

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: P165303

Luminaire Tested: **VST-F08-LED-E-U-SL3-HSS-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165303
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-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (56) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11609 lumens
Efficiency: N/A
Efficacy: 56.8 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 - 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

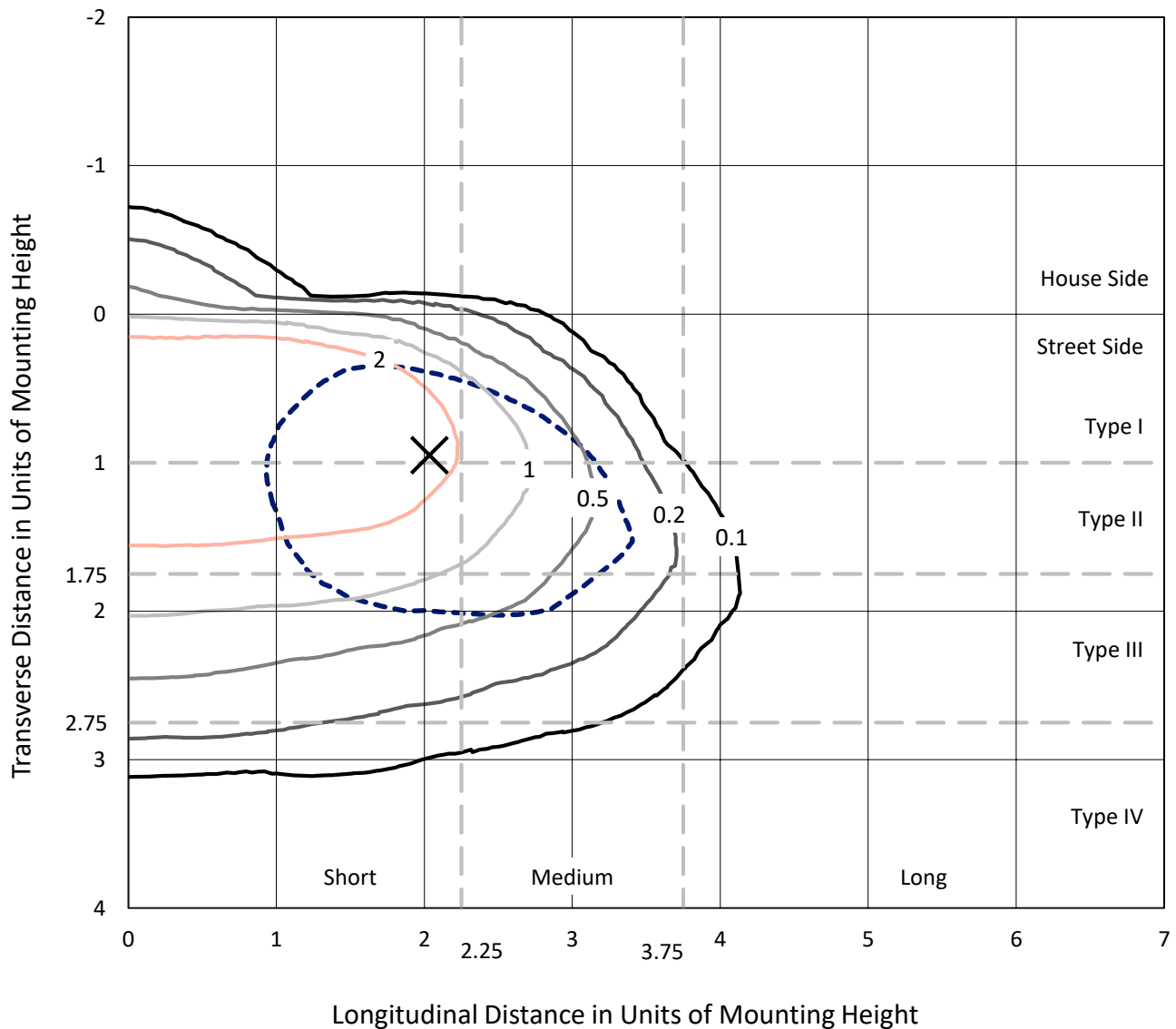


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

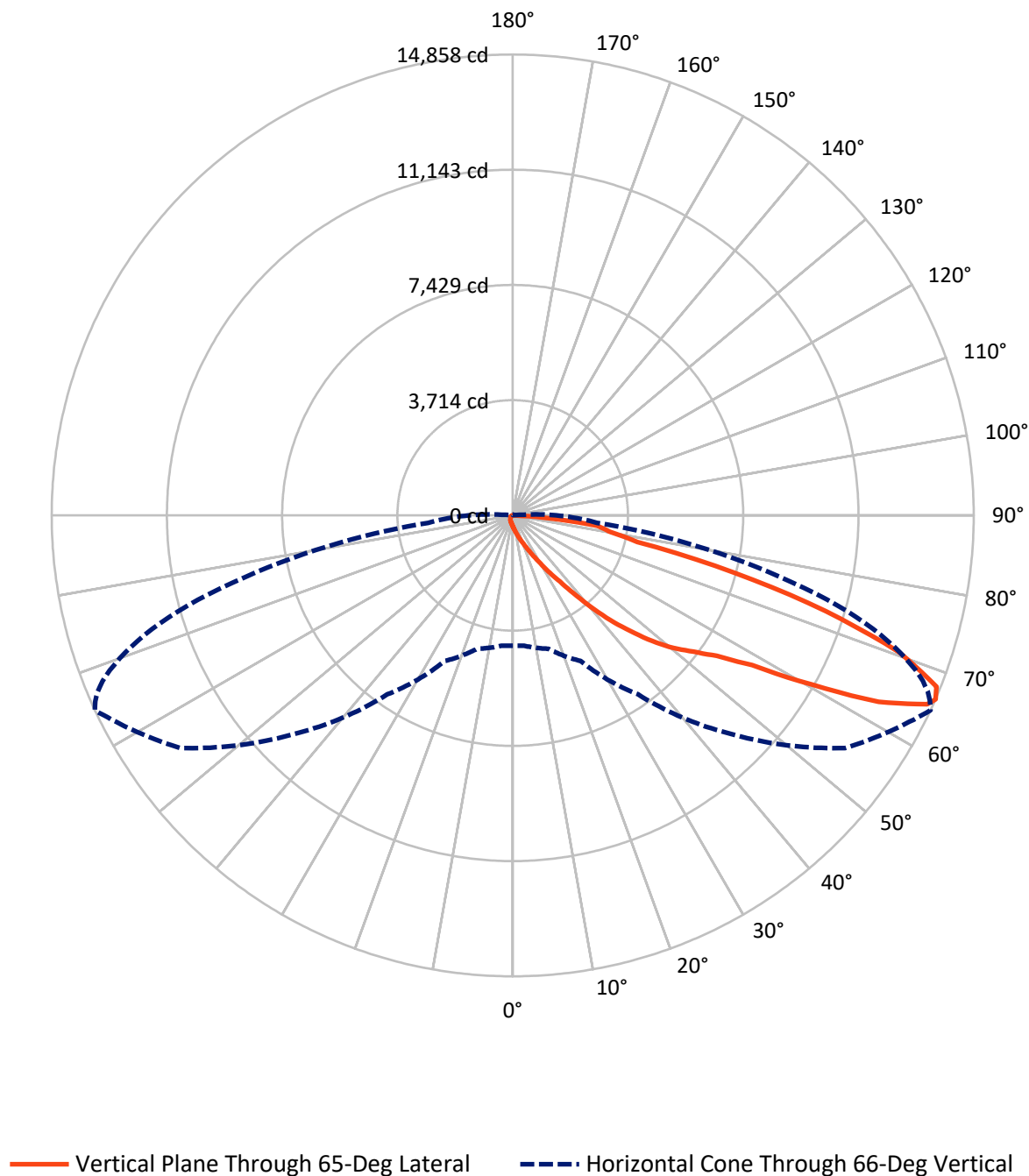


Based on 20 foot mounting height. Maximum calculated value = 4.8 fc
Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	251.6	0.0	251.6
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	11357.4	0.0	11357.4
	% Fixture	97.8	0.0	97.8
Total	Lumens	11609.0	0.0	11609.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.2	0.3
10°-20°	166.3	1.4
20°-30°	358.7	3.1
30°-40°	766.1	6.6
40°-50°	1694.2	14.6
50°-60°	2871.1	24.7
60°-70°	3831.3	33.0
70°-80°	1687.6	14.5
80°-90°	194.4	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°	11609.0	100.0
0°-180°	11609.0	100.0

Coefficient of Utilization



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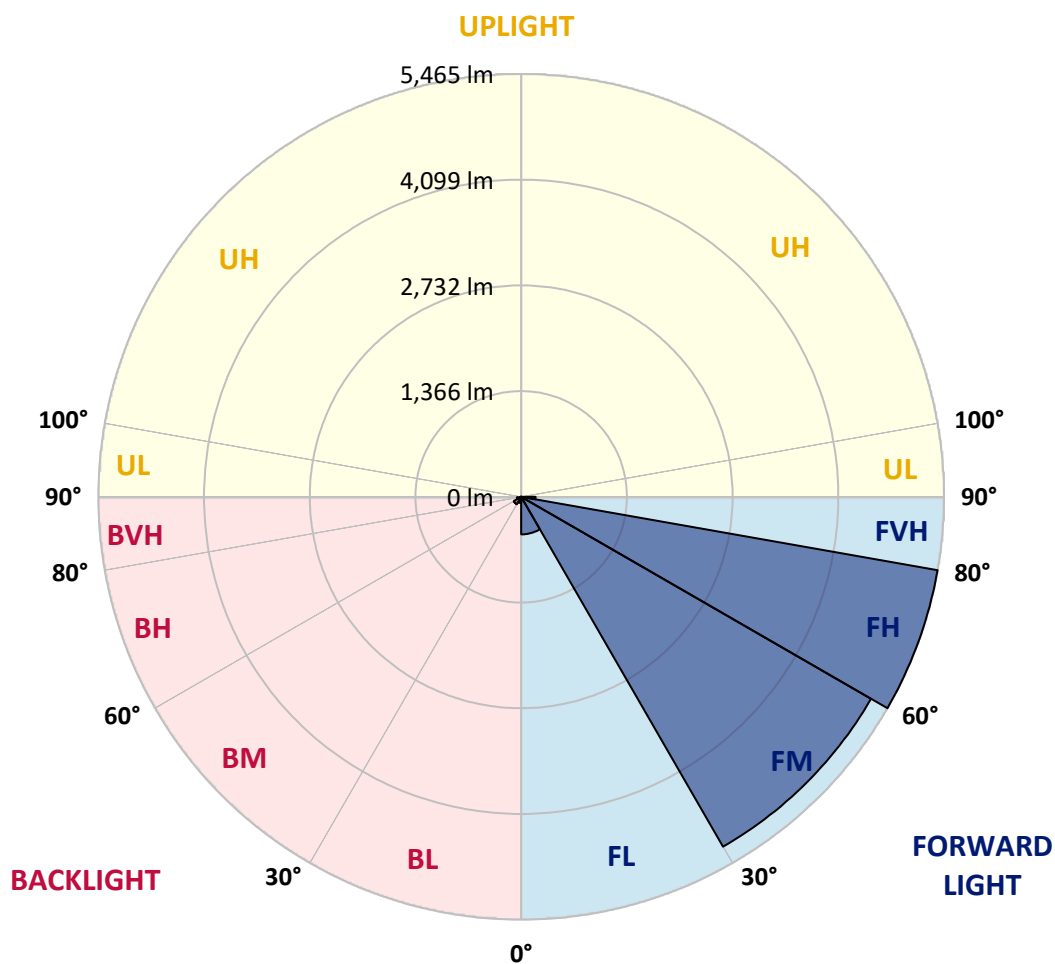
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	484.9	4.2			
FM	(30°-60°)	5220.9	45.0			
FH	(60°-80°)	5464.9	47.1			G3/7500
FVH	(80°-90°)	186.6	1.6			G2/225
BL	(0°-30°)	79.4	0.7	B0/110		
BM	(30°-60°)	110.5	1.0	B0/220		
BH	(60°-80°)	54.0	0.5	B0/110		G0/110
BVH	(80°-90°)	7.7	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°	350.4	350.4	350.4	350.4	350.4	350.4	350.4	350.4	350.4	350.4	350.4
2.5°	442.0	439.7	430.7	430.7	417.3	408.5	397.2	386.1	386.1	383.8	381.7
5°	584.7	571.4	569.1	544.6	524.5	495.5	468.7	433.0	428.6	424.1	421.8
7.5°	743.3	741.0	720.9	691.9	651.8	598.1	544.6	486.6	477.6	473.1	464.2
10°	948.6	937.3	910.6	861.4	801.3	729.8	642.8	551.2	540.1	531.2	526.7
12.5°	1145.0	1124.9	1109.2	1046.7	970.8	865.9	761.0	629.4	620.5	609.4	591.5
15°	1327.9	1310.1	1283.4	1229.8	1145.0	1013.2	890.6	729.8	707.5	691.9	678.5
17.5°	1470.8	1459.7	1428.4	1368.2	1276.6	1160.6	1013.2	832.4	814.7	794.5	770.0
20°	1607.0	1591.3	1542.2	1459.7	1361.4	1272.1	1158.4	966.3	941.8	917.3	890.6
22.5°	1736.4	1720.7	1640.5	1504.3	1399.4	1361.4	1321.3	1118.1	1080.2	1060.1	1033.3
25°	1917.2	1883.8	1758.7	1542.2	1401.7	1430.7	1499.8	1314.5	1278.9	1249.9	1207.5
27.5°	2160.5	2115.8	1919.4	1598.1	1410.5	1506.6	1705.1	1553.3	1515.4	1481.9	1435.1
30°	2435.0	2406.0	2171.6	1732.0	1475.3	1618.1	1935.0	1856.9	1812.3	1772.1	1716.4
32.5°	2711.7	2671.6	2439.4	1986.4	1649.3	1834.6	2223.0	2209.6	2151.6	2113.6	2053.3
35°	2955.0	2934.9	2763.1	2403.7	2046.7	2214.1	2606.8	2622.4	2571.2	2530.9	2464.0
37.5°	3120.2	3120.2	3086.7	2852.3	2678.2	2803.2	3171.5	3173.8	3122.4	3030.9	2997.4
40°	3204.9	3229.5	3350.1	3394.7	3385.7	3546.5	3912.5	3872.3	3829.9	3783.0	3671.4
42.5°	3379.1	3401.3	3658.0	3966.1	4166.9	4378.9	4631.1	4617.7	4566.5	4481.6	4378.9
45°	3673.7	3702.7	4008.5	4497.2	4910.1	5211.5	5372.1	5309.6	5258.2	5178.0	5124.3
47.5°	4048.6	4104.5	4450.3	5055.2	5552.9	6050.6	6217.9	6052.9	6008.3	5945.7	5858.6
50°	4448.2	4501.7	4869.9	5561.8	6124.3	6717.9	6997.0	6717.9	6653.3	6633.1	6535.0
52.5°	4794.0	4838.8	5193.6	5952.4	6561.7	7258.0	7664.2	7296.0	7249.1	7182.1	7110.7
55°	4999.4	5035.2	5367.6	6139.9	6858.6	7744.6	8309.3	7985.7	7916.4	7889.7	7787.0
57.5°	5068.6	5104.3	5403.4	6164.4	7019.2	8188.7	9092.7	9103.8	9021.3	8925.3	8894.0
60°	5068.6	5108.7	5361.0	6104.2	7175.5	8661.9	10137.1	11067.8	10889.3	10871.4	10757.6
62.5°	4858.8	4896.8	5151.2	5919.0	7385.3	9300.2	11592.3	13235.0	13183.7	13067.6	12880.2
65°	4403.4	4425.8	4675.7	5445.8	7304.9	9887.2	12853.3	14676.8	14594.2	14366.5	14125.6
66°	4198.1	4216.0	4450.3	5175.7	7041.6	9967.6	13076.5	14857.6	14721.5	14529.4	14257.2
67.5°	3901.3	3932.6	4097.7	4673.6	6410.0	9688.5	12936.0	14730.4	14612.1	14380.0	14107.7
70°	2604.7	2582.3	3164.8	3586.6	4883.4	7894.2	11605.7	13226.0	13228.3	13119.0	13009.6
72.5°	1236.5	1249.9	1419.4	2207.3	3196.0	5274.0	9237.7	10556.7	10708.5	10512.1	10375.9
75°	888.3	908.3	1011.1	1350.3	1906.0	3164.8	5988.1	7383.0	7387.4	7039.3	6729.2
77.5°	258.9	270.1	379.4	832.4	1428.4	2135.9	3439.3	4104.5	4008.5	3758.4	3524.1
80°	107.1	107.1	111.5	265.6	573.6	1450.7	2406.0	3160.3	3149.2	3053.3	2914.9
82.5°	40.1	42.4	53.5	109.4	136.2	357.1	1604.7	2743.0	2736.3	2600.2	2501.9
85°	4.5	4.5	13.4	46.9	51.4	67.0	321.3	1209.6	1203.0	1209.6	1060.1
87.5°	0.0	0.0	2.2	4.5	6.6	8.9	13.4	46.9	51.4	49.1	44.6
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°	350.4	350.4	350.4	350.4	350.4	350.4	350.4	350.4	350.4	350.4	350.4
2.5°	381.7	377.2	377.2	375.0	375.0	375.0	372.7	370.5	370.5	368.2	366.1
5°	417.3	412.8	410.7	406.2	404.0	401.7	397.2	395.1	390.6	388.3	386.1
7.5°	459.7	450.8	448.6	442.0	435.2	430.7	426.2	419.6	415.1	406.2	404.0
10°	513.4	502.1	493.2	484.3	477.6	466.5	459.7	450.8	442.0	435.2	428.6
12.5°	582.5	566.9	553.5	544.6	529.0	515.6	502.1	495.5	477.6	468.7	457.6
15°	658.4	640.5	624.9	607.0	595.9	573.6	555.7	535.6	526.7	511.1	493.2
17.5°	756.5	727.5	703.0	685.3	662.9	640.5	620.5	600.4	573.6	555.7	533.5
20°	861.4	836.9	803.4	772.3	745.4	718.7	689.6	662.9	638.4	609.4	582.5
22.5°	995.5	959.7	919.6	888.3	852.6	823.6	783.4	747.7	707.5	669.5	638.4
25°	1165.0	1118.1	1080.2	1035.6	993.2	948.6	899.4	854.8	803.4	767.8	714.3
27.5°	1374.8	1330.2	1278.9	1220.9	1178.5	1111.5	1046.7	991.0	930.7	874.9	814.7
30°	1642.6	1578.0	1524.3	1468.6	1383.8	1319.0	1243.1	1167.3	1084.7	1029.0	937.3
32.5°	1964.0	1894.9	1814.5	1734.1	1656.1	1564.6	1470.8	1377.0	1285.5	1182.9	1089.1
35°	2356.9	2274.2	2182.7	2095.7	1975.2	1877.0	1758.7	1629.2	1526.6	1408.3	1290.0
37.5°	2876.9	2740.7	2660.4	2568.9	2406.0	2272.1	2140.3	2010.9	1830.1	1705.1	1537.7
40°	3528.6	3448.2	3316.6	3169.3	3022.0	2845.6	2667.1	2495.3	2285.5	2111.3	1917.2
42.5°	4294.1	4175.9	4042.0	3829.9	3680.4	3472.7	3269.7	3042.0	2785.3	2562.2	2334.5
45°	5012.8	4872.2	4769.5	4557.5	4401.3	4155.7	3910.2	3669.3	3372.3	3084.4	2821.1
47.5°	5789.5	5673.4	5503.8	5332.0	5173.5	4896.8	4631.1	4338.8	4026.3	3684.8	3343.3
50°	6472.5	6381.0	6264.8	6057.3	5881.0	5648.8	5336.4	5017.3	4622.2	4282.9	3894.7
52.5°	7052.7	6981.3	6818.3	6671.0	6512.6	6293.8	6014.9	5709.2	5282.9	4910.1	4468.2
55°	7737.9	7686.6	7543.7	7452.2	7311.7	7101.9	6840.7	6557.3	6106.4	5700.2	5200.2
57.5°	8860.5	8820.4	8695.3	8657.4	8519.0	8336.0	8014.7	7711.1	7184.4	6680.0	6108.7
60°	10719.6	10639.4	10456.3	10362.6	10070.2	9824.7	9407.4	8990.0	8353.9	7711.1	7023.7
62.5°	12710.5	12485.1	12136.9	11837.9	11422.8	10996.4	10438.4	9800.2	9054.8	8291.4	7501.3
65°	13784.0	13400.2	12960.5	12485.1	11947.3	11320.0	10617.0	9851.6	9050.3	8244.6	7409.8
66°	13906.8	13473.8	13007.4	12478.4	11880.3	11213.0	10498.7	9695.3	8862.7	8077.2	7242.4
67.5°	13752.8	13299.8	12806.6	12219.6	11572.3	10880.4	10130.5	9295.7	8494.5	7697.7	6885.3
70°	12674.8	12223.9	11784.2	11166.1	10476.4	9780.1	9070.4	8137.5	7378.6	6646.5	5923.4
72.5°	10121.5	9815.8	9380.6	8851.6	8179.8	7362.9	6771.5	5936.8	5278.4	4568.7	4008.5
75°	6325.1	5894.4	5356.5	4682.5	4169.1	3506.2	3160.3	2526.5	2151.6	1823.4	1506.6
77.5°	3233.9	2910.4	2533.2	2153.7	1790.0	1428.4	1104.7	781.2	526.7	366.1	272.3
80°	2671.6	2385.9	2073.4	1727.5	1406.1	1091.4	785.7	535.6	341.5	223.2	174.0
82.5°	2207.3	1966.3	1687.2	1365.9	1087.0	857.1	595.9	388.3	241.0	156.3	122.8
85°	939.6	852.6	658.4	522.2	392.8	290.2	203.2	136.2	96.0	78.1	71.4
87.5°	40.1	44.6	42.4	33.5	24.5	24.5	22.4	17.9	17.9	17.9	17.9
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°	350.4	350.4	350.4	350.4	350.4	350.4	350.4	350.4	350.4	350.4	350.4
2.5°	366.1	363.8	361.6	361.6	359.3	357.1	343.7	332.6	319.2	310.2	301.3
5°	381.7	379.4	375.0	372.7	368.2	366.1	337.1	312.4	292.3	276.8	265.6
7.5°	397.2	395.1	388.3	381.7	379.4	375.0	328.1	296.8	270.1	252.2	241.0
10°	417.3	410.7	404.0	395.1	388.3	381.7	319.2	278.9	249.9	234.3	223.2
12.5°	446.3	435.2	424.1	412.8	404.0	392.8	314.7	263.3	234.3	216.4	205.3
15°	479.9	464.2	450.8	437.5	421.8	410.7	305.8	249.9	220.9	203.2	189.7
17.5°	511.1	493.2	473.1	453.1	437.5	421.8	296.8	236.6	207.5	189.7	176.3
20°	555.7	529.0	504.5	479.9	457.6	437.5	283.4	223.2	196.4	176.3	162.9
22.5°	604.9	573.6	542.4	508.9	479.9	453.1	272.3	212.0	185.3	165.2	149.5
25°	667.4	629.4	587.0	544.6	511.1	475.4	261.2	200.9	174.0	154.0	138.4
27.5°	754.4	700.8	653.9	600.4	549.0	508.9	252.2	191.9	162.9	142.9	127.3
30°	872.7	794.5	720.9	662.9	602.6	544.6	243.3	180.8	154.0	131.7	113.8
32.5°	1004.3	912.8	828.0	741.0	665.1	598.1	234.3	171.9	142.9	120.5	104.9
35°	1167.3	1051.2	937.3	836.9	745.4	656.1	225.4	162.9	133.9	109.4	93.8
37.5°	1401.7	1256.5	1107.0	977.6	859.3	741.0	218.7	154.0	122.8	98.3	82.5
40°	1723.0	1535.6	1352.5	1176.1	1022.2	874.9	209.8	145.0	113.8	89.3	73.6
42.5°	2071.2	1843.5	1602.5	1403.8	1191.9	1006.6	200.9	136.2	104.9	80.4	64.8
45°	2504.2	2220.7	1928.4	1658.2	1399.4	1160.6	191.9	127.3	93.8	71.4	55.8
47.5°	2977.4	2615.8	2285.5	1946.2	1638.2	1352.5	180.8	120.5	84.8	62.5	49.1
50°	3463.9	3082.3	2664.8	2278.7	1912.8	1544.5	169.7	109.4	75.9	55.8	40.1
52.5°	3988.3	3537.5	3111.3	2631.4	2205.1	1796.6	158.4	100.4	69.1	49.1	33.5
55°	4655.7	4151.3	3651.4	3113.4	2600.2	2089.1	147.3	89.3	60.3	42.4	26.8
57.5°	5494.9	4896.8	4282.9	3675.9	3053.3	2472.9	138.4	78.1	51.4	35.6	22.4
60°	6287.2	5588.7	4845.4	4146.9	3443.7	2767.6	125.0	69.1	44.6	29.0	22.4
62.5°	6697.9	5901.1	5099.8	4329.8	3579.9	2872.5	111.5	58.0	37.9	24.5	20.1
65°	6597.4	5785.1	5008.3	4231.6	3497.4	2805.5	98.3	51.4	33.5	22.4	20.1
66°	6452.4	5648.8	4867.8	4129.0	3428.1	2734.1	91.5	49.1	31.3	22.4	17.9
67.5°	6135.4	5358.7	4613.2	3925.8	3238.4	2597.9	82.5	44.6	29.0	20.1	17.9
70°	5240.5	4535.2	3939.2	3327.7	2767.6	2189.5	67.0	37.9	24.5	17.9	17.9
72.5°	3468.3	2988.5	2591.2	2229.6	1863.6	1446.3	55.8	31.3	20.1	17.9	15.6
75°	1307.9	1182.9	1015.5	912.8	796.8	698.5	44.6	20.1	15.6	15.6	15.6
77.5°	232.2	214.3	189.7	174.0	160.7	147.3	35.6	13.4	13.4	15.6	15.6
80°	156.3	145.0	131.7	120.5	111.5	100.4	24.5	11.1	13.4	13.4	15.6
82.5°	111.5	104.9	98.3	89.3	82.5	73.6	15.6	11.1	13.4	13.4	13.4
85°	67.0	62.5	58.0	53.5	46.9	44.6	11.1	11.1	11.1	13.4	13.4
87.5°	17.9	15.6	17.9	17.9	13.4	15.6	8.9	8.9	8.9	11.1	11.1
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):

	145°	155°	165°	175°	180°
0°	350.4	350.4	350.4	350.4	350.4
2.5°	296.8	296.8	292.3	299.1	299.1
5°	256.7	256.7	254.4	256.7	256.7
7.5°	234.3	232.2	232.2	232.2	234.3
10°	214.3	212.0	212.0	212.0	212.0
12.5°	196.4	194.2	191.9	194.2	194.2
15°	180.8	176.3	176.3	176.3	176.3
17.5°	167.4	162.9	160.7	160.7	160.7
20°	154.0	147.3	147.3	147.3	147.3
22.5°	140.5	133.9	133.9	133.9	133.9
25°	127.3	120.5	120.5	120.5	120.5
27.5°	116.0	109.4	109.4	109.4	109.4
30°	102.7	98.3	98.3	100.4	98.3
32.5°	93.8	87.0	87.0	89.3	89.3
35°	82.5	78.1	78.1	78.1	78.1
37.5°	71.4	67.0	67.0	67.0	67.0
40°	62.5	58.0	55.8	58.0	58.0
42.5°	53.5	49.1	46.9	46.9	46.9
45°	46.9	40.1	37.9	40.1	40.1
47.5°	37.9	33.5	33.5	35.6	35.6
50°	29.0	29.0	31.3	35.6	35.6
52.5°	26.8	26.8	31.3	35.6	35.6
55°	24.5	26.8	31.3	33.5	35.6
57.5°	22.4	26.8	31.3	33.5	33.5
60°	22.4	24.5	29.0	33.5	33.5
62.5°	20.1	22.4	26.8	31.3	31.3
65°	20.1	22.4	26.8	31.3	31.3
66°	20.1	22.4	26.8	31.3	31.3
67.5°	20.1	22.4	26.8	31.3	31.3
70°	20.1	22.4	26.8	29.0	29.0
72.5°	17.9	20.1	24.5	29.0	29.0
75°	17.9	20.1	24.5	29.0	29.0
77.5°	17.9	20.1	24.5	29.0	29.0
80°	17.9	20.1	24.5	26.8	29.0
82.5°	15.6	20.1	22.4	26.8	26.8
85°	15.6	17.9	22.4	24.5	26.8
87.5°	13.4	15.6	17.9	22.4	22.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)