	17.4	17.4	19.5	19.5
77.5°	23.9	19.5	19.5	17.4	15.2	13.1	13.1	15.2	17.4	17.4	19.5
80°	17.4	15.2	13.1	15.2	13.1	10.8	13.1	15.2	15.2	17.4	17.4
82.5°	13.1	13.1	13.1	13.1	10.8	10.8	13.1	13.1	15.2	17.4	17.4
85°	10.8	10.8	10.8	10.8	10.8	10.8	10.8	13.1	13.1	15.2	15.2
87.5°	6.5	6.5	6.5	8.7	8.7	10.8	10.8	10.8	10.8	13.1	13.1
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°	1002.8	1002.8	1002.8	1002.8
2.5°	757.0	754.7	746.0	748.3
5°	530.7	517.6	526.4	524.2
7.5°	389.4	387.1	385.0	389.4
10°	332.9	332.9	330.6	332.9
12.5°	313.2	313.2	313.2	313.2
15°	298.0	298.0	295.9	295.9
17.5°	280.5	280.5	280.5	278.4
20°	263.2	261.0	261.0	261.0
22.5°	243.6	241.4	241.4	241.4
25°	224.0	221.9	221.9	221.9
27.5°	204.5	202.2	200.1	200.1
30°	184.9	182.7	180.6	180.6
32.5°	165.4	163.1	161.0	161.0
35°	147.9	147.9	145.7	143.6
37.5°	132.7	132.7	132.7	132.7
40°	121.8	124.0	124.0	124.0
42.5°	115.3	117.4	119.7	121.8
45°	111.0	115.3	117.4	117.4
47.5°	108.7	111.0	113.1	113.1
50°	100.1	97.9	97.9	97.9
52.5°	80.4	76.1	74.0	71.7
55°	58.8	56.5	52.2	52.2
57.5°	41.3	41.3	39.1	39.1
60°	32.6	32.6	30.5	32.6
62.5°	28.3	28.3	28.3	28.3
65°	26.2	26.2	26.2	26.2
67.5°	26.2	26.2	26.2	26.2
69°	23.9	23.9	23.9	23.9
70°	23.9	23.9	23.9	23.9
72.5°	21.8	21.8	21.8	21.8
75°	19.5	21.8	21.8	21.8
77.5°	19.5	19.5	19.5	19.5
80°	17.4	17.4	19.5	19.5
82.5°	17.4	17.4	17.4	17.4
85°	15.2	15.2	17.4	17.4
87.5°	13.1	13.1	15.2	15.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)