

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: P165291

Luminaire Tested: **VST-F07-LED-E-U-SL3-HSS-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165291
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-F07-LED-E-U-SL3-HSS-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (49) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9041.7 lumens
Efficiency: N/A
Efficacy: 50.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

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



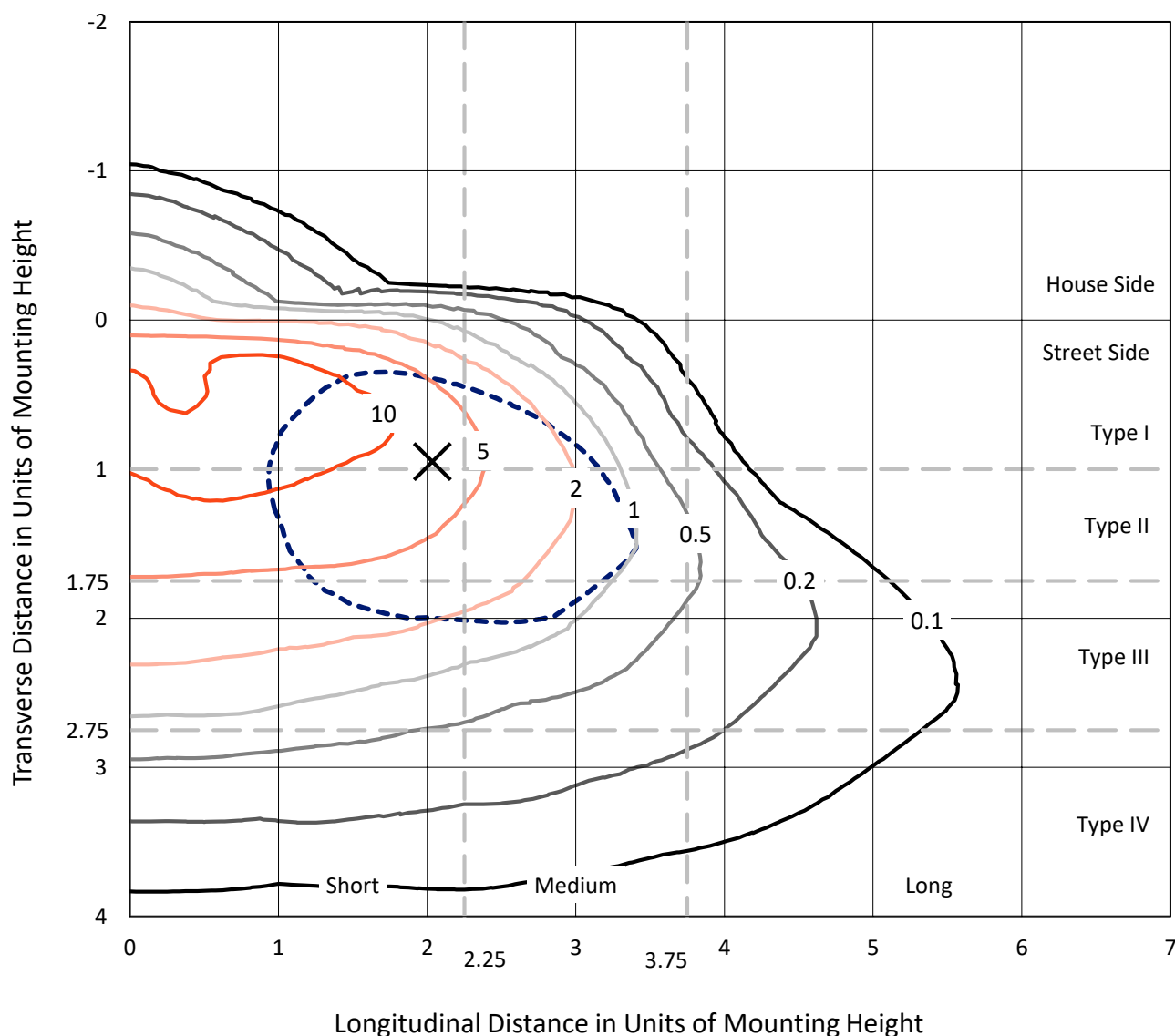
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

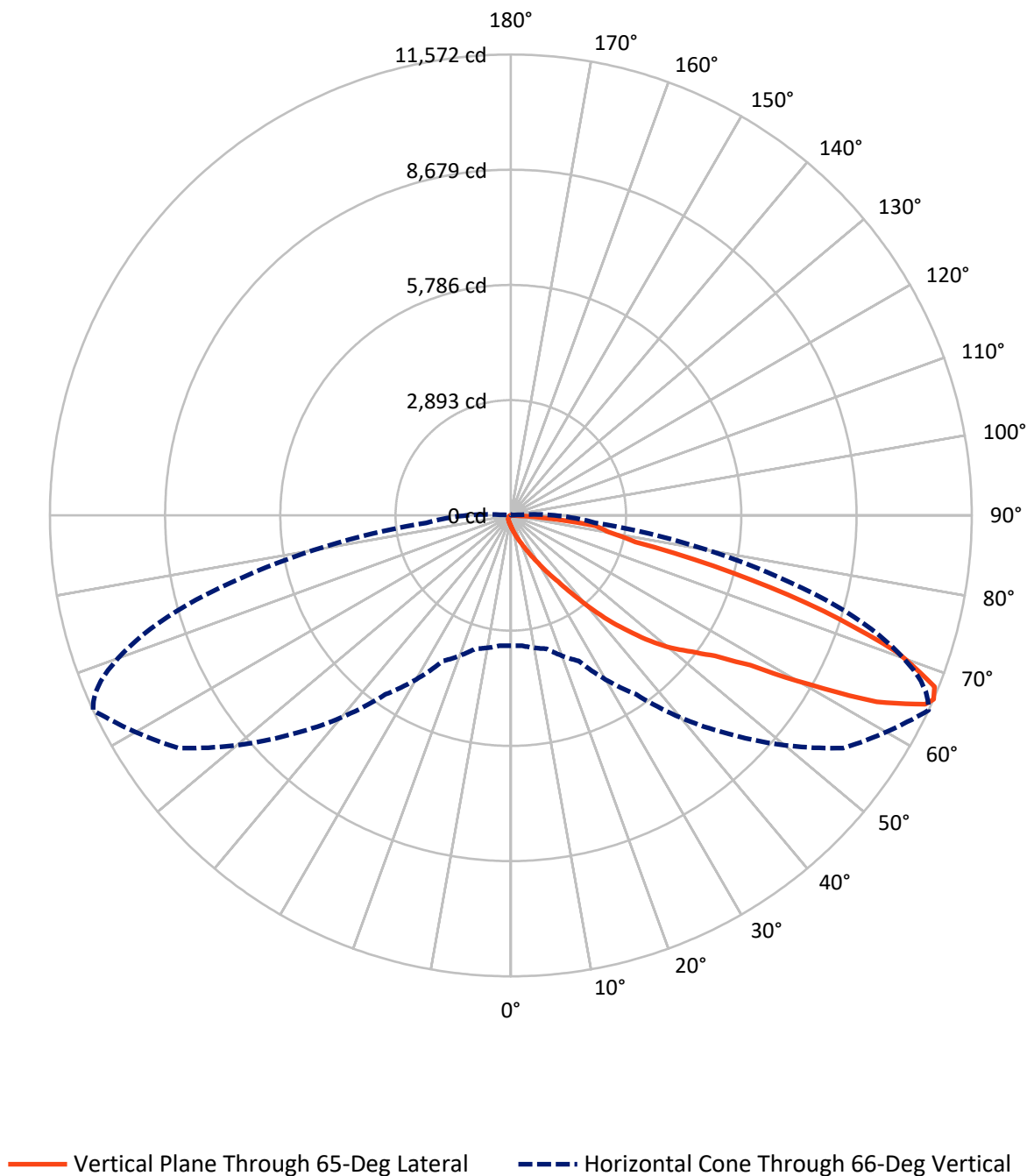


Based on 10 foot mounting height. Maximum calculated value = 14.9 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	195.9	0.0	195.9
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	8845.7	0.0	8845.7
	% Fixture	97.8	0.0	97.8
Total	Lumens	9041.7	0.0	9041.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.6	0.3
10°-20°	129.5	1.4
20°-30°	279.4	3.1
30°-40°	596.7	6.6
40°-50°	1319.5	14.6
50°-60°	2236.2	24.7
60°-70°	2984.0	33.0
70°-80°	1314.4	14.5
80°-90°	151.4	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°	9041.7	100.0
0°-180°	9041.7	100.0

Coefficient of Utilization



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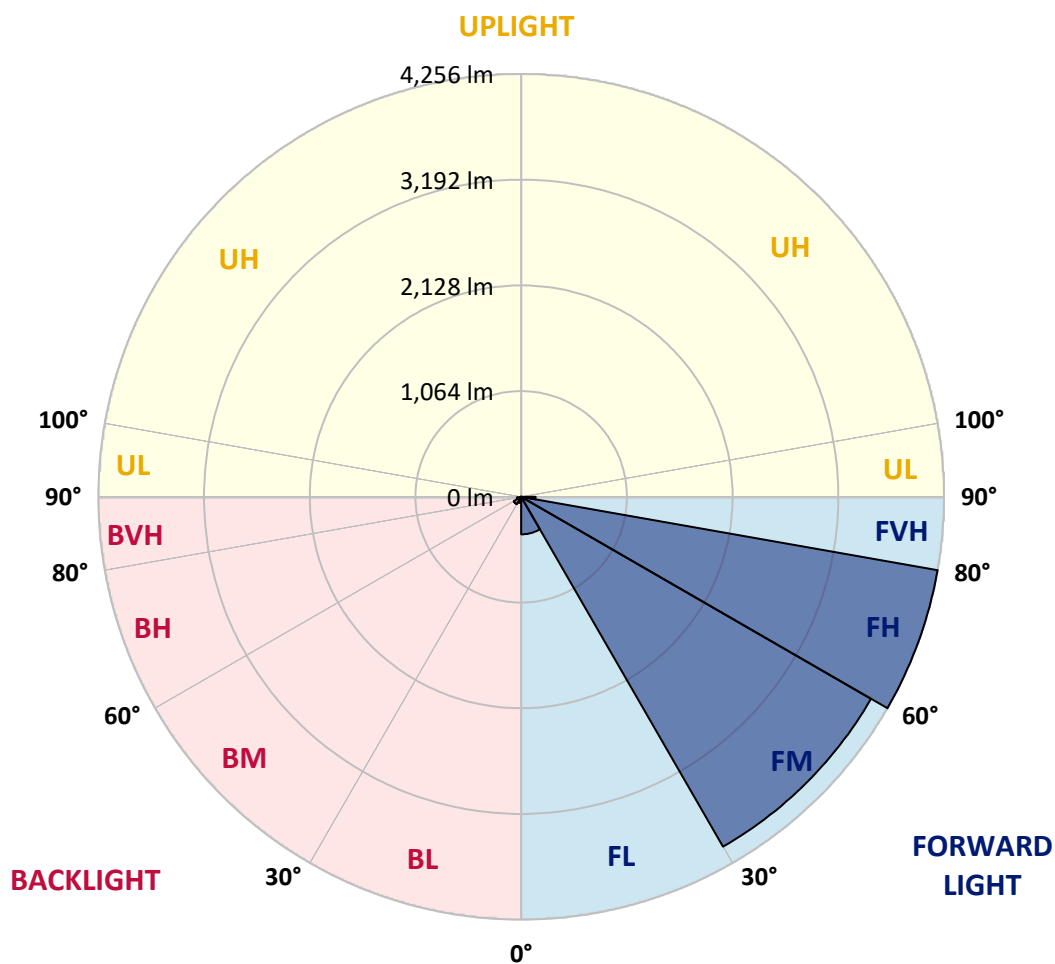
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	377.7	4.2			
FM	(30°-60°)	4066.3	45.0			
FH	(60°-80°)	4256.4	47.1			G2/5000
FVH	(80°-90°)	145.4	1.6			G2/225
BL	(0°-30°)	61.8	0.7	B0/110		
BM	(30°-60°)	86.0	1.0	B0/220		
BH	(60°-80°)	42.0	0.5	B0/110		G0/110
BVH	(80°-90°)	6.0	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9
2.5°	344.2	342.4	335.5	335.5	325.0	318.2	309.4	300.7	300.7	298.9	297.3
5°	455.4	445.0	443.2	424.1	408.5	385.9	365.0	337.3	333.8	330.3	328.5
7.5°	578.9	577.1	561.5	538.9	507.6	465.8	424.1	379.0	372.0	368.5	361.5
10°	738.8	730.0	709.3	670.9	624.1	568.4	500.7	429.3	420.7	413.7	410.2
12.5°	891.8	876.1	863.9	815.2	756.1	674.4	592.7	490.2	483.2	474.6	460.7
15°	1034.3	1020.3	999.5	957.8	891.8	789.2	693.6	568.4	551.0	538.9	528.4
17.5°	1145.5	1136.9	1112.5	1065.6	994.3	903.9	789.2	648.3	634.5	618.8	599.7
20°	1251.6	1239.4	1201.2	1136.9	1060.3	990.8	902.2	752.6	733.5	714.4	693.6
22.5°	1352.4	1340.2	1277.7	1171.6	1089.9	1060.3	1029.1	870.9	841.3	825.7	804.8
25°	1493.2	1467.2	1369.7	1201.2	1091.7	1114.3	1168.1	1023.8	996.1	973.5	940.4
27.5°	1682.7	1647.9	1494.9	1244.6	1098.6	1173.4	1328.0	1209.8	1180.3	1154.2	1117.8
30°	1896.5	1873.9	1691.4	1348.9	1149.0	1260.3	1507.1	1446.3	1411.5	1380.2	1336.8
32.5°	2112.0	2080.8	1900.0	1547.1	1284.5	1428.8	1731.4	1720.9	1675.8	1646.2	1599.2
35°	2301.5	2285.9	2152.0	1872.1	1594.0	1724.4	2030.3	2042.5	2002.6	1971.2	1919.1
37.5°	2430.2	2430.2	2404.1	2221.5	2086.0	2183.3	2470.1	2471.9	2431.9	2360.6	2334.5
40°	2496.2	2515.3	2609.2	2643.9	2637.0	2762.2	3047.3	3015.9	2982.9	2946.4	2859.5
42.5°	2631.8	2649.1	2849.0	3089.0	3245.4	3410.5	3607.0	3596.5	3556.6	3490.5	3410.5
45°	2861.3	2883.9	3122.0	3502.7	3824.2	4059.0	4184.0	4135.4	4095.4	4032.9	3991.1
47.5°	3153.3	3196.8	3466.1	3937.2	4324.9	4712.5	4842.8	4714.3	4679.5	4630.8	4563.0
50°	3464.4	3506.1	3792.9	4331.8	4769.9	5232.2	5449.6	5232.2	5181.9	5166.2	5089.7
52.5°	3733.8	3768.7	4045.0	4636.0	5110.5	5652.9	5969.3	5682.5	5645.9	5593.8	5538.2
55°	3893.8	3921.6	4180.6	4782.0	5341.8	6031.9	6471.7	6219.6	6165.7	6144.9	6064.9
57.5°	3947.7	3975.5	4208.4	4801.1	5466.9	6377.8	7081.9	7090.5	7026.2	6951.5	6927.1
60°	3947.7	3978.9	4175.4	4754.3	5588.6	6746.3	7895.3	8620.2	8481.1	8467.2	8378.5
62.5°	3784.3	3813.8	4012.0	4610.0	5752.0	7243.5	9028.7	10308.1	10268.2	10177.7	10031.7
65°	3429.6	3447.0	3641.7	4241.5	5689.4	7700.6	10010.8	11431.0	11366.7	11189.4	11001.7
66°	3269.7	3283.6	3466.1	4031.1	5484.3	7763.2	10184.7	11571.8	11465.8	11316.3	11104.2
67.5°	3038.5	3062.9	3191.5	3640.0	4992.4	7545.9	10075.2	11472.8	11380.6	11199.8	10987.8
70°	2028.6	2011.2	2464.9	2793.4	3803.4	6148.4	9039.1	10301.1	10302.9	10217.7	10132.5
72.5°	963.0	973.5	1105.5	1719.1	2489.2	4107.6	7194.8	8222.1	8340.3	8187.4	8081.3
75°	691.8	707.5	787.5	1051.7	1484.5	2464.9	4663.8	5750.2	5753.7	5482.5	5241.0
77.5°	201.6	210.4	295.5	648.3	1112.5	1663.5	2678.7	3196.8	3122.0	2927.3	2744.7
80°	83.4	83.4	86.9	206.9	446.7	1129.9	1873.9	2461.4	2452.8	2378.0	2270.3
82.5°	31.2	33.0	41.7	85.2	106.1	278.1	1249.8	2136.4	2131.1	2025.2	1948.6
85°	3.5	3.5	10.5	36.5	40.0	52.1	250.3	942.1	936.9	942.1	825.7
87.5°	0.0	0.0	1.7	3.5	5.2	7.0	10.5	36.5	40.0	38.2	34.7
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°	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9
2.5°	297.3	293.8	293.8	292.1	292.1	292.1	290.3	288.6	288.6	286.8	285.1
5°	325.0	321.5	319.8	316.4	314.7	312.9	309.4	307.7	304.2	302.4	300.7
7.5°	358.1	351.1	349.4	344.2	339.0	335.5	332.0	326.8	323.3	316.4	314.7
10°	399.9	391.1	384.1	377.2	372.0	363.3	358.1	351.1	344.2	339.0	333.8
12.5°	453.7	441.6	431.1	424.1	412.0	401.5	391.1	385.9	372.0	365.0	356.4
15°	512.8	498.9	486.7	472.8	464.1	446.7	432.8	417.2	410.2	398.1	384.1
17.5°	589.2	566.6	547.5	533.7	516.3	498.9	483.2	467.6	446.7	432.8	415.5
20°	670.9	651.8	625.8	601.5	580.6	559.8	537.1	516.3	497.2	474.6	453.7
22.5°	775.3	747.5	716.2	691.8	664.1	641.5	610.1	582.4	551.0	521.5	497.2
25°	907.4	870.9	841.3	806.6	773.5	738.8	700.5	665.8	625.8	598.0	556.3
27.5°	1070.8	1036.1	996.1	950.9	917.8	865.7	815.2	771.8	724.9	681.4	634.5
30°	1279.4	1229.0	1187.2	1143.8	1077.8	1027.3	968.2	909.2	844.8	801.4	730.0
32.5°	1529.7	1475.8	1413.2	1350.6	1289.8	1218.6	1145.5	1072.5	1001.2	921.3	848.3
35°	1835.7	1771.3	1700.0	1632.3	1538.4	1461.9	1369.7	1268.9	1189.0	1096.9	1004.7
37.5°	2240.7	2134.6	2072.0	2000.8	1873.9	1769.6	1667.0	1566.2	1425.4	1328.0	1197.7
40°	2748.2	2685.6	2583.1	2468.4	2353.7	2216.3	2077.3	1943.4	1780.0	1644.4	1493.2
42.5°	3344.4	3252.4	3148.1	2982.9	2866.5	2704.7	2546.6	2369.3	2169.3	1995.6	1818.3
45°	3904.2	3794.7	3714.7	3549.6	3427.9	3236.7	3045.5	2857.8	2626.5	2402.3	2197.2
47.5°	4509.2	4418.7	4286.6	4152.8	4029.4	3813.8	3607.0	3379.3	3135.8	2869.9	2603.9
50°	5041.1	4969.8	4879.4	4717.8	4580.4	4399.6	4156.3	3907.7	3600.0	3335.8	3033.3
52.5°	5493.0	5437.3	5310.5	5195.7	5072.3	4902.0	4684.7	4446.6	4114.6	3824.2	3480.1
55°	6026.7	5986.7	5875.4	5804.2	5694.7	5531.3	5327.9	5107.2	4756.0	4439.6	4050.2
57.5°	6901.0	6869.8	6772.4	6742.8	6635.0	6492.5	6242.2	6005.8	5595.6	5202.7	4757.8
60°	8349.0	8286.5	8143.9	8070.9	7843.1	7652.0	7327.0	7001.8	6506.5	6005.8	5470.4
62.5°	9899.5	9724.0	9452.8	9220.0	8896.6	8564.5	8129.9	7632.9	7052.3	6457.8	5842.4
65°	10735.7	10436.7	10094.3	9724.0	9305.1	8816.6	8269.1	7672.9	7048.8	6421.3	5771.1
66°	10831.3	10494.1	10130.8	9718.8	9253.0	8733.2	8176.9	7551.2	6902.7	6290.9	5640.8
67.5°	10711.4	10358.5	9974.4	9517.2	9013.1	8474.2	7890.1	7240.0	6615.9	5995.3	5362.6
70°	9871.8	9520.6	9178.2	8696.7	8159.5	7617.2	7064.4	6337.9	5746.8	5176.6	4613.5
72.5°	7883.2	7645.0	7306.1	6894.1	6370.8	5734.6	5273.9	4623.9	4111.1	3558.3	3122.0
75°	4926.3	4590.9	4171.9	3647.0	3247.1	2730.8	2461.4	1967.7	1675.8	1420.2	1173.4
77.5°	2518.7	2266.8	1973.0	1677.4	1394.1	1112.5	860.4	608.4	410.2	285.1	212.1
80°	2080.8	1858.3	1614.8	1345.5	1095.2	850.1	611.9	417.2	266.0	173.9	135.5
82.5°	1719.1	1531.5	1314.1	1063.8	846.6	667.6	464.1	302.4	187.7	121.7	95.6
85°	731.8	664.1	512.8	406.7	305.9	226.0	158.2	106.1	74.7	60.8	55.6
87.5°	31.2	34.7	33.0	26.1	19.1	19.1	17.4	13.9	13.9	13.9	13.9
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°	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9
2.5°	285.1	283.3	281.6	281.6	279.8	278.1	267.7	259.0	248.6	241.6	234.7
5°	297.3	295.5	292.1	290.3	286.8	285.1	262.5	243.3	227.7	215.6	206.9
7.5°	309.4	307.7	302.4	297.3	295.5	292.1	255.6	231.2	210.4	196.4	187.7
10°	325.0	319.8	314.7	307.7	302.4	297.3	248.6	217.2	194.7	182.5	173.9
12.5°	347.6	339.0	330.3	321.5	314.7	305.9	245.1	205.1	182.5	168.6	159.9
15°	373.8	361.5	351.1	340.7	328.5	319.8	238.1	194.7	172.1	158.2	147.8
17.5°	398.1	384.1	368.5	352.9	340.7	328.5	231.2	184.3	161.6	147.8	137.3
20°	432.8	412.0	392.9	373.8	356.4	340.7	220.7	173.9	153.0	137.3	126.9
22.5°	471.1	446.7	422.4	396.4	373.8	352.9	212.1	165.1	144.3	128.7	116.4
25°	519.8	490.2	457.2	424.1	398.1	370.3	203.4	156.4	135.5	119.9	107.8
27.5°	587.5	545.8	509.3	467.6	427.6	396.4	196.4	149.5	126.9	111.3	99.1
30°	679.7	618.8	561.5	516.3	469.3	424.1	189.5	140.8	119.9	102.6	88.7
32.5°	782.2	710.9	644.9	577.1	518.0	465.8	182.5	133.8	111.3	93.8	81.7
35°	909.2	818.7	730.0	651.8	580.6	511.0	175.5	126.9	104.3	85.2	73.0
37.5°	1091.7	978.6	862.2	761.4	669.2	577.1	170.4	119.9	95.6	76.5	64.3
40°	1342.0	1196.0	1053.4	916.0	796.1	681.4	163.4	112.9	88.7	69.6	57.3
42.5°	1613.2	1435.8	1248.1	1093.4	928.3	784.0	156.4	106.1	81.7	62.6	50.5
45°	1950.4	1729.6	1501.9	1291.5	1089.9	903.9	149.5	99.1	73.0	55.6	43.5
47.5°	2318.9	2037.3	1780.0	1515.8	1275.9	1053.4	140.8	93.8	66.1	48.7	38.2
50°	2697.9	2400.6	2075.5	1774.8	1489.8	1203.0	132.2	85.2	59.1	43.5	31.2
52.5°	3106.3	2755.2	2423.2	2049.4	1717.4	1399.3	123.4	78.2	53.8	38.2	26.1
55°	3626.1	3233.3	2843.9	2424.9	2025.2	1627.1	114.7	69.6	47.0	33.0	20.9
57.5°	4279.7	3813.8	3335.8	2863.0	2378.0	1926.0	107.8	60.8	40.0	27.8	17.4
60°	4896.8	4352.7	3773.8	3229.8	2682.2	2155.5	97.3	53.8	34.7	22.6	17.4
62.5°	5216.6	4596.0	3972.0	3372.3	2788.2	2237.2	86.9	45.2	29.6	19.1	15.6
65°	5138.4	4505.7	3900.7	3295.8	2724.0	2185.1	76.5	40.0	26.1	17.4	15.6
66°	5025.5	4399.6	3791.3	3215.9	2670.0	2129.4	71.3	38.2	24.4	17.4	13.9
67.5°	4778.6	4173.6	3593.0	3057.6	2522.2	2023.4	64.3	34.7	22.6	15.6	13.9
70°	4081.5	3532.2	3068.1	2591.8	2155.5	1705.3	52.1	29.6	19.1	13.9	13.9
72.5°	2701.3	2327.6	2018.2	1736.6	1451.4	1126.4	43.5	24.4	15.6	13.9	12.1
75°	1018.6	921.3	791.0	710.9	620.6	544.1	34.7	15.6	12.1	12.1	12.1
77.5°	180.8	166.9	147.8	135.5	125.2	114.7	27.8	10.5	10.5	12.1	12.1
80°	121.7	112.9	102.6	93.8	86.9	78.2	19.1	8.7	10.5	10.5	12.1
82.5°	86.9	81.7	76.5	69.6	64.3	57.3	12.1	8.7	10.5	10.5	10.5
85°	52.1	48.7	45.2	41.7	36.5	34.7	8.7	8.7	8.7	10.5	10.5
87.5°	13.9	12.1	13.9	13.9	10.5	12.1	7.0	7.0	7.0	8.7	8.7
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):

	145°	155°	165°	175°	180°
0°	272.9	272.9	272.9	272.9	272.9
2.5°	231.2	231.2	227.7	233.0	233.0
5°	199.9	199.9	198.1	199.9	199.9
7.5°	182.5	180.8	180.8	180.8	182.5
10°	166.9	165.1	165.1	165.1	165.1
12.5°	153.0	151.3	149.5	151.3	151.3
15°	140.8	137.3	137.3	137.3	137.3
17.5°	130.4	126.9	125.2	125.2	125.2
20°	119.9	114.7	114.7	114.7	114.7
22.5°	109.5	104.3	104.3	104.3	104.3
25°	99.1	93.8	93.8	93.8	93.8
27.5°	90.4	85.2	85.2	85.2	85.2
30°	80.0	76.5	76.5	78.2	76.5
32.5°	73.0	67.8	67.8	69.6	69.6
35°	64.3	60.8	60.8	60.8	60.8
37.5°	55.6	52.1	52.1	52.1	52.1
40°	48.7	45.2	43.5	45.2	45.2
42.5°	41.7	38.2	36.5	36.5	36.5
45°	36.5	31.2	29.6	31.2	31.2
47.5°	29.6	26.1	26.1	27.8	27.8
50°	22.6	22.6	24.4	27.8	27.8
52.5°	20.9	20.9	24.4	27.8	27.8
55°	19.1	20.9	24.4	26.1	27.8
57.5°	17.4	20.9	24.4	26.1	26.1
60°	17.4	19.1	22.6	26.1	26.1
62.5°	15.6	17.4	20.9	24.4	24.4
65°	15.6	17.4	20.9	24.4	24.4
66°	15.6	17.4	20.9	24.4	24.4
67.5°	15.6	17.4	20.9	24.4	24.4
70°	15.6	17.4	20.9	22.6	22.6
72.5°	13.9	15.6	19.1	22.6	22.6
75°	13.9	15.6	19.1	22.6	22.6
77.5°	13.9	15.6	19.1	22.6	22.6
80°	13.9	15.6	19.1	20.9	22.6
82.5°	12.1	15.6	17.4	20.9	20.9
85°	12.1	13.9	17.4	19.1	20.9
87.5°	10.5	12.1	13.9	17.4	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)