

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: P510207

Luminaire Tested: **VERD-M-CA4-230-722-U-T3**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510207  
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-CA4-230-722-U-T3  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 2200K, 1050mA LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26469 lumens  
Efficiency: N/A  
Efficacy: 113.5 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

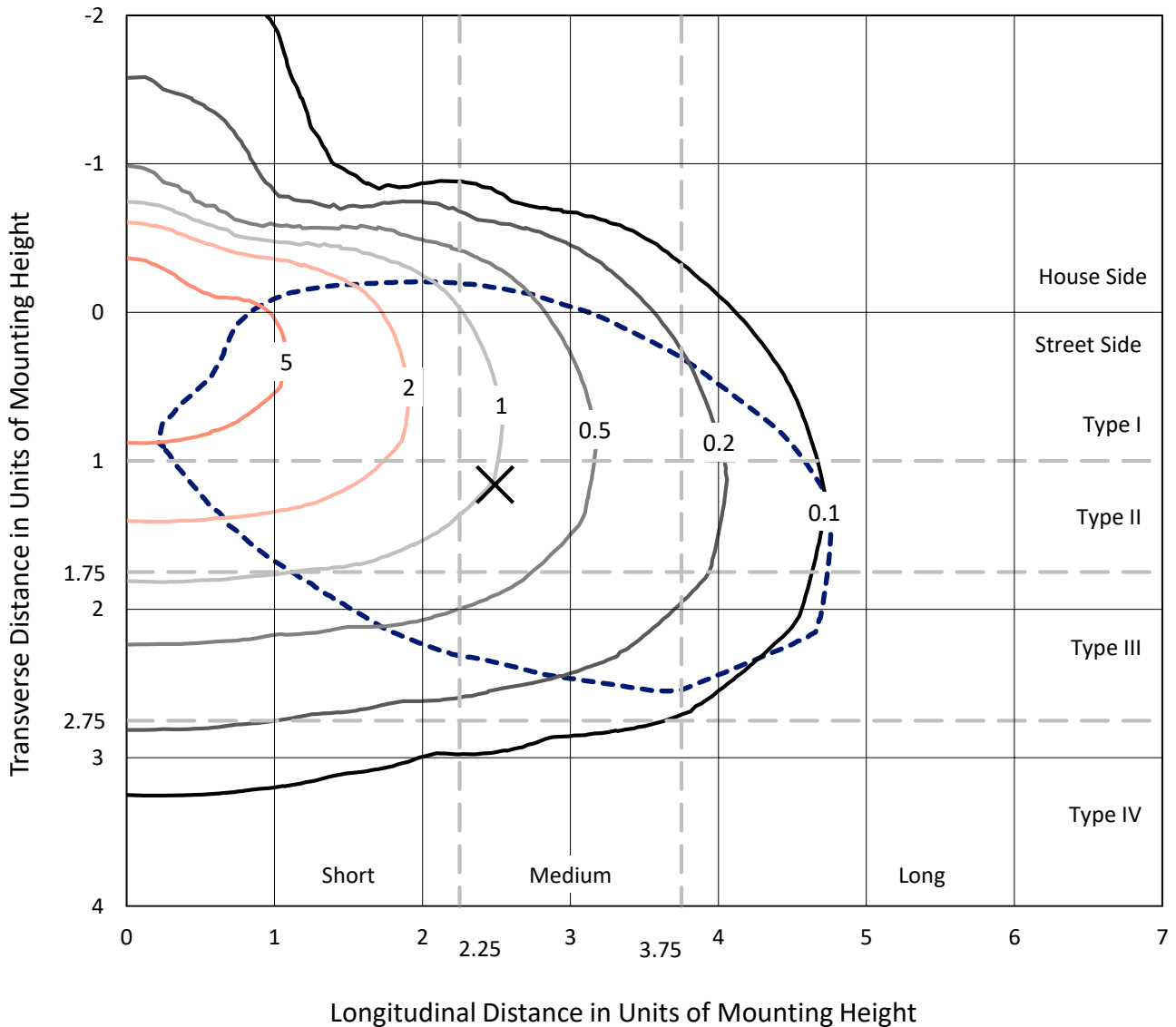
Input Watts (W): 233.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

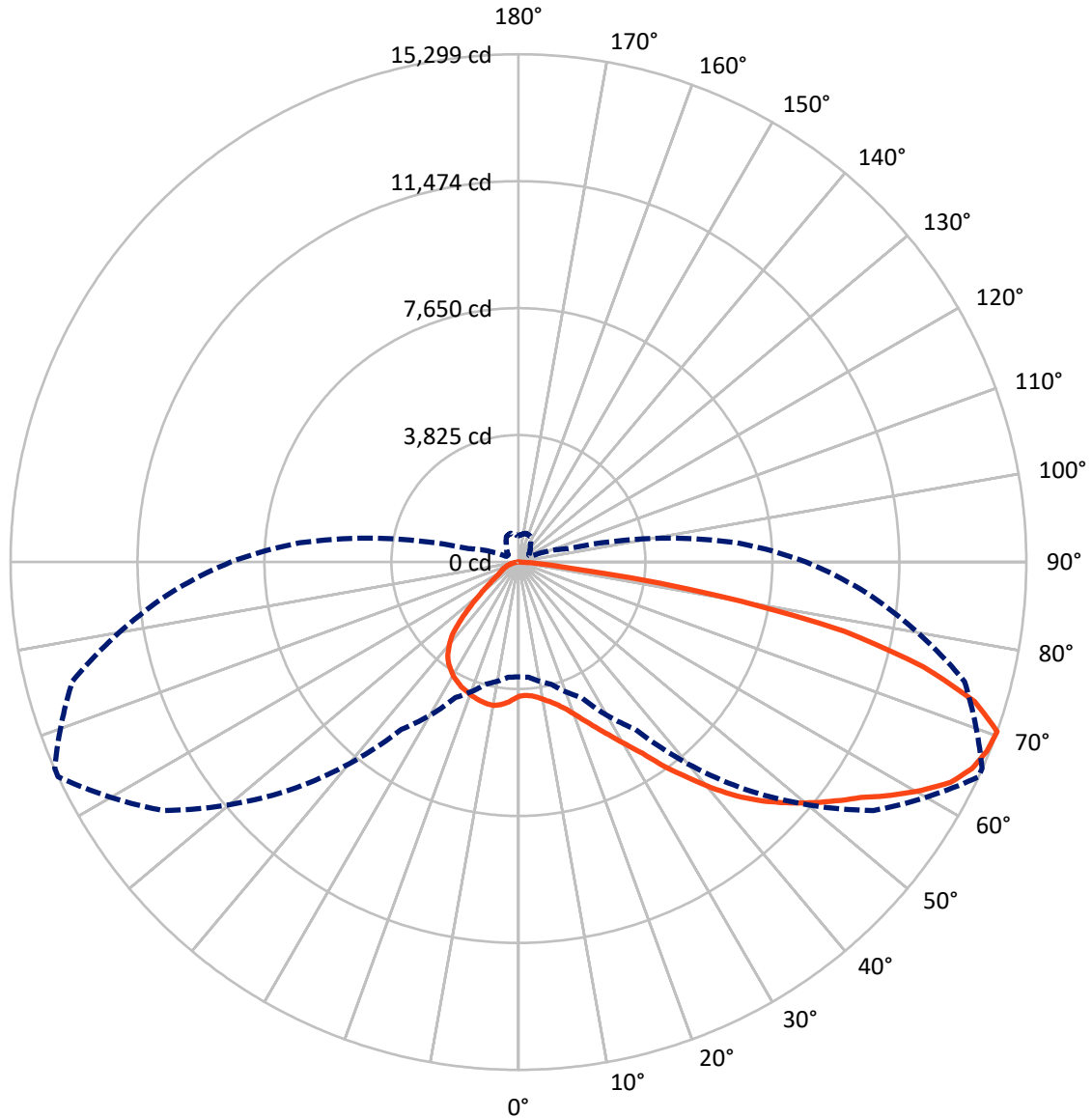
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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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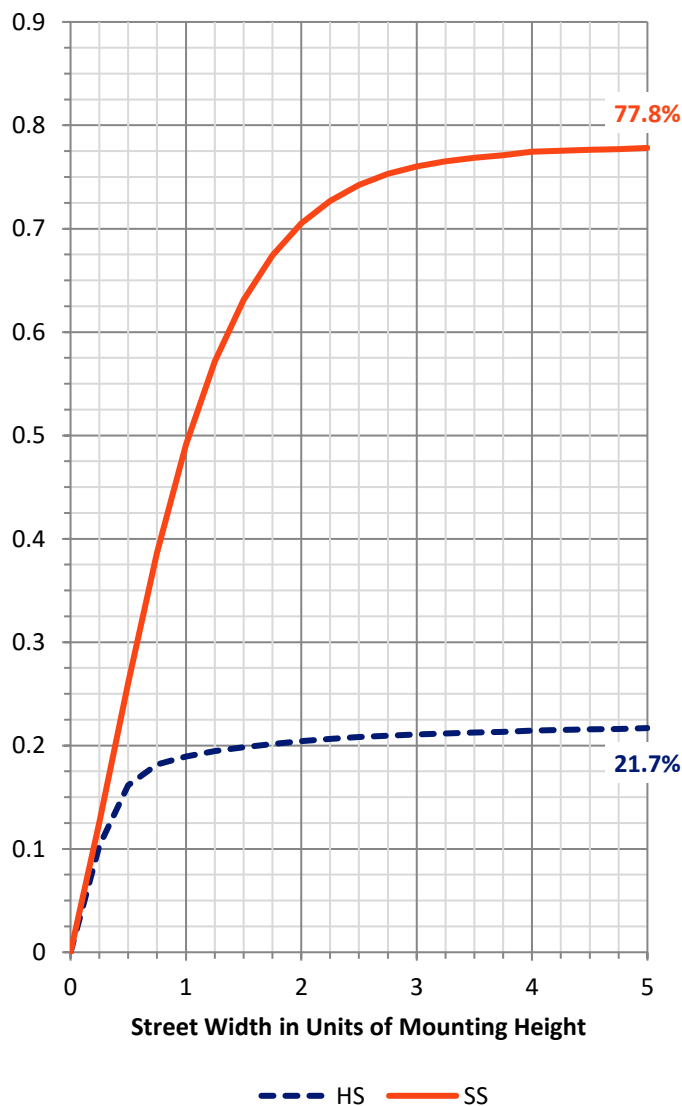
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5838.8	0.0	5838.8
	% Fixture	22.1	0.0	22.1
<b>Street Side</b>	Lumens	20630.2	0.0	20630.2
	% Fixture	77.9	0.0	77.9
<b>Total</b>	Lumens	26469.0	0.0	26469.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	405.4	1.5
10°-20°	1281.2	4.8
20°-30°	2222.7	8.4
30°-40°	3231.8	12.2
40°-50°	4317.7	16.3
50°-60°	5259.3	19.9
60°-70°	5669.7	21.4
70°-80°	3675.8	13.9
80°-90°	405.4	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°	26469.0	100.0
0°-180°	26469.0	100.0

**Coefficient of Utilization**



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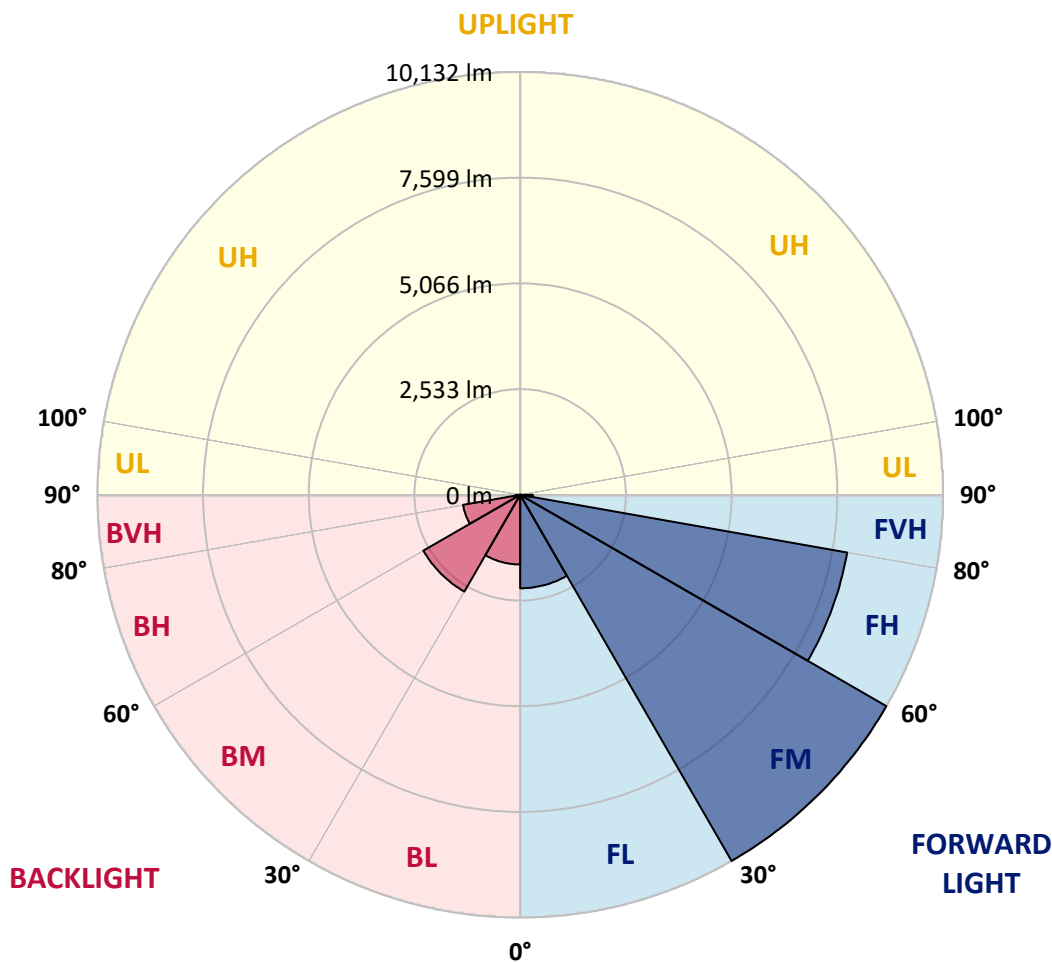
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2240.0	8.5			
FM (30°-60°)	10131.9	38.3			
FH (60°-80°)	7955.9	30.1			G4/12000
FVH (80°-90°)	302.4	1.1			G3/500
BL (0°-30°)	1669.3	6.3	B3/2500		
BM (30°-60°)	2676.9	10.1	B3/5000		
BH (60°-80°)	1389.6	5.2	B3/2500		G3/2500
BVH (80°-90°)	103.0	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4041.1	4041.1	4041.1	4041.1	4041.1	4041.1	4041.1	4041.1	4041.1	4041.1	4041.1
2.5°	3981.4	4017.2	3998.1	3999.3	4026.7	4004.1	4019.6	4019.6	4018.4	4026.7	4051.8
5°	4079.3	4117.4	4094.8	4080.4	4086.4	4057.8	4051.8	4047.0	4043.4	4053.0	4094.8
7.5°	4222.5	4266.6	4241.6	4228.4	4221.3	4155.6	4143.7	4111.5	4107.9	4116.2	4154.4
10°	4412.2	4471.9	4442.1	4405.1	4380.0	4303.6	4242.8	4214.1	4205.8	4201.0	4240.4
12.5°	4685.5	4738.0	4703.4	4634.2	4600.8	4477.9	4405.1	4323.9	4322.7	4306.0	4335.8
15°	4944.5	4999.4	4955.3	4887.2	4843.1	4677.2	4569.8	4469.5	4457.6	4438.5	4448.0
17.5°	5195.1	5262.0	5230.9	5168.9	5115.2	4930.2	4789.4	4660.5	4647.3	4617.5	4573.3
20°	5506.6	5567.5	5559.1	5503.1	5443.4	5233.3	5079.4	4913.5	4899.2	4845.5	4746.4
22.5°	5818.1	5893.3	5846.8	5837.2	5803.8	5594.9	5380.1	5211.8	5197.5	5127.1	4945.7
25°	6111.7	6178.5	6195.3	6179.7	6183.3	5976.9	5763.2	5552.0	5537.7	5442.2	5179.6
27.5°	6459.0	6522.3	6527.0	6530.6	6572.4	6400.5	6149.9	5932.7	5923.1	5815.7	5482.8
30°	6725.2	6830.2	6851.7	6872.0	6893.4	6801.5	6573.6	6370.7	6351.6	6234.6	5824.1
32.5°	6968.6	7047.4	7123.8	7165.5	7262.2	7179.9	6992.5	6867.2	6868.4	6813.5	6368.3
35°	7157.2	7244.3	7341.0	7493.7	7634.6	7600.0	7541.5	7548.6	7549.8	7573.7	7102.3
37.5°	7337.4	7416.2	7537.9	7720.5	7968.7	8014.1	8053.5	8202.7	8255.2	8367.4	7780.2
40°	7446.0	7529.5	7687.1	7940.1	8262.3	8425.8	8545.2	8928.3	9019.0	9020.2	8304.1
42.5°	7287.3	7379.2	7660.8	8110.8	8527.3	8832.8	9146.7	9630.0	9695.7	9548.9	8751.7
45°	7145.3	7230.0	7533.1	8137.0	8734.9	9267.2	9704.0	10263.8	10311.5	10015.5	9164.6
47.5°	7008.0	7074.8	7425.7	8082.1	8947.4	9702.8	10179.0	10836.6	10871.2	10526.3	9568.0
50°	6818.2	6898.2	7270.6	8017.7	9075.1	10076.4	10644.5	11402.3	11397.6	10985.8	9933.2
52.5°	6610.6	6689.4	7089.2	7899.5	9158.6	10366.4	11174.4	11956.1	11959.7	11513.3	10294.8
55°	6349.2	6445.9	6867.2	7739.6	9178.9	10594.4	11633.9	12524.2	12582.7	12051.6	10643.3
57.5°	6036.5	6133.2	6593.9	7505.7	9058.4	10785.3	12124.4	13249.8	13280.8	12601.8	10903.5
60°	5672.5	5789.5	6229.9	7193.0	8828.0	11007.3	12718.7	13961.1	13971.9	13093.5	11120.7
62.5°	5251.2	5334.8	5797.8	6739.5	8460.4	11095.6	13210.4	14613.9	14616.3	13464.6	11218.5
65°	4795.3	4827.6	5215.4	6122.5	7924.6	10951.2	13399.0	15011.4	15000.6	13790.4	11169.6
67.5°	4252.3	4236.8	4650.9	5359.8	7246.7	10470.2	13307.1	15215.4	15247.7	14041.1	11012.1
70°	3457.5	3480.1	3809.5	4506.5	6152.3	9698.1	13054.1	15299.0	15290.6	13915.8	10504.8
72.5°	2624.4	2665.0	2903.7	3426.4	4775.0	8156.1	11970.4	14375.2	14392.0	13032.6	9591.8
75°	1623.1	1740.1	1941.8	2260.4	2992.0	5843.2	10188.6	12592.2	12676.9	11499.0	7898.3
77.5°	711.3	738.8	840.2	1089.6	1564.6	2933.5	7531.9	10056.1	10306.7	9299.5	5697.6
80°	440.4	440.4	469.0	546.6	698.2	1090.8	3018.3	6004.3	5750.1	5319.3	2513.4
82.5°	366.4	366.4	380.7	393.8	358.0	461.9	1009.7	1682.8	1803.3	1459.6	772.2
85°	199.3	204.1	205.3	208.9	205.3	249.4	397.4	497.7	503.6	455.9	274.5
87.5°	72.8	77.6	75.2	70.4	63.3	59.7	76.4	77.6	80.0	74.0	40.6
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°	4041.1	4041.1	4041.1	4041.1	4041.1	4041.1	4041.1	4041.1	4041.1	4041.1	4041.1
2.5°	4068.5	4085.2	4129.4	4133.0	4149.7	4155.6	4170.0	4190.2	4226.0	4208.1	4187.9
5°	4115.1	4136.5	4207.0	4242.8	4289.3	4316.8	4362.1	4384.8	4439.7	4421.8	4419.4
7.5°	4185.5	4230.8	4294.1	4328.7	4389.6	4407.5	4440.9	4440.9	4486.2	4463.5	4457.6
10°	4280.9	4310.8	4377.6	4380.0	4414.6	4414.6	4454.0	4428.9	4473.1	4446.8	4445.6
12.5°	4357.3	4374.0	4399.1	4378.8	4396.7	4376.4	4396.7	4366.9	4394.3	4360.9	4353.7
15°	4443.3	4420.6	4395.5	4347.8	4332.3	4300.0	4283.3	4252.3	4254.7	4216.5	4210.5
17.5°	4539.9	4481.4	4408.6	4304.8	4247.5	4165.2	4130.6	4086.4	4061.3	4026.7	4042.3
20°	4656.9	4569.8	4418.2	4257.1	4135.3	4010.0	3928.9	3857.3	3851.3	3820.3	3803.6
22.5°	4808.5	4668.8	4460.0	4189.0	3993.3	3814.3	3693.8	3574.4	3562.5	3499.2	3475.4
25°	4995.8	4800.1	4481.4	4136.5	3827.4	3581.6	3391.8	3225.9	3146.0	3079.1	3063.6
27.5°	5247.7	4993.4	4524.4	4042.3	3631.7	3292.8	3020.7	2801.1	2705.6	2672.2	2637.5
30°	5542.4	5229.7	4604.4	3963.5	3400.2	2924.0	2592.2	2330.8	2227.0	2174.5	2157.8
32.5°	5976.9	5528.1	4678.4	3833.4	3119.7	2518.2	2086.2	1797.4	1734.1	1724.6	1747.2
35°	6609.4	6089.0	4785.8	3712.9	2790.3	2067.1	1589.7	1401.1	1388.0	1390.4	1390.4
37.5°	7268.2	6623.7	5104.4	3535.0	2386.9	1556.3	1210.2	1107.5	1112.3	1112.3	1111.1
40°	7697.8	7053.4	5336.0	3283.2	1885.7	1115.9	897.5	819.9	853.3	898.7	922.5
42.5°	8171.6	7443.6	5495.9	2993.2	1311.6	788.9	652.8	680.3	778.1	847.4	856.9
45°	8575.0	7775.4	5513.8	2542.1	845.0	599.1	595.5	674.3	787.7	862.9	868.8
47.5°	8921.1	8077.3	5401.6	2026.5	615.8	559.7	595.5	694.6	797.2	843.8	848.6
50°	9256.5	8317.2	5137.9	1557.5	560.9	545.4	602.7	698.2	762.6	794.8	790.1
52.5°	9554.9	8535.6	4755.9	1214.9	539.4	535.9	608.7	694.6	735.2	732.8	729.2
55°	9781.6	8600.1	4457.6	947.6	521.5	529.9	612.2	698.2	728.0	706.5	701.8
57.5°	9898.6	8520.1	4207.0	753.1	502.4	523.9	621.8	697.0	749.5	790.1	787.7
60°	9896.2	8429.4	3897.8	649.2	483.4	519.2	637.3	756.7	946.4	984.6	985.8
62.5°	9858.0	8274.3	3474.2	587.2	461.9	521.5	648.0	859.3	1077.7	1046.7	1021.6
65°	9731.5	7983.1	2906.1	520.3	434.4	523.9	643.3	929.7	988.2	877.2	861.7
67.5°	9379.4	7419.7	2281.9	465.4	409.4	510.8	651.6	864.1	908.2	837.8	815.1
70°	8664.5	6626.1	1546.7	401.0	380.7	491.7	632.5	849.7	896.3	824.7	791.3
72.5°	7531.9	5318.1	904.6	344.9	338.9	452.3	623.0	859.3	910.6	830.6	787.7
75°	5862.3	3728.4	522.7	279.3	282.9	417.7	571.7	810.4	902.3	840.2	784.1
77.5°	3784.5	1810.5	368.8	223.2	220.8	329.4	464.3	708.9	868.8	848.6	802.0
80°	1354.6	661.2	259.0	165.9	161.1	223.2	356.8	570.5	735.2	761.4	761.4
82.5°	486.9	331.8	165.9	101.4	100.3	142.0	266.1	433.2	533.5	601.5	618.2
85°	204.1	144.4	81.2	51.3	41.8	54.9	137.2	268.5	361.6	389.1	423.7
87.5°	29.8	26.3	21.5	16.7	14.3	14.3	17.9	77.6	128.9	185.0	229.1
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)