

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: P158481

Luminaire Tested: **VST-E08-LED-E-U-SL3-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158481
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33713)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-E08-LED-E-U-SL3-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (168) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24765 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Luminous Opening: Rectangular (W 1.33' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 194.5
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



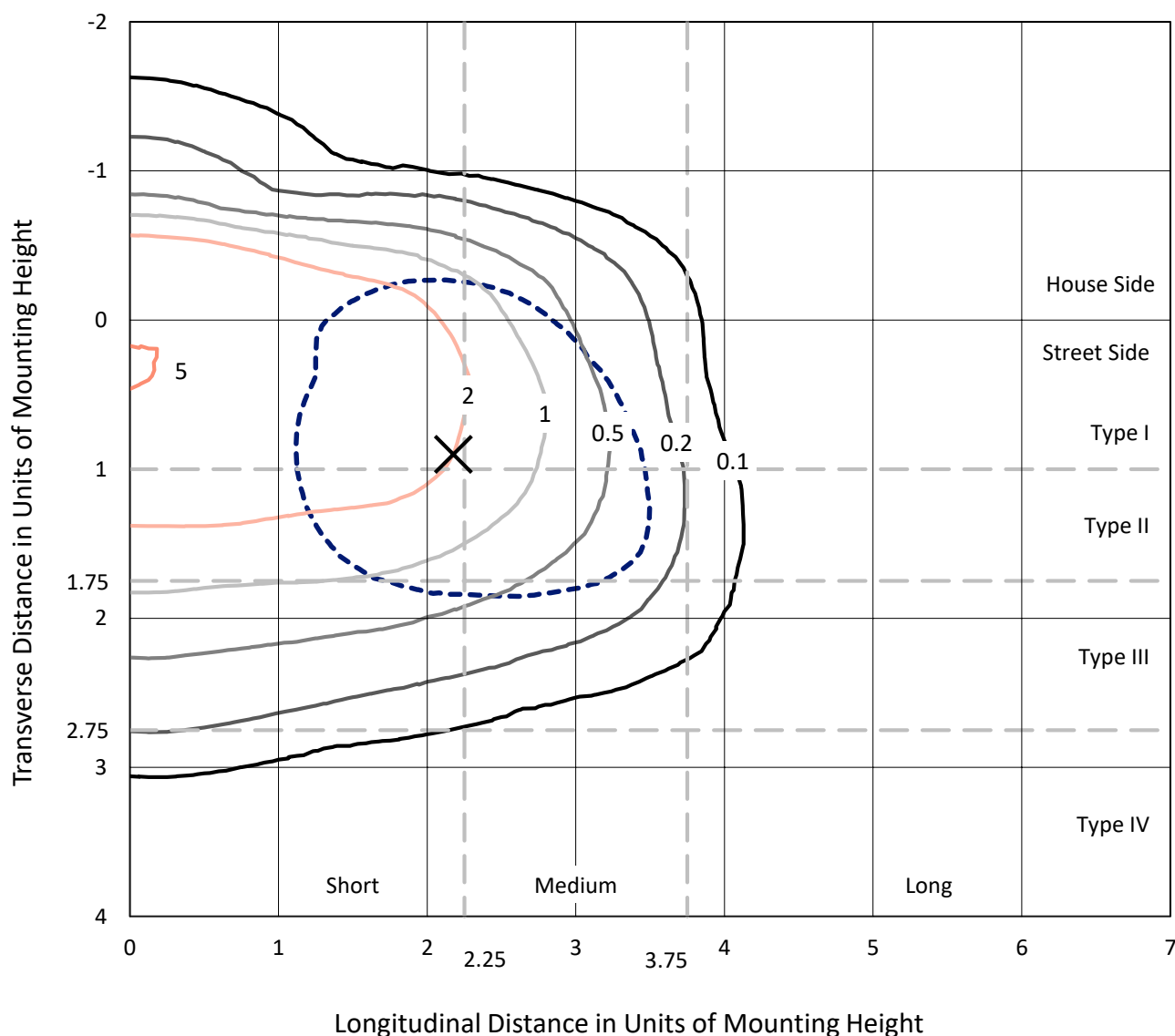
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

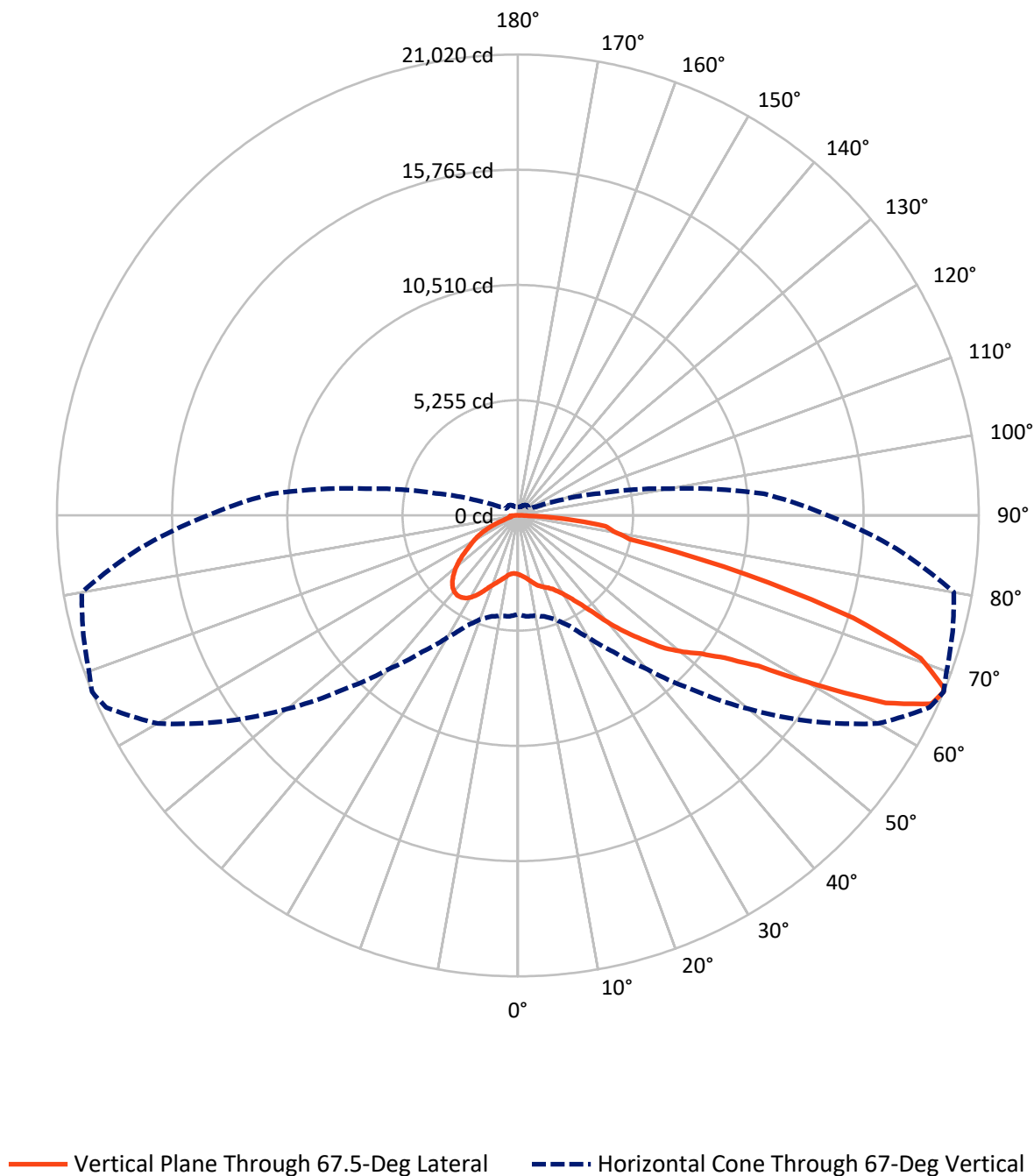


Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5941.2	0.0	5941.2
	% Fixture	24.0	0.0	24.0
Street Side	Lumens	18823.8	0.0	18823.8
	% Fixture	76.0	0.0	76.0
Total	Lumens	24765.0	0.0	24765.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.8	1.1
10°-20°	908.9	3.7
20°-30°	1622.7	6.6
30°-40°	2378.2	9.6
40°-50°	3674.7	14.8
50°-60°	5351.0	21.6
60°-70°	6970.6	28.1
70°-80°	3120.2	12.6
80°-90°	471.8	1.9
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°	24765.0	100.0
0°-180°	24765.0	100.0

Coefficient of Utilization



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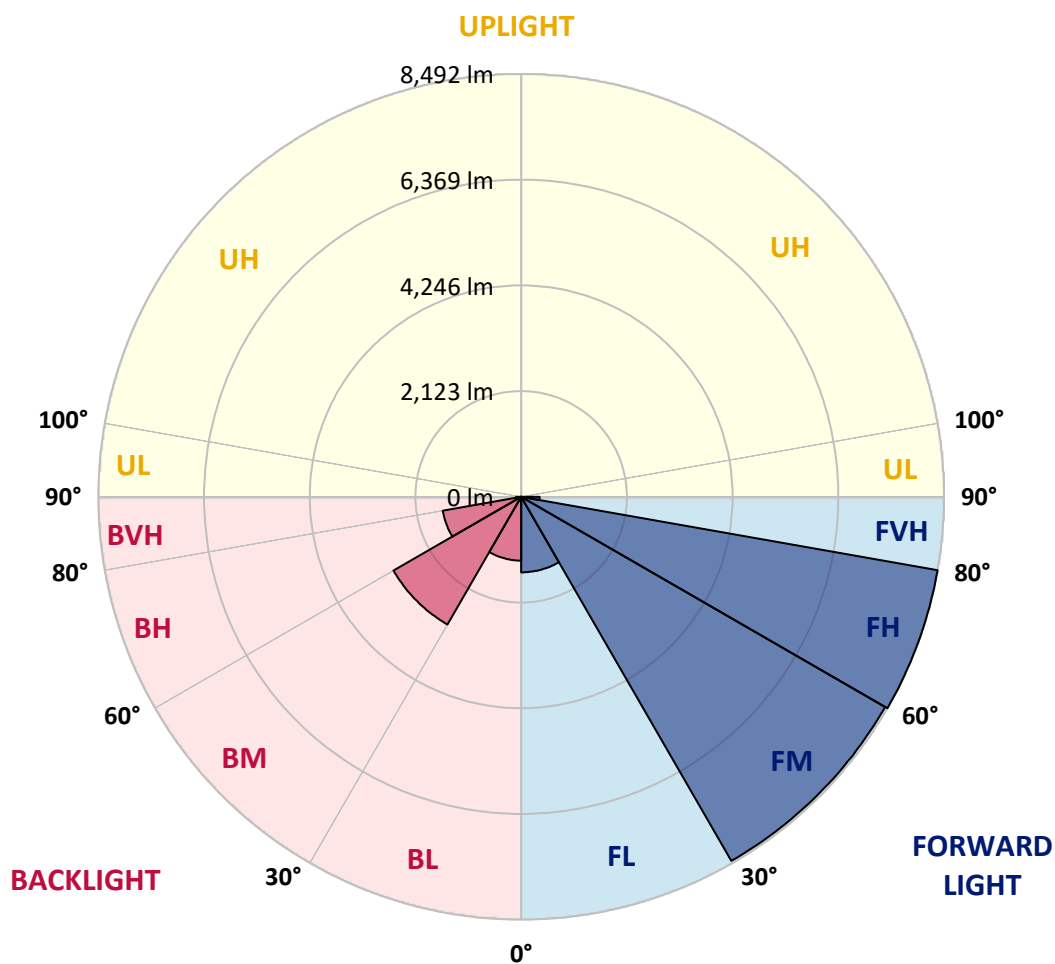
CATALOG NUMBER: VST-E08-LED-E-U-SL3-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1517.4	6.1			
FM	(30°-60°)	8443.6	34.1			
FH	(60°-80°)	8492.4	34.3			G4/12000
FVH	(80°-90°)	370.5	1.5			G3/500
BL	(0°-30°)	1281.1	5.2	B3/2500		
BM	(30°-60°)	2960.4	12.0	B3/5000		
BH	(60°-80°)	1598.4	6.5	B3/2500		G3/2500
BVH	(80°-90°)	101.3	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2684.3	2684.3	2684.3	2684.3	2684.3	2684.3	2684.3	2684.3	2684.3	2684.3	2684.3
2.5°	2789.4	2795.9	2797.6	2795.9	2797.6	2791.0	2789.4	2779.5	2784.4	2771.3	2768.0
5°	2940.4	2945.3	2948.6	2935.5	2938.8	2932.2	2924.0	2914.1	2901.0	2882.9	2871.5
7.5°	3088.2	3096.4	3094.7	3089.8	3078.3	3071.7	3055.3	3040.6	3017.6	2996.2	2981.5
10°	3286.8	3285.2	3285.2	3257.3	3240.9	3226.1	3196.5	3173.5	3150.6	3119.4	3102.9
12.5°	3516.7	3505.2	3500.3	3480.5	3446.1	3419.8	3377.1	3332.8	3291.7	3258.9	3232.6
15°	3738.3	3738.3	3725.2	3694.0	3661.1	3626.7	3565.9	3501.9	3434.6	3382.0	3355.8
17.5°	3940.2	3922.2	3910.7	3869.6	3835.2	3779.4	3712.0	3643.1	3559.4	3485.5	3434.6
20°	4088.0	4073.2	4048.6	3997.7	3938.6	3872.9	3794.1	3713.7	3623.4	3542.9	3485.5
22.5°	4173.4	4155.3	4117.6	4050.2	3969.8	3877.9	3785.9	3710.4	3628.3	3567.6	3520.0
25°	4217.7	4199.6	4148.7	4060.1	3951.7	3830.2	3725.2	3651.3	3603.7	3588.9	3582.3
27.5°	4216.1	4201.3	4147.1	4045.3	3905.8	3766.2	3652.9	3590.5	3585.6	3643.1	3685.8
30°	4173.4	4163.5	4114.3	4012.5	3866.4	3720.2	3615.2	3582.3	3633.2	3754.7	3859.8
32.5°	4130.7	4125.8	4091.3	3999.3	3874.6	3751.4	3679.2	3682.5	3787.6	3974.7	4143.8
35°	4135.6	4142.2	4137.3	4088.0	4009.2	3945.2	3910.7	3982.9	4147.1	4373.7	4600.2
37.5°	4178.3	4202.9	4234.1	4239.0	4240.7	4230.8	4303.1	4455.8	4695.5	4991.0	5345.6
40°	4271.9	4299.8	4390.1	4468.9	4570.7	4692.2	4838.3	5050.1	5347.2	5711.7	6146.8
42.5°	4562.5	4601.9	4713.5	4859.6	5046.8	5237.2	5455.6	5744.5	6109.0	6493.2	6949.6
45°	4941.7	5023.8	5146.9	5309.5	5590.2	5857.8	6140.2	6463.6	6851.1	7332.1	7791.8
47.5°	5414.6	5496.6	5675.6	5849.6	6181.3	6514.5	6823.2	7161.4	7581.7	8074.2	8583.2
50°	5828.3	5921.9	6081.1	6315.9	6700.1	7108.9	7450.3	7816.5	8169.4	8688.2	9202.1
52.5°	6153.3	6220.7	6373.3	6588.4	7016.9	7465.1	7896.9	8304.1	8722.7	9241.5	9717.6
55°	6194.4	6256.8	6406.2	6652.4	7087.5	7585.0	8082.4	8565.1	9157.8	9724.2	10354.6
57.5°	6017.1	6068.0	6219.0	6439.0	6862.6	7429.0	8057.8	8676.7	9435.2	10200.3	10970.3
60°	5765.9	5816.8	5935.0	6110.7	6493.2	7103.9	7837.8	8685.0	9693.0	10797.9	11930.7
62.5°	5490.1	5534.4	5629.6	5754.4	6091.0	6654.1	7494.7	8630.8	9903.1	11392.2	13139.1
65°	5025.5	5132.2	5173.2	5301.3	5637.8	6169.8	7025.1	8264.7	9817.8	11656.6	13897.6
67°	4511.6	4619.9	4641.3	4771.0	5040.2	5550.8	6421.0	7586.6	9141.4	11200.1	13730.1
67.5°	4347.4	4439.3	4472.2	4601.9	4856.4	5337.4	6163.2	7342.0	8934.5	10950.6	13528.2
70°	3196.5	3298.3	3334.4	3388.6	3570.8	3971.4	4518.1	5541.0	7123.6	8936.1	11411.9
72.5°	1710.7	1792.8	1827.3	1907.7	2001.3	2219.7	2638.3	3372.2	4372.0	5979.3	8118.5
75°	1157.4	1190.3	1214.9	1270.7	1367.6	1541.6	1725.5	1983.3	2587.4	3373.8	4619.9
77.5°	660.0	674.8	678.1	687.9	765.1	930.9	1233.0	1669.7	2140.9	2444.6	2955.2
80°	285.7	315.2	338.2	323.4	318.5	353.0	441.6	658.3	1290.4	2048.9	2431.5
82.5°	154.3	167.5	187.2	188.8	198.7	210.1	228.2	270.9	380.9	768.3	1676.2
85°	80.4	83.7	111.6	128.1	136.3	142.8	146.1	162.5	187.2	238.1	417.0
87.5°	11.5	16.4	19.7	26.3	29.6	31.2	36.1	46.0	54.2	65.7	111.6
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):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	2684.3	2684.3	2684.3	2684.3	2684.3	2684.3	2684.3	2684.3	2684.3	2684.3	2684.3
2.5°	2753.2	2750.0	2740.1	2733.5	2727.0	2720.4	2712.2	2705.6	2694.1	2685.9	2676.1
5°	2855.0	2835.3	2822.2	2804.1	2800.9	2779.5	2758.2	2748.3	2728.6	2712.2	2692.5
7.5°	2958.5	2935.5	2914.1	2899.4	2891.2	2861.6	2840.3	2815.6	2792.6	2771.3	2748.3
10°	3080.0	3057.0	3034.0	3024.1	3009.4	2981.5	2963.4	2932.2	2909.2	2882.9	2851.8
12.5°	3206.4	3190.0	3173.5	3160.4	3153.8	3140.7	3114.4	3088.2	3057.0	3030.7	2994.6
15°	3318.0	3306.5	3300.0	3296.7	3296.7	3288.5	3263.8	3239.2	3206.4	3176.8	3137.4
17.5°	3396.8	3391.9	3396.8	3401.7	3408.3	3401.7	3396.8	3368.9	3347.6	3311.4	3272.0
20°	3442.8	3452.6	3477.3	3493.7	3508.5	3520.0	3524.9	3501.9	3474.0	3447.7	3421.4
22.5°	3492.0	3520.0	3562.6	3587.3	3611.9	3652.9	3662.8	3646.4	3625.0	3608.6	3580.7
25°	3574.1	3615.2	3689.1	3728.5	3762.9	3823.7	3831.9	3835.2	3830.2	3817.1	3782.6
27.5°	3702.2	3782.6	3881.1	3932.0	3969.8	4048.6	4079.8	4079.8	4066.7	4081.4	4081.4
30°	3925.5	4032.2	4160.2	4189.8	4248.9	4317.9	4368.7	4375.3	4377.0	4408.1	4454.1
32.5°	4268.6	4370.4	4513.2	4546.1	4597.0	4662.6	4720.1	4713.5	4728.3	4795.6	4856.4
35°	4767.7	4871.1	4964.7	5009.0	5032.0	5091.1	5112.5	5148.6	5192.9	5276.6	5268.4
37.5°	5506.5	5598.4	5611.6	5639.5	5611.6	5623.1	5639.5	5682.2	5800.4	5875.9	5754.4
40°	6396.3	6549.0	6534.2	6501.4	6439.0	6355.3	6384.8	6450.5	6578.6	6512.9	6186.2
42.5°	7235.3	7392.9	7363.3	7325.6	7187.7	7156.5	7153.2	7207.4	7276.3	7089.2	6524.4
45°	8061.1	8222.0	8171.1	8149.7	8057.8	7990.5	8046.3	8049.6	8031.5	7630.9	6819.9
47.5°	8913.2	9060.9	9028.1	9046.1	8950.9	8906.6	8911.5	8888.5	8719.4	8090.6	7049.8
50°	9601.1	9799.7	9819.4	9778.4	9727.5	9660.2	9832.6	9770.2	9394.2	8537.2	7271.4
52.5°	10136.3	10403.9	10505.7	10479.4	10438.4	10446.6	10770.0	10840.6	10218.4	9100.3	7516.0
55°	10770.0	11191.9	11357.8	11456.3	11413.6	11577.8	12318.2	12354.3	11364.3	9835.8	7834.5
57.5°	11684.5	12288.6	12812.4	12951.9	13086.5	13620.1	14821.9	14455.8	12851.8	10949.0	8238.4
60°	13075.0	14398.3	15248.7	15695.3	16010.5	16755.9	17898.6	16971.0	14705.3	12273.9	8745.7
62.5°	15022.2	16956.2	18378.0	18826.2	18955.9	19384.4	20211.8	18437.1	15715.0	12868.2	8790.0
65°	16471.9	18791.7	20494.2	20724.0	20569.7	20577.9	20794.6	18359.9	15339.0	12349.4	8028.2
67°	16376.6	18973.9	20717.5	21019.6	20806.1	20525.4	20187.2	17314.1	14130.7	11262.5	7030.1
67.5°	16230.5	18798.3	20620.6	20939.1	20743.7	20423.6	19929.4	16908.6	13754.7	10924.3	6826.5
70°	14030.6	16580.2	19034.7	19482.9	19565.0	19272.7	17885.4	14257.1	11167.3	8886.9	5301.3
72.5°	10921.0	13191.6	15619.8	16008.9	16324.1	15481.9	13017.6	9847.3	8139.9	6404.5	3838.5
75°	7210.6	9520.6	10745.4	10802.8	10400.6	8840.9	6360.2	4931.9	4539.5	3764.6	2375.6
77.5°	3858.2	5598.4	5632.9	5215.9	5025.5	3746.5	1520.3	838.9	934.2	1060.6	945.7
80°	2878.0	3565.9	4132.3	4442.6	4534.6	3212.9	786.4	444.9	389.1	354.6	349.7
82.5°	2595.6	3444.4	3861.4	4030.5	3987.9	2643.2	441.6	298.8	247.9	269.3	307.0
85°	1017.9	1838.8	2418.3	2341.2	1966.8	985.1	241.3	160.9	160.9	233.1	302.1
87.5°	208.5	377.6	512.2	489.2	440.0	190.4	118.2	96.9	98.5	188.8	285.7
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	2684.3	2684.3	2684.3	2684.3	2684.3	2684.3	2684.3	2684.3	2684.3	2684.3	2684.3
2.5°	2666.2	2656.4	2649.8	2643.2	2636.7	2633.4	2628.5	2628.5	2618.6	2615.3	2612.1
5°	2677.7	2661.3	2649.8	2635.0	2623.5	2613.7	2600.6	2597.3	2585.8	2577.6	2574.3
7.5°	2727.0	2702.4	2677.7	2659.7	2643.2	2621.9	2607.1	2594.0	2582.5	2574.3	2564.4
10°	2820.6	2794.3	2759.8	2727.0	2705.6	2672.8	2649.8	2626.8	2613.7	2603.8	2590.7
12.5°	2958.5	2920.7	2879.7	2840.3	2804.1	2761.5	2738.5	2710.6	2694.1	2685.9	2676.1
15°	3099.7	3058.6	3007.7	2970.0	2928.9	2896.1	2874.7	2850.1	2837.0	2827.1	2820.6
17.5°	3244.1	3196.5	3160.4	3122.6	3102.9	3078.3	3050.4	3019.2	2981.5	2958.5	2927.3
20°	3391.9	3355.8	3334.4	3313.1	3290.1	3255.6	3199.8	3135.8	3065.2	2997.9	2933.8
22.5°	3564.3	3542.9	3539.7	3520.0	3472.3	3390.3	3286.8	3167.0	3047.1	2935.5	2848.5
25°	3807.3	3807.3	3790.8	3710.4	3598.8	3451.0	3277.0	3104.6	2945.3	2792.6	2677.7
27.5°	4112.6	4101.1	4020.7	3854.9	3654.6	3424.7	3191.6	2973.2	2769.7	2602.2	2454.4
30°	4449.2	4368.7	4196.4	3935.3	3634.9	3339.4	3053.7	2800.9	2561.2	2355.9	2181.9
32.5°	4798.9	4603.5	4293.2	3935.3	3565.9	3211.3	2881.3	2571.0	2296.8	2067.0	1860.1
35°	5115.8	4759.5	4316.2	3871.3	3431.3	3022.5	2640.0	2288.6	1960.3	1712.4	1485.8
37.5°	5403.1	4862.9	4291.6	3746.5	3235.9	2756.5	2308.3	1920.9	1549.8	1310.1	1116.4
40°	5590.2	4884.3	4189.8	3551.1	2956.8	2397.0	1901.2	1467.7	1173.9	955.5	825.8
42.5°	5706.8	4843.2	4025.6	3283.5	2580.9	1945.5	1426.7	1052.4	834.0	712.5	663.3
45°	5772.5	4736.5	3782.6	2917.4	2126.1	1479.2	1013.0	760.1	641.9	599.2	582.8
47.5°	5769.2	4564.1	3478.9	2493.8	1623.7	1031.0	717.5	592.7	559.8	546.7	543.4
50°	5734.7	4352.3	3122.6	2034.2	1172.2	719.1	568.1	531.9	523.7	515.5	512.2
52.5°	5687.1	4089.6	2728.6	1585.9	832.4	574.6	515.5	505.7	499.1	490.9	487.6
55°	5598.4	3766.2	2301.8	1193.6	651.8	518.8	497.5	494.2	486.0	474.5	467.9
57.5°	5490.1	3437.9	1893.0	932.5	576.3	505.7	494.2	489.2	477.8	464.6	451.5
60°	5450.7	3167.0	1572.8	786.4	558.2	510.6	502.4	495.8	479.4	459.7	444.9
62.5°	5204.4	2861.6	1343.0	728.9	568.1	531.9	528.6	518.8	494.2	471.2	448.2
65°	4567.4	2420.0	1137.7	689.5	587.8	568.1	571.3	556.6	531.9	500.7	459.7
67°	3863.1	1973.4	947.3	651.8	602.5	605.8	617.3	605.8	574.6	530.3	474.5
67.5°	3675.9	1860.1	899.7	640.3	605.8	615.7	628.8	620.6	589.4	538.5	481.0
70°	2731.9	1310.1	671.5	579.5	605.8	645.2	674.8	683.0	648.5	577.9	494.2
72.5°	1924.2	845.5	515.5	502.4	550.0	602.5	658.3	686.3	646.9	569.7	476.1
75°	1155.8	528.6	418.7	426.9	463.0	517.2	561.5	573.0	523.7	474.5	412.1
77.5°	535.2	351.3	328.4	339.8	374.3	398.9	398.9	376.0	338.2	308.7	295.5
80°	315.2	287.3	285.7	307.0	330.0	311.9	284.0	252.8	233.1	223.3	218.4
82.5°	295.5	307.0	326.7	331.6	313.6	269.3	234.8	203.6	193.7	188.8	183.9
85°	348.1	372.7	339.8	313.6	277.5	226.6	183.9	157.6	152.7	147.8	141.2
87.5°	321.8	307.0	267.6	229.8	190.4	137.9	100.1	90.3	96.9	95.2	91.9
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):

	160°	165°	170°	175°	180°
0°	2684.3	2684.3	2684.3	2684.3	2684.3
2.5°	2613.7	2613.7	2607.1	2603.8	2612.1
5°	2567.7	2569.4	2564.4	2562.8	2564.4
7.5°	2557.9	2556.2	2553.0	2549.7	2553.0
10°	2587.4	2585.8	2580.9	2584.1	2579.2
12.5°	2676.1	2685.9	2684.3	2687.6	2694.1
15°	2820.6	2818.9	2814.0	2817.3	2822.2
17.5°	2902.6	2889.5	2878.0	2873.1	2873.1
20°	2882.9	2845.2	2825.5	2814.0	2810.7
22.5°	2766.4	2712.2	2671.2	2661.3	2653.1
25°	2575.9	2508.6	2456.1	2444.6	2423.3
27.5°	2354.3	2264.0	2201.6	2188.5	2177.0
30°	2063.7	1960.3	1888.0	1842.1	1856.8
32.5°	1709.1	1610.6	1526.8	1453.0	1441.5
35°	1320.0	1211.6	1137.7	1104.9	1083.6
37.5°	985.1	894.8	845.5	814.3	816.0
40°	753.6	706.0	679.7	658.3	660.0
42.5°	628.8	607.5	600.9	591.0	586.1
45°	569.7	563.1	564.8	554.9	551.6
47.5°	536.9	531.9	533.6	527.0	525.4
50°	510.6	507.3	508.9	504.0	502.4
52.5°	484.3	486.0	484.3	481.0	481.0
55°	461.3	459.7	463.0	458.1	458.1
57.5°	443.3	441.6	441.6	440.0	440.0
60°	433.4	426.9	425.2	425.2	426.9
62.5°	428.5	417.0	415.4	415.4	417.0
65°	430.1	412.1	405.5	403.9	402.2
67°	431.8	405.5	392.4	385.8	384.2
67.5°	433.4	402.2	387.5	380.9	377.6
70°	423.6	379.2	357.9	346.4	343.1
72.5°	398.9	351.3	325.1	310.3	307.0
75°	354.6	318.5	295.5	279.1	272.5
77.5°	274.2	257.8	249.5	239.7	236.4
80°	213.4	205.2	201.9	195.4	193.7
82.5°	177.3	169.1	164.2	156.0	151.0
85°	137.9	128.1	124.8	118.2	114.9
87.5°	90.3	85.4	83.7	75.5	72.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)