

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: P553611

Luminaire Tested: **VERD-G-CA2-160-730-U-T3**

Issue Date: 7/12/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P553611  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/12/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-G-CA2-160-730-U-T3  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 1460mA LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22305 lumens  
Efficiency: N/A  
Efficacy: 137.2 lumens/watt  
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

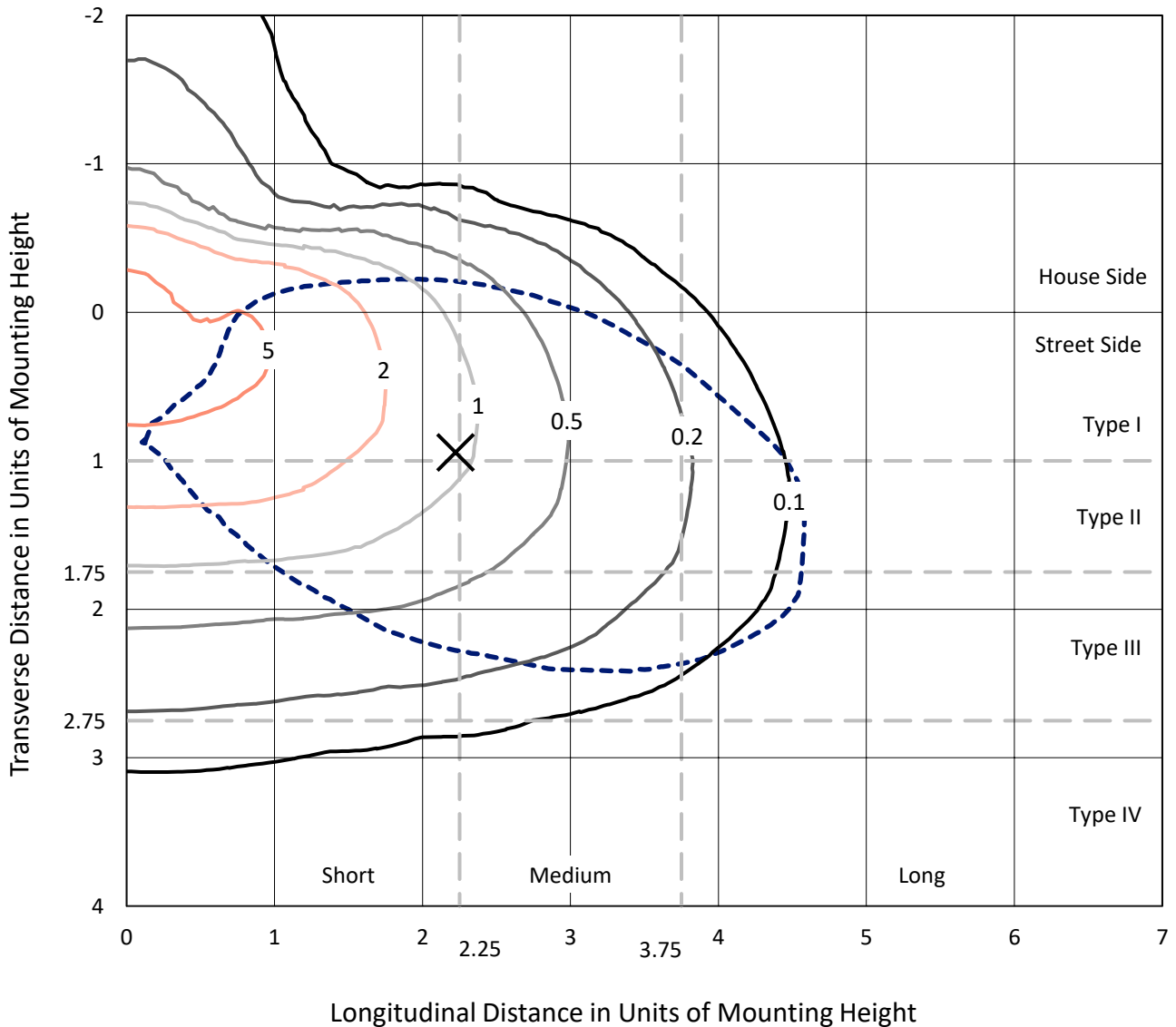
Input Watts (W): 162.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

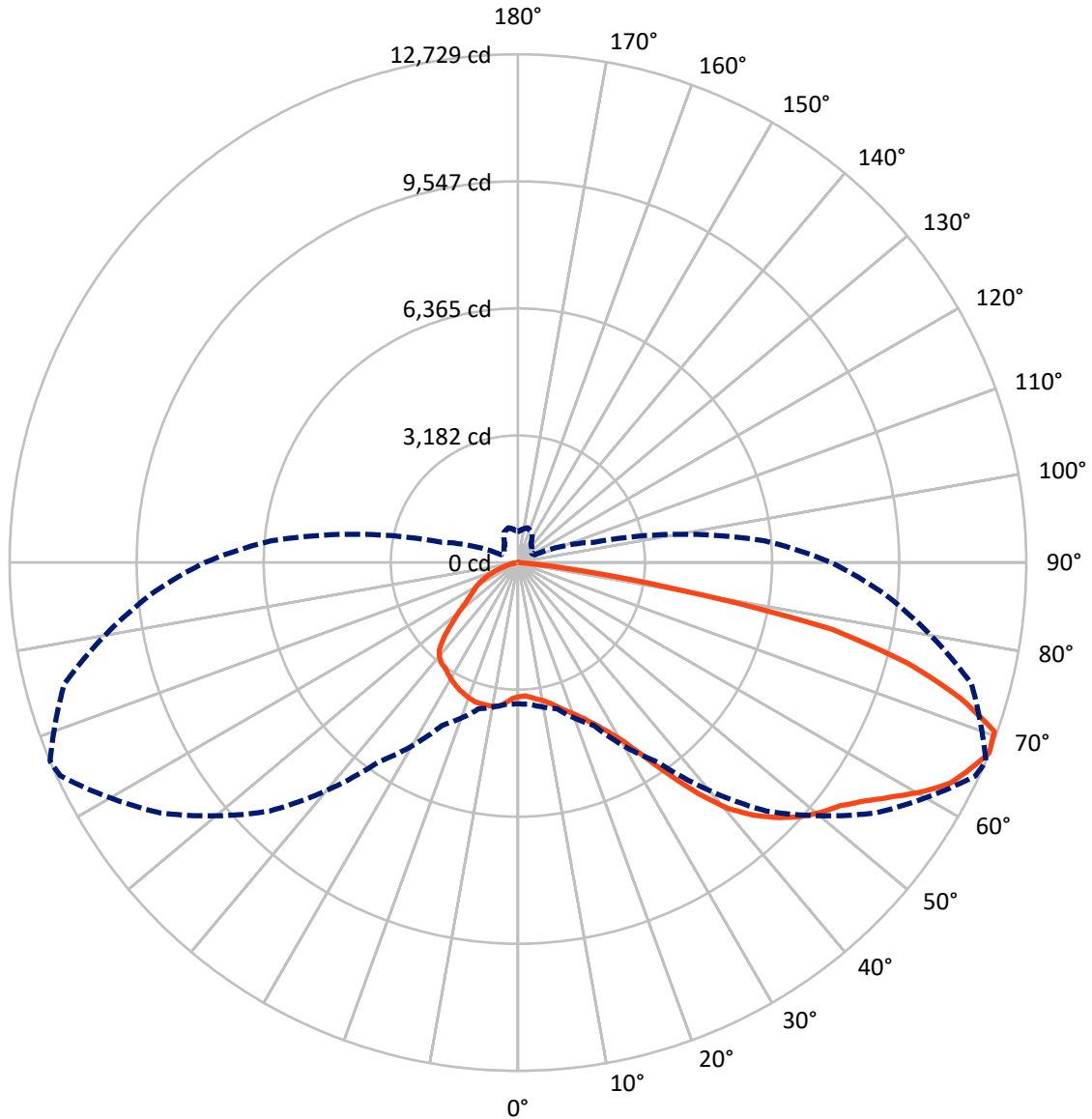
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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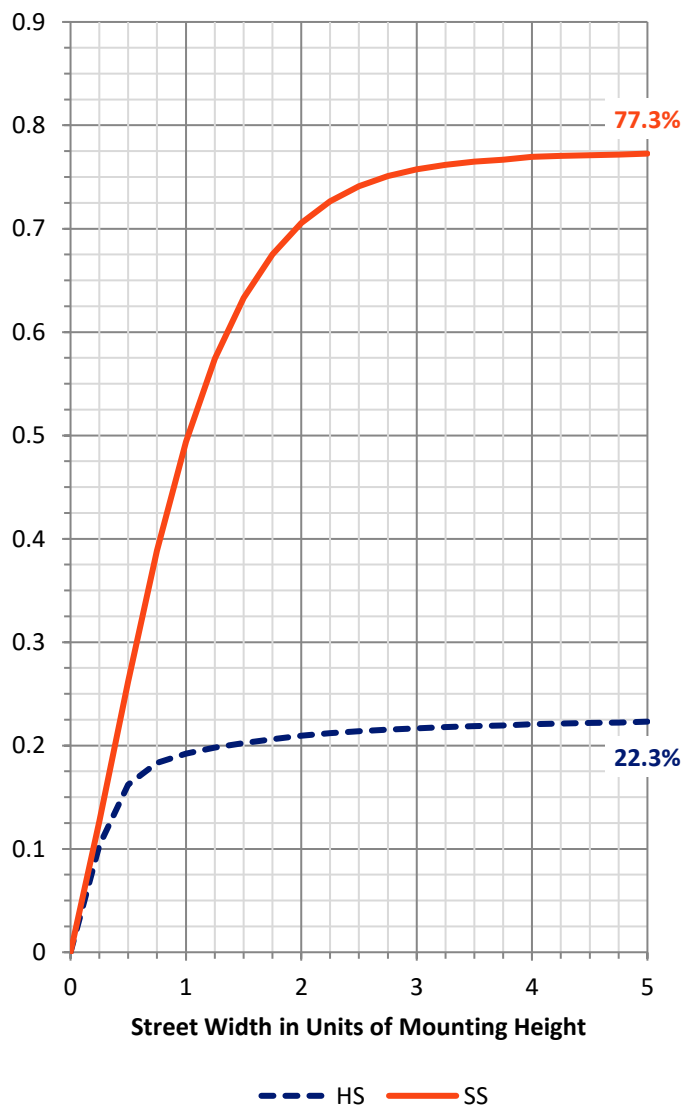
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5061.1	0.0	5061.1
	% Fixture	22.7	0.0	22.7
<b>Street Side</b>	Lumens	17243.9	0.0	17243.9
	% Fixture	77.3	0.0	77.3
<b>Total</b>	Lumens	22305.0	0.0	22305.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	340.6	1.5
10°-20°	1078.1	4.8
20°-30°	1849.1	8.3
30°-40°	2751.9	12.3
40°-50°	3762.4	16.9
50°-60°	4519.3	20.3
60°-70°	4794.4	21.5
70°-80°	2928.8	13.1
80°-90°	280.5	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°	22305.0	100.0
0°-180°	22305.0	100.0

**Coefficient of Utilization**



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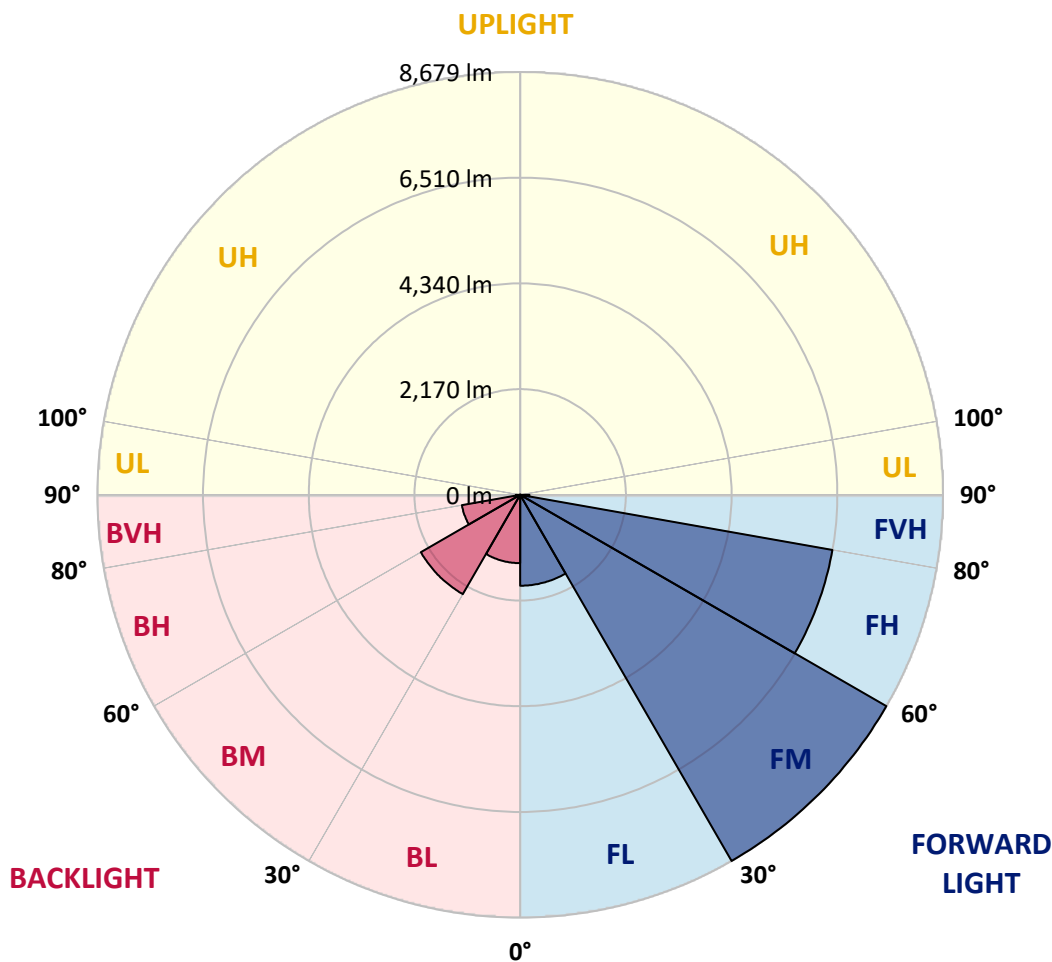
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1865.6	8.4			
FM (30°-60°)	8679.3	38.9			
FH (60°-80°)	6508.0	29.2			G3/7500
FVH (80°-90°)	191.0	0.9			G2/225
BL (0°-30°)	1402.2	6.3	B3/2500		
BM (30°-60°)	2354.2	10.6	B2/2500		
BH (60°-80°)	1215.2	5.4	B3/2500		G3/2500
BVH (80°-90°)	89.5	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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3363.0	3363.0	3363.0	3363.0	3363.0	3363.0	3363.0	3363.0	3363.0	3363.0	3363.0
2.5°	3416.2	3432.4	3405.8	3388.1	3368.9	3379.2	3354.1	3354.1	3342.3	3361.5	3349.7
5°	3527.0	3541.8	3496.0	3459.0	3456.1	3425.0	3422.1	3407.3	3389.6	3405.8	3422.1
7.5°	3674.8	3668.8	3636.3	3593.5	3550.6	3532.9	3503.4	3481.2	3454.6	3469.4	3473.8
10°	3855.0	3844.7	3801.8	3733.9	3699.9	3651.1	3577.2	3535.9	3516.7	3531.4	3535.9
12.5°	4047.1	4033.8	3992.4	3917.1	3858.0	3781.1	3696.9	3630.4	3617.1	3602.4	3627.5
15°	4262.8	4239.2	4203.7	4143.2	4051.5	3951.1	3835.8	3772.3	3753.1	3727.9	3716.1
17.5°	4496.3	4493.3	4447.5	4381.0	4288.0	4149.1	4001.3	3902.3	3902.3	3892.0	3828.4
20°	4747.5	4735.7	4689.9	4652.9	4521.4	4375.1	4194.9	4069.3	4056.0	4035.3	3930.4
22.5°	5000.2	5001.6	4942.5	4914.5	4816.9	4629.3	4401.7	4276.1	4249.5	4221.5	4039.7
25°	5229.2	5232.1	5214.4	5162.7	5082.9	4910.0	4672.1	4505.2	4490.4	4452.0	4231.8
27.5°	5461.2	5498.1	5446.4	5452.3	5416.8	5218.8	4980.9	4778.5	4793.3	4709.1	4407.6
30°	5736.0	5749.3	5724.2	5731.6	5709.4	5579.4	5348.9	5184.8	5184.8	5088.8	4706.1
32.5°	5956.1	5944.3	5945.8	6022.6	6033.0	5962.1	5772.9	5719.7	5765.5	5753.7	5409.4
35°	6065.5	6086.2	6143.8	6319.6	6405.3	6362.5	6340.3	6411.2	6526.5	6600.4	6177.8
37.5°	6205.9	6269.4	6341.8	6538.3	6696.4	6814.6	6935.8	7169.2	7334.7	7430.8	6907.7
40°	6350.7	6356.6	6501.4	6745.2	7054.0	7241.6	7529.8	7931.7	8094.2	8021.8	7312.6
42.5°	6238.4	6253.1	6454.1	6888.5	7275.6	7755.8	8067.6	8531.6	8643.9	8423.7	7730.7
45°	6093.6	6121.6	6375.8	6888.5	7519.4	8227.2	8583.3	9100.5	9113.8	8816.8	7983.4
47.5°	5965.0	5988.7	6256.1	6835.3	7748.5	8640.9	8998.5	9419.6	9509.7	9137.4	8318.8
50°	5793.6	5852.7	6115.7	6788.0	7854.8	8929.1	9366.4	9803.8	9834.8	9440.3	8570.0
52.5°	5607.4	5659.2	5982.7	6699.4	7990.8	9166.9	9610.2	10173.2	10115.6	9845.2	8852.2
55°	5356.2	5402.1	5775.9	6557.5	8007.0	9295.5	9786.1	10516.0	10538.1	10182.0	9125.6
57.5°	5068.1	5145.0	5484.8	6294.5	7857.8	9333.9	10089.0	10979.9	11065.6	10598.7	9344.3
60°	4756.3	4816.9	5202.6	6015.3	7659.8	9478.7	10504.2	11581.3	11649.3	10962.2	9432.9
62.5°	4437.2	4487.4	4806.6	5595.6	7296.3	9506.8	10866.2	12185.7	12163.5	11285.8	9555.5
65°	4039.7	4044.2	4345.6	5088.8	6791.0	9305.8	11052.3	12430.9	12453.1	11579.8	9415.2
67.5°	3534.4	3562.5	3791.5	4497.8	6102.4	8800.5	10934.1	12642.2	12729.4	11761.6	9236.4
70°	2814.8	2831.1	3070.4	3727.9	5187.8	8018.9	10709.5	12674.7	12655.5	11526.6	8744.4
72.5°	2002.1	2064.2	2225.2	2621.2	3980.6	6563.4	9694.4	11671.5	11582.8	10619.4	7800.2
75°	1287.0	1292.9	1453.9	1712.5	2330.2	4652.9	8080.9	10060.9	10097.8	9211.3	6350.7
77.5°	425.5	480.2	533.4	722.5	966.3	1937.1	5455.2	7930.2	8042.5	7256.4	4333.8
80°	187.7	187.7	317.7	409.3	521.6	830.4	2176.5	3589.1	3933.3	3383.7	1669.7
82.5°	137.4	140.4	212.8	243.8	205.4	345.8	781.6	1149.6	1219.0	1094.9	663.4
85°	78.3	81.3	91.6	104.9	87.2	140.4	172.9	177.3	178.8	155.1	121.2
87.5°	35.5	35.5	32.5	28.1	16.3	10.3	10.3	7.4	8.9	7.4	5.9
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3363.0	3363.0	3363.0	3363.0	3363.0	3363.0	3363.0	3363.0	3363.0	3363.0	3363.0
2.5°	3345.3	3360.0	3392.5	3398.4	3413.2	3435.4	3463.5	3476.8	3521.1	3541.8	3547.7
5°	3425.0	3432.4	3488.6	3507.8	3574.3	3608.3	3637.8	3658.5	3713.2	3726.5	3750.1
7.5°	3485.6	3510.7	3578.7	3621.6	3662.9	3698.4	3695.4	3744.2	3772.3	3794.4	3803.3
10°	3547.7	3561.0	3630.4	3649.6	3680.7	3707.3	3714.7	3727.9	3735.3	3766.4	3776.7
12.5°	3643.7	3634.9	3643.7	3660.0	3685.1	3679.2	3695.4	3676.2	3686.6	3726.5	3711.7
15°	3714.7	3694.0	3655.5	3657.0	3640.8	3633.4	3609.7	3593.5	3592.0	3600.9	3615.7
17.5°	3794.4	3733.9	3662.9	3643.7	3583.1	3524.0	3482.7	3438.3	3431.0	3439.8	3429.5
20°	3863.9	3782.6	3660.0	3599.4	3481.2	3374.8	3314.2	3247.7	3244.8	3238.9	3227.0
22.5°	3948.1	3846.2	3658.5	3535.9	3395.5	3224.1	3098.5	3048.3	2987.7	3011.3	3008.4
25°	4073.7	3946.6	3671.8	3467.9	3240.3	3036.4	2875.4	2764.6	2704.0	2690.7	2696.6
27.5°	4228.9	4060.4	3679.2	3382.2	3098.5	2807.4	2551.8	2384.8	2347.9	2299.1	2303.6
30°	4454.9	4215.6	3714.7	3287.6	2890.2	2514.9	2210.5	1993.3	1931.2	1941.5	1944.5
32.5°	4988.3	4534.7	3739.8	3178.3	2661.1	2191.3	1793.8	1576.6	1527.8	1545.6	1555.9
35°	5688.7	5146.4	3877.2	3037.9	2401.1	1813.0	1375.6	1253.0	1263.3	1297.3	1306.2
37.5°	6383.2	5795.1	4180.1	2915.3	2068.6	1387.5	1097.8	1025.4	1086.0	1118.5	1128.9
40°	6810.2	6226.5	4514.0	2726.1	1646.0	1019.5	836.3	794.9	864.4	939.7	976.7
42.5°	7241.6	6579.7	4731.2	2495.6	1177.6	741.7	622.1	656.0	769.8	845.2	862.9
45°	7516.5	6761.4	4751.9	2129.2	784.6	574.8	567.4	639.8	756.5	817.1	827.4
47.5°	7783.9	7005.2	4664.7	1705.1	591.0	546.7	563.0	647.2	762.4	830.4	828.9
50°	8049.9	7244.6	4475.6	1353.5	558.5	529.0	571.8	662.0	772.8	824.5	824.5
52.5°	8212.4	7362.8	4095.9	1077.2	537.8	518.6	576.3	667.9	762.4	792.0	787.6
55°	8407.5	7390.9	3840.2	896.9	515.7	511.2	585.1	684.1	761.0	763.9	753.6
57.5°	8509.4	7321.4	3631.9	762.4	496.5	514.2	595.5	688.6	803.8	839.3	845.2
60°	8465.1	7237.2	3395.5	678.2	478.7	509.8	592.5	722.5	936.8	1010.7	997.4
62.5°	8422.2	7079.1	2998.0	608.8	459.5	512.7	589.6	800.9	1100.8	1024.0	982.6
65°	8267.1	6751.1	2480.9	542.3	435.9	514.2	583.6	885.1	1127.4	1034.3	963.4
67.5°	7841.5	6204.4	1962.2	471.3	407.8	493.5	570.3	831.9	902.8	812.7	774.3
70°	7207.7	5412.4	1346.1	407.8	373.8	468.4	561.5	787.6	848.1	784.6	735.8
72.5°	6185.2	4252.5	746.2	341.3	328.0	437.4	560.0	777.2	854.0	672.3	619.1
75°	4703.2	2820.7	484.6	267.4	268.9	390.1	533.4	741.7	827.4	632.4	560.0
77.5°	2770.5	1188.0	338.4	190.6	209.8	302.9	474.3	710.7	783.1	619.1	560.0
80°	941.2	523.1	220.2	128.5	128.5	193.6	338.4	580.7	697.4	602.9	596.9
82.5°	489.1	332.5	140.4	79.8	73.9	93.1	208.3	398.9	560.0	511.2	582.2
85°	97.5	69.4	44.3	32.5	35.5	47.3	73.9	202.4	354.6	394.5	472.8
87.5°	7.4	5.9	8.9	8.9	8.9	8.9	10.3	50.2	141.8	174.4	215.7
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)