

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: P509919

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

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509919  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-4)  
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  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2200K, 1060mA LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19956 lumens  
Efficiency: N/A  
Efficacy: 115.5 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

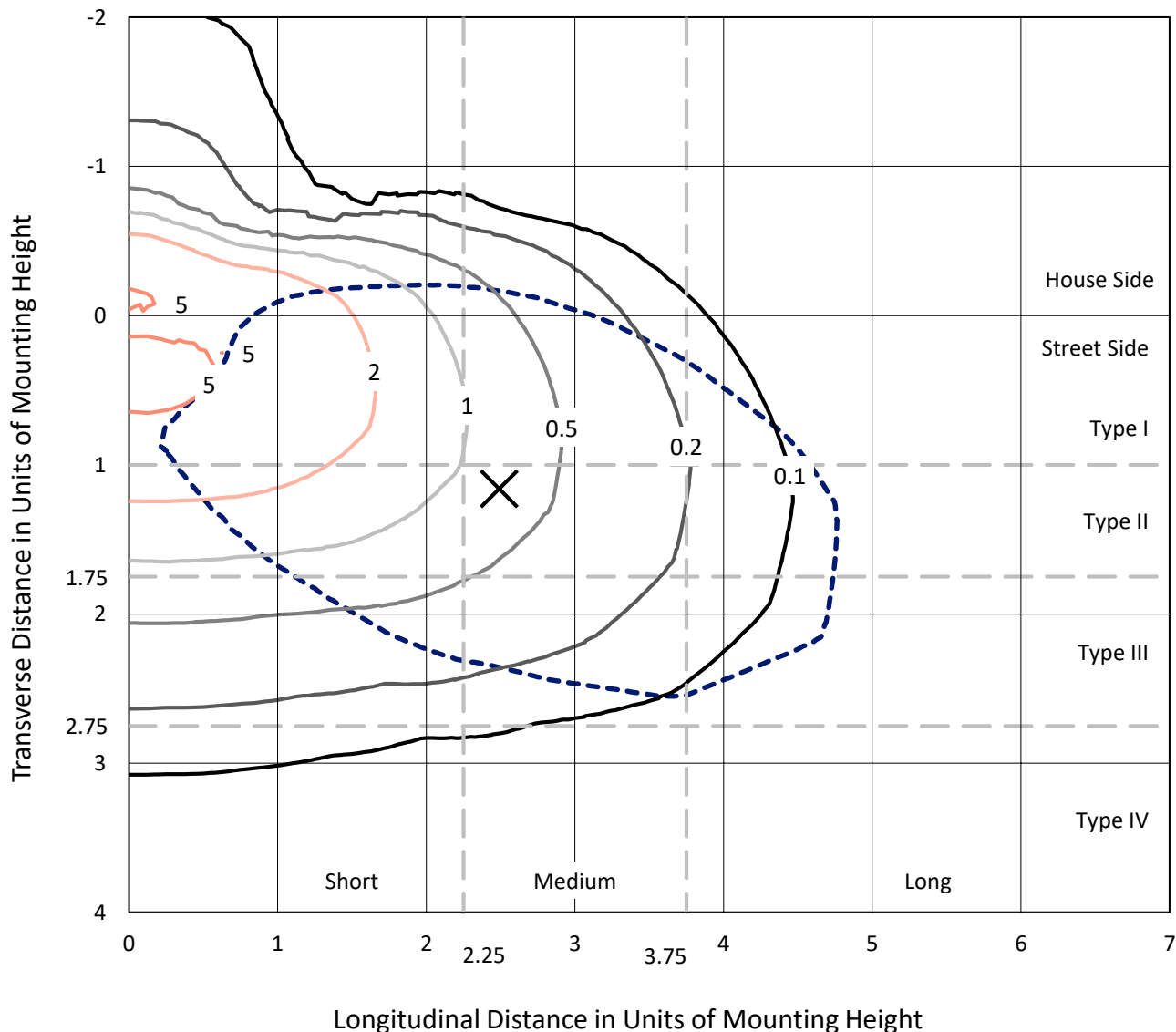
Input Watts (W): 172.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

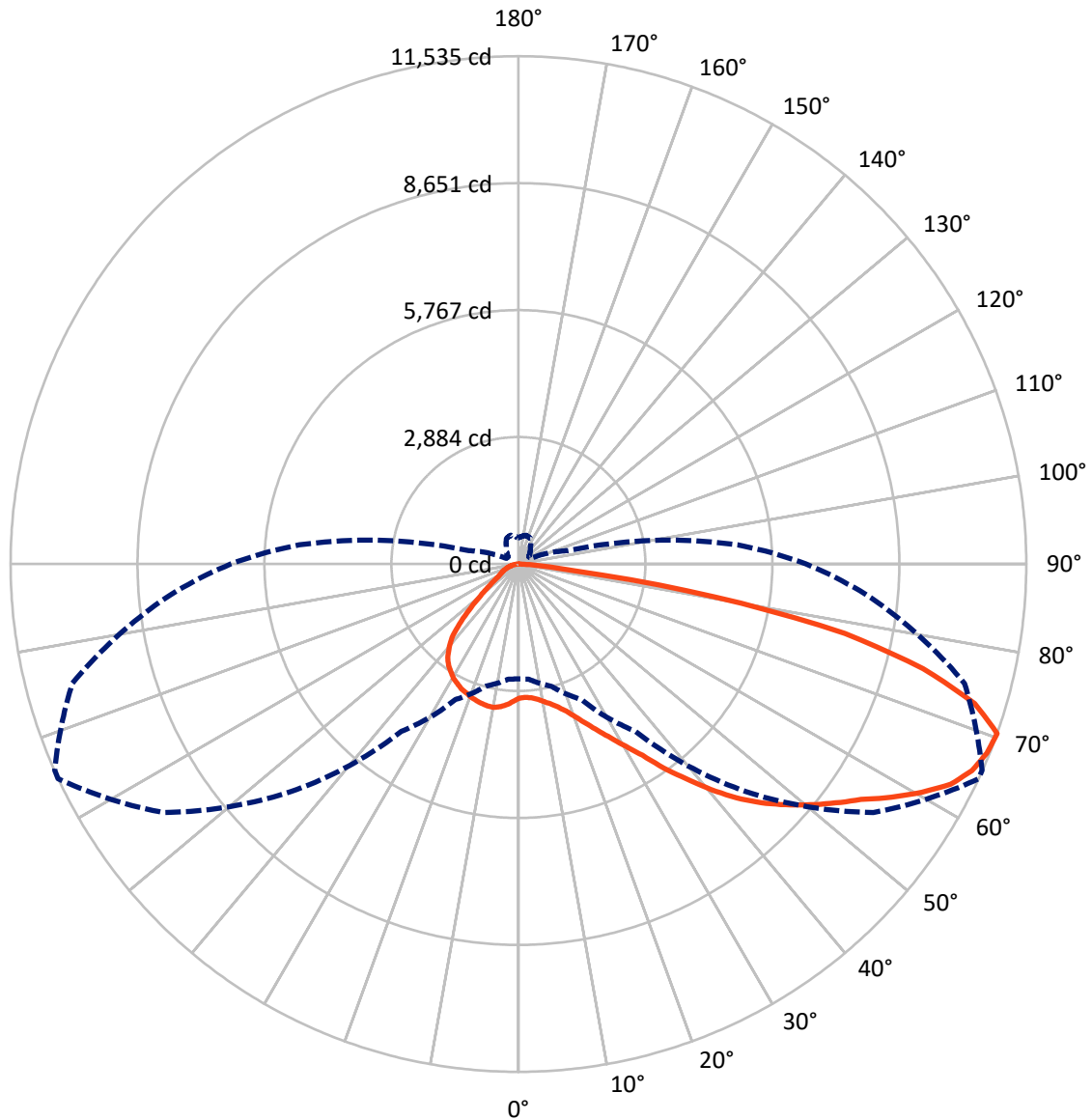
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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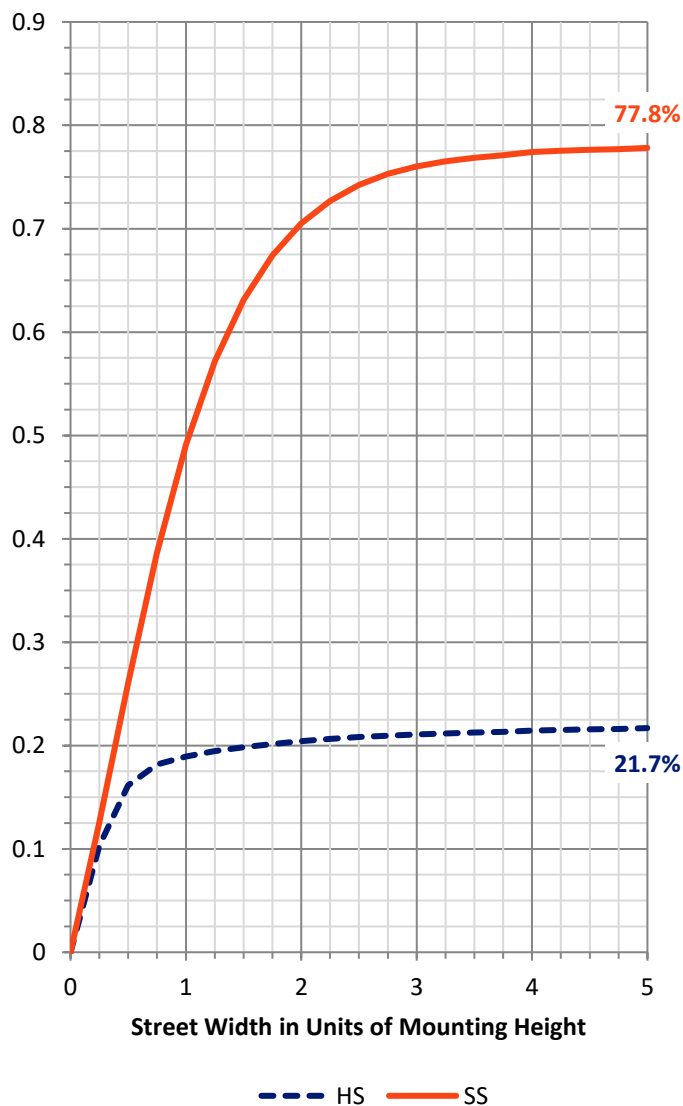
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4402.1	0.0	4402.1
	% Fixture	22.1	0.0	22.1
<b>Street Side</b>	Lumens	15553.9	0.0	15553.9
	% Fixture	77.9	0.0	77.9
<b>Total</b>	Lumens	19956.0	0.0	19956.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	305.6	1.5
10°-20°	966.0	4.8
20°-30°	1675.8	8.4
30°-40°	2436.5	12.2
40°-50°	3255.3	16.3
50°-60°	3965.2	19.9
60°-70°	4274.6	21.4
70°-80°	2771.4	13.9
80°-90°	305.7	1.5
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°	19956.0	100.0
0°-180°	19956.0	100.0

**Coefficient of Utilization**



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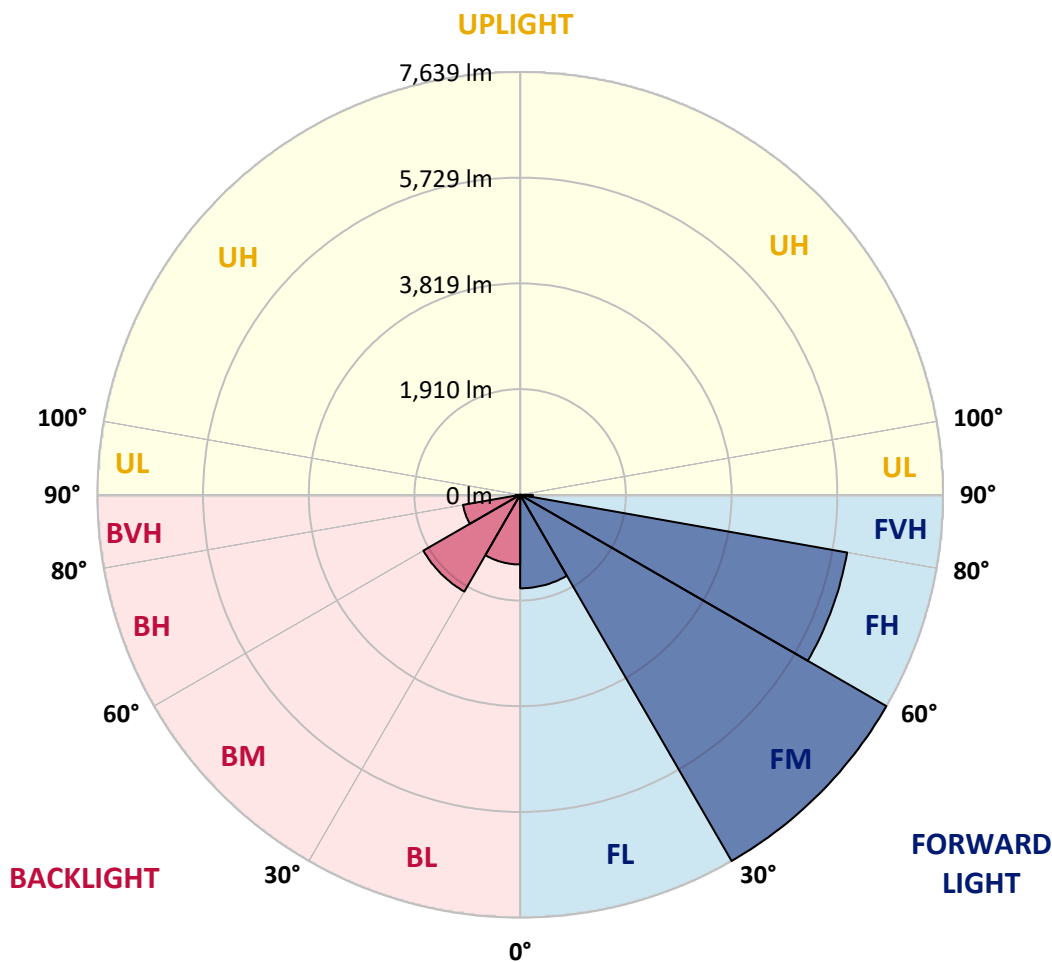
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1688.8	8.5			
FM	(30°-60°)	7638.8	38.3			
FH	(60°-80°)	5998.3	30.1			G3/7500
FVH	(80°-90°)	228.0	1.1			G3/500
BL	(0°-30°)	1258.6	6.3	B3/2500		
BM	(30°-60°)	2018.2	10.1	B2/2500		
BH	(60°-80°)	1047.6	5.2	B3/2500		G3/2500
BVH	(80°-90°)	77.7	0.4			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°	66°	75°	85°
0°	3046.7	3046.7	3046.7	3046.7	3046.7	3046.7	3046.7	3046.7	3046.7	3046.7	3046.7
2.5°	3001.7	3028.7	3014.3	3015.2	3035.9	3018.8	3030.5	3030.5	3029.6	3035.9	3054.8
5°	3075.5	3104.3	3087.2	3076.4	3080.9	3059.3	3054.8	3051.2	3048.5	3055.7	3087.2
7.5°	3183.5	3216.8	3197.9	3188.0	3182.6	3133.1	3124.1	3099.8	3097.1	3103.4	3132.2
10°	3326.5	3371.5	3349.0	3321.1	3302.3	3244.7	3198.8	3177.2	3170.9	3167.3	3197.0
12.5°	3532.6	3572.2	3546.1	3493.9	3468.7	3376.0	3321.1	3260.0	3259.1	3246.5	3269.0
15°	3727.9	3769.2	3736.0	3684.7	3651.4	3526.3	3445.3	3369.7	3360.7	3346.3	3353.5
17.5°	3916.8	3967.2	3943.8	3897.0	3856.5	3717.1	3610.9	3513.7	3503.8	3481.3	3448.0
20°	4151.7	4197.6	4191.3	4149.0	4104.0	3945.6	3829.5	3704.5	3693.7	3653.2	3578.5
22.5°	4386.5	4443.2	4408.1	4400.9	4375.7	4218.2	4056.3	3929.4	3918.6	3865.5	3728.8
25°	4607.9	4658.2	4670.8	4659.1	4661.8	4506.2	4345.1	4185.9	4175.1	4103.1	3905.1
27.5°	4869.7	4917.4	4921.0	4923.7	4955.2	4825.6	4636.7	4472.9	4465.7	4384.7	4133.7
30°	5070.4	5149.5	5165.7	5181.0	5197.2	5127.9	4956.1	4803.1	4788.7	4700.5	4391.0
32.5°	5253.9	5313.3	5370.9	5402.4	5475.3	5413.2	5271.9	5177.4	5178.3	5136.9	4801.3
35°	5396.1	5461.8	5534.6	5649.8	5756.0	5729.9	5685.8	5691.2	5692.1	5710.1	5354.7
37.5°	5531.9	5591.3	5683.1	5820.8	6007.9	6042.1	6071.8	6184.3	6223.9	6308.5	5865.8
40°	5613.8	5676.8	5795.6	5986.3	6229.3	6352.6	6442.5	6731.4	6799.8	6800.7	6260.8
42.5°	5494.2	5563.4	5775.8	6115.0	6429.0	6659.4	6896.0	7260.5	7309.9	7199.3	6598.2
45°	5387.1	5451.0	5679.5	6134.8	6585.6	6986.9	7316.2	7738.3	7774.2	7551.1	6909.5
47.5°	5283.6	5334.0	5598.5	6093.4	6745.8	7315.3	7674.4	8170.2	8196.2	7936.2	7213.7
50°	5140.5	5200.8	5481.6	6044.8	6842.1	7597.0	8025.3	8596.7	8593.1	8282.6	7489.0
52.5°	4984.0	5043.4	5344.8	5955.8	6905.0	7815.6	8424.8	9014.2	9016.9	8680.3	7761.6
55°	4786.9	4859.8	5177.4	5835.2	6920.3	7987.5	8771.2	9442.5	9486.6	9086.1	8024.4
57.5°	4551.2	4624.1	4971.4	5658.8	6829.5	8131.5	9141.0	9989.5	10012.9	9501.0	8220.5
60°	4276.7	4364.9	4696.9	5423.1	6655.8	8298.8	9589.1	10525.8	10533.9	9871.7	8384.3
62.5°	3959.1	4022.1	4371.2	5081.2	6378.7	8365.4	9959.8	11018.0	11019.8	10151.5	8458.1
65°	3615.4	3639.7	3932.1	4616.0	5974.6	8256.5	10102.0	11317.6	11309.5	10397.2	8421.2
67.5°	3206.0	3194.3	3506.5	4041.0	5463.6	7893.9	10032.7	11471.5	11495.8	10586.1	8302.4
70°	2606.7	2623.8	2872.2	3397.6	4638.5	7311.7	9842.0	11534.5	11528.2	10491.6	7920.0
72.5°	1978.7	2009.2	2189.2	2583.3	3600.1	6149.2	9025.0	10838.1	10850.6	9825.8	7231.7
75°	1223.7	1311.9	1464.0	1704.2	2255.8	4405.4	7681.6	9493.8	9557.6	8669.5	5954.9
77.5°	536.3	557.0	633.5	821.5	1179.6	2211.7	5678.6	7581.7	7770.6	7011.2	4295.6
80°	332.0	332.0	353.6	412.1	526.4	822.4	2275.6	4526.9	4335.2	4010.4	1895.0
82.5°	276.2	276.2	287.0	296.9	269.9	348.2	761.2	1268.7	1359.6	1100.5	582.2
85°	150.3	153.9	154.8	157.5	154.8	188.1	299.6	375.2	379.7	343.7	207.0
87.5°	54.9	58.5	56.7	53.1	47.7	45.0	57.6	58.5	60.3	55.8	30.6
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3046.7	3046.7	3046.7	3046.7	3046.7	3046.7	3046.7	3046.7	3046.7	3046.7	3046.7
2.5°	3067.4	3080.0	3113.3	3116.0	3128.6	3133.1	3143.9	3159.2	3186.2	3172.7	3157.4
5°	3102.5	3118.7	3171.8	3198.8	3233.9	3254.6	3288.8	3305.9	3347.2	3333.7	3331.9
7.5°	3155.6	3189.8	3237.5	3263.6	3309.5	3322.9	3348.1	3348.1	3382.3	3365.2	3360.7
10°	3227.6	3250.1	3300.5	3302.3	3328.3	3328.3	3358.0	3339.1	3372.4	3352.6	3351.7
12.5°	3285.2	3297.8	3316.7	3301.4	3314.9	3299.6	3314.9	3292.4	3313.1	3287.9	3282.5
15°	3349.9	3332.8	3314.0	3278.0	3266.3	3242.0	3229.4	3206.0	3207.8	3179.0	3174.5
17.5°	3422.8	3378.7	3323.8	3245.6	3202.4	3140.3	3114.2	3080.9	3062.0	3035.9	3047.6
20°	3511.0	3445.3	3331.0	3209.6	3117.8	3023.3	2962.1	2908.1	2903.6	2880.2	2867.7
22.5°	3625.3	3520.0	3362.5	3158.3	3010.7	2875.8	2784.9	2694.9	2685.9	2638.2	2620.2
25°	3766.5	3619.0	3378.7	3118.7	2885.6	2700.3	2557.2	2432.2	2371.9	2321.5	2309.8
27.5°	3956.4	3764.7	3411.1	3047.6	2738.1	2482.5	2277.4	2111.8	2039.8	2014.6	1988.6
30°	4178.7	3942.9	3471.4	2988.2	2563.5	2204.5	1954.4	1757.3	1679.0	1639.4	1626.8
32.5°	4506.2	4167.9	3527.2	2890.1	2352.1	1898.6	1572.8	1355.1	1307.4	1300.2	1317.3
35°	4983.1	4590.8	3608.2	2799.3	2103.7	1558.4	1198.5	1056.4	1046.5	1048.3	1048.3
37.5°	5479.8	4993.9	3848.4	2665.2	1799.6	1173.3	912.4	835.0	838.6	838.6	837.7
40°	5803.7	5317.8	4023.0	2475.3	1421.7	841.3	676.6	618.2	643.4	677.5	695.5
42.5°	6160.9	5612.0	4143.6	2256.7	988.9	594.8	492.2	512.9	586.7	638.9	646.1
45°	6465.0	5862.2	4157.1	1916.6	637.1	451.7	449.0	508.4	593.9	650.6	655.1
47.5°	6726.0	6089.8	4072.5	1527.9	464.3	422.0	449.0	523.7	601.1	636.2	639.8
50°	6978.8	6270.7	3873.6	1174.2	422.9	411.2	454.4	526.4	575.0	599.3	595.7
52.5°	7203.8	6435.3	3585.7	916.0	406.7	404.0	458.9	523.7	554.3	552.5	549.8
55°	7374.7	6483.9	3360.7	714.4	393.2	399.5	461.6	526.4	548.9	532.7	529.1
57.5°	7462.9	6423.6	3171.8	567.8	378.8	395.0	468.8	525.5	565.1	595.7	593.9
60°	7461.1	6355.3	2938.7	489.5	364.4	391.4	480.5	570.5	713.5	742.3	743.2
62.5°	7432.3	6238.3	2619.3	442.7	348.2	393.2	488.6	647.9	812.5	789.1	770.2
65°	7336.9	6018.7	2191.0	392.3	327.5	395.0	485.0	700.9	745.0	661.4	649.7
67.5°	7071.5	5594.0	1720.4	350.9	308.6	385.1	491.3	651.5	684.7	631.7	614.6
70°	6532.5	4995.7	1166.1	302.3	287.0	370.7	476.9	640.7	675.7	621.8	596.6
72.5°	5678.6	4009.5	682.0	260.0	255.5	341.0	469.7	647.9	686.5	626.3	593.9
75°	4419.8	2811.0	394.1	210.6	213.3	314.9	431.0	611.0	680.2	633.5	591.2
77.5°	2853.3	1365.0	278.0	168.3	166.5	248.3	350.0	534.5	655.1	639.8	604.7
80°	1021.3	498.5	195.3	125.1	121.5	168.3	269.0	430.1	554.3	574.1	574.1
82.5°	367.1	250.1	125.1	76.5	75.6	107.1	200.7	326.6	402.2	453.5	466.1
85°	153.9	108.9	61.2	38.7	31.5	41.4	103.5	202.5	272.6	293.3	319.4
87.5°	22.5	19.8	16.2	12.6	10.8	10.8	13.5	58.5	97.2	139.5	172.8
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)