

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: P510111

Luminaire Tested: **VERD-M-CA4-210-722-U-T3**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510111  
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-CA4-210-722-U-T3  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 2200K, 960mA LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24594 lumens  
Efficiency: N/A  
Efficacy: 115.1 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

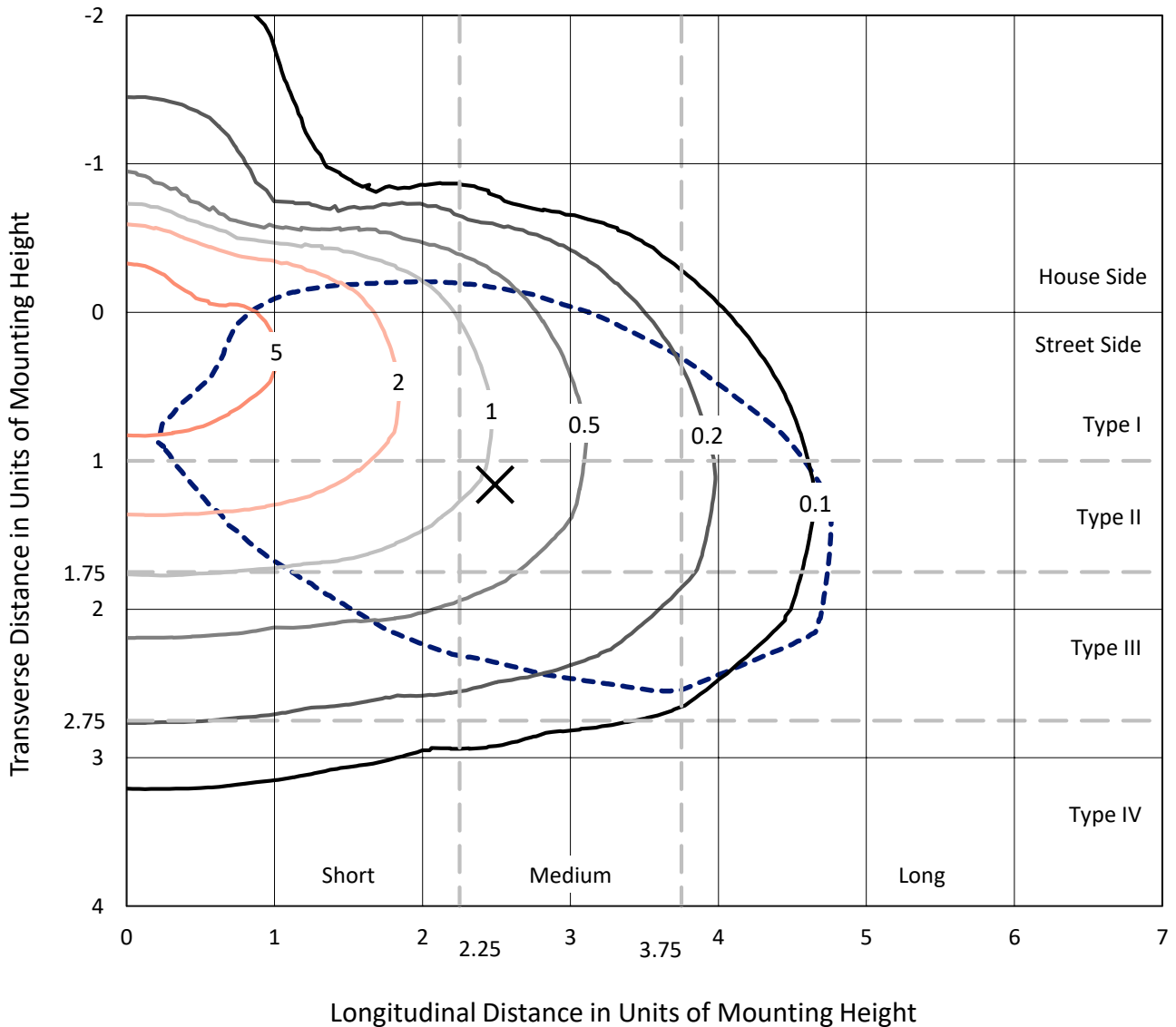
Input Watts (W): 213.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

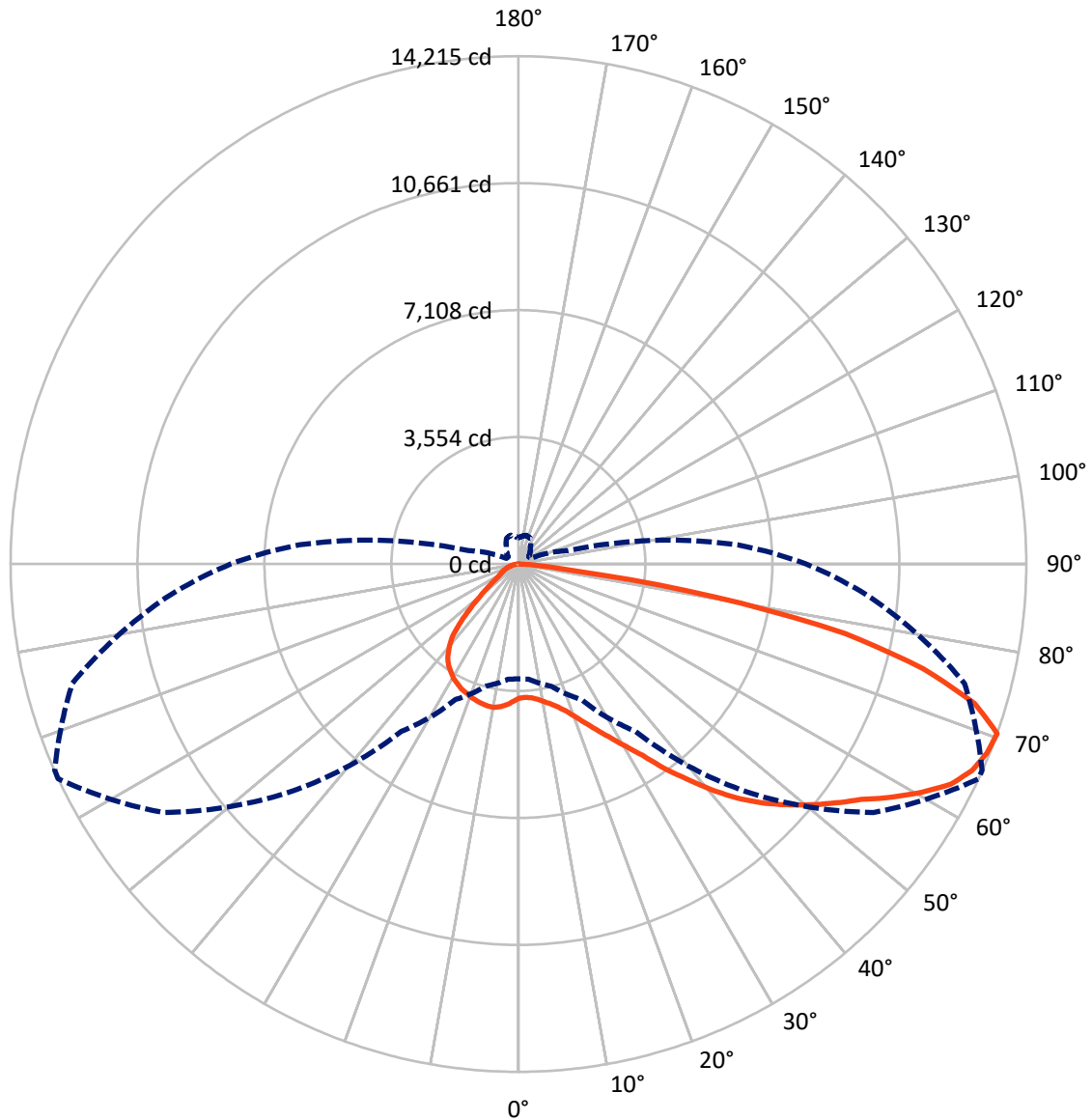
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type III - Medium - N/A

REPORT NUMBER: P510111  
CATALOG NUMBER: VERD-M-CA4-210-722-U-T3

### Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: VERD-M-CA4-210-722-U-T3

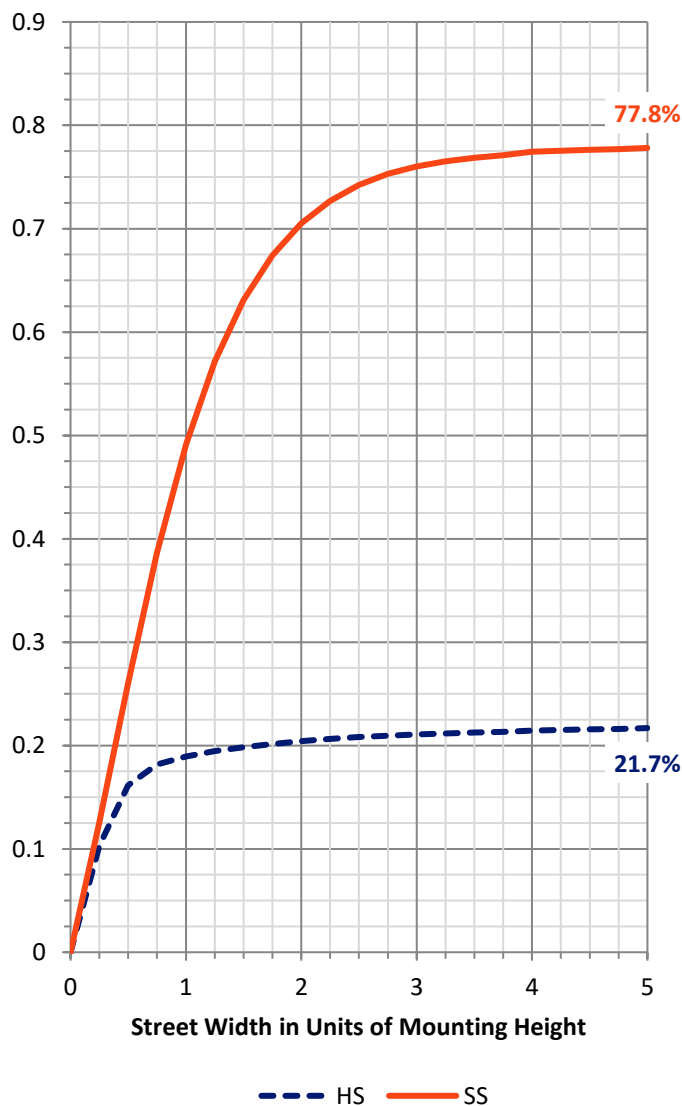
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5425.2	0.0	5425.2
	% Fixture	22.1	0.0	22.1
<b>Street Side</b>	Lumens	19168.8	0.0	19168.8
	% Fixture	77.9	0.0	77.9
<b>Total</b>	Lumens	24594.0	0.0	24594.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	376.7	1.5
10°-20°	1190.5	4.8
20°-30°	2065.3	8.4
30°-40°	3002.8	12.2
40°-50°	4011.8	16.3
50°-60°	4886.8	19.9
60°-70°	5268.0	21.4
70°-80°	3415.5	13.9
80°-90°	376.7	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°	24594.0	100.0
0°-180°	24594.0	100.0



REPORT NUMBER: P510111

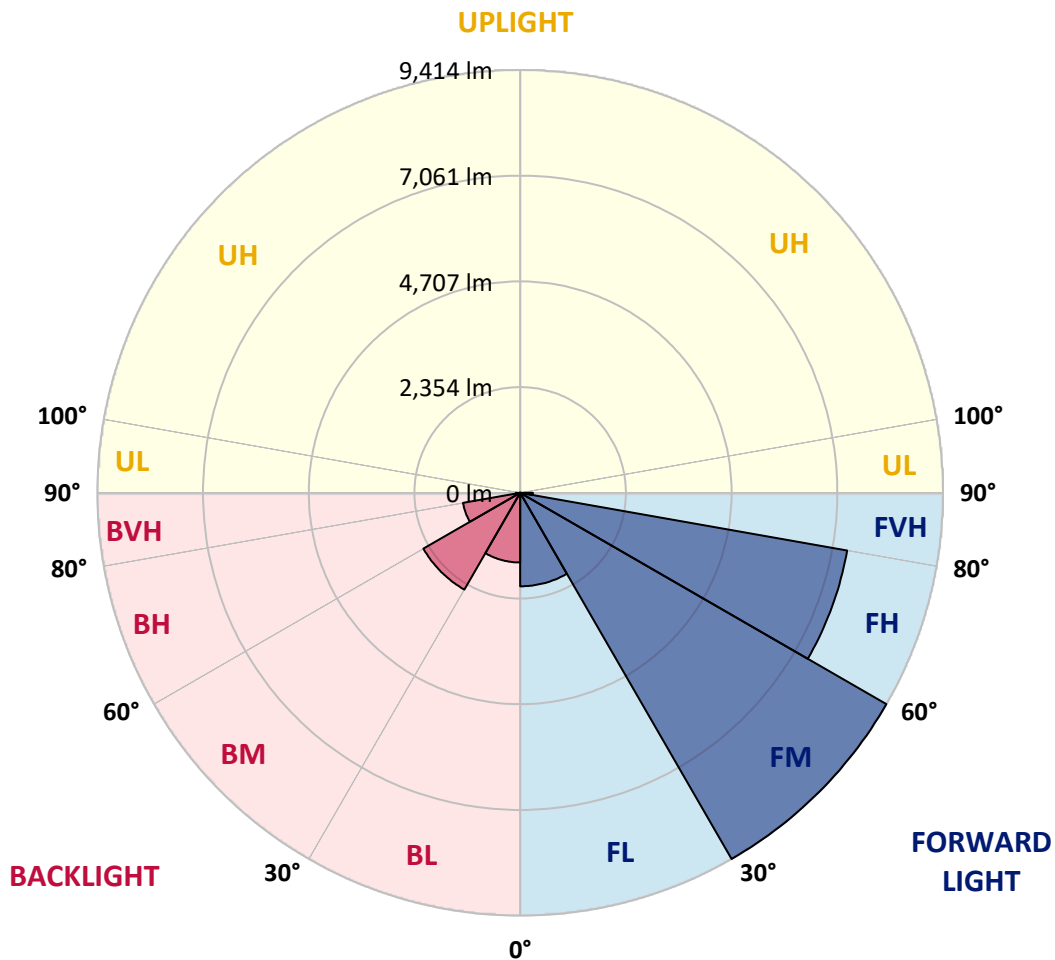
CATALOG NUMBER: VERD-M-CA4-210-722-U-T3

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2081.3	8.5			
FM	(30°-60°)	9414.1	38.3			
FH	(60°-80°)	7392.4	30.1			G3/7500
FVH	(80°-90°)	281.0	1.1			G3/500
BL	(0°-30°)	1551.1	6.3	B3/2500		
BM	(30°-60°)	2487.3	10.1	B2/2500		
BH	(60°-80°)	1291.1	5.2	B3/2500		G3/2500
BVH	(80°-90°)	95.7	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





REPORT NUMBER: P510111

CATALOG NUMBER: VERD-M-CA4-210-722-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3754.8	3754.8	3754.8	3754.8	3754.8	3754.8	3754.8	3754.8	3754.8	3754.8	3754.8
2.5°	3699.4	3732.6	3714.9	3716.0	3741.5	3720.4	3734.8	3734.8	3733.7	3741.5	3764.8
5°	3790.3	3825.8	3804.7	3791.4	3796.9	3770.3	3764.8	3760.3	3757.0	3765.9	3804.7
7.5°	3923.4	3964.4	3941.1	3928.9	3922.2	3861.3	3850.2	3820.2	3816.9	3824.7	3860.1
10°	4099.7	4155.1	4127.4	4093.0	4069.7	3998.8	3942.2	3915.6	3907.8	3903.4	3940.0
12.5°	4353.6	4402.4	4370.3	4305.9	4274.9	4160.7	4093.0	4017.6	4016.5	4001.0	4028.7
15°	4594.3	4645.3	4604.2	4541.0	4500.0	4345.9	4246.1	4152.9	4141.8	4124.1	4132.9
17.5°	4827.1	4889.2	4860.4	4802.7	4752.8	4580.9	4450.1	4330.3	4318.1	4290.4	4249.4
20°	5116.6	5173.1	5165.3	5113.2	5057.8	4862.6	4719.6	4565.4	4552.1	4502.2	4410.2
22.5°	5406.0	5475.8	5432.6	5423.7	5392.7	5198.6	4999.0	4842.7	4829.3	4763.9	4595.4
25°	5678.8	5740.9	5756.4	5742.0	5745.3	5553.5	5355.0	5158.7	5145.4	5056.7	4812.7
27.5°	6001.5	6060.2	6064.7	6068.0	6106.8	5947.1	5714.3	5512.4	5503.6	5403.8	5094.4
30°	6248.8	6346.3	6366.3	6385.2	6405.1	6319.7	6107.9	5919.4	5901.7	5793.0	5411.5
32.5°	6475.0	6548.2	6619.1	6658.0	6747.8	6671.3	6497.2	6380.7	6381.8	6330.8	5917.2
35°	6650.2	6731.1	6821.0	6962.9	7093.8	7061.6	7007.3	7013.9	7015.0	7037.2	6599.2
37.5°	6817.6	6890.8	7003.9	7173.6	7404.3	7446.4	7483.0	7621.6	7670.4	7774.6	7229.0
40°	6918.5	6996.2	7142.6	7377.6	7677.0	7829.0	7939.9	8295.8	8380.1	8381.2	7715.9
42.5°	6771.1	6856.4	7118.2	7536.2	7923.2	8207.1	8498.8	8947.9	9008.9	8872.5	8131.7
45°	6639.1	6717.8	6999.5	7560.6	8116.2	8610.8	9016.6	9536.7	9581.1	9306.1	8515.4
47.5°	6511.6	6573.7	6899.7	7509.6	8313.6	9015.5	9458.0	10069.0	10101.1	9780.7	8890.2
50°	6335.3	6409.6	6755.5	7449.7	8432.2	9362.6	9890.5	10594.6	10590.2	10207.6	9229.5
52.5°	6142.3	6215.5	6587.0	7339.9	8509.8	9632.1	10382.8	11109.2	11112.5	10697.7	9565.5
55°	5899.5	5989.3	6380.7	7191.3	8528.7	9843.9	10809.7	11637.0	11691.3	11197.9	9889.3
57.5°	5608.9	5698.7	6126.8	6974.0	8416.7	10021.3	11265.5	12311.2	12340.1	11709.1	10131.1
60°	5270.7	5379.4	5788.6	6683.5	8202.7	10227.6	11817.8	12972.1	12982.1	12166.0	10332.9
62.5°	4879.2	4956.9	5387.1	6262.1	7861.1	10309.6	12274.6	13578.7	13580.9	12510.8	10423.8
65°	4455.6	4485.6	4846.0	5688.8	7363.2	10175.4	12449.8	13948.0	13938.0	12813.6	10378.4
67.5°	3951.1	3936.7	4321.5	4980.2	6733.4	9728.6	12364.5	14137.6	14167.6	13046.4	10232.0
70°	3212.5	3233.6	3539.7	4187.3	5716.5	9011.1	12129.4	14215.2	14207.5	12930.0	9760.7
72.5°	2438.5	2476.2	2698.0	3183.7	4436.8	7578.4	11122.5	13356.9	13372.5	12109.4	8912.4
75°	1508.1	1616.8	1804.2	2100.3	2780.1	5429.3	9466.8	11700.2	11778.9	10684.4	7338.8
77.5°	660.9	686.4	780.7	1012.4	1453.8	2725.7	6998.4	9343.8	9576.6	8640.7	5294.0
80°	409.2	409.2	435.8	507.9	648.7	1013.6	2804.5	5579.0	5342.8	4942.5	2335.4
82.5°	340.4	340.4	353.7	365.9	332.7	429.2	938.1	1563.6	1675.6	1356.2	717.5
85°	185.2	189.6	190.7	194.1	190.7	231.8	369.3	462.4	468.0	423.6	255.1
87.5°	67.6	72.1	69.9	65.4	58.8	55.4	71.0	72.1	74.3	68.8	37.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P510111

CATALOG NUMBER: VERD-M-CA4-210-722-U-T3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3754.8	3754.8	3754.8	3754.8	3754.8	3754.8	3754.8	3754.8	3754.8	3754.8	3754.8
2.5°	3780.3	3795.8	3836.9	3840.2	3855.7	3861.3	3874.6	3893.4	3926.7	3910.1	3891.2
5°	3823.6	3843.5	3908.9	3942.2	3985.5	4011.0	4053.1	4074.2	4125.2	4108.5	4106.3
7.5°	3889.0	3931.1	3989.9	4022.1	4078.6	4095.2	4126.3	4126.3	4168.4	4147.4	4141.8
10°	3977.7	4005.4	4067.5	4069.7	4101.9	4101.9	4138.5	4115.2	4156.2	4131.8	4130.7
12.5°	4048.7	4064.2	4087.5	4068.6	4085.3	4066.4	4085.3	4057.5	4083.0	4052.0	4045.3
15°	4128.5	4107.4	4084.2	4039.8	4025.4	3995.4	3979.9	3951.1	3953.3	3917.8	3912.3
17.5°	4218.3	4164.0	4096.3	3999.9	3946.6	3870.1	3838.0	3796.9	3773.7	3741.5	3755.9
20°	4327.0	4246.1	4105.2	3955.5	3842.4	3726.0	3650.6	3584.0	3578.5	3549.7	3534.1
22.5°	4467.8	4338.1	4144.0	3892.3	3710.4	3544.1	3432.1	3321.2	3310.1	3251.4	3229.2
25°	4641.9	4460.1	4164.0	3843.5	3556.3	3327.9	3151.5	2997.4	2923.1	2861.0	2846.6
27.5°	4875.9	4639.7	4203.9	3755.9	3374.4	3059.5	2806.7	2602.6	2513.9	2482.9	2450.7
30°	5149.8	4859.3	4278.2	3682.7	3159.3	2716.9	2408.6	2165.7	2069.2	2020.5	2004.9
32.5°	5553.5	5136.5	4347.0	3561.8	2898.7	2339.8	1938.4	1670.0	1611.3	1602.4	1623.5
35°	6141.2	5657.7	4446.8	3449.8	2592.7	1920.6	1477.1	1301.9	1289.7	1291.9	1291.9
37.5°	6753.3	6154.5	4742.8	3284.6	2217.8	1446.0	1124.4	1029.1	1033.5	1033.5	1032.4
40°	7152.5	6553.7	4958.0	3050.6	1752.1	1036.8	833.9	761.8	792.9	835.0	857.2
42.5°	7592.8	6916.3	5106.6	2781.2	1218.7	733.0	606.6	632.1	723.0	787.3	796.2
45°	7967.6	7224.6	5123.2	2362.0	785.1	556.7	553.4	626.5	731.9	801.7	807.3
47.5°	8289.2	7505.2	5019.0	1882.9	572.2	520.1	553.4	645.4	740.8	784.0	788.4
50°	8600.8	7728.1	4773.9	1447.1	521.2	506.8	560.0	648.7	708.6	738.5	734.1
52.5°	8878.0	7931.0	4419.0	1128.9	501.2	497.9	565.5	645.4	683.1	680.9	677.5
55°	9088.7	7990.9	4141.8	880.5	484.6	492.4	568.9	648.7	676.4	656.5	652.0
57.5°	9197.4	7916.6	3908.9	699.7	466.9	486.8	577.7	647.6	696.4	734.1	731.9
60°	9195.2	7832.3	3621.7	603.3	449.1	482.4	592.2	703.1	879.4	914.9	916.0
62.5°	9159.7	7688.1	3228.1	545.6	429.2	484.6	602.1	798.4	1001.4	972.5	949.2
65°	9042.1	7417.6	2700.2	483.5	403.6	486.8	597.7	863.8	918.2	815.1	800.6
67.5°	8715.0	6894.2	2120.3	432.5	380.4	474.6	605.5	802.9	843.9	778.5	757.4
70°	8050.8	6156.7	1437.2	372.6	353.7	456.9	587.7	789.6	832.8	766.3	735.2
72.5°	6998.4	4941.3	840.6	320.5	314.9	420.3	578.9	798.4	846.1	771.8	731.9
75°	5447.0	3464.3	485.7	259.5	262.8	388.1	531.2	753.0	838.3	780.7	728.6
77.5°	3516.4	1682.2	342.7	207.4	205.2	306.1	431.4	658.7	807.3	788.4	745.2
80°	1258.6	614.3	240.6	154.1	149.7	207.4	331.6	530.1	683.1	707.5	707.5
82.5°	452.4	308.3	154.1	94.3	93.1	132.0	247.3	402.5	495.7	558.9	574.4
85°	189.6	134.2	75.4	47.7	38.8	51.0	127.5	249.5	336.0	361.5	393.7
87.5°	27.7	24.4	20.0	15.5	13.3	13.3	16.6	72.1	119.8	171.9	212.9
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)