

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: P509918

Luminaire Tested: **VERD-M-CA3-170-722-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509918
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-5)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA3-170-722-U-T3-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2200K, 1060mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18597 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

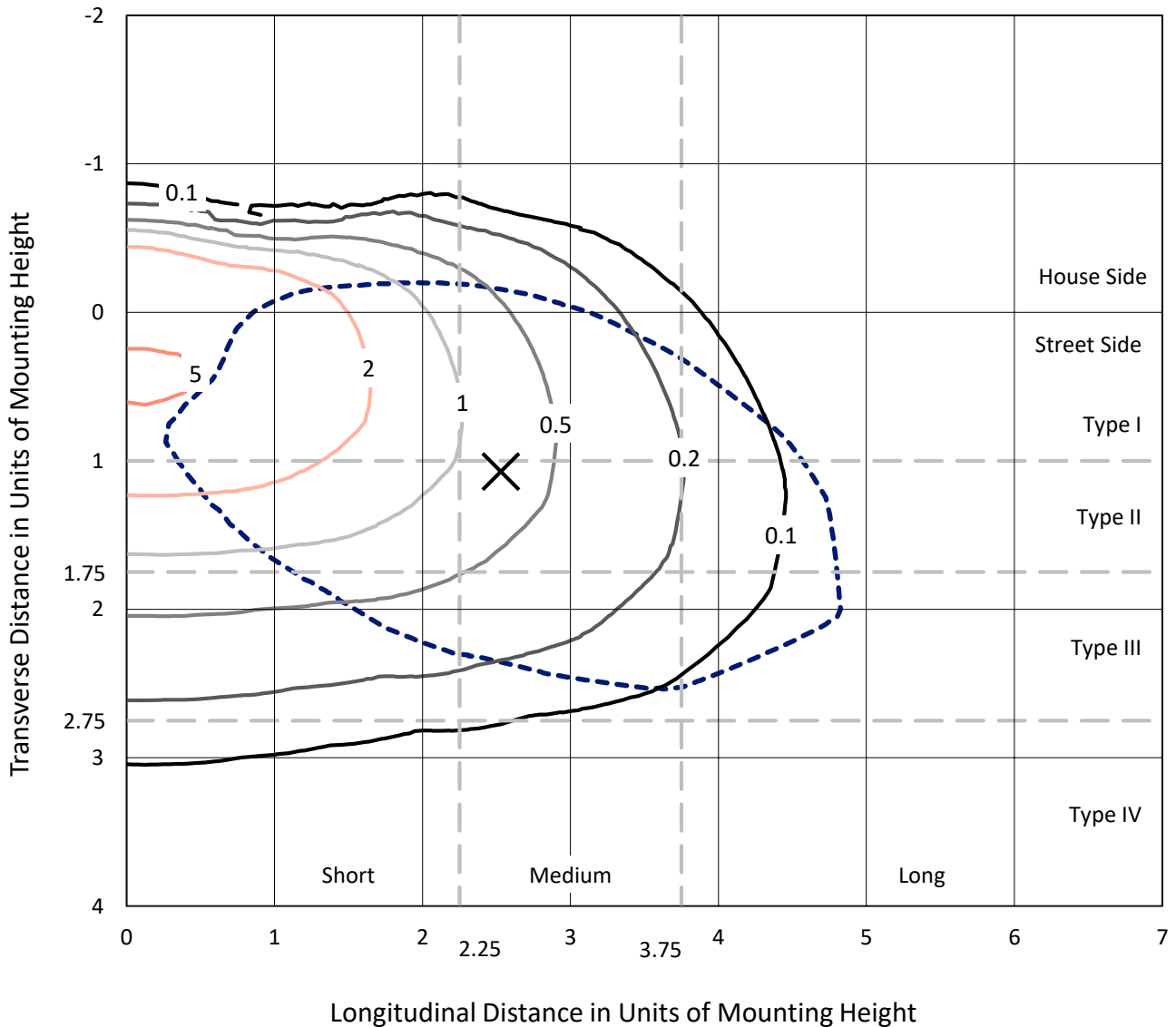
Input Watts (W): 172.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

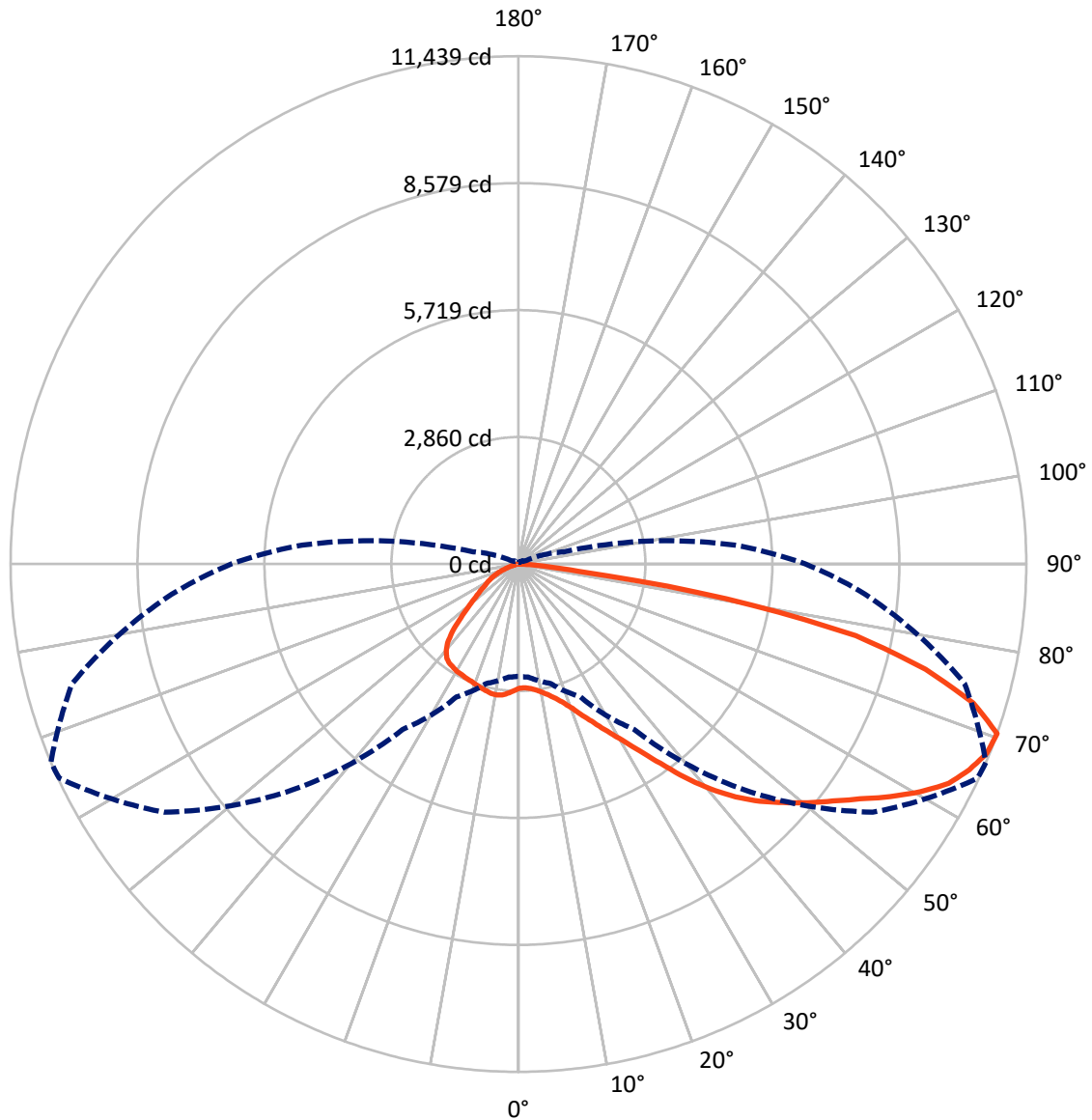
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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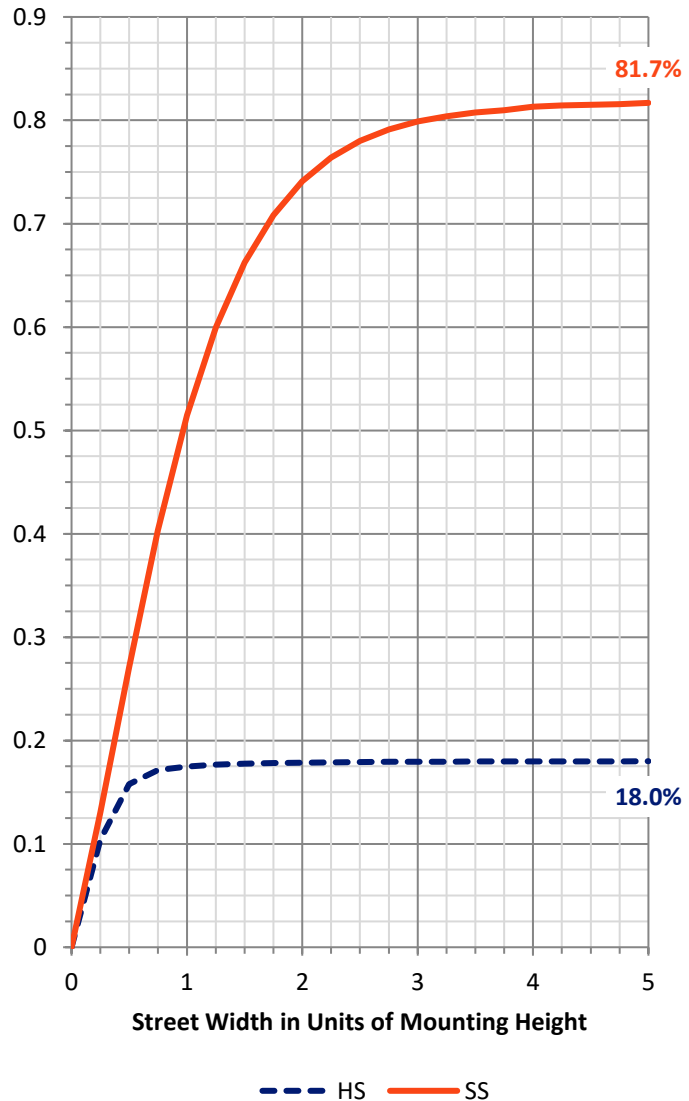
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3388.6	0.0	3388.6
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	15208.5	0.0	15208.5
	% Fixture	81.8	0.0	81.8
Total	Lumens	18597.0	0.0	18597.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.7	1.5
10°-20°	869.5	4.7
20°-30°	1508.6	8.1
30°-40°	2240.6	12.0
40°-50°	3074.0	16.5
50°-60°	3775.1	20.3
60°-70°	4047.3	21.8
70°-80°	2569.3	13.8
80°-90°	233.8	1.3
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°	18597.0	100.0
0°-180°	18597.0	100.0



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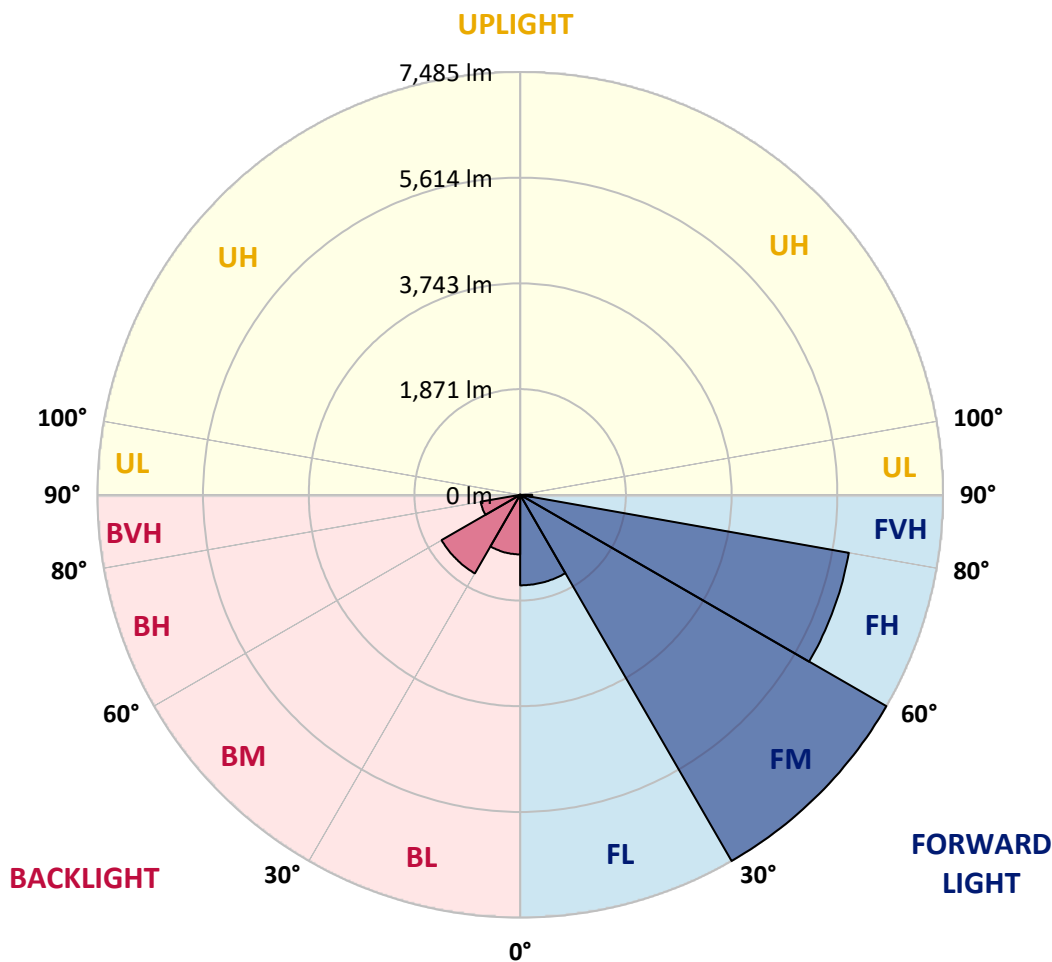
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1602.3	8.6			
FM	(30°-60°)	7485.1	40.2			
FH	(60°-80°)	5907.8	31.8			G3/7500
FVH	(80°-90°)	213.3	1.1			G2/225
BL	(0°-30°)	1054.6	5.7	B3/2500		
BM	(30°-60°)	1604.7	8.6	B2/2500		
BH	(60°-80°)	708.8	3.8	B2/1000		G2/1000
BVH	(80°-90°)	20.6	0.1			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2797.4	2797.4	2797.4	2797.4	2797.4	2797.4	2797.4	2797.4	2797.4	2797.4	2797.4
2.5°	2772.2	2798.3	2783.0	2781.2	2799.2	2782.1	2793.8	2791.1	2789.3	2792.0	2810.9
5°	2845.1	2875.7	2855.0	2848.7	2858.6	2828.0	2825.3	2819.0	2817.2	2818.1	2845.1
7.5°	2946.8	2982.8	2974.7	2958.5	2953.1	2902.7	2893.7	2871.2	2864.0	2865.8	2892.8
10°	3106.9	3142.9	3126.7	3090.7	3068.2	3010.7	2978.3	2949.5	2935.1	2936.9	2965.7
12.5°	3312.1	3346.3	3319.3	3253.6	3241.0	3148.3	3097.9	3036.7	3026.9	3012.5	3043.0
15°	3505.5	3535.2	3522.6	3461.4	3427.3	3317.5	3224.8	3149.2	3140.2	3126.7	3125.8
17.5°	3719.7	3749.4	3726.0	3681.0	3636.0	3505.5	3405.7	3308.5	3285.1	3273.4	3231.1
20°	3948.2	3995.0	3990.5	3953.6	3899.6	3746.7	3605.4	3495.6	3470.4	3448.8	3359.8
22.5°	4184.0	4245.1	4231.7	4211.9	4189.4	4017.5	3852.8	3726.0	3707.1	3661.2	3520.8
25°	4444.9	4487.2	4477.3	4487.2	4471.9	4319.8	4139.9	3985.1	3959.9	3916.7	3701.7
27.5°	4697.7	4741.8	4758.9	4738.2	4748.1	4639.3	4426.0	4287.4	4263.1	4184.0	3919.4
30°	4926.3	4981.2	5005.5	5014.5	5047.7	4935.3	4777.8	4609.6	4601.5	4520.5	4206.5
32.5°	5108.9	5170.1	5229.5	5268.2	5321.3	5271.8	5115.2	5013.6	5014.5	4941.6	4637.5
35°	5241.2	5311.4	5397.8	5500.3	5611.9	5591.2	5498.5	5500.3	5514.7	5539.0	5187.2
37.5°	5387.9	5444.6	5546.2	5689.3	5859.3	5902.5	5889.9	6033.0	6103.2	6146.4	5670.4
40°	5475.1	5532.7	5659.6	5852.2	6099.6	6203.1	6319.1	6570.2	6661.9	6617.0	6083.4
42.5°	5378.9	5430.2	5650.6	5983.5	6296.6	6531.5	6739.3	7106.4	7173.0	7026.4	6431.6
45°	5253.8	5320.4	5552.5	6019.5	6471.2	6853.6	7176.6	7573.4	7622.9	7415.1	6739.3
47.5°	5151.2	5209.7	5480.5	5980.8	6632.3	7183.8	7560.8	8014.3	8026.9	7770.5	7057.9
50°	5019.9	5090.9	5373.5	5933.1	6729.4	7476.2	7912.6	8425.5	8453.4	8138.5	7327.8
52.5°	4882.2	4951.5	5243.9	5854.8	6799.6	7719.2	8277.9	8862.8	8865.5	8528.1	7615.7
55°	4678.8	4752.6	5076.5	5741.5	6821.2	7880.2	8645.1	9309.1	9337.0	8923.1	7876.6
57.5°	4463.8	4526.8	4875.0	5565.1	6741.1	8032.3	9022.1	9804.9	9881.4	9368.5	8100.7
60°	4178.6	4241.5	4609.6	5333.9	6571.1	8203.3	9454.0	10402.3	10410.4	9729.3	8263.6
62.5°	3871.7	3926.6	4264.9	4971.3	6307.4	8269.0	9824.7	10880.1	10879.2	10050.5	8344.5
65°	3507.3	3529.8	3874.4	4525.9	5898.0	8172.7	9988.4	11195.0	11164.4	10281.8	8317.5
67.5°	3075.4	3099.7	3360.7	3972.5	5304.2	7796.6	9915.5	11347.1	11377.7	10487.8	8200.6
70°	2528.4	2557.2	2784.8	3301.3	4547.5	7196.4	9744.6	11412.8	11438.9	10405.0	7839.8
72.5°	1866.1	1904.8	2044.3	2457.3	3451.5	6046.5	8952.8	10693.9	10708.2	9714.0	7088.4
75°	1158.9	1230.0	1361.4	1633.1	2239.5	4240.6	7652.6	9560.1	9470.2	8664.9	5865.6
77.5°	463.4	475.1	540.8	764.8	1092.3	2208.1	5547.1	7599.5	7771.4	6932.8	4195.7
80°	269.9	268.1	283.4	356.3	468.8	754.9	2157.7	4263.1	4751.7	3807.9	1887.7
82.5°	217.7	209.6	209.6	228.5	224.9	317.6	707.2	1245.3	1365.9	1212.0	537.2
85°	114.3	111.6	90.9	112.5	112.5	158.4	271.7	352.7	372.5	324.8	201.6
87.5°	28.8	28.8	28.8	35.1	27.9	33.3	45.9	55.8	57.6	46.8	29.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2797.4	2797.4	2797.4	2797.4	2797.4	2797.4	2797.4	2797.4	2797.4	2797.4	2797.4
2.5°	2818.1	2826.2	2857.7	2853.2	2858.6	2858.6	2867.6	2877.5	2907.2	2890.1	2882.9
5°	2850.5	2866.7	2906.3	2920.7	2942.3	2945.0	2963.0	2969.3	3001.7	2983.7	2983.7
7.5°	2912.6	2931.5	2968.4	2973.8	2983.7	2966.6	2971.1	2951.3	2972.9	2951.3	2952.2
10°	2982.8	2995.4	3020.6	2984.6	2969.3	2928.8	2919.8	2871.2	2888.3	2860.4	2853.2
12.5°	3050.2	3045.7	3026.9	2963.0	2920.7	2854.1	2826.2	2760.5	2756.9	2720.0	2712.8
15°	3114.1	3082.6	3021.5	2922.5	2850.5	2757.8	2691.2	2619.3	2594.1	2551.8	2548.2
17.5°	3192.4	3138.4	3029.5	2883.8	2765.9	2630.9	2536.5	2455.5	2403.3	2364.6	2363.7
20°	3287.8	3205.0	3033.1	2839.7	2678.6	2505.9	2373.6	2271.0	2196.4	2147.8	2146.9
22.5°	3407.5	3295.0	3066.4	2789.3	2567.1	2354.7	2190.1	2012.8	1910.2	1811.3	1793.3
25°	3547.8	3385.9	3095.2	2763.2	2457.3	2197.3	1952.5	1693.4	1534.1	1454.9	1425.2
27.5°	3744.9	3537.0	3137.5	2713.7	2353.8	2002.9	1646.6	1364.1	1172.4	1104.9	1104.9
30°	3972.5	3727.8	3216.7	2684.0	2209.9	1730.3	1311.0	1007.8	829.6	727.9	725.2
32.5°	4319.8	3955.4	3288.7	2620.2	2035.3	1433.3	948.4	649.6	506.6	443.6	440.0
35°	4819.2	4389.1	3404.8	2556.3	1782.5	1067.1	602.0	372.5	288.8	252.8	251.0
37.5°	5299.7	4802.1	3654.9	2429.4	1423.4	670.3	333.8	215.0	176.4	171.9	170.1
40°	5638.0	5158.4	3831.3	2235.9	1011.3	355.4	193.5	155.7	153.0	151.2	150.3
42.5°	6006.9	5423.0	3956.3	1989.4	600.2	206.0	157.5	140.4	135.9	134.1	134.1
45°	6306.5	5677.6	3979.7	1636.7	302.3	170.1	144.0	127.8	122.4	126.0	126.9
47.5°	6582.8	5917.8	3900.5	1230.9	204.2	158.4	135.0	118.8	115.2	124.2	124.2
50°	6818.5	6121.2	3718.8	918.7	191.7	149.4	126.0	109.8	108.9	117.0	117.9
52.5°	7053.4	6284.9	3432.6	693.7	181.8	139.5	117.0	101.7	99.0	104.4	105.3
55°	7239.6	6343.4	3220.3	516.5	174.6	130.5	108.9	93.6	87.3	86.4	88.2
57.5°	7342.2	6292.1	3012.5	379.7	166.5	122.4	100.8	82.8	72.9	72.9	72.9
60°	7344.0	6230.1	2790.2	300.5	157.5	113.4	91.8	71.1	61.2	59.4	59.4
62.5°	7324.2	6119.4	2467.2	260.9	147.6	106.2	80.1	60.3	53.1	50.4	50.4
65°	7236.9	5910.6	2075.8	223.1	135.9	100.8	68.4	54.0	47.7	44.1	44.1
67.5°	6965.2	5519.2	1598.0	194.4	125.1	89.1	62.1	48.6	42.3	38.7	37.8
70°	6466.7	4886.7	1054.5	165.6	114.3	79.2	56.7	44.1	37.8	34.2	33.3
72.5°	5630.8	3977.0	530.0	140.4	98.1	72.9	51.3	38.7	32.4	28.8	28.8
75°	4412.5	2760.5	288.8	111.6	77.4	63.9	45.0	32.4	27.9	25.2	25.2
77.5°	2705.6	1368.6	197.1	86.4	58.5	52.2	36.0	27.0	24.3	23.4	23.4
80°	987.1	448.1	132.3	61.2	44.1	40.5	28.8	23.4	22.5	22.5	22.5
82.5°	356.3	227.6	89.1	41.4	27.9	30.6	23.4	19.8	18.9	19.8	20.7
85°	146.7	99.9	32.4	23.4	15.3	16.2	14.4	13.5	14.4	15.3	15.3
87.5°	22.5	19.8	11.7	11.7	9.0	8.1	6.3	7.2	9.0	10.8	10.8
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)