

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: P149091

Luminaire Tested: **TMU-E05-LED-E-U-RW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P149091
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33677)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: TMU-E05-LED-E-U-RW-7050
Description: TALON MEDIUM LED AREA LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (105) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16027.5 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B4 - U0 - G2

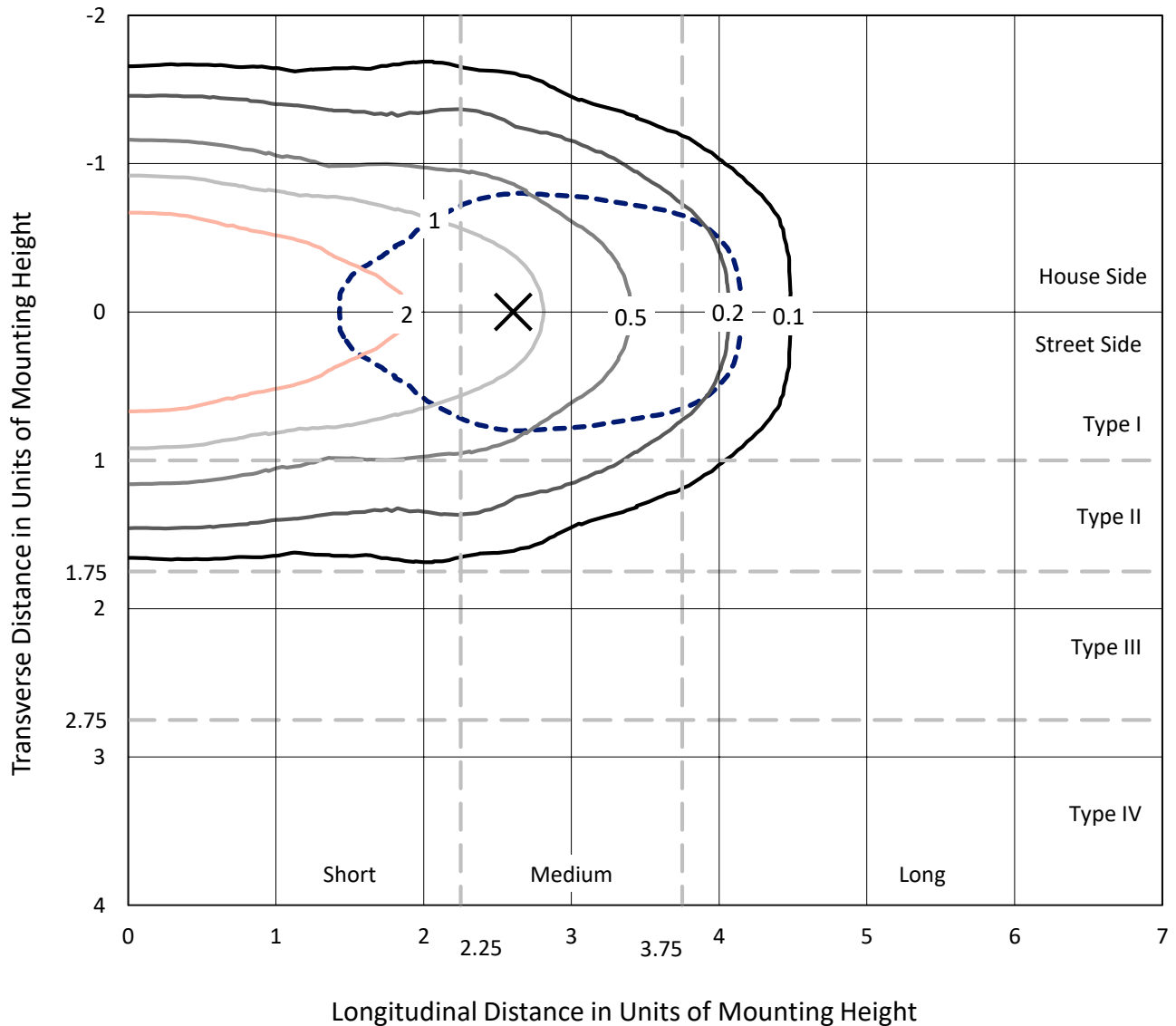
Input Watts (W): 127.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

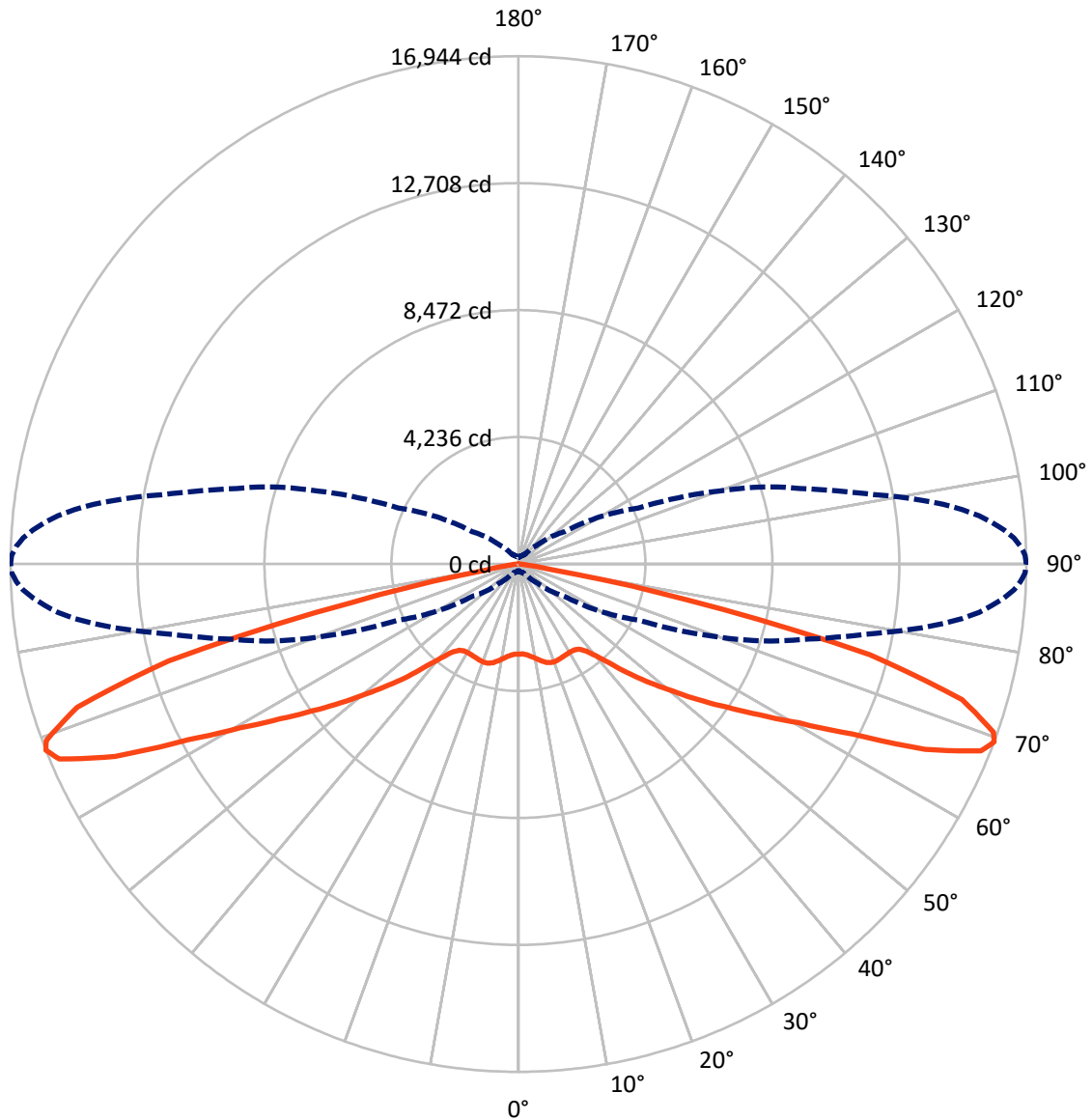
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type V - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8013.7	0.0	8013.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8013.7	0.0	8013.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	16027.5	0.0	16027.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.6	1.8
10°-20°	929.2	5.8
20°-30°	1505.5	9.4
30°-40°	1876.2	11.7
40°-50°	2344.5	14.6
50°-60°	2895.0	18.1
60°-70°	3597.2	22.4
70°-80°	2388.1	14.9
80°-90°	197.2	1.2
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°	16027.5	100.0
0°-180°	16027.5	100.0



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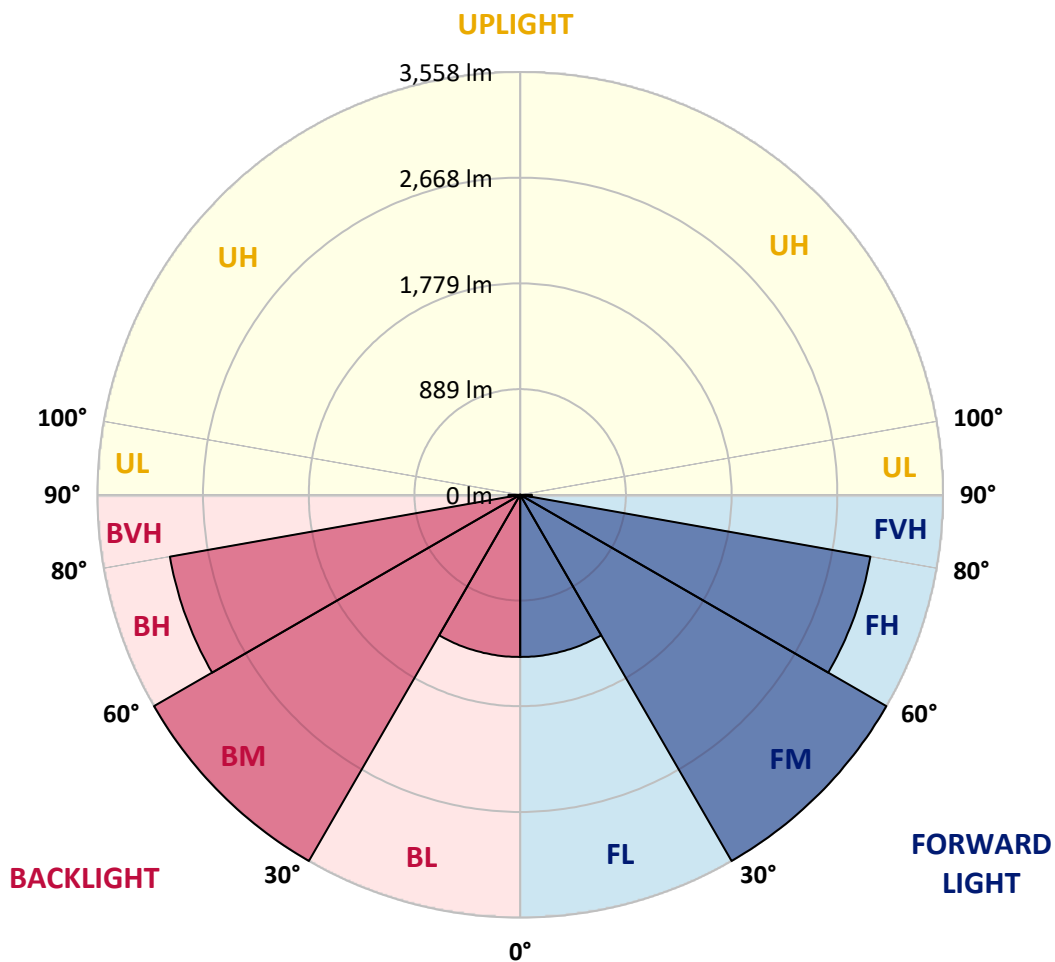
CATALOG NUMBER: TMU-E05-LED-E-U-RW-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1364.6	8.5			
FM	(30°-60°)	3557.9	22.2			
FH	(60°-80°)	2992.6	18.7			G2/5000
FVH	(80°-90°)	98.6	0.6			G1/100
BL	(0°-30°)	1364.6	8.5	B3/2500		
BM	(30°-60°)	3557.9	22.2	B3/5000		
BH	(60°-80°)	2992.6	18.7	B4/5000		G2/5000
BVH	(80°-90°)	98.6	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	3003.1	3003.1	3003.1	3003.1	3003.1	3003.1	3003.1	3003.1	3003.1	3003.1	3003.1
2.5°	3016.8	3019.3	3017.6	3021.0	3020.2	3020.2	3018.4	3015.0	3014.6	3014.2	3013.7
5°	3045.8	3042.4	3047.6	3052.6	3051.0	3051.8	3051.0	3051.0	3050.6	3050.3	3049.9
7.5°	3076.6	3075.8	3079.1	3092.8	3094.6	3099.7	3105.6	3110.0	3110.1	3110.3	3110.4
10°	3103.1	3104.0	3112.6	3132.2	3142.4	3158.7	3175.0	3187.8	3188.7	3189.6	3190.6
12.5°	3124.5	3125.4	3138.2	3169.0	3193.8	3224.5	3259.6	3279.3	3281.0	3282.7	3284.4
15°	3126.2	3128.8	3151.0	3201.4	3251.0	3301.4	3343.4	3369.9	3371.3	3372.6	3374.0
17.5°	3104.0	3105.6	3143.3	3217.7	3300.6	3379.3	3423.0	3434.9	3435.4	3435.9	3436.4
20°	3045.8	3050.1	3103.1	3213.4	3340.0	3442.6	3487.9	3471.6	3470.0	3468.4	3466.8
22.5°	2951.8	2950.9	3020.2	3169.0	3347.7	3492.2	3532.4	3489.6	3484.6	3479.5	3474.5
25°	2799.6	2809.8	2891.0	3068.9	3304.1	3503.2	3564.0	3499.0	3491.7	3484.5	3477.2
27.5°	2634.5	2640.5	2726.9	2917.6	3202.3	3464.8	3579.4	3517.8	3509.7	3501.6	3493.5
30°	2442.1	2449.8	2542.2	2741.4	3039.0	3365.6	3575.1	3560.6	3551.1	3541.6	3532.1
32.5°	2254.0	2262.6	2345.5	2563.6	2867.1	3229.7	3549.5	3621.3	3611.5	3601.8	3592.0
35°	2059.0	2071.9	2172.8	2393.4	2701.2	3078.3	3510.2	3699.1	3693.7	3688.3	3683.0
37.5°	1897.4	1900.0	1997.5	2229.2	2547.3	2933.8	3458.0	3797.4	3801.4	3805.3	3809.2
40°	1717.0	1733.2	1830.8	2075.3	2408.0	2811.5	3408.4	3930.8	3951.3	3971.7	3992.2
42.5°	1555.4	1557.1	1656.3	1908.6	2256.6	2713.2	3381.0	4091.6	4135.3	4179.0	4222.7
45°	1385.2	1392.1	1481.9	1725.6	2082.2	2596.9	3380.2	4277.2	4346.9	4416.7	4486.5
47.5°	1224.5	1227.0	1322.0	1548.6	1882.0	2434.4	3374.2	4476.4	4571.4	4666.4	4761.4
50°	1070.6	1068.0	1161.2	1379.2	1684.6	2221.5	3322.0	4702.2	4822.1	4942.1	5062.0
52.5°	894.4	906.4	1003.0	1211.6	1505.0	2005.2	3169.8	4949.2	5092.7	5236.2	5379.7
55°	721.7	726.8	830.3	1025.2	1322.8	1803.4	2904.8	5176.7	5345.8	5515.0	5684.1
57.5°	531.9	547.2	637.9	830.3	1138.1	1633.2	2567.9	5294.7	5500.5	5706.3	5912.2
60°	375.4	387.4	467.8	629.3	935.5	1454.5	2278.0	5228.8	5496.3	5763.8	6031.3
62.5°	292.4	301.8	366.0	471.2	729.4	1275.8	2070.1	5016.0	5379.9	5743.8	6107.7
65°	256.5	265.1	323.2	377.1	544.7	1093.6	1956.5	4791.0	5272.1	5753.2	6234.3
67.5°	231.8	242.0	292.4	330.0	443.8	954.2	1926.5	4649.1	5194.0	5738.8	6283.7
69°	220.6	230.9	276.2	307.8	412.2	904.6	1875.2	4426.0	4967.6	5509.4	6051.0
70°	213.8	222.3	264.2	296.7	401.9	870.4	1789.7	4147.2	4679.1	5211.1	5743.0
72.5°	198.4	202.6	239.4	271.1	372.8	703.7	1376.7	3080.0	3541.2	4002.3	4463.5
75°	175.3	180.4	214.6	245.4	290.7	437.0	871.4	1905.2	2249.4	2593.7	2937.9
77.5°	151.4	155.6	185.5	234.3	225.8	272.8	520.8	1060.3	1260.0	1459.6	1659.3
80°	121.4	126.6	153.0	232.6	186.4	212.1	374.5	741.4	795.2	849.1	903.0
82.5°	88.9	93.2	119.8	188.1	142.8	159.9	285.6	628.5	647.2	665.9	684.7
85°	45.3	46.2	76.1	114.6	90.6	83.0	160.8	430.1	442.1	454.0	466.0
87.5°	7.7	7.7	17.1	19.6	22.2	13.7	20.6	73.6	75.8	78.2	80.4
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):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	3003.1	3003.1	3003.1	3003.1	3003.1	3003.1	3003.1	3003.1	3003.1	3003.1	3003.1
2.5°	3013.3	3012.9	3011.4	3011.7	3012.8	3012.2	3013.3	3013.5	3014.5	3011.3	3010.6
5°	3049.6	3049.2	3049.1	3048.9	3049.6	3049.4	3050.1	3051.5	3051.1	3049.1	3048.7
7.5°	3110.6	3110.8	3111.6	3110.8	3112.5	3111.6	3110.0	3112.7	3114.6	3114.7	3116.6
10°	3191.5	3192.5	3195.5	3195.0	3198.0	3197.6	3198.0	3200.9	3203.0	3203.3	3205.4
12.5°	3286.1	3287.8	3289.4	3290.9	3294.1	3292.3	3296.4	3298.1	3300.6	3305.7	3303.2
15°	3375.4	3376.8	3381.4	3381.7	3384.6	3385.8	3389.6	3391.1	3391.8	3395.9	3396.6
17.5°	3436.9	3437.4	3439.2	3438.3	3440.9	3440.0	3442.6	3444.0	3446.2	3448.4	3452.3
20°	3465.2	3463.5	3462.6	3461.6	3459.8	3457.2	3458.0	3459.2	3459.5	3461.6	3464.4
22.5°	3469.4	3464.4	3459.2	3455.6	3450.5	3446.1	3441.8	3442.1	3442.4	3441.9	3443.9
25°	3469.9	3462.6	3454.5	3444.7	3437.4	3427.6	3419.4	3418.8	3416.4	3416.6	3417.6
27.5°	3485.3	3477.2	3465.8	3454.5	3438.8	3425.8	3412.6	3408.0	3403.4	3400.5	3399.3
30°	3522.6	3513.1	3499.6	3485.1	3468.1	3447.7	3428.9	3423.1	3416.4	3410.6	3405.6
32.5°	3582.3	3572.5	3557.5	3542.4	3519.7	3499.5	3481.0	3471.6	3462.3	3452.0	3442.6
35°	3677.6	3672.2	3658.9	3645.6	3629.0	3613.2	3596.5	3585.9	3570.2	3562.1	3550.7
37.5°	3813.2	3817.1	3817.1	3818.8	3813.7	3806.0	3794.0	3782.9	3777.8	3756.4	3742.7
40°	4012.6	4033.0	4051.7	4066.2	4079.0	4091.7	4102.7	4096.2	4098.2	4092.6	4084.4
42.5°	4266.4	4310.1	4350.0	4390.0	4418.8	4463.8	4495.2	4505.1	4530.4	4540.4	4558.8
45°	4556.2	4626.0	4693.1	4754.9	4812.6	4877.1	4939.8	4986.5	5037.5	5095.3	5153.1
47.5°	4856.4	4951.4	5050.2	5131.0	5214.3	5309.7	5393.0	5463.3	5555.0	5639.8	5733.2
50°	5182.0	5302.0	5414.4	5514.0	5621.4	5731.2	5845.4	5948.7	6072.5	6208.3	6355.2
52.5°	5523.2	5666.6	5796.8	5921.8	6047.7	6173.6	6295.2	6441.0	6593.8	6773.0	6956.4
55°	5853.2	6022.4	6170.0	6309.0	6453.2	6593.9	6719.3	6914.4	7101.9	7315.8	7555.4
57.5°	6118.0	6323.8	6494.0	6659.2	6821.7	6971.4	7125.4	7345.6	7584.4	7834.5	8138.4
60°	6298.8	6566.2	6783.6	6982.1	7181.5	7369.8	7547.0	7834.7	8118.9	8429.6	8807.9
62.5°	6471.7	6835.6	7119.1	7389.8	7658.9	7900.5	8120.8	8482.7	8854.0	9238.0	9688.0
65°	6715.4	7196.4	7614.0	7991.4	8363.8	8719.0	9048.5	9507.0	9975.8	10481.3	11018.5
67.5°	6828.6	7373.4	7917.2	8426.1	8898.9	9348.7	9772.0	10326.2	10877.9	11463.8	12113.0
69°	6592.8	7134.4	7715.8	8271.5	8793.9	9270.9	9729.2	10295.1	10868.7	11467.1	12121.9
70°	6275.0	6806.9	7393.8	7974.6	8474.2	8971.3	9446.2	10007.6	10588.7	11188.6	11874.1
72.5°	4924.6	5385.8	5958.1	6521.9	7023.2	7521.9	7983.1	8557.7	9142.6	9772.8	10421.8
75°	3282.2	3626.4	4052.8	4575.8	5035.5	5476.3	5923.2	6409.2	6979.9	7499.3	8093.1
77.5°	1858.9	2058.6	2306.3	2646.4	2976.2	3240.2	3558.8	3787.5	4118.8	4404.7	4706.9
80°	956.9	1010.7	1084.6	1166.2	1212.7	1205.3	1252.7	1205.9	1216.3	1178.0	1137.1
82.5°	703.4	722.1	755.5	771.9	770.3	716.5	659.2	579.9	510.0	436.6	369.2
85°	478.0	490.0	498.4	511.0	507.4	484.2	432.7	363.8	296.5	237.9	190.4
87.5°	82.8	85.0	84.4	91.6	91.8	85.2	70.1	59.8	50.4	37.6	26.5
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°	86°	87°	88°	89°	90°
0°	3003.1	3003.1	3003.1	3003.1	3003.1	3003.1	3003.1	3003.1	3003.1	3003.1	3003.1
2.5°	3009.9	3010.0	3011.6	3010.0	3010.0	3009.9	3009.0	3010.8	3009.9	3007.4	3004.8
5°	3049.2	3046.6	3045.8	3047.6	3049.2	3045.8	3048.4	3051.0	3046.6	3047.5	3045.8
7.5°	3115.1	3114.2	3113.4	3115.0	3115.1	3114.2	3115.1	3112.6	3110.9	3113.4	3115.9
10°	3203.2	3202.3	3204.0	3204.0	3207.4	3205.7	3204.9	3207.5	3205.7	3204.0	3204.9
12.5°	3306.6	3304.0	3308.4	3308.4	3310.9	3310.9	3310.0	3310.9	3310.0	3307.4	3305.8
15°	3399.0	3395.6	3396.4	3403.2	3402.4	3404.1	3404.1	3402.4	3401.6	3400.7	3401.5
17.5°	3454.6	3452.8	3452.8	3456.2	3458.8	3458.0	3458.0	3458.0	3457.2	3458.0	3459.7
20°	3464.8	3464.8	3465.7	3469.1	3473.4	3470.8	3470.8	3472.5	3470.8	3472.5	3473.4
22.5°	3445.2	3446.8	3448.6	3452.8	3453.7	3453.7	3453.7	3454.6	3456.2	3456.2	3458.0
25°	3417.8	3419.5	3422.0	3425.5	3428.9	3428.9	3428.9	3430.6	3430.6	3431.5	3432.3
27.5°	3397.2	3399.0	3401.6	3405.0	3409.2	3409.2	3409.2	3411.0	3411.0	3411.8	3413.5
30°	3399.8	3396.4	3399.0	3400.7	3403.2	3403.2	3402.4	3403.2	3404.1	3404.1	3405.0
32.5°	3436.6	3428.9	3426.4	3425.5	3426.4	3423.8	3422.9	3421.2	3419.5	3419.5	3418.6
35°	3534.1	3522.1	3521.3	3514.4	3507.6	3500.7	3501.6	3496.5	3498.2	3493.9	3490.5
37.5°	3734.2	3720.5	3729.0	3714.5	3705.1	3698.2	3690.6	3680.3	3674.3	3682.0	3682.0
40°	4092.4	4083.0	4080.5	4083.0	4074.5	4078.8	4060.0	4054.8	4043.7	4051.4	4061.7
42.5°	4587.6	4581.5	4614.0	4620.0	4623.5	4628.6	4632.0	4603.8	4603.0	4597.0	4579.9
45°	5198.9	5234.8	5233.2	5272.4	5274.2	5262.2	5267.4	5254.5	5249.4	5230.6	5253.7
47.5°	5827.4	5895.8	5921.5	5930.0	5962.6	5970.2	5939.4	5929.2	5947.1	5916.4	5920.6
50°	6502.1	6575.6	6635.4	6675.7	6698.8	6700.4	6677.4	6672.2	6688.5	6630.4	6657.7
52.5°	7165.6	7276.8	7389.6	7449.5	7492.3	7495.7	7513.6	7492.3	7500.8	7487.2	7514.5
55°	7819.8	8012.2	8144.7	8261.8	8336.2	8400.4	8406.4	8429.4	8431.2	8459.4	8431.2
57.5°	8459.4	8668.8	8899.8	9107.6	9223.0	9295.6	9364.0	9457.2	9477.8	9466.7	9484.6
60°	9214.4	9538.5	9852.3	10091.8	10291.0	10481.6	10584.2	10730.5	10753.6	10816.8	10762.1
62.5°	10168.7	10639.0	11064.8	11387.2	11689.9	11986.6	12210.7	12323.6	12391.9	12524.5	12480.9
65°	11632.6	12197.0	12760.4	13222.2	13646.4	13999.5	14339.8	14502.3	14681.8	14870.0	14904.2
67.5°	12838.3	13536.9	14172.2	14734.8	15248.8	15641.3	15995.2	16276.6	16495.5	16634.1	16645.1
69°	12893.0	13619.0	14309.0	14912.8	15448.8	15866.2	16239.0	16552.0	16764.8	16906.8	16944.4
70°	12631.4	13374.4	14109.8	14719.4	15268.4	15695.2	16090.2	16388.6	16626.4	16770.8	16821.3
72.5°	11159.8	11953.3	12739.1	13273.6	13834.4	14342.4	14658.8	14963.2	15298.4	15342.0	15480.5
75°	8797.2	9464.1	10073.8	10482.6	10951.1	11406.8	11717.3	11797.7	11973.0	12193.6	12114.9
77.5°	5098.0	5303.2	5696.6	5797.5	5712.0	5910.4	5976.2	5836.0	5829.1	5958.2	5701.7
80°	1129.6	1065.4	1145.8	1086.0	1087.7	1089.4	1071.4	1064.6	1077.4	1064.6	1046.6
82.5°	313.0	302.7	304.4	301.0	307.0	302.7	300.1	307.0	306.1	305.3	311.3
85°	150.5	148.8	146.2	145.4	142.0	137.7	130.8	130.9	134.2	129.1	131.7
87.5°	19.6	18.8	18.8	22.2	19.6	16.2	16.2	16.2	15.4	15.4	15.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)