

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: P510103

Luminaire Tested: **VERD-M-CA4-200-760-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510103
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-CA4-200-760-U-T3
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 5700K, 910mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28736 lumens
Efficiency: N/A
Efficacy: 142.4 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

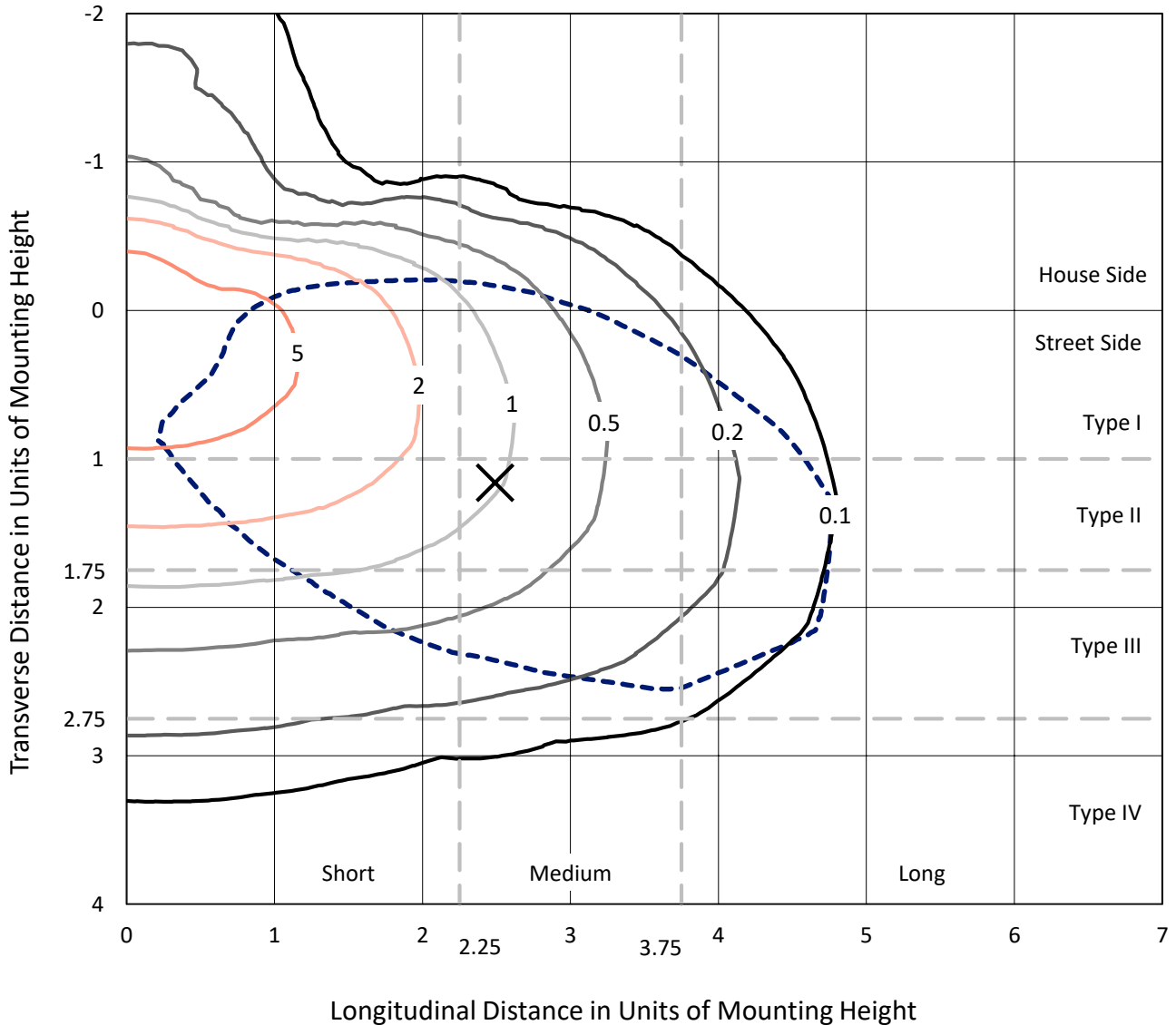
Input Watts (W): 201.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

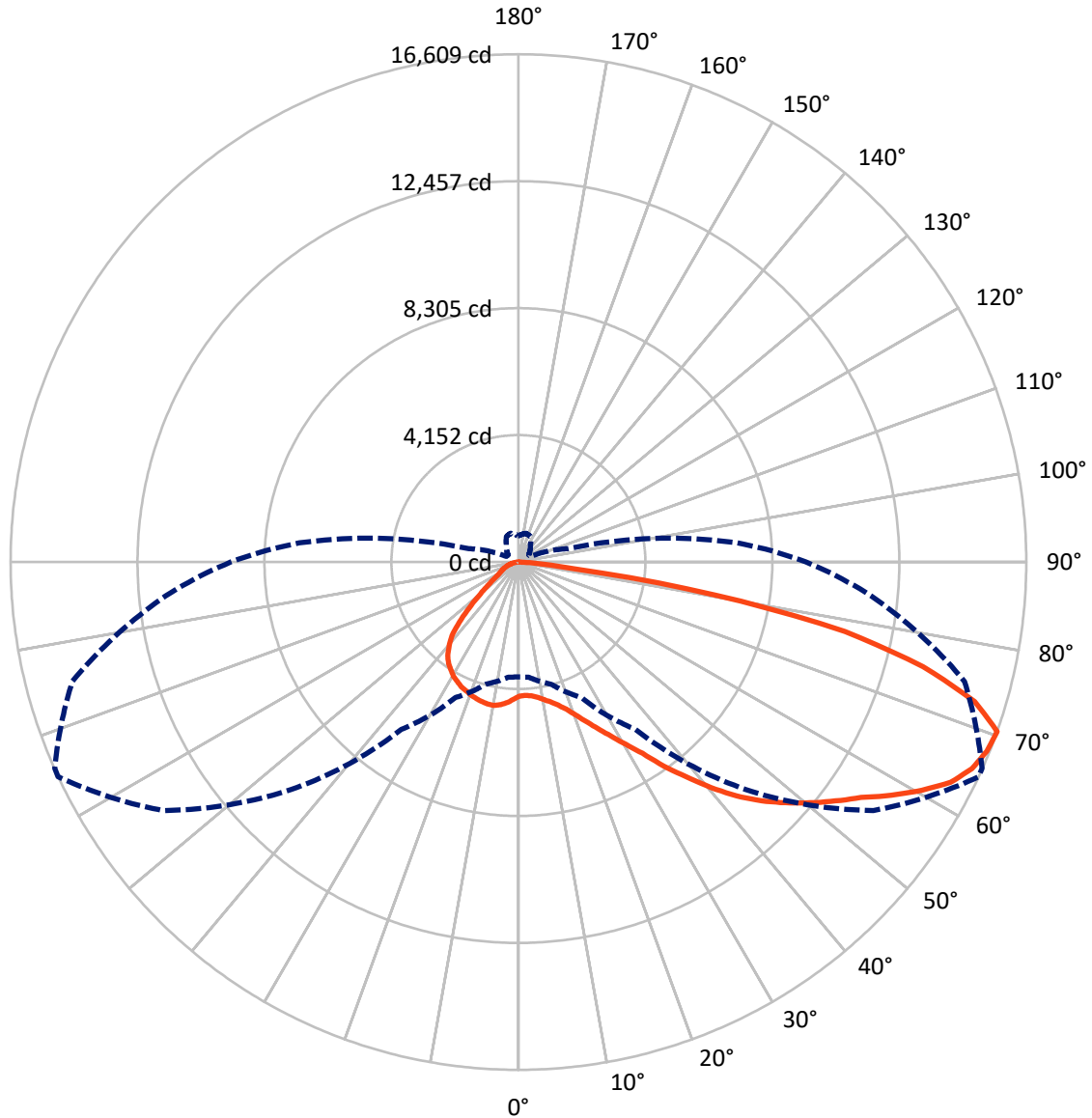
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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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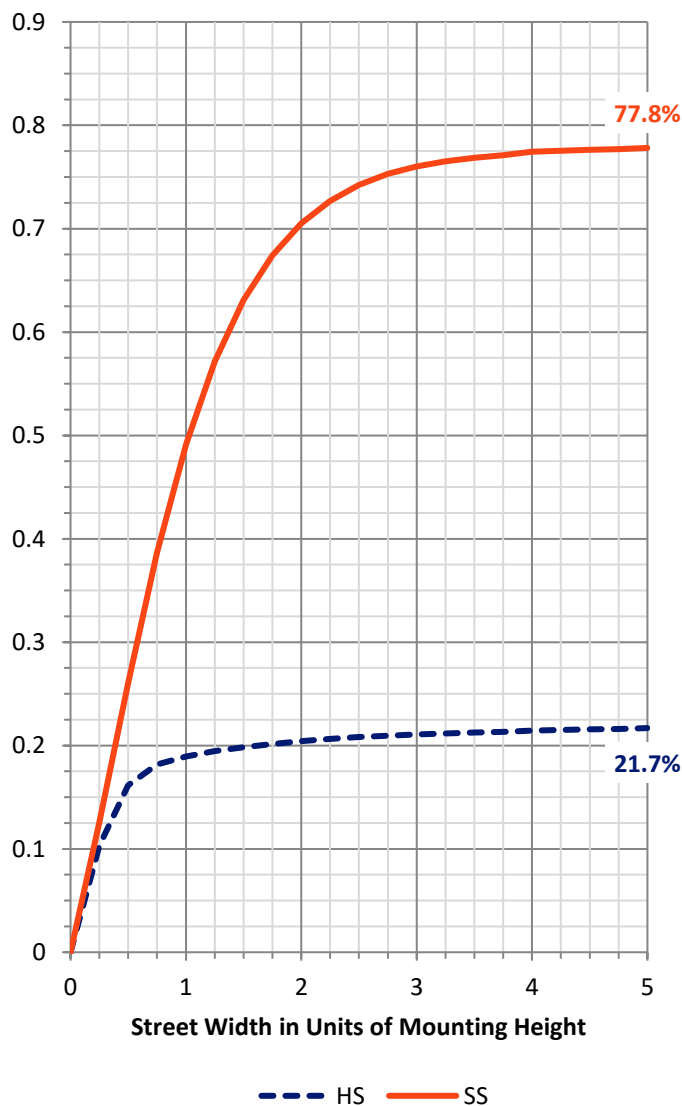
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6338.9	0.0	6338.9
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	22397.1	0.0	22397.1
	% Fixture	77.9	0.0	77.9
Total	Lumens	28736.0	0.0	28736.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	440.1	1.5
10°-20°	1391.0	4.8
20°-30°	2413.1	8.4
30°-40°	3508.5	12.2
40°-50°	4687.5	16.3
50°-60°	5709.8	19.9
60°-70°	6155.2	21.4
70°-80°	3990.7	13.9
80°-90°	440.1	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°	28736.0	100.0
0°-180°	28736.0	100.0

Coefficient of Utilization



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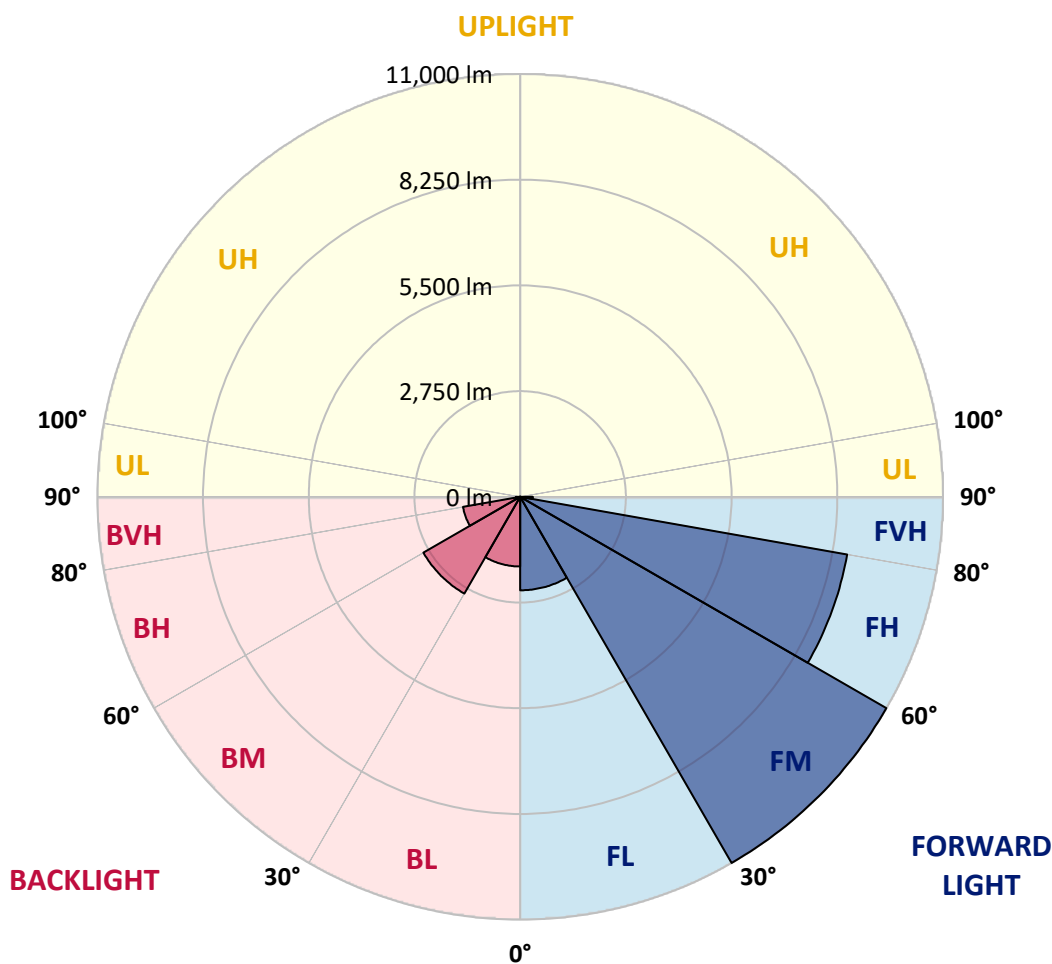
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2431.9	8.5			
FM (30°-60°)	10999.6	38.3			
FH (60°-80°)	8637.3	30.1			G4/12000
FVH (80°-90°)	328.3	1.1			G3/500
BL (0°-30°)	1812.3	6.3	B3/2500		
BM (30°-60°)	2906.2	10.1	B3/5000		
BH (60°-80°)	1508.6	5.2	B3/2500		G3/2500
BVH (80°-90°)	111.9	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°	4387.2	4387.2	4387.2	4387.2	4387.2	4387.2	4387.2	4387.2	4387.2	4387.2	4387.2
2.5°	4322.4	4361.3	4340.5	4341.8	4371.6	4347.0	4363.8	4363.8	4362.5	4371.6	4398.8
5°	4428.6	4470.1	4445.5	4429.9	4436.4	4405.3	4398.8	4393.6	4389.8	4400.1	4445.5
7.5°	4584.1	4632.0	4604.8	4590.6	4582.8	4511.6	4498.6	4463.6	4459.7	4468.8	4510.3
10°	4790.1	4854.9	4822.5	4782.3	4755.1	4672.2	4606.1	4575.0	4566.0	4560.8	4603.5
12.5°	5086.8	5143.8	5106.3	5031.1	4994.8	4861.4	4782.3	4694.2	4692.9	4674.8	4707.2
15°	5368.0	5427.6	5379.7	5305.8	5257.9	5077.8	4961.2	4852.3	4839.4	4818.6	4829.0
17.5°	5640.1	5712.6	5679.0	5611.6	5553.3	5352.4	5199.6	5059.6	5045.4	5013.0	4965.0
20°	5978.3	6044.3	6035.3	5974.4	5909.6	5681.5	5514.4	5334.3	5318.8	5260.5	5152.9
22.5°	6316.4	6398.1	6347.5	6337.2	6300.9	6074.1	5840.9	5658.2	5642.7	5566.2	5369.3
25°	6635.2	6707.7	6725.9	6709.0	6712.9	6488.8	6256.8	6027.5	6011.9	5908.3	5623.2
27.5°	7012.2	7080.9	7086.1	7090.0	7135.3	6948.7	6676.6	6440.8	6430.5	6313.8	5952.3
30°	7301.1	7415.2	7438.5	7460.5	7483.8	7384.1	7136.6	6916.3	6895.6	6768.6	6322.9
32.5°	7565.5	7651.0	7733.9	7779.3	7884.2	7794.8	7591.4	7455.3	7456.6	7397.0	6913.7
35°	7770.2	7864.8	7969.7	8135.6	8288.5	8250.9	8187.4	8195.2	8196.5	8222.4	7710.6
37.5°	7965.8	8051.3	8183.5	8381.7	8651.2	8700.5	8743.2	8905.2	8962.2	9084.0	8446.5
40°	8083.7	8174.4	8345.5	8620.1	8970.0	9147.5	9277.1	9693.0	9791.4	9792.7	9015.3
42.5°	7911.4	8011.2	8317.0	8805.4	9257.6	9589.3	9930.1	10454.8	10526.1	10366.7	9501.2
45°	7757.2	7849.2	8178.3	8833.9	9483.1	10060.9	10535.2	11142.8	11194.7	10873.3	9949.5
47.5°	7608.2	7680.8	8061.7	8774.3	9713.7	10533.9	11050.8	11764.8	11802.3	11427.9	10387.5
50°	7402.2	7489.0	7893.3	8704.4	9852.3	10939.4	11556.2	12378.9	12373.7	11926.7	10783.9
52.5°	7176.8	7262.3	7696.3	8576.1	9943.0	11254.3	12131.4	12980.1	12984.0	12499.4	11176.5
55°	6893.0	6998.0	7455.3	8402.5	9965.1	11501.7	12630.3	13596.8	13660.3	13083.8	11554.9
57.5°	6553.5	6658.5	7158.6	8148.5	9834.2	11709.0	13162.8	14384.6	14418.3	13681.1	11837.3
60°	6158.4	6285.3	6763.4	7809.1	9584.1	11950.0	13808.0	15156.8	15168.5	14214.9	12073.1
62.5°	5701.0	5791.7	6294.4	7316.7	9185.1	12045.9	14341.9	15865.6	15868.2	14617.8	12179.4
65°	5206.0	5241.0	5662.1	6646.8	8603.3	11889.1	14546.6	16297.0	16285.4	14971.6	12126.3
67.5°	4616.5	4599.7	5049.3	5818.9	7867.4	11367.0	14446.8	16518.6	16553.6	15243.7	11955.2
70°	3753.6	3778.2	4135.8	4892.5	6679.2	10528.7	14172.1	16609.3	16600.2	15107.6	11404.6
72.5°	2849.2	2893.2	3152.4	3719.9	5184.0	8854.7	12995.7	15606.4	15624.6	14148.8	10413.4
75°	1762.1	1889.1	2108.1	2454.0	3248.3	6343.6	11061.2	13670.7	13762.7	12483.9	8574.8
77.5°	772.2	802.0	912.2	1183.0	1698.6	3184.8	8177.0	10917.4	11189.5	10095.9	6185.6
80°	478.1	478.1	509.2	593.4	758.0	1184.2	3276.8	6518.6	6242.6	5774.8	2728.7
82.5°	397.8	397.8	413.3	427.6	388.7	501.4	1096.1	1826.9	1957.8	1584.6	838.3
85°	216.4	221.6	222.9	226.7	222.9	270.8	431.5	540.3	546.8	494.9	298.0
87.5°	79.0	84.2	81.6	76.4	68.7	64.8	82.9	84.2	86.8	80.3	44.1
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°	4387.2	4387.2	4387.2	4387.2	4387.2	4387.2	4387.2	4387.2	4387.2	4387.2	4387.2
2.5°	4417.0	4435.1	4483.0	4486.9	4505.1	4511.6	4527.1	4549.1	4588.0	4568.6	4546.5
5°	4467.5	4490.8	4567.3	4606.1	4656.7	4686.5	4735.7	4760.3	4819.9	4800.5	4797.9
7.5°	4543.9	4593.2	4661.9	4699.4	4765.5	4784.9	4821.2	4821.2	4870.5	4845.8	4839.4
10°	4647.6	4680.0	4752.5	4755.1	4792.7	4792.7	4835.5	4808.3	4856.2	4827.7	4826.4
12.5°	4730.5	4748.7	4775.9	4753.8	4773.3	4751.3	4773.3	4740.9	4770.7	4734.4	4726.6
15°	4823.8	4799.2	4772.0	4720.2	4703.3	4668.3	4650.2	4616.5	4619.1	4577.6	4571.2
17.5°	4928.8	4865.3	4786.2	4673.5	4611.3	4521.9	4484.3	4436.4	4409.2	4371.6	4388.5
20°	5055.7	4961.2	4796.6	4621.7	4489.5	4353.5	4265.4	4187.6	4181.2	4147.5	4129.3
22.5°	5220.3	5068.7	4841.9	4547.8	4335.3	4141.0	4010.1	3880.6	3867.6	3798.9	3773.0
25°	5423.7	5211.2	4865.3	4490.8	4155.2	3888.3	3682.3	3502.2	3415.4	3342.8	3326.0
27.5°	5697.1	5421.1	4911.9	4388.5	3942.7	3574.8	3279.4	3041.0	2937.3	2901.0	2863.4
30°	6017.1	5677.7	4998.7	4302.9	3691.4	3174.4	2814.2	2530.5	2417.7	2360.7	2342.6
32.5°	6488.8	6001.6	5079.1	4161.7	3386.9	2733.9	2264.8	1951.3	1882.6	1872.3	1896.9
35°	7175.5	6610.6	5195.7	4030.9	3029.3	2244.1	1725.8	1521.1	1506.9	1509.5	1509.5
37.5°	7890.7	7191.0	5541.6	3837.8	2591.4	1689.6	1313.8	1202.4	1207.6	1207.6	1206.3
40°	8357.1	7657.5	5793.0	3564.4	2047.2	1211.5	974.4	890.1	926.4	975.6	1001.6
42.5°	8871.5	8081.1	5966.6	3249.6	1424.0	856.4	708.7	738.5	844.8	919.9	930.3
45°	9309.4	8441.3	5986.0	2759.8	917.3	650.4	646.5	732.1	855.1	936.8	943.3
47.5°	9685.2	8769.2	5864.2	2200.1	668.6	607.7	646.5	754.1	865.5	916.0	921.2
50°	10049.3	9029.6	5577.9	1690.9	609.0	592.1	654.3	758.0	827.9	862.9	857.7
52.5°	10373.2	9266.7	5163.3	1319.0	585.6	581.8	660.8	754.1	798.1	795.5	791.7
55°	10619.4	9336.7	4839.4	1028.8	566.2	575.3	664.7	758.0	790.4	767.0	761.9
57.5°	10746.4	9249.8	4567.3	817.6	545.5	568.8	675.0	756.7	813.7	857.7	855.1
60°	10743.8	9151.4	4231.7	704.8	524.7	563.6	691.9	821.5	1027.5	1068.9	1070.2
62.5°	10702.3	8982.9	3771.7	637.5	501.4	566.2	703.6	932.9	1170.0	1136.3	1109.1
65°	10565.0	8666.8	3155.0	564.9	471.6	568.8	698.4	1009.3	1072.8	952.3	935.5
67.5°	10182.7	8055.2	2477.3	505.3	444.4	554.6	707.4	938.1	986.0	909.6	884.9
70°	9406.6	7193.6	1679.2	435.3	413.3	533.8	686.7	922.5	973.1	895.3	859.0
72.5°	8177.0	5773.5	982.1	374.5	368.0	491.1	676.3	932.9	988.6	901.8	855.1
75°	6364.4	4047.7	567.5	303.2	307.1	453.5	620.6	879.8	979.5	912.2	851.3
77.5°	4108.6	1965.5	400.4	242.3	239.7	357.6	504.0	769.6	943.3	921.2	870.7
80°	1470.6	717.8	281.2	180.1	174.9	242.3	387.4	619.3	798.1	826.6	826.6
82.5°	528.6	360.2	180.1	110.1	108.8	154.2	288.9	470.3	579.2	653.0	671.2
85°	221.6	156.8	88.1	55.7	45.3	59.6	149.0	291.5	392.6	422.4	460.0
87.5°	32.4	28.5	23.3	18.1	15.5	15.5	19.4	84.2	139.9	200.8	248.8
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)