

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: P158695

Luminaire Tested: **VST-F07-LED-E-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158695
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33714)
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-SL4
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (49) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16763.5 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1' x H: 0')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

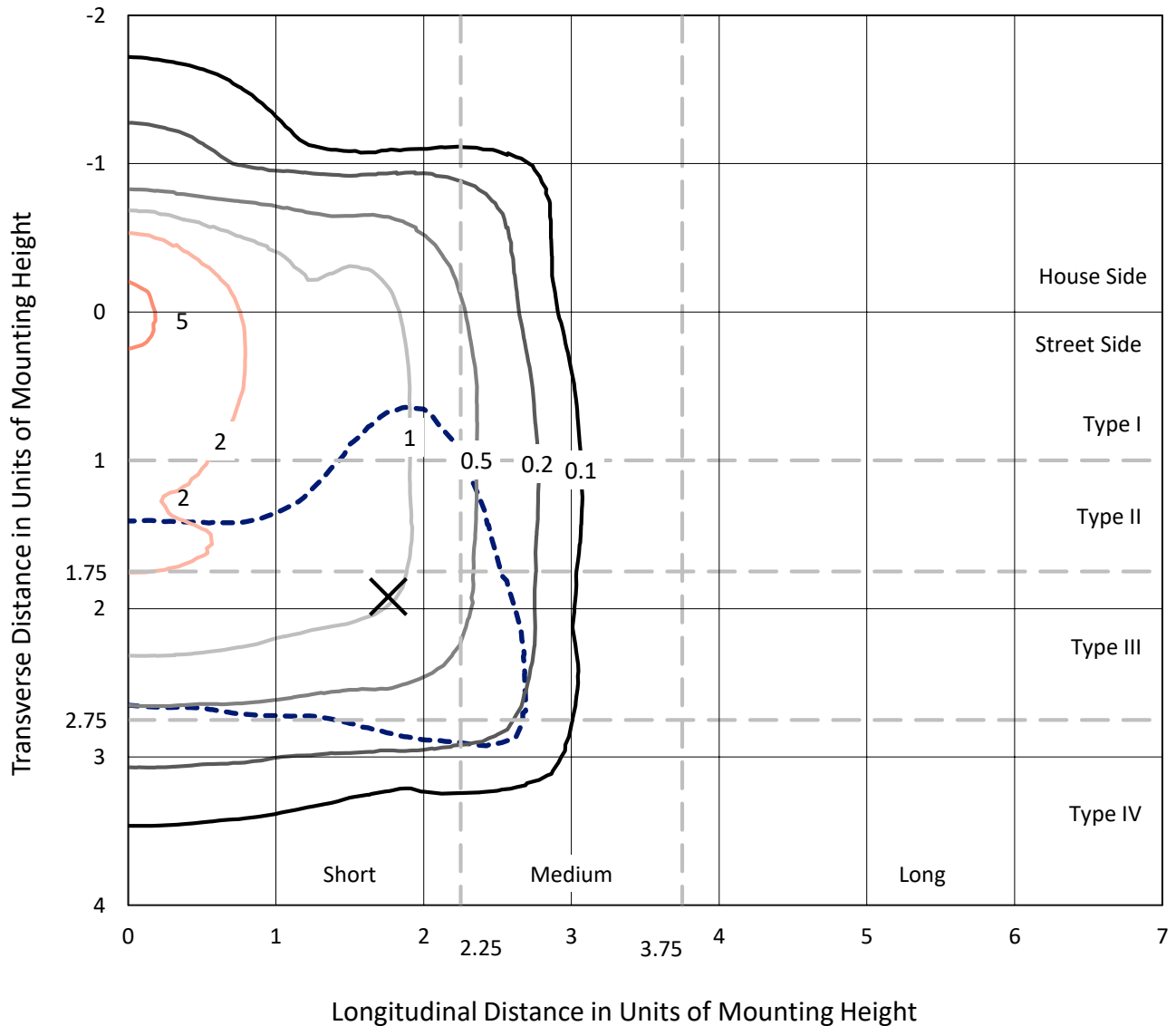
Input Watts (W): 180.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

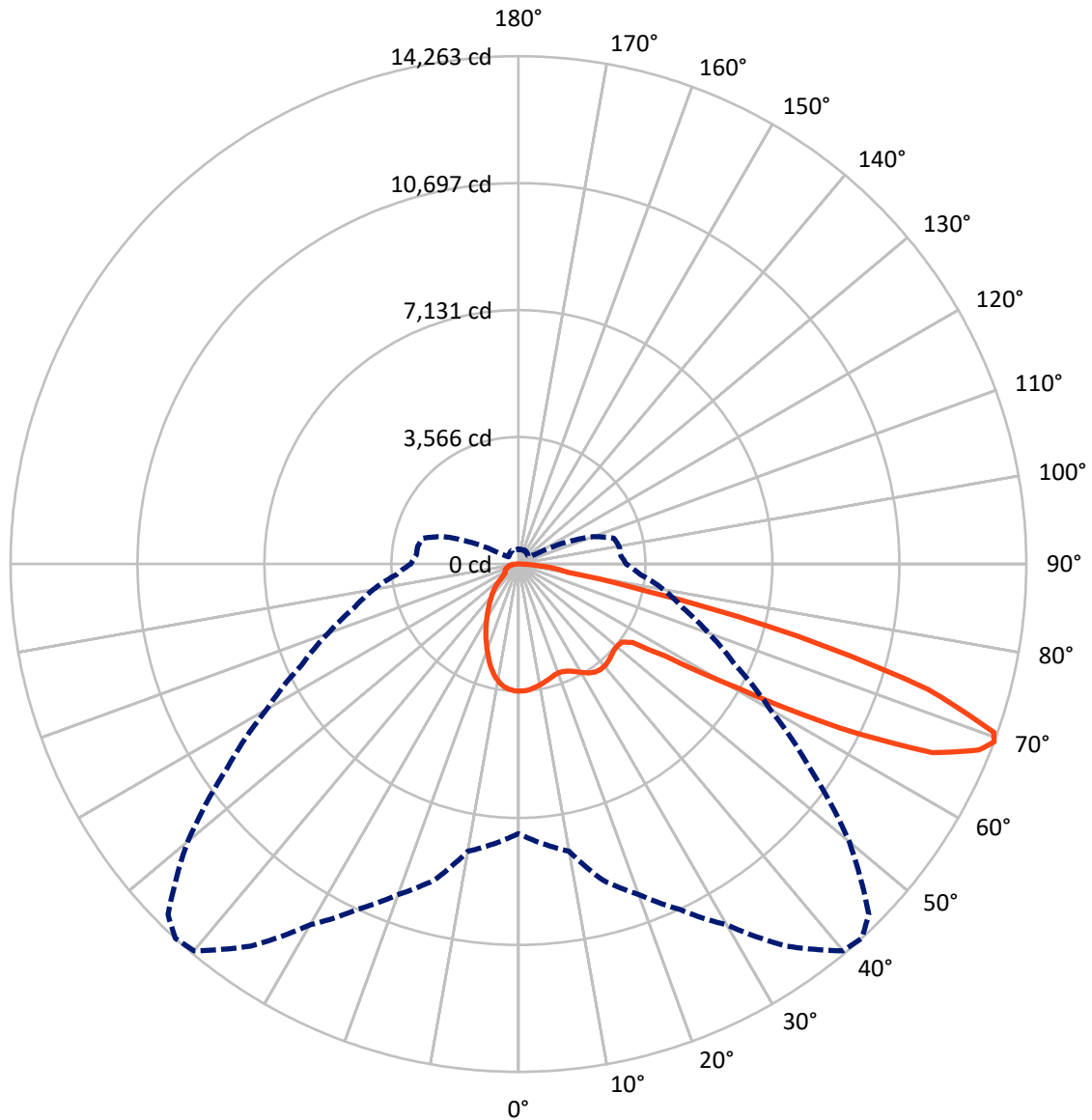


Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 42.5-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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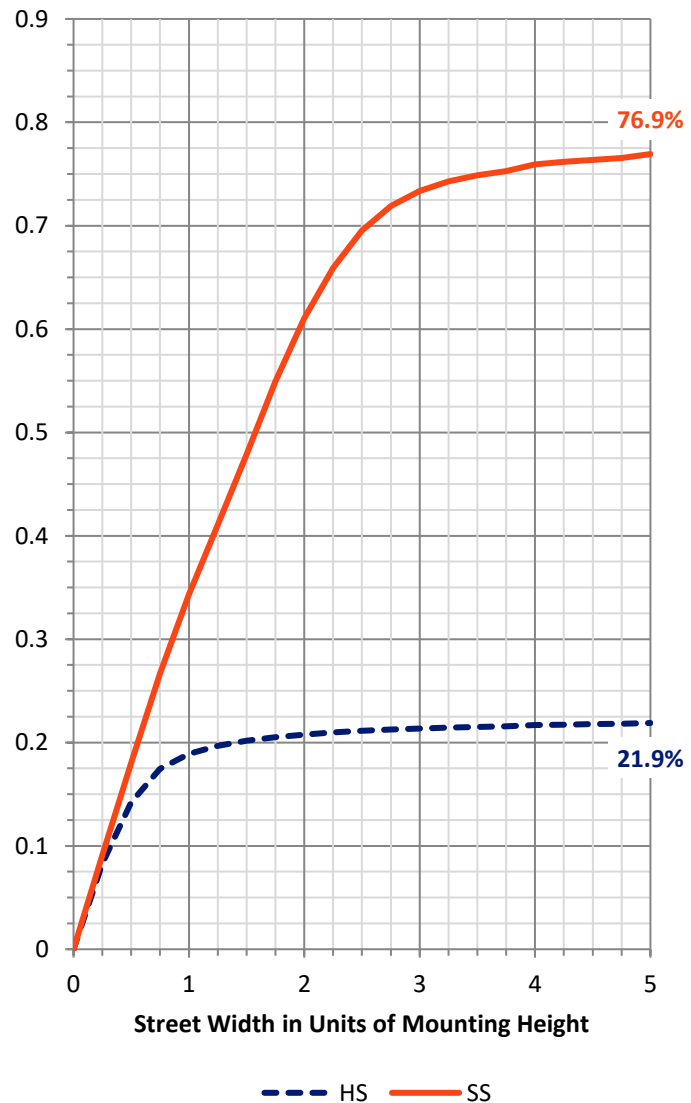
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3726.8	0.0	3726.8
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	13036.8	0.0	13036.8
	% Fixture	77.8	0.0	77.8
Total	Lumens	16763.5	0.0	16763.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.3	2.0
10°-20°	895.7	5.3
20°-30°	1306.1	7.8
30°-40°	1665.0	9.9
40°-50°	1937.3	11.6
50°-60°	2947.5	17.6
60°-70°	5206.7	31.1
70°-80°	2148.6	12.8
80°-90°	324.4	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°	16763.5	100.0
0°-180°	16763.5	100.0

Coefficient of Utilization



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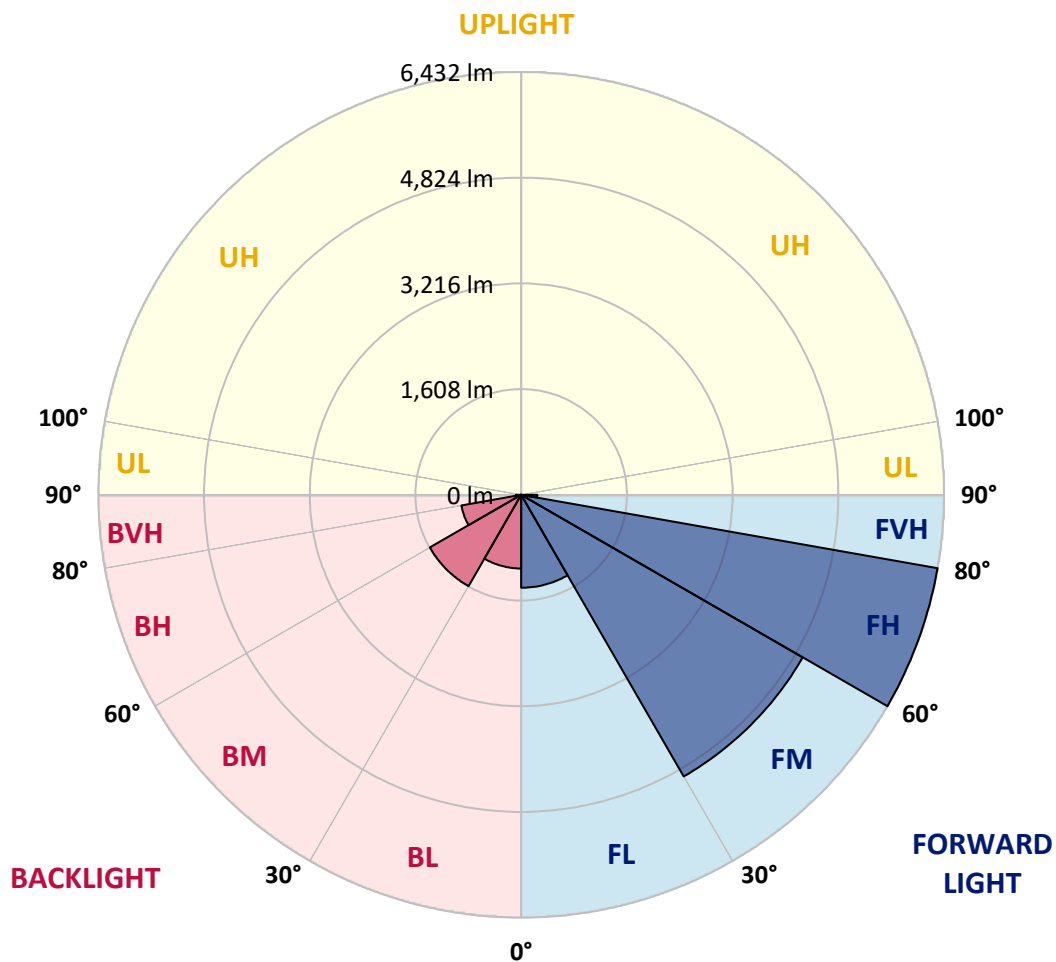
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1413.6	8.4			
FM (30°-60°)	4945.7	29.5			
FH (60°-80°)	6432.2	38.4			G3/7500
FVH (80°-90°)	245.3	1.5			G3/500
BL (0°-30°)	1120.5	6.7	B3/2500		
BM (30°-60°)	1604.1	9.6	B2/2500		
BH (60°-80°)	923.1	5.5	B2/1000		G2/1000
BVH (80°-90°)	79.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	42.5°	45°
0°	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1
2.5°	3558.5	3571.2	3566.6	3566.6	3570.1	3564.3	3564.3	3566.6	3560.8	3564.3	3563.1
5°	3545.8	3552.7	3550.4	3550.4	3550.4	3545.8	3543.5	3542.3	3534.2	3534.2	3530.8
7.5°	3518.1	3520.4	3523.8	3519.2	3518.1	3516.9	3508.8	3504.2	3494.9	3486.9	3489.2
10°	3481.1	3479.9	3485.7	3482.2	3477.6	3474.1	3467.2	3459.1	3448.7	3438.3	3437.2
12.5°	3439.5	3438.3	3442.9	3440.6	3437.2	3430.2	3424.4	3410.6	3394.4	3381.7	3380.5
15°	3412.9	3409.4	3414.0	3409.4	3403.6	3396.7	3386.3	3369.0	3340.1	3327.4	3317.0
17.5°	3438.3	3432.5	3434.8	3429.1	3421.0	3402.5	3378.2	3341.2	3299.6	3277.7	3261.5
20°	3527.3	3516.9	3519.2	3513.4	3494.9	3470.7	3424.4	3359.7	3289.2	3253.4	3228.0
22.5°	3654.4	3646.3	3649.8	3644.0	3625.5	3588.6	3519.2	3426.8	3326.2	3274.2	3233.7
25°	3847.4	3854.4	3856.7	3830.1	3819.7	3751.5	3655.6	3527.3	3393.2	3332.0	3276.5
27.5°	4064.7	4064.7	4075.1	4064.7	4043.9	3964.2	3828.9	3674.1	3501.9	3418.7	3351.6
30°	4276.2	4273.9	4293.6	4291.2	4257.7	4167.6	4013.9	3825.5	3629.0	3535.4	3449.9
32.5°	4500.4	4507.4	4520.1	4515.5	4471.5	4346.7	4161.8	3957.2	3750.4	3647.5	3551.6
35°	4743.1	4746.6	4751.2	4748.9	4659.9	4502.7	4270.4	4041.6	3826.6	3724.9	3625.5
37.5°	4985.8	4982.4	4976.6	4926.9	4825.2	4606.8	4336.3	4090.1	3864.8	3755.0	3652.1
40°	5203.1	5183.5	5165.0	5087.5	4931.5	4665.7	4361.7	4101.7	3861.3	3748.0	3647.5
42.5°	5322.2	5300.2	5262.1	5165.0	4975.4	4671.5	4344.4	4067.0	3825.5	3713.4	3614.0
45°	5344.1	5327.9	5291.0	5182.3	4965.0	4634.5	4291.2	4010.4	3772.3	3660.2	3566.6
47.5°	5292.1	5279.4	5243.6	5136.1	4920.0	4579.0	4230.0	3950.3	3720.3	3615.1	3525.0
50°	5212.4	5200.8	5173.1	5074.8	4869.1	4540.9	4198.8	3919.1	3703.0	3607.0	3523.8
52.5°	5341.8	5351.1	5270.2	5162.7	4923.4	4574.4	4233.5	3951.5	3734.2	3639.4	3552.7
55°	7353.9	7341.2	6854.7	6446.7	5717.4	5056.3	4562.8	4208.0	3975.7	3881.0	3800.1
57.5°	9555.6	9511.7	9311.8	8930.4	8146.8	7100.8	6149.7	5340.7	5021.7	4885.3	4894.5
60°	10274.5	10290.7	10247.9	10112.7	9831.8	9287.5	8564.0	7956.1	7357.4	7065.0	7098.5
62.5°	10673.2	10702.1	10739.1	10709.0	10617.7	10491.8	10400.5	10455.9	10372.7	10162.4	9994.8
65°	10728.7	10787.6	10910.1	11007.2	11054.6	11173.6	11453.3	12123.7	12736.2	12776.6	12481.9
67.5°	9630.7	9793.7	10059.5	10509.1	10894.0	11317.0	11991.9	13011.3	13915.0	13945.1	13670.0
69°	7572.4	7885.6	8196.5	9200.8	9876.9	10705.6	11704.1	13096.8	14179.7	14262.9	13916.2
70°	6067.6	6253.7	6521.8	7530.8	8540.9	9597.2	11044.2	12814.8	13998.3	14165.8	13783.3
72.5°	3642.9	3714.5	3807.0	4168.7	4688.8	5629.6	7548.1	10447.8	11808.1	12032.4	11545.8
75°	2355.4	2350.8	2358.9	2459.4	2489.5	2669.7	3274.2	5375.3	7703.0	8109.8	7527.3
77.5°	1774.1	1790.2	1764.8	1774.1	1766.0	1814.5	1833.0	1924.3	3040.7	3745.7	3349.3
80°	1566.0	1574.1	1575.3	1570.6	1514.0	1509.4	1539.4	1487.4	1382.3	1403.1	1344.1
82.5°	893.4	892.2	902.6	981.2	1013.6	1119.9	1163.8	1188.1	1096.8	1028.6	930.4
85°	579.0	583.6	595.2	619.5	595.2	604.4	594.0	614.9	564.0	523.5	468.1
87.5°	236.9	236.9	252.0	273.9	255.4	250.8	215.0	212.7	180.3	163.0	127.1
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1
2.5°	3556.2	3563.1	3559.7	3564.3	3560.8	3560.8	3556.2	3555.0	3558.5	3553.9	3555.0
5°	3525.0	3526.1	3520.4	3522.7	3515.7	3513.4	3510.0	3500.7	3506.5	3500.7	3503.0
7.5°	3479.9	3476.5	3468.4	3456.8	3448.7	3445.2	3438.3	3425.6	3427.9	3417.5	3423.3
10°	3422.1	3410.6	3396.7	3379.4	3367.8	3357.4	3342.4	3327.4	3319.3	3310.0	3308.9
12.5°	3357.4	3343.5	3325.0	3298.5	3273.0	3255.7	3232.6	3206.0	3197.9	3182.9	3174.8
15°	3286.9	3265.0	3243.0	3212.9	3185.2	3158.6	3127.4	3093.9	3071.9	3048.8	3031.5
17.5°	3223.3	3197.9	3169.0	3140.1	3110.1	3077.7	3038.4	2996.8	2964.5	2921.7	2887.0
20°	3173.6	3141.3	3112.4	3082.3	3048.8	3009.5	2962.1	2909.0	2854.7	2807.3	2766.8
22.5°	3154.0	3103.1	3068.5	3038.4	3004.9	2958.7	2900.9	2838.5	2772.6	2706.7	2653.6
25°	3170.2	3095.1	3040.7	3004.9	2976.0	2928.6	2863.9	2787.6	2711.4	2632.8	2561.1
27.5°	3217.6	3121.6	3043.0	2986.4	2952.9	2905.5	2837.3	2756.4	2666.3	2578.4	2490.6
30°	3291.5	3166.7	3067.3	2987.6	2935.6	2881.2	2809.6	2716.0	2624.7	2524.1	2428.2
32.5°	3363.2	3214.1	3095.1	2992.2	2912.5	2842.0	2762.2	2669.7	2571.5	2466.3	2366.9
35°	3414.0	3245.3	3105.5	2981.8	2876.6	2788.8	2703.3	2610.8	2514.9	2407.4	2305.7
37.5°	3438.3	3262.6	3106.6	2954.1	2829.2	2732.2	2640.9	2549.6	2459.4	2357.7	2261.8
40°	3437.2	3261.5	3090.4	2918.2	2772.6	2669.7	2579.6	2490.6	2406.2	2317.2	2230.6
42.5°	3411.7	3243.0	3067.3	2883.6	2732.2	2617.7	2524.1	2438.6	2366.9	2288.4	2215.5
45°	3372.4	3211.8	3043.0	2867.4	2720.6	2606.2	2506.8	2423.6	2360.0	2288.4	2225.9
47.5°	3342.4	3194.5	3046.5	2896.3	2756.4	2637.4	2532.2	2440.9	2386.6	2328.8	2284.9
50°	3347.0	3202.5	3058.1	2913.6	2781.9	2661.7	2560.0	2476.7	2437.4	2422.4	2412.0
52.5°	3371.3	3215.3	3092.7	3006.1	2961.0	2870.8	2810.7	2758.7	2787.6	2731.0	2664.0
55°	3681.0	3630.2	3749.2	3861.3	4003.5	4056.6	4005.8	3996.5	4042.8	3850.9	3410.6
57.5°	4960.4	5092.2	5275.9	5373.0	5490.9	5459.7	5341.8	5243.6	5128.0	4903.8	4354.8
60°	7136.7	7037.3	6954.1	6719.4	6527.6	6303.4	6053.7	5839.9	5635.4	5312.9	4718.9
62.5°	9378.8	8688.8	8112.1	7555.0	7106.6	6734.5	6372.7	6051.4	5741.7	5292.1	4653.0
65°	11318.1	9865.4	8782.4	7965.3	7310.0	6744.9	6280.3	5836.5	5442.4	4915.3	4283.2
67.5°	12189.5	10369.3	8794.0	7623.2	6716.0	5948.6	5347.6	4677.3	4235.8	3898.3	3542.3
69°	12124.8	9984.4	8166.4	6725.2	5682.7	4788.2	4143.3	3444.1	3021.1	2877.8	2869.7
70°	11817.4	9332.6	7433.7	5996.0	4803.2	3914.5	3296.2	2668.6	2274.5	2176.2	2350.8
72.5°	9648.1	6594.6	4658.8	3557.4	2735.6	2162.4	1763.7	1399.6	1117.6	968.5	1000.9
75°	5449.3	3053.5	1974.0	1492.1	1260.9	1042.5	894.5	762.8	690.0	560.5	443.8
77.5°	1980.9	1310.6	1042.5	901.5	639.1	440.3	368.7	322.5	292.4	292.4	278.5
80°	1252.8	987.0	688.8	471.5	349.0	304.0	265.8	233.5	215.0	210.3	215.0
82.5°	782.4	604.4	386.0	295.9	248.5	223.1	194.2	169.9	154.9	151.4	158.3
85°	386.0	299.3	234.6	209.2	196.5	182.6	160.6	137.5	132.9	142.2	166.4
87.5°	115.6	102.9	84.4	87.8	92.5	90.1	71.7	62.4	58.9	77.4	121.4
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1
2.5°	3557.4	3556.2	3558.5	3555.0	3557.4	3558.5	3556.2	3566.6	3559.7	3560.8	3565.4
5°	3505.3	3503.0	3512.3	3510.0	3514.6	3519.2	3516.9	3531.9	3526.1	3530.8	3540.0
7.5°	3418.7	3423.3	3424.4	3424.4	3433.7	3448.7	3452.2	3461.4	3461.4	3474.1	3483.4
10°	3303.1	3304.2	3311.2	3310.0	3321.6	3337.8	3340.1	3356.3	3362.0	3382.8	3395.5
12.5°	3169.0	3163.2	3162.1	3160.9	3176.0	3193.3	3195.6	3223.3	3234.9	3253.4	3274.2
15°	3018.8	3003.8	2999.1	3008.4	3004.9	3015.3	3025.7	3040.7	3056.9	3093.9	3112.4
17.5°	2872.0	2842.0	2833.9	2823.5	2813.1	2813.1	2817.7	2836.2	2869.7	2889.3	2930.9
20°	2721.8	2685.9	2657.0	2629.3	2605.0	2595.8	2596.9	2620.1	2644.3	2676.7	2716.0
22.5°	2595.8	2541.5	2491.8	2454.8	2405.1	2403.9	2397.0	2403.9	2430.5	2438.6	2460.6
25°	2487.1	2414.3	2347.3	2287.2	2238.7	2213.2	2206.3	2204.0	2191.3	2187.8	2171.6
27.5°	2402.8	2314.9	2228.3	2155.4	2095.3	2060.7	2016.8	1985.6	1940.5	1928.9	1900.0
30°	2333.4	2238.7	2143.9	2049.1	1980.9	1918.5	1844.6	1790.2	1720.9	1675.8	1636.5
32.5°	2266.4	2170.5	2074.5	1980.9	1875.8	1778.7	1681.6	1597.2	1519.8	1450.4	1392.7
35°	2210.9	2119.6	2022.5	1909.3	1775.2	1635.4	1518.6	1422.7	1316.4	1243.6	1170.8
37.5°	2175.1	2091.9	1994.8	1838.8	1666.6	1516.3	1383.4	1266.7	1158.0	1048.3	966.2
40°	2158.9	2086.1	1964.7	1774.1	1571.8	1405.4	1258.6	1129.2	990.5	866.8	779.0
42.5°	2157.8	2083.8	1923.1	1702.4	1493.2	1311.8	1148.8	993.9	840.2	713.1	626.4
45°	2178.6	2080.3	1879.2	1642.3	1423.9	1234.3	1040.2	851.8	679.6	584.8	538.6
47.5°	2234.0	2086.1	1843.4	1586.8	1358.0	1140.7	915.3	695.8	553.6	509.7	509.7
50°	2333.4	2119.6	1834.2	1547.5	1292.1	1032.1	762.8	561.7	490.0	490.0	503.9
52.5°	2486.0	2190.1	1850.3	1519.8	1210.1	888.8	601.0	484.3	470.4	483.1	501.6
55°	2837.3	2314.9	1872.3	1472.4	1085.2	705.0	495.8	457.7	463.4	478.5	495.8
57.5°	3482.2	2581.9	1895.4	1368.4	884.1	543.2	449.6	447.3	457.7	471.5	486.6
60°	3906.4	2921.7	1954.3	1211.2	669.2	448.4	426.5	440.3	453.0	464.6	476.2
62.5°	3906.4	3017.6	1998.3	1035.5	502.7	408.0	411.4	433.4	448.4	454.2	461.1
65°	3656.7	2842.0	1849.2	843.7	409.1	384.9	397.6	419.5	433.4	438.0	443.8
67.5°	3195.6	2510.3	1557.9	635.7	365.2	365.2	381.4	397.6	409.1	418.4	427.6
69°	2778.4	2252.5	1371.9	538.6	347.9	350.2	366.4	380.2	394.1	405.7	417.2
70°	2477.9	2059.5	1242.4	488.9	337.5	338.6	354.8	369.8	382.5	395.3	409.1
72.5°	1326.8	1422.7	944.2	401.0	310.9	314.4	329.4	343.3	354.8	367.5	380.2
75°	451.9	611.4	601.0	328.2	280.8	290.1	299.3	312.0	327.1	335.2	342.1
77.5°	264.7	273.9	320.1	267.0	253.1	257.7	268.1	278.5	291.2	299.3	305.1
80°	221.9	220.7	221.9	217.3	220.7	231.1	238.1	252.0	263.5	265.8	264.7
82.5°	180.3	189.5	190.7	188.4	198.8	206.9	212.7	220.7	219.6	221.9	226.5
85°	160.6	159.5	167.6	168.7	168.7	163.0	164.1	164.1	164.1	167.6	168.7
87.5°	160.6	134.1	104.0	93.6	98.2	92.5	87.8	86.7	95.9	105.2	102.9
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°	3570.1	3570.1	3570.1	3570.1	3570.1
2.5°	3567.8	3571.2	3568.9	3568.9	3571.2
5°	3543.5	3549.3	3547.0	3549.3	3549.3
7.5°	3488.0	3496.1	3501.9	3507.7	3504.2
10°	3408.3	3422.1	3431.4	3438.3	3434.8
12.5°	3289.2	3301.9	3321.6	3333.1	3323.9
15°	3126.3	3162.1	3173.6	3189.8	3180.6
17.5°	2956.4	2978.3	2992.2	3007.2	3016.5
20°	2729.8	2747.2	2765.7	2772.6	2762.2
22.5°	2457.1	2466.3	2462.9	2473.3	2452.5
25°	2157.8	2163.5	2160.1	2169.3	2152.0
27.5°	1874.6	1873.4	1874.6	1863.0	1851.5
30°	1601.8	1591.4	1586.8	1569.5	1566.0
32.5°	1358.0	1322.2	1303.7	1278.2	1272.5
35°	1114.1	1063.3	1029.8	1000.9	988.2
37.5°	895.7	834.4	795.1	769.7	766.3
40°	708.5	651.8	624.1	610.2	607.9
42.5°	577.9	553.6	546.7	546.7	546.7
45°	527.0	525.9	531.6	536.3	537.4
47.5°	516.6	523.5	531.6	538.6	540.9
50°	516.6	523.5	529.3	536.3	538.6
52.5°	514.3	520.1	522.4	527.0	529.3
55°	507.4	510.8	510.8	513.1	515.5
57.5°	495.8	498.1	494.7	497.0	502.7
60°	484.3	486.6	480.8	486.6	490.0
62.5°	471.5	472.7	470.4	475.0	475.0
65°	450.7	448.4	451.9	455.4	456.5
67.5°	429.9	424.2	427.6	428.8	431.1
69°	413.8	410.3	411.4	413.8	416.1
70°	402.2	399.9	402.2	405.7	409.1
72.5°	373.3	374.5	382.5	389.5	396.4
75°	346.7	354.8	365.2	380.2	388.3
77.5°	314.4	320.1	328.2	344.4	359.4
80°	271.6	275.1	276.2	282.0	280.8
82.5°	220.7	217.3	215.0	212.7	211.5
85°	158.3	157.2	147.9	141.0	141.0
87.5°	94.8	90.1	85.5	79.7	76.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)