

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: P165301

Luminaire Tested: **VST-F08-LED-E-U-SL3-HSS-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165301
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-F08-LED-E-U-SL3-HSS-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (56) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10333.3 lumens
Efficiency: N/A
Efficacy: 50.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.33' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

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

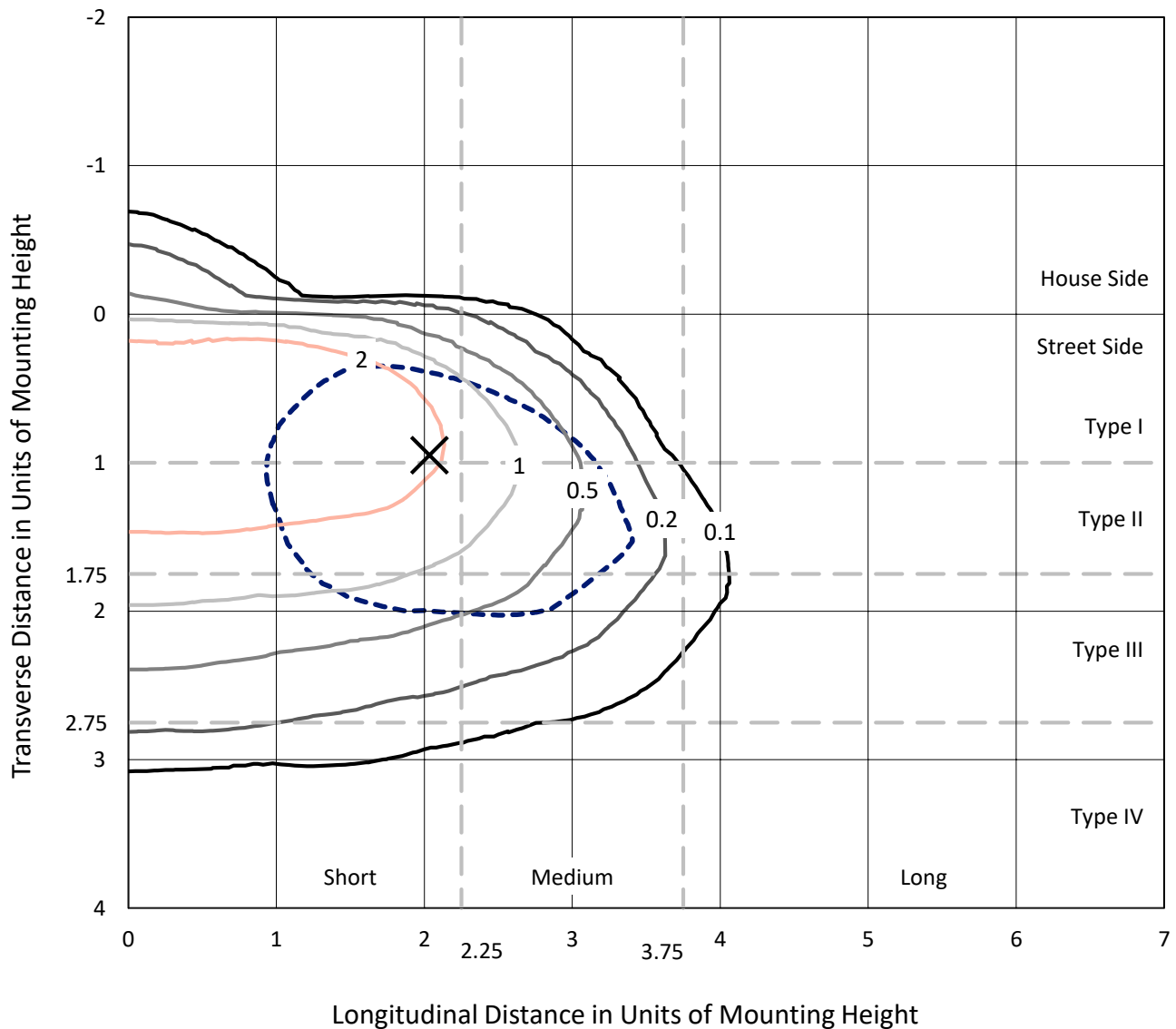


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

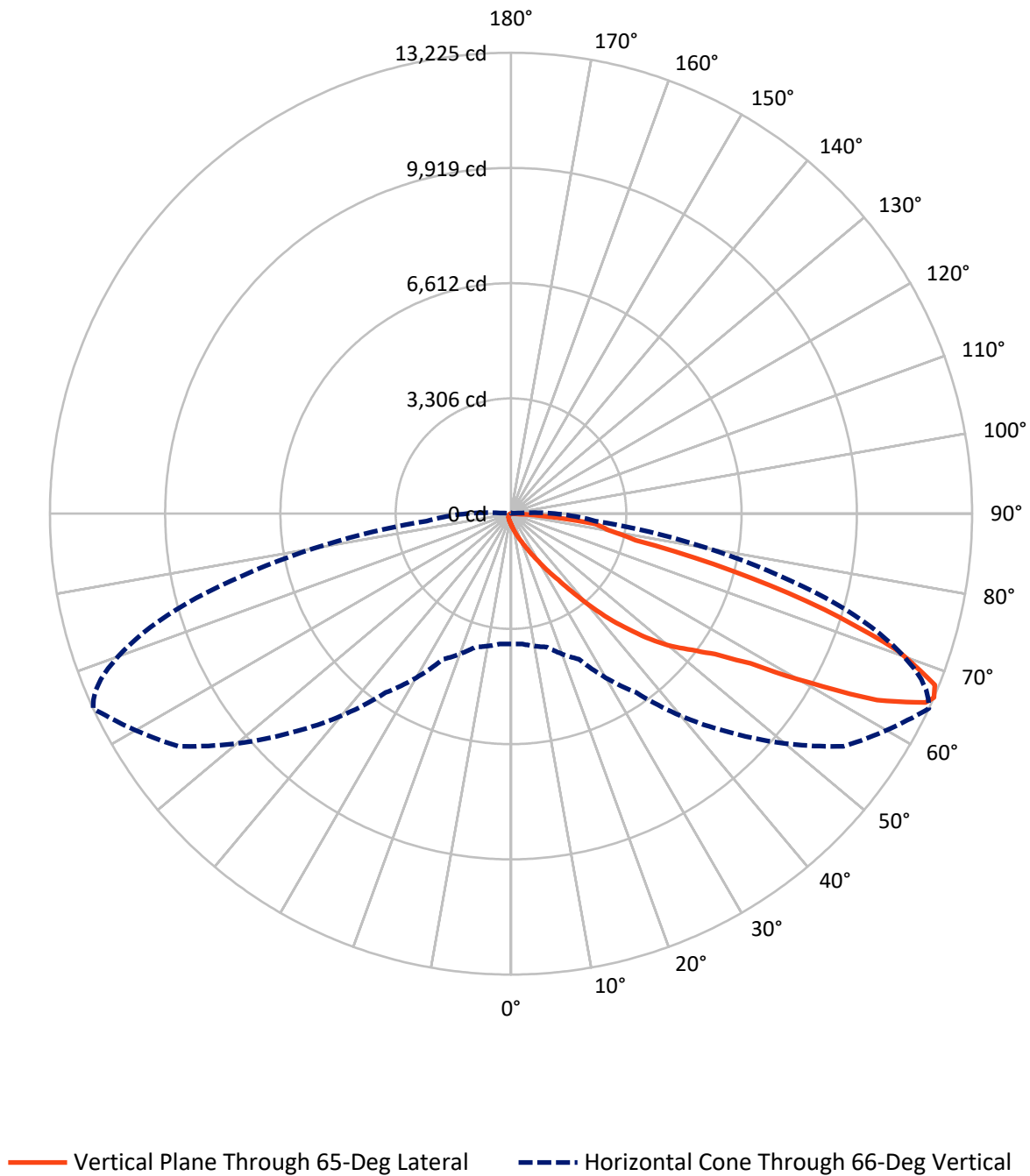


Based on 20 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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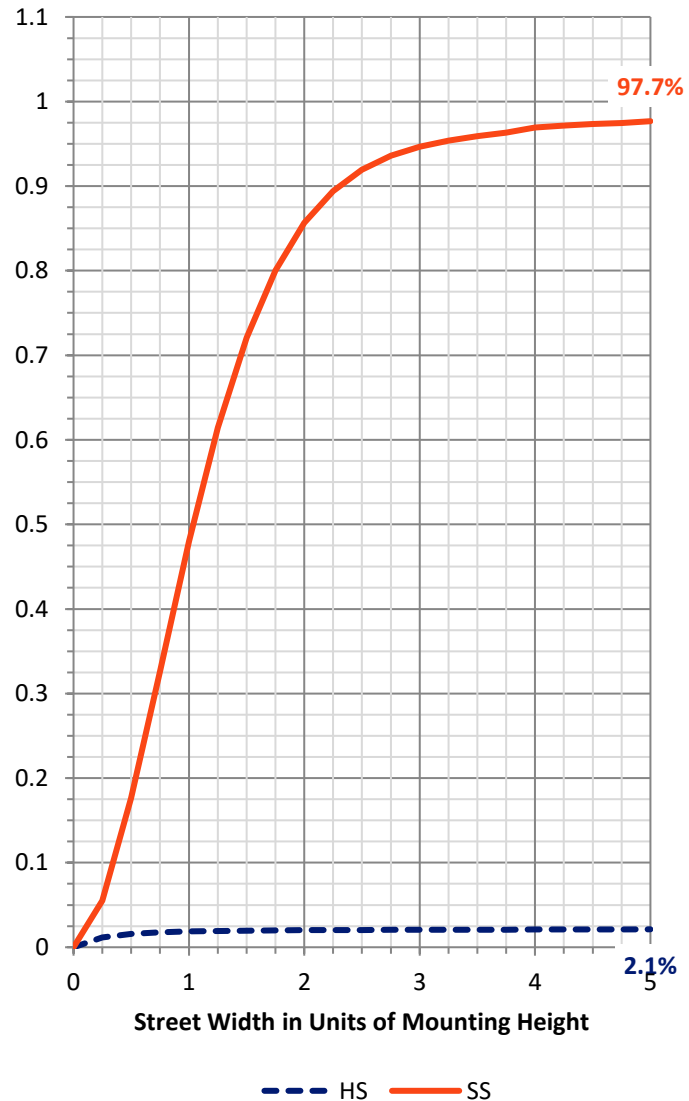
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	223.9	0.0	223.9
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	10109.4	0.0	10109.4
	% Fixture	97.8	0.0	97.8
Total	Lumens	10333.3	0.0	10333.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.9	0.3
10°-20°	148.0	1.4
20°-30°	319.3	3.1
30°-40°	681.9	6.6
40°-50°	1508.0	14.6
50°-60°	2555.6	24.7
60°-70°	3410.3	33.0
70°-80°	1502.2	14.5
80°-90°	173.0	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°	10333.3	100.0
0°-180°	10333.3	100.0

Coefficient of Utilization



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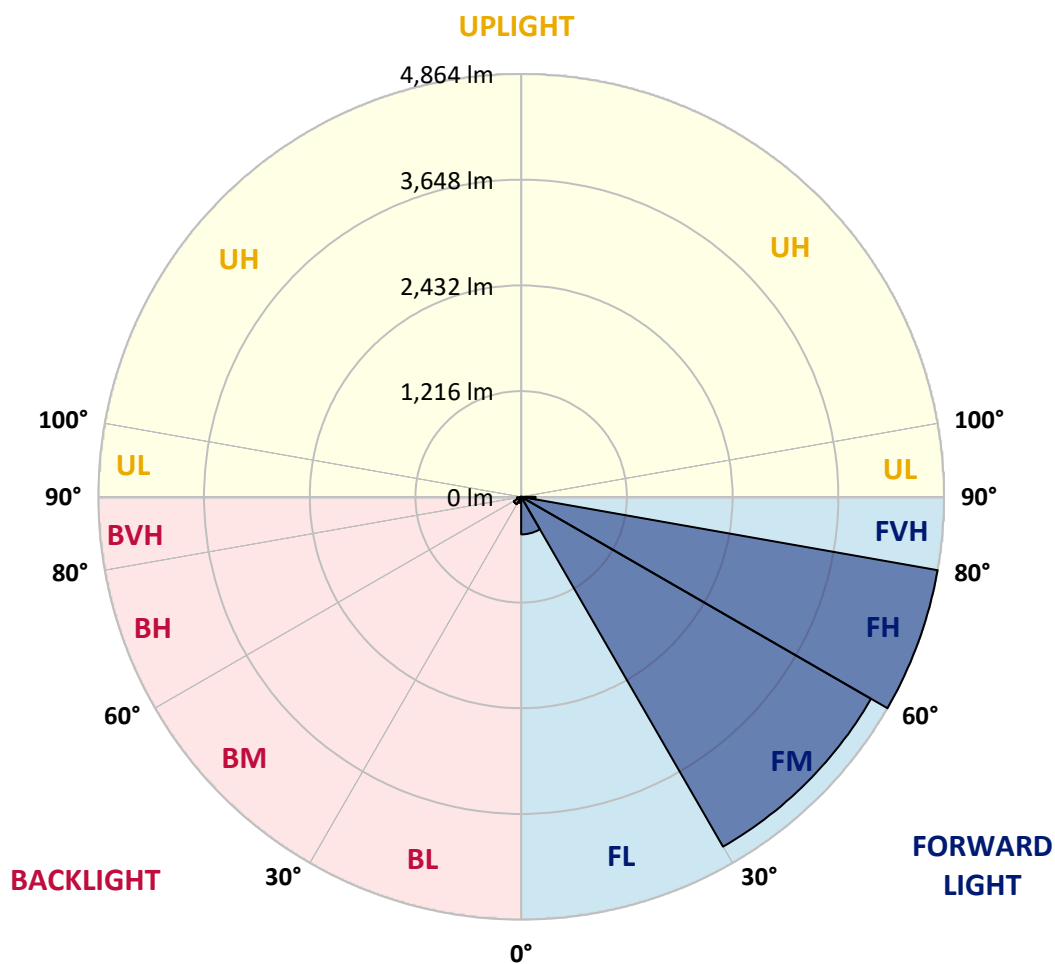
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	431.6	4.2			
FM	(30°-60°)	4647.2	45.0			
FH	(60°-80°)	4864.4	47.1			G2/5000
FVH	(80°-90°)	166.1	1.6			G2/225
BL	(0°-30°)	70.7	0.7	B0/110		
BM	(30°-60°)	98.3	1.0	B0/220		
BH	(60°-80°)	48.0	0.5	B0/110		G0/110
BVH	(80°-90°)	6.9	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	311.9	311.9	311.9	311.9	311.9	311.9	311.9	311.9	311.9	311.9	311.9
2.5°	393.4	391.4	383.4	383.4	371.4	363.6	353.6	343.7	343.7	341.6	339.7
5°	520.4	508.6	506.6	484.7	466.9	441.1	417.2	385.4	381.5	377.5	375.4
7.5°	661.6	659.5	641.7	615.9	580.2	532.4	484.7	433.1	425.1	421.2	413.2
10°	844.4	834.3	810.6	766.8	713.2	649.6	572.2	490.6	480.7	472.8	468.8
12.5°	1019.2	1001.3	987.3	931.7	864.1	770.8	677.4	560.2	552.3	542.4	526.5
15°	1182.0	1166.1	1142.3	1094.7	1019.2	901.9	792.7	649.6	629.7	615.9	603.9
17.5°	1309.2	1299.3	1271.4	1217.9	1136.3	1033.0	901.9	741.0	725.2	707.2	685.3
20°	1430.4	1416.4	1372.8	1299.3	1211.8	1132.3	1031.1	860.2	838.3	816.5	792.7
22.5°	1545.6	1531.6	1460.2	1339.0	1245.6	1211.8	1176.1	995.3	961.5	943.6	919.8
25°	1706.6	1676.8	1565.4	1372.8	1247.6	1273.5	1335.0	1170.1	1138.3	1112.5	1074.8
27.5°	1923.1	1883.3	1708.5	1422.5	1255.5	1341.0	1517.8	1382.6	1348.9	1319.1	1277.4
30°	2167.4	2141.6	1933.0	1541.6	1313.2	1440.3	1722.4	1652.9	1613.2	1577.4	1527.8
32.5°	2413.7	2378.0	2171.4	1768.1	1468.1	1633.0	1978.7	1966.8	1915.1	1881.4	1827.7
35°	2630.3	2612.4	2459.5	2139.5	1821.8	1970.8	2320.4	2334.2	2288.6	2252.8	2193.2
37.5°	2777.4	2777.4	2747.6	2538.8	2383.9	2495.2	2823.0	2825.0	2779.3	2697.8	2668.1
40°	2852.7	2874.6	2982.0	3021.6	3013.7	3156.8	3482.6	3446.8	3409.0	3367.3	3268.0
42.5°	3007.8	3027.6	3256.0	3530.3	3709.0	3897.7	4122.2	4110.3	4064.7	3989.2	3897.7
45°	3270.0	3295.9	3568.0	4003.0	4370.5	4638.8	4781.8	4726.2	4680.4	4609.0	4561.2
47.5°	3603.7	3653.4	3961.3	4499.7	4942.7	5385.7	5534.7	5387.7	5348.0	5292.3	5214.9
50°	3959.4	4007.0	4334.8	4950.7	5451.3	5979.7	6228.1	5979.7	5922.2	5904.2	5816.8
52.5°	4267.2	4307.1	4622.9	5298.3	5840.6	6460.5	6822.0	6494.2	6452.5	6392.9	6329.3
55°	4450.0	4481.9	4777.8	5465.2	6104.9	6893.6	7396.3	7108.2	7046.5	7022.8	6931.3
57.5°	4511.7	4543.4	4809.6	5487.0	6247.9	7288.9	8093.5	8103.4	8030.0	7944.6	7916.7
60°	4511.7	4547.4	4771.9	5433.5	6387.0	7710.0	9023.2	9851.6	9692.7	9676.8	9575.5
62.5°	4324.9	4358.7	4585.1	5268.5	6573.7	8278.2	10318.5	11780.6	11735.0	11631.6	11464.8
65°	3919.6	3939.5	4161.9	4847.4	6502.2	8800.7	11440.9	13064.0	12990.5	12787.8	12573.4
66°	3736.8	3752.7	3961.3	4607.0	6267.8	8872.3	11639.6	13224.9	13103.8	12932.9	12690.5
67.5°	3472.6	3500.5	3647.4	4160.0	5705.6	8623.9	11514.5	13111.8	13006.4	12799.8	12557.4
70°	2318.4	2298.5	2817.0	3192.5	4346.7	7026.7	10330.4	11772.7	11774.7	11677.4	11580.0
72.5°	1100.6	1112.5	1263.5	1964.7	2844.8	4694.4	8222.6	9396.7	9531.8	9357.0	9235.8
75°	790.7	808.5	900.0	1201.9	1696.5	2817.0	5330.1	6571.7	6575.7	6265.7	5989.7
77.5°	230.4	240.4	337.7	741.0	1271.4	1901.1	3061.3	3653.4	3568.0	3345.4	3136.9
80°	95.3	95.3	99.3	236.5	510.5	1291.3	2141.6	2813.1	2803.2	2717.8	2594.6
82.5°	35.7	37.8	47.7	97.4	121.2	317.9	1428.4	2441.6	2435.6	2314.5	2227.0
85°	4.0	4.0	11.9	41.7	45.7	59.6	286.0	1076.7	1070.8	1076.7	943.6
87.5°	0.0	0.0	1.9	4.0	5.9	8.0	11.9	41.7	45.7	43.7	39.7
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):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	311.9	311.9	311.9	311.9	311.9	311.9	311.9	311.9	311.9	311.9	311.9
2.5°	339.7	335.7	335.7	333.8	333.8	333.8	331.8	329.8	329.8	327.8	325.8
5°	371.4	367.5	365.5	361.6	359.6	357.6	353.6	351.7	347.7	345.6	343.7
7.5°	409.2	401.2	399.3	393.4	387.4	383.4	379.4	373.5	369.5	361.6	359.6
10°	457.0	447.0	439.0	431.0	425.1	415.2	409.2	401.2	393.4	387.4	381.5
12.5°	518.5	504.6	492.7	484.7	470.9	458.9	447.0	441.1	425.1	417.2	407.3
15°	586.1	570.1	556.3	540.3	530.4	510.5	494.6	476.8	468.8	454.9	439.0
17.5°	673.4	647.6	625.8	610.0	590.0	570.1	552.3	534.4	510.5	494.6	474.8
20°	766.8	744.9	715.1	687.4	663.5	639.7	613.8	590.0	568.2	542.4	518.5
22.5°	886.1	854.2	818.5	790.7	758.9	733.1	697.3	665.6	629.7	596.0	568.2
25°	1037.0	995.3	961.5	921.8	884.0	844.4	800.6	760.9	715.1	683.4	635.8
27.5°	1223.8	1184.1	1138.3	1086.7	1049.0	989.4	931.7	882.1	828.4	778.7	725.2
30°	1462.1	1404.6	1356.8	1307.2	1231.7	1174.1	1106.5	1039.1	965.5	915.9	834.3
32.5°	1748.2	1686.7	1615.1	1543.6	1474.1	1392.7	1309.2	1225.7	1144.3	1052.9	969.5
35°	2097.9	2024.3	1942.9	1865.4	1758.2	1670.7	1565.4	1450.2	1358.9	1253.6	1148.2
37.5°	2560.8	2439.6	2368.0	2286.6	2141.6	2022.4	1905.1	1789.9	1629.0	1517.8	1368.8
40°	3140.8	3069.3	2952.2	2821.0	2689.9	2532.9	2374.1	2221.1	2034.3	1879.3	1706.6
42.5°	3822.2	3717.0	3597.8	3409.0	3276.0	3091.1	2910.4	2707.7	2479.3	2280.7	2078.0
45°	4462.0	4336.8	4245.4	4056.7	3917.6	3699.0	3480.6	3266.1	3001.7	2745.5	2511.1
47.5°	5153.3	5049.9	4899.0	4746.1	4605.0	4358.7	4122.2	3862.0	3583.8	3279.9	2975.9
50°	5761.2	5679.8	5576.4	5391.7	5234.8	5028.1	4750.0	4465.9	4114.3	3812.3	3466.7
52.5°	6277.7	6214.1	6069.1	5938.0	5796.9	5602.2	5354.0	5081.8	4702.4	4370.5	3977.2
55°	6887.6	6841.9	6714.8	6633.3	6508.2	6321.5	6089.0	5836.8	5435.4	5073.8	4628.8
57.5°	7886.9	7851.2	7739.8	7706.1	7582.9	7420.0	7134.0	6863.8	6395.0	5945.9	5437.4
60°	9541.7	9470.3	9307.3	9223.9	8963.6	8745.1	8373.7	8002.1	7435.9	6863.8	6251.9
62.5°	11313.8	11113.1	10803.2	10537.1	10167.6	9788.0	9291.4	8723.3	8059.8	7380.3	6677.0
65°	12269.3	11927.7	11536.3	11113.1	10634.4	10076.1	9450.4	8769.0	8055.8	7338.6	6595.6
66°	12378.6	11993.2	11578.1	11107.2	10574.8	9980.8	9345.1	8629.9	7888.8	7189.6	6446.6
67.5°	12241.6	11838.3	11399.3	10876.8	10300.6	9684.8	9017.3	8274.3	7561.0	6851.8	6128.7
70°	11282.0	10880.7	10489.3	9939.1	9325.1	8705.4	8073.6	7243.3	6567.8	5916.1	5272.5
72.5°	9009.3	8737.2	8349.8	7878.9	7280.9	6553.8	6027.4	5284.5	4698.4	4066.6	3568.0
75°	5630.1	5246.7	4767.9	4168.0	3711.0	3120.9	2813.1	2248.8	1915.1	1623.1	1341.0
77.5°	2878.6	2590.6	2254.9	1917.1	1593.3	1271.4	983.3	695.4	468.8	325.8	242.4
80°	2378.0	2123.7	1845.5	1537.7	1251.6	971.5	699.3	476.8	304.0	198.7	154.9
82.5°	1964.7	1750.2	1501.8	1215.8	967.5	762.9	530.4	345.6	214.5	139.1	109.3
85°	836.4	758.9	586.1	464.8	349.6	258.3	180.8	121.2	85.4	69.5	63.6
87.5°	35.7	39.7	37.8	29.8	21.8	21.8	19.9	15.9	15.9	15.9	15.9
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°	311.9	311.9	311.9	311.9	311.9	311.9	311.9	311.9	311.9	311.9	311.9
2.5°	325.8	323.8	321.9	321.9	319.8	317.9	305.9	296.0	284.1	276.1	268.2
5°	339.7	337.7	333.8	331.8	327.8	325.8	300.0	278.1	260.2	246.3	236.5
7.5°	353.6	351.7	345.6	339.7	337.7	333.8	292.1	264.2	240.4	224.5	214.5
10°	371.4	365.5	359.6	351.7	345.6	339.7	284.1	248.3	222.5	208.6	198.7
12.5°	397.3	387.4	377.5	367.5	359.6	349.6	280.1	234.4	208.6	192.7	182.8
15°	427.2	413.2	401.2	389.4	375.4	365.5	272.2	222.5	196.6	180.8	168.9
17.5°	454.9	439.0	421.2	403.3	389.4	375.4	264.2	210.6	184.7	168.9	157.0
20°	494.6	470.9	449.0	427.2	407.3	389.4	252.3	198.7	174.8	157.0	145.0
22.5°	538.4	510.5	482.8	453.0	427.2	403.3	242.4	188.7	164.9	147.1	133.1
25°	594.0	560.2	522.5	484.7	454.9	423.2	232.5	178.8	154.9	137.0	123.2
27.5°	671.5	623.8	582.1	534.4	488.7	453.0	224.5	170.8	145.0	127.2	113.3
30°	776.8	707.2	641.7	590.0	536.4	484.7	216.5	160.9	137.0	117.3	101.3
32.5°	893.9	812.5	737.0	659.5	592.0	532.4	208.6	153.0	127.2	107.2	93.4
35°	1039.1	935.7	834.3	744.9	663.5	584.0	200.6	145.0	119.2	97.4	83.5
37.5°	1247.6	1118.4	985.4	870.2	764.9	659.5	194.7	137.0	109.3	87.5	73.5
40°	1533.7	1366.8	1203.9	1046.9	909.9	778.7	186.7	129.1	101.3	79.5	65.5
42.5°	1843.6	1640.9	1426.4	1249.6	1060.9	896.0	178.8	121.2	93.4	71.5	57.7
45°	2229.0	1976.7	1716.5	1476.0	1245.6	1033.0	170.8	113.3	83.5	63.6	49.7
47.5°	2650.2	2328.3	2034.3	1732.4	1458.2	1203.9	160.9	107.2	75.5	55.6	43.7
50°	3083.3	2743.6	2372.0	2028.3	1702.6	1374.8	151.0	97.4	67.6	49.7	35.7
52.5°	3550.0	3148.8	2769.4	2342.2	1962.8	1599.2	141.0	89.4	61.5	43.7	29.8
55°	4144.1	3695.2	3250.1	2771.3	2314.5	1859.5	131.1	79.5	53.7	37.8	23.9
57.5°	4891.1	4358.7	3812.3	3272.0	2717.8	2201.2	123.2	69.5	45.7	31.7	19.9
60°	5596.3	4974.5	4313.0	3691.2	3065.3	2463.4	111.2	61.5	39.7	25.8	19.9
62.5°	5961.9	5252.6	4539.4	3854.1	3186.6	2556.8	99.3	51.6	33.8	21.8	17.9
65°	5872.5	5149.4	4458.0	3766.6	3113.1	2497.2	87.5	45.7	29.8	19.9	17.9
66°	5743.4	5028.1	4332.9	3675.3	3051.4	2433.6	81.4	43.7	27.9	19.9	15.9
67.5°	5461.2	4769.8	4106.3	3494.4	2882.5	2312.4	73.5	39.7	25.8	17.9	15.9
70°	4664.6	4036.8	3506.4	2962.0	2463.4	1948.9	59.6	33.8	21.8	15.9	15.9
72.5°	3087.2	2660.1	2306.5	1984.6	1658.8	1287.3	49.7	27.9	17.9	15.9	13.9
75°	1164.2	1052.9	903.9	812.5	709.2	621.8	39.7	17.9	13.9	13.9	13.9
77.5°	206.7	190.7	168.9	154.9	143.1	131.1	31.7	11.9	11.9	13.9	13.9
80°	139.1	129.1	117.3	107.2	99.3	89.4	21.8	9.9	11.9	11.9	13.9
82.5°	99.3	93.4	87.5	79.5	73.5	65.5	13.9	9.9	11.9	11.9	11.9
85°	59.6	55.6	51.6	47.7	41.7	39.7	9.9	9.9	9.9	11.9	11.9
87.5°	15.9	13.9	15.9	15.9	11.9	13.9	8.0	8.0	8.0	9.9	9.9
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°	311.9	311.9	311.9	311.9	311.9
2.5°	264.2	264.2	260.2	266.3	266.3
5°	228.5	228.5	226.4	228.5	228.5
7.5°	208.6	206.7	206.7	206.7	208.6
10°	190.7	188.7	188.7	188.7	188.7
12.5°	174.8	172.9	170.8	172.9	172.9
15°	160.9	157.0	157.0	157.0	157.0
17.5°	149.0	145.0	143.1	143.1	143.1
20°	137.0	131.1	131.1	131.1	131.1
22.5°	125.1	119.2	119.2	119.2	119.2
25°	113.3	107.2	107.2	107.2	107.2
27.5°	103.3	97.4	97.4	97.4	97.4
30°	91.4	87.5	87.5	89.4	87.5
32.5°	83.5	77.5	77.5	79.5	79.5
35°	73.5	69.5	69.5	69.5	69.5
37.5°	63.6	59.6	59.6	59.6	59.6
40°	55.6	51.6	49.7	51.6	51.6
42.5°	47.7	43.7	41.7	41.7	41.7
45°	41.7	35.7	33.8	35.7	35.7
47.5°	33.8	29.8	29.8	31.7	31.7
50°	25.8	25.8	27.9	31.7	31.7
52.5°	23.9	23.9	27.9	31.7	31.7
55°	21.8	23.9	27.9	29.8	31.7
57.5°	19.9	23.9	27.9	29.8	29.8
60°	19.9	21.8	25.8	29.8	29.8
62.5°	17.9	19.9	23.9	27.9	27.9
65°	17.9	19.9	23.9	27.9	27.9
66°	17.9	19.9	23.9	27.9	27.9
67.5°	17.9	19.9	23.9	27.9	27.9
70°	17.9	19.9	23.9	25.8	25.8
72.5°	15.9	17.9	21.8	25.8	25.8
75°	15.9	17.9	21.8	25.8	25.8
77.5°	15.9	17.9	21.8	25.8	25.8
80°	15.9	17.9	21.8	23.9	25.8
82.5°	13.9	17.9	19.9	23.9	23.9
85°	13.9	15.9	19.9	21.8	23.9
87.5°	11.9	13.9	15.9	19.9	19.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)