

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: P165320

Luminaire Tested: **VST-F10-LED-E-U-SL3-HSS-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165320
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33727)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-F10-LED-E-U-SL3-HSS-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(10) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (70) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11935.8 lumens
Efficiency: N/A
Efficacy: 46.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G3

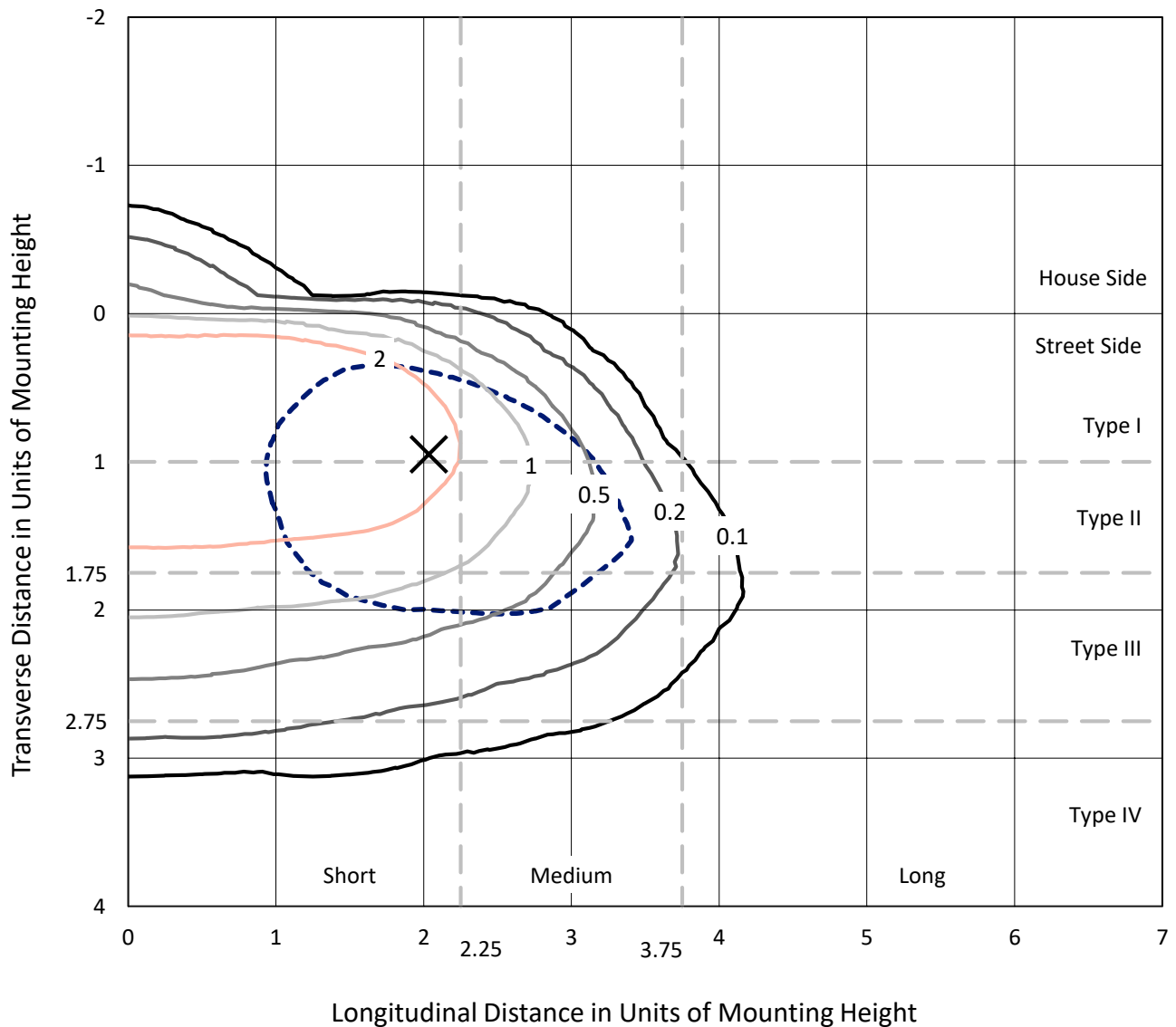
Input Watts (W): 258.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

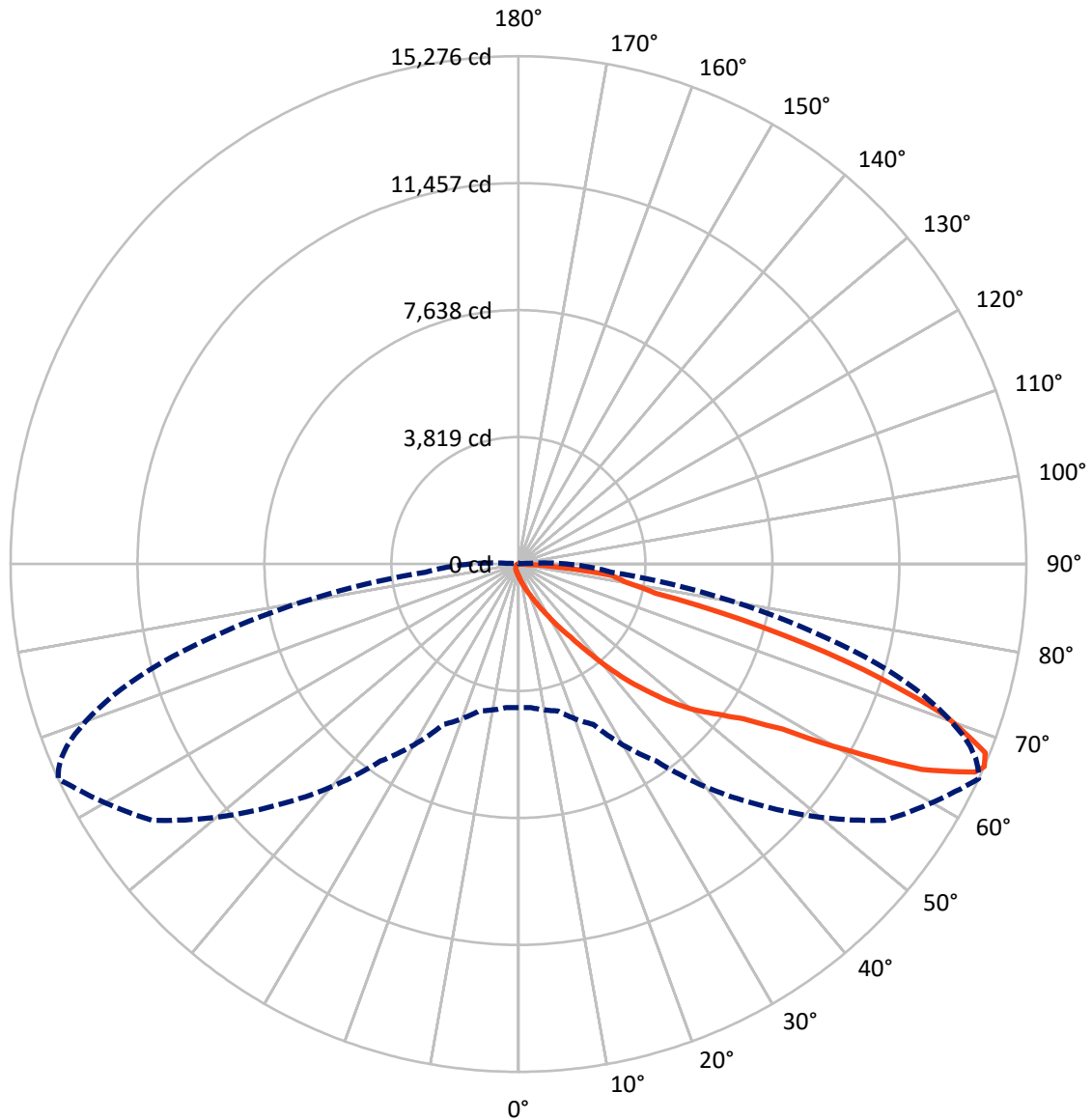
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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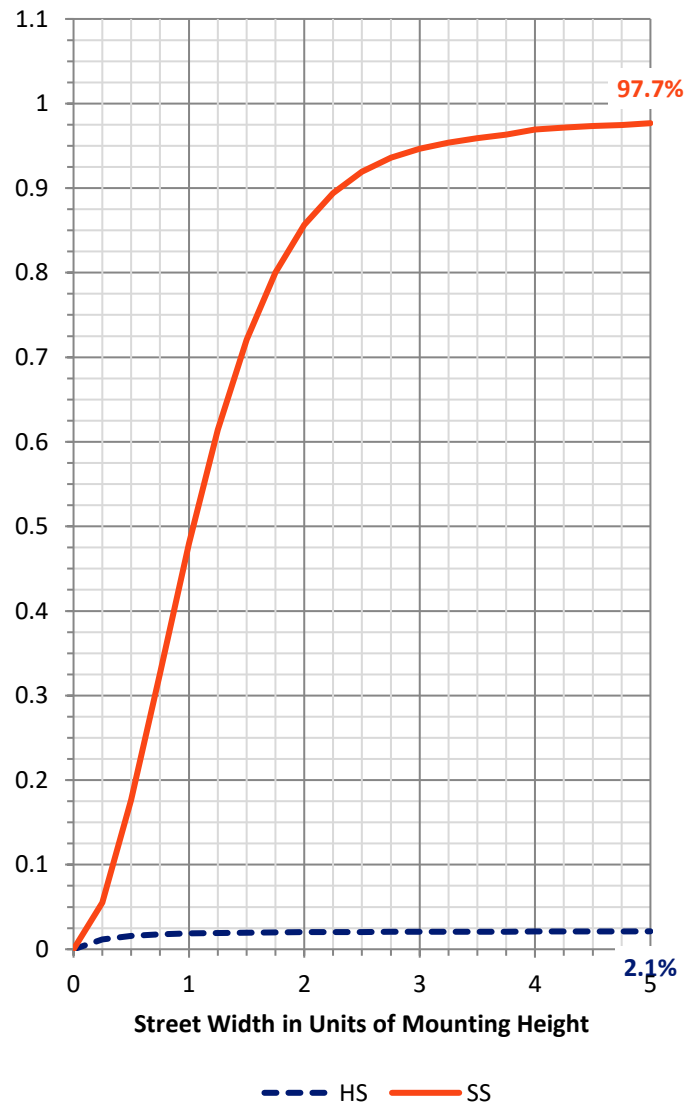
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	258.6	0.0	258.6
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	11677.1	0.0	11677.1
	% Fixture	97.8	0.0	97.8
Total	Lumens	11935.8	0.0	11935.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.3	0.3
10°-20°	171.0	1.4
20°-30°	368.8	3.1
30°-40°	787.7	6.6
40°-50°	1741.9	14.6
50°-60°	2951.9	24.7
60°-70°	3939.1	33.0
70°-80°	1735.1	14.5
80°-90°	199.9	1.7
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°	11935.8	100.0
0°-180°	11935.8	100.0



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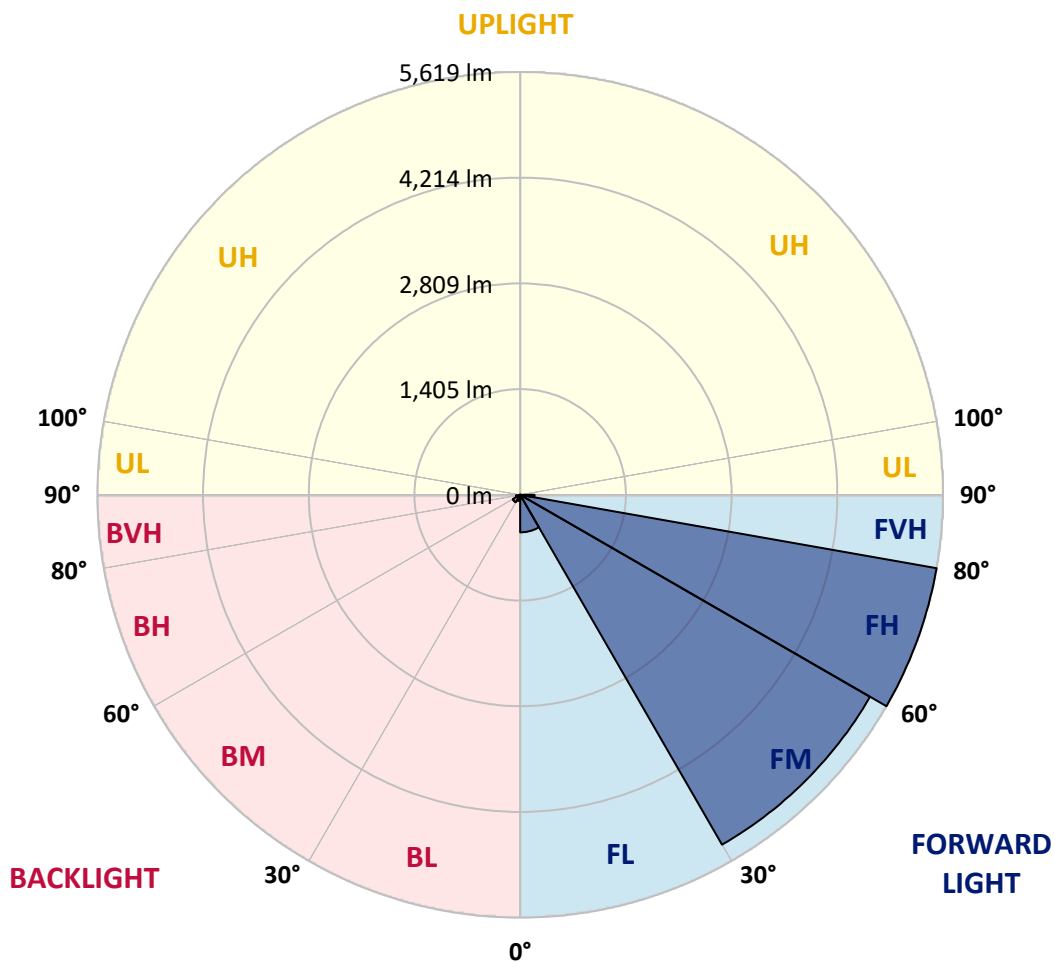
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	498.6	4.2			
FM	(30°-60°)	5367.9	45.0			
FH	(60°-80°)	5618.8	47.1			G3/7500
FVH	(80°-90°)	191.9	1.6			G2/225
BL	(0°-30°)	81.6	0.7	B0/110		
BM	(30°-60°)	113.6	1.0	B0/220		
BH	(60°-80°)	55.5	0.5	B0/110		G0/110
BVH	(80°-90°)	8.0	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	360.2	360.2	360.2	360.2	360.2	360.2	360.2	360.2	360.2	360.2	360.2
2.5°	454.4	452.0	442.8	442.8	429.0	420.0	408.4	397.0	397.0	394.6	392.4
5°	601.1	587.5	585.1	559.9	539.3	509.5	481.9	445.2	440.6	436.0	433.6
7.5°	764.2	761.8	741.2	711.4	670.1	614.9	559.9	500.3	491.1	486.5	477.3
10°	975.3	963.7	936.3	885.7	823.8	750.4	660.9	566.7	555.3	546.1	541.5
12.5°	1177.2	1156.6	1140.4	1076.2	998.1	890.3	782.4	647.1	637.9	626.5	608.1
15°	1365.3	1346.9	1319.5	1264.4	1177.2	1041.8	915.6	750.4	727.4	711.4	697.6
17.5°	1512.2	1500.8	1468.6	1406.7	1312.5	1193.2	1041.8	855.9	837.6	816.9	791.6
20°	1652.2	1636.1	1585.6	1500.8	1399.7	1307.9	1191.0	993.5	968.3	943.1	915.6
22.5°	1785.3	1769.2	1686.7	1546.6	1438.8	1399.7	1358.5	1149.6	1110.6	1090.0	1062.4
25°	1971.2	1936.8	1808.2	1585.6	1441.1	1470.9	1542.0	1351.5	1314.9	1285.1	1241.4
27.5°	2221.3	2175.3	1973.4	1643.0	1450.2	1549.0	1753.1	1597.1	1558.0	1523.6	1475.5
30°	2503.5	2473.7	2232.8	1780.7	1516.8	1663.7	1989.5	1909.2	1863.3	1822.0	1764.7
32.5°	2788.1	2746.8	2508.1	2042.3	1695.7	1886.2	2285.6	2271.8	2212.1	2173.1	2111.1
35°	3038.2	3017.6	2840.9	2471.3	2104.3	2276.4	2680.2	2696.2	2643.6	2602.2	2533.3
37.5°	3208.0	3208.0	3173.6	2932.6	2753.6	2882.1	3260.7	3263.1	3210.3	3116.2	3081.8
40°	3295.1	3320.4	3444.4	3490.2	3481.0	3646.3	4022.7	3981.3	3937.7	3889.5	3774.8
42.5°	3474.2	3497.1	3761.0	4077.7	4284.2	4502.2	4761.5	4747.7	4695.0	4607.8	4502.2
45°	3777.1	3807.0	4121.3	4623.8	5048.3	5358.2	5523.3	5459.1	5406.2	5323.8	5268.6
47.5°	4162.6	4220.0	4575.6	5197.5	5709.2	6220.9	6393.0	6223.2	6177.4	6113.0	6023.6
50°	4573.4	4628.4	5007.0	5718.4	6296.7	6907.0	7193.9	6907.0	6840.5	6819.8	6718.9
52.5°	4929.0	4975.0	5339.8	6120.0	6746.4	7462.3	7879.9	7501.3	7453.1	7384.3	7310.8
55°	5140.1	5176.9	5518.7	6312.7	7051.7	7962.6	8543.2	8210.5	8139.3	8111.8	8006.2
57.5°	5211.3	5248.0	5555.5	6337.9	7216.8	8419.2	9348.7	9360.1	9275.2	9176.6	9144.4
60°	5211.3	5252.5	5511.9	6276.1	7377.5	8905.7	10422.5	11379.4	11195.8	11177.4	11060.4
62.5°	4995.6	5034.6	5296.2	6085.6	7593.2	9562.0	11918.6	13607.5	13554.9	13435.4	13242.7
65°	4527.4	4550.4	4807.3	5599.1	7510.5	10165.5	13215.1	15089.9	15005.0	14770.9	14523.2
66°	4316.3	4334.7	4575.6	5321.4	7239.8	10248.1	13444.6	15275.8	15135.9	14938.4	14658.5
67.5°	4011.1	4043.3	4213.0	4805.1	6590.4	9961.2	13300.1	15145.1	15023.4	14784.7	14504.8
70°	2678.0	2655.0	3253.9	3687.5	5020.8	8116.4	11932.4	13598.3	13600.7	13488.2	13375.8
72.5°	1271.3	1285.1	1459.4	2269.4	3285.9	5422.4	9497.8	10853.9	11010.0	10808.0	10668.0
75°	913.3	933.9	1039.5	1388.3	1959.6	3253.9	6156.6	7590.8	7595.4	7237.4	6918.6
77.5°	266.2	277.7	390.0	855.9	1468.6	2196.0	3536.1	4220.0	4121.3	3864.2	3623.3
80°	110.1	110.1	114.7	273.1	589.7	1491.6	2473.7	3249.3	3237.9	3139.2	2996.9
82.5°	41.2	43.6	55.0	112.5	140.0	367.2	1649.9	2820.2	2813.3	2673.4	2572.3
85°	4.6	4.6	13.8	48.2	52.8	68.8	330.4	1243.7	1236.8	1243.7	1090.0
87.5°	0.0	0.0	2.2	4.6	6.8	9.2	13.8	48.2	52.8	50.4	45.8
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):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	360.2	360.2	360.2	360.2	360.2	360.2	360.2	360.2	360.2	360.2	360.2
2.5°	392.4	387.8	387.8	385.6	385.6	385.6	383.2	381.0	381.0	378.6	376.4
5°	429.0	424.5	422.2	417.6	415.4	413.0	408.4	406.2	401.6	399.2	397.0
7.5°	472.7	463.5	461.2	454.4	447.4	442.8	438.2	431.4	426.8	417.6	415.4
10°	527.8	516.3	507.1	497.9	491.1	479.6	472.7	463.5	454.4	447.4	440.6
12.5°	598.9	582.9	569.1	559.9	543.9	530.1	516.3	509.5	491.1	481.9	470.4
15°	676.9	658.6	642.5	624.1	612.7	589.7	571.3	550.7	541.5	525.5	507.1
17.5°	777.8	748.0	722.8	704.5	681.5	658.6	637.9	617.3	589.7	571.3	548.5
20°	885.7	860.5	826.0	794.0	766.4	739.0	709.0	681.5	656.3	626.5	598.9
22.5°	1023.5	986.7	945.5	913.3	876.6	846.8	805.4	768.8	727.4	688.4	656.3
25°	1197.8	1149.6	1110.6	1064.8	1021.1	975.3	924.7	878.9	826.0	789.4	734.4
27.5°	1413.5	1367.7	1314.9	1255.2	1211.6	1142.8	1076.2	1018.9	956.9	899.5	837.6
30°	1688.9	1622.4	1567.2	1510.0	1422.7	1356.1	1278.1	1200.2	1115.2	1057.9	963.7
32.5°	2019.3	1948.2	1865.6	1782.9	1702.7	1608.6	1512.2	1415.8	1321.7	1216.2	1119.8
35°	2423.2	2338.2	2244.2	2154.7	2030.8	1929.8	1808.2	1675.1	1569.6	1448.0	1326.3
37.5°	2957.9	2817.9	2735.2	2641.2	2473.7	2336.0	2200.6	2067.5	1881.6	1753.1	1581.0
40°	3627.9	3545.3	3410.0	3258.5	3107.0	2925.7	2742.2	2565.5	2349.8	2170.7	1971.2
42.5°	4414.9	4293.4	4155.7	3937.7	3784.0	3570.5	3361.7	3127.6	2863.7	2634.4	2400.3
45°	5153.9	5009.4	4903.8	4685.8	4525.2	4272.7	4020.3	3772.5	3467.2	3171.3	2900.5
47.5°	5952.5	5833.1	5658.7	5482.1	5319.2	5034.6	4761.5	4460.9	4139.6	3788.6	3437.4
50°	6654.7	6560.6	6441.2	6227.8	6046.5	5807.8	5486.7	5158.5	4752.3	4403.5	4004.3
52.5°	7251.2	7177.8	7010.3	6858.8	6695.9	6471.0	6184.2	5869.9	5431.6	5048.3	4594.0
55°	7955.7	7902.9	7756.1	7662.0	7517.5	7301.8	7033.3	6741.9	6278.3	5860.7	5346.6
57.5°	9110.0	9068.7	8940.1	8901.1	8758.8	8570.7	8240.3	7928.2	7386.7	6868.0	6280.7
60°	11021.4	10938.9	10750.6	10654.3	10353.6	10101.3	9672.2	9243.0	8589.1	7928.2	7221.4
62.5°	13068.3	12836.5	12478.5	12171.1	11744.3	11305.9	10732.2	10076.1	9309.6	8524.8	7712.4
65°	14172.0	13777.4	13325.3	12836.5	12283.6	11638.7	10915.9	10128.9	9305.0	8476.6	7618.4
66°	14298.3	13853.1	13373.6	12829.7	12214.7	11528.6	10794.2	9968.2	9112.2	8304.5	7446.3
67.5°	14140.0	13674.1	13167.0	12563.5	11898.0	11186.6	10415.6	9557.4	8733.6	7914.4	7079.1
70°	13031.6	12568.0	12116.0	11480.4	10771.3	10055.4	9325.7	8366.5	7586.3	6833.6	6090.2
72.5°	10406.4	10092.1	9644.6	9100.8	8410.0	7570.2	6962.1	6104.0	5427.0	4697.3	4121.3
75°	6503.2	6060.3	5507.3	4814.3	4286.5	3604.9	3249.3	2597.6	2212.1	1874.8	1549.0
77.5°	3325.0	2992.3	2604.5	2214.4	1840.4	1468.6	1135.8	803.2	541.5	376.4	279.9
80°	2746.8	2453.1	2131.7	1776.1	1445.7	1122.2	807.8	550.7	351.2	229.5	178.9
82.5°	2269.4	2021.6	1734.7	1404.3	1117.6	881.2	612.7	399.2	247.8	160.7	126.2
85°	966.1	876.6	676.9	536.9	403.8	298.3	208.9	140.0	98.7	80.3	73.4
87.5°	41.2	45.8	43.6	34.4	25.2	25.2	23.0	18.4	18.4	18.4	18.4
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):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	360.2	360.2	360.2	360.2	360.2	360.2	360.2	360.2	360.2	360.2	360.2
2.5°	376.4	374.0	371.8	371.8	369.4	367.2	353.4	342.0	328.2	319.0	309.8
5°	392.4	390.0	385.6	383.2	378.6	376.4	346.6	321.2	300.6	284.5	273.1
7.5°	408.4	406.2	399.2	392.4	390.0	385.6	337.4	305.2	277.7	259.3	247.8
10°	429.0	422.2	415.4	406.2	399.2	392.4	328.2	286.8	257.0	240.9	229.5
12.5°	458.9	447.4	436.0	424.5	415.4	403.8	323.6	270.8	240.9	222.5	211.1
15°	493.4	477.3	463.5	449.8	433.6	422.2	314.4	257.0	227.1	208.9	195.1
17.5°	525.5	507.1	486.5	465.8	449.8	433.6	305.2	243.3	213.3	195.1	181.3
20°	571.3	543.9	518.6	493.4	470.4	449.8	291.4	229.5	201.9	181.3	167.5
22.5°	621.9	589.7	557.7	523.2	493.4	465.8	279.9	217.9	190.5	169.9	153.7
25°	686.1	647.1	603.5	559.9	525.5	488.8	268.5	206.5	178.9	158.3	142.3
27.5°	775.6	720.6	672.3	617.3	564.5	523.2	259.3	197.3	167.5	146.9	130.8
30°	897.3	816.9	741.2	681.5	619.5	559.9	250.1	185.9	158.3	135.4	117.1
32.5°	1032.6	938.5	851.3	761.8	683.8	614.9	240.9	176.7	146.9	123.9	107.9
35°	1200.2	1080.8	963.7	860.5	766.4	674.6	231.7	167.5	137.7	112.5	96.4
37.5°	1441.1	1291.9	1138.2	1005.1	883.5	761.8	224.9	158.3	126.2	101.0	84.9
40°	1771.5	1578.8	1390.5	1209.3	1051.0	899.5	215.7	149.1	117.1	91.8	75.7
42.5°	2129.5	1895.4	1647.6	1443.4	1225.4	1034.9	206.5	140.0	107.9	82.6	66.6
45°	2574.7	2283.2	1982.6	1704.9	1438.8	1193.2	197.3	130.8	96.4	73.4	57.4
47.5°	3061.2	2689.4	2349.8	2001.0	1684.3	1390.5	185.9	123.9	87.2	64.2	50.4
50°	3561.4	3169.0	2739.8	2342.8	1966.6	1588.0	174.5	112.5	78.0	57.4	41.2
52.5°	4100.6	3637.1	3198.9	2705.4	2267.2	1847.2	162.9	103.3	71.1	50.4	34.4
55°	4786.7	4268.2	3754.2	3201.1	2673.4	2147.9	151.5	91.8	62.0	43.6	27.6
57.5°	5649.5	5034.6	4403.5	3779.4	3139.2	2542.5	142.3	80.3	52.8	36.6	23.0
60°	6464.2	5746.0	4981.8	4263.6	3540.7	2845.5	128.5	71.1	45.8	29.8	23.0
62.5°	6886.4	6067.2	5243.4	4451.7	3680.7	2953.3	114.7	59.6	39.0	25.2	20.6
65°	6783.1	5947.9	5149.3	4350.7	3595.9	2884.5	101.0	52.8	34.4	23.0	20.6
66°	6634.0	5807.8	5004.8	4245.2	3524.6	2811.0	94.1	50.4	32.2	23.0	18.4
67.5°	6308.1	5509.5	4743.1	4036.3	3329.6	2671.0	84.9	45.8	29.8	20.6	18.4
70°	5388.0	4662.8	4050.1	3421.4	2845.5	2251.2	68.8	39.0	25.2	18.4	18.4
72.5°	3565.9	3072.6	2664.2	2292.4	1916.0	1487.0	57.4	32.2	20.6	18.4	16.0
75°	1344.7	1216.2	1044.1	938.5	819.2	718.2	45.8	20.6	16.0	16.0	16.0
77.5°	238.7	220.3	195.1	178.9	165.3	151.5	36.6	13.8	13.8	16.0	16.0
80°	160.7	149.1	135.4	123.9	114.7	103.3	25.2	11.4	13.8	13.8	16.0
82.5°	114.7	107.9	101.0	91.8	84.9	75.7	16.0	11.4	13.8	13.8	13.8
85°	68.8	64.2	59.6	55.0	48.2	45.8	11.4	11.4	11.4	13.8	13.8
87.5°	18.4	16.0	18.4	18.4	13.8	16.0	9.2	9.2	9.2	11.4	11.4
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):

	145°	155°	165°	175°	180°
0°	360.2	360.2	360.2	360.2	360.2
2.5°	305.2	305.2	300.6	307.5	307.5
5°	263.9	263.9	261.6	263.9	263.9
7.5°	240.9	238.7	238.7	238.7	240.9
10°	220.3	217.9	217.9	217.9	217.9
12.5°	201.9	199.7	197.3	199.7	199.7
15°	185.9	181.3	181.3	181.3	181.3
17.5°	172.1	167.5	165.3	165.3	165.3
20°	158.3	151.5	151.5	151.5	151.5
22.5°	144.5	137.7	137.7	137.7	137.7
25°	130.8	123.9	123.9	123.9	123.9
27.5°	119.3	112.5	112.5	112.5	112.5
30°	105.6	101.0	101.0	103.3	101.0
32.5°	96.4	89.5	89.5	91.8	91.8
35°	84.9	80.3	80.3	80.3	80.3
37.5°	73.4	68.8	68.8	68.8	68.8
40°	64.2	59.6	57.4	59.6	59.6
42.5°	55.0	50.4	48.2	48.2	48.2
45°	48.2	41.2	39.0	41.2	41.2
47.5°	39.0	34.4	34.4	36.6	36.6
50°	29.8	29.8	32.2	36.6	36.6
52.5°	27.6	27.6	32.2	36.6	36.6
55°	25.2	27.6	32.2	34.4	36.6
57.5°	23.0	27.6	32.2	34.4	34.4
60°	23.0	25.2	29.8	34.4	34.4
62.5°	20.6	23.0	27.6	32.2	32.2
65°	20.6	23.0	27.6	32.2	32.2
66°	20.6	23.0	27.6	32.2	32.2
67.5°	20.6	23.0	27.6	32.2	32.2
70°	20.6	23.0	27.6	29.8	29.8
72.5°	18.4	20.6	25.2	29.8	29.8
75°	18.4	20.6	25.2	29.8	29.8
77.5°	18.4	20.6	25.2	29.8	29.8
80°	18.4	20.6	25.2	27.6	29.8
82.5°	16.0	20.6	23.0	27.6	27.6
85°	16.0	18.4	23.0	25.2	27.6
87.5°	13.8	16.0	18.4	23.0	23.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)