

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: P509991

Luminaire Tested: **VERD-M-CA3-180-740-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509991
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-CA3-180-740-U-T3
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 1120mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25571 lumens
Efficiency: N/A
Efficacy: 139.7 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

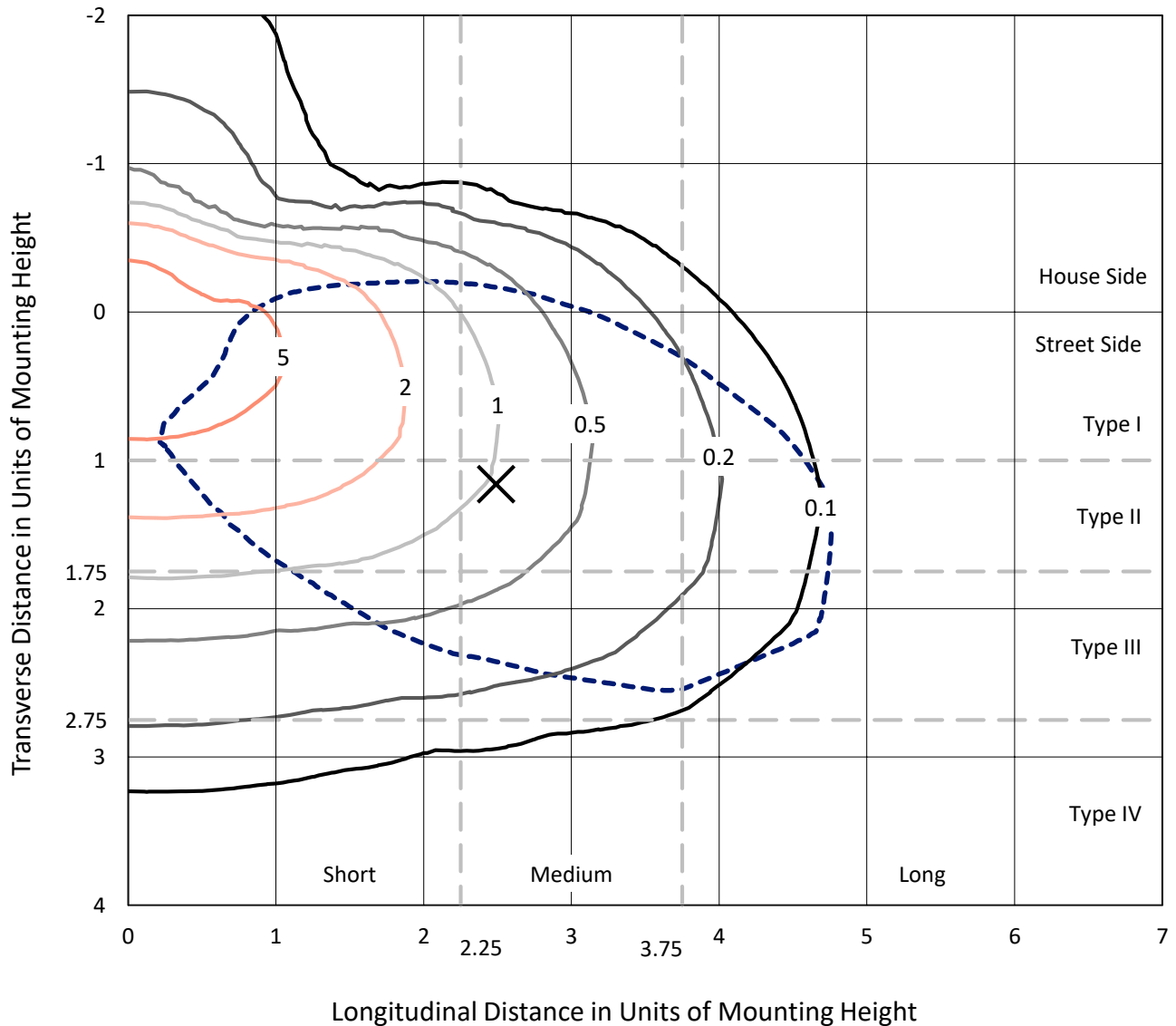
Input Watts (W): 183.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

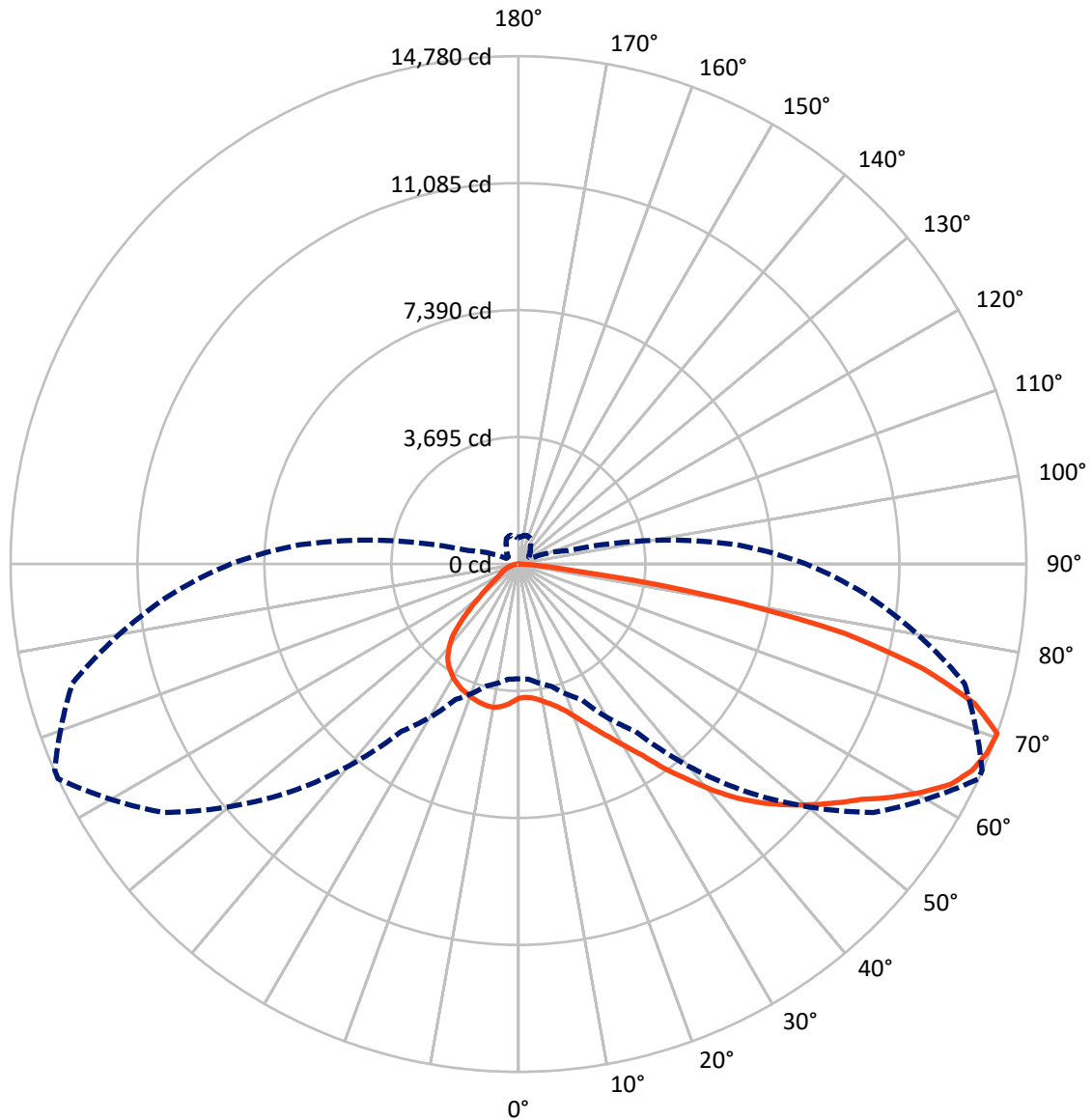
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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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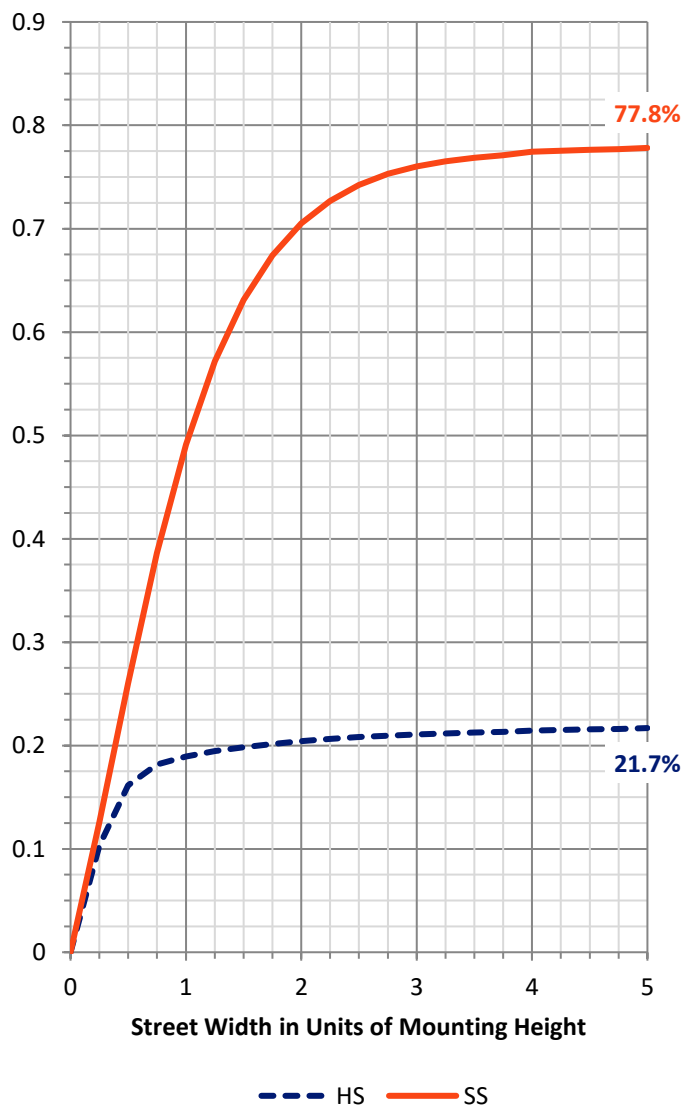
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5640.7	0.0	5640.7
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	19930.3	0.0	19930.3
	% Fixture	77.9	0.0	77.9
Total	Lumens	25571.0	0.0	25571.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.6	1.5
10°-20°	1237.8	4.8
20°-30°	2147.3	8.4
30°-40°	3122.1	12.2
40°-50°	4171.2	16.3
50°-60°	5080.9	19.9
60°-70°	5477.3	21.4
70°-80°	3551.1	13.9
80°-90°	391.7	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°	25571.0	100.0
0°-180°	25571.0	100.0

Coefficient of Utilization



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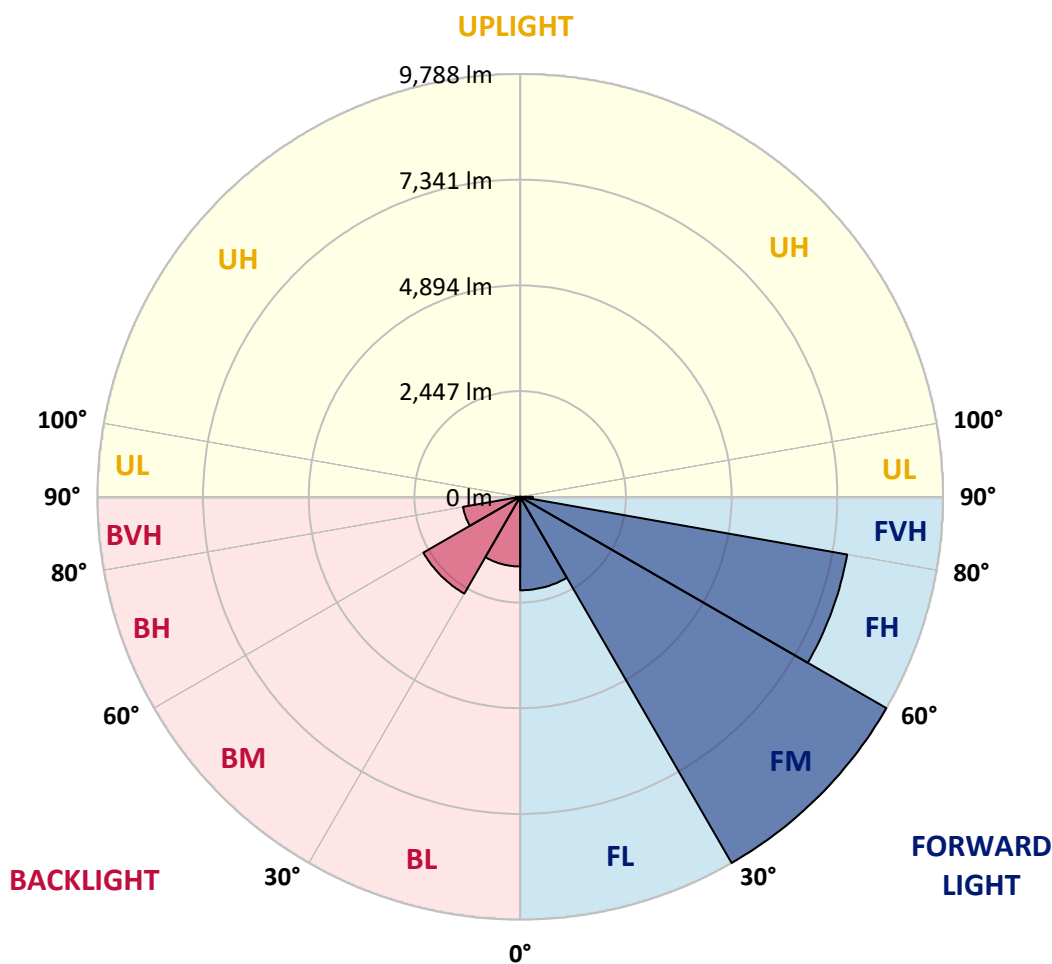
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2164.0	8.5			
FM (30°-60°)	9788.1	38.3			
FH (60°-80°)	7686.0	30.1			G4/12000
FVH (80°-90°)	292.1	1.1			G3/500
BL (0°-30°)	1612.7	6.3	B3/2500		
BM (30°-60°)	2586.1	10.1	B3/5000		
BH (60°-80°)	1342.4	5.2	B3/2500		G3/2500
BVH (80°-90°)	99.5	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-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3904.0	3904.0	3904.0	3904.0	3904.0	3904.0	3904.0	3904.0	3904.0	3904.0	3904.0
2.5°	3846.3	3880.9	3862.5	3863.6	3890.1	3868.2	3883.2	3883.2	3882.1	3890.1	3914.3
5°	3940.9	3977.8	3955.8	3942.0	3947.8	3920.1	3914.3	3909.7	3906.3	3915.5	3955.8
7.5°	4079.2	4121.9	4097.7	4085.0	4078.1	4014.6	4003.1	3972.0	3968.5	3976.6	4013.5
10°	4262.5	4320.2	4291.4	4255.6	4231.4	4157.6	4098.8	4071.1	4063.1	4058.5	4096.5
12.5°	4526.6	4577.3	4543.9	4477.0	4444.7	4325.9	4255.6	4177.2	4176.1	4159.9	4188.7
15°	4776.8	4829.8	4787.1	4721.4	4678.8	4518.5	4414.7	4317.9	4306.3	4287.9	4297.1
17.5°	5018.9	5083.5	5053.5	4993.5	4941.6	4762.9	4626.9	4502.4	4489.7	4460.8	4418.2
20°	5319.8	5378.6	5370.5	5316.4	5258.7	5055.8	4907.0	4746.8	4732.9	4681.1	4585.4
22.5°	5620.7	5693.4	5648.4	5639.2	5606.9	5405.1	5197.6	5035.0	5021.2	4953.2	4777.9
25°	5904.4	5968.9	5985.1	5970.1	5973.5	5774.1	5567.7	5363.6	5349.8	5257.6	5003.9
27.5°	6239.9	6301.0	6305.6	6309.1	6349.4	6183.4	5941.3	5731.4	5722.2	5618.4	5296.8
30°	6497.0	6598.5	6619.2	6638.8	6659.6	6570.8	6350.6	6154.6	6136.1	6023.1	5626.5
32.5°	6732.2	6808.3	6882.1	6922.4	7015.8	6936.3	6755.3	6634.2	6635.4	6582.3	6152.3
35°	6914.4	6998.5	7091.9	7239.5	7375.6	7342.1	7285.6	7292.5	7293.7	7316.8	6861.3
37.5°	7088.5	7164.6	7282.2	7458.6	7698.4	7742.2	7780.3	7924.4	7975.1	8083.5	7516.2
40°	7193.4	7274.1	7426.3	7670.7	7982.0	8140.0	8255.3	8625.4	8713.0	8714.2	8022.4
42.5°	7040.0	7128.8	7400.9	7835.6	8238.0	8533.1	8836.4	9303.3	9366.7	9224.9	8454.7
45°	6902.8	6984.7	7277.6	7861.0	8438.6	8952.8	9374.8	9915.6	9961.7	9675.7	8853.7
47.5°	6770.2	6834.8	7173.8	7807.9	8643.8	9373.7	9833.7	10469.0	10502.4	10169.2	9243.4
50°	6586.9	6664.2	7023.9	7745.7	8767.2	9734.5	10283.4	11015.5	11010.9	10613.1	9596.2
52.5°	6386.3	6462.4	6848.7	7631.5	8847.9	10014.7	10795.3	11550.5	11553.9	11122.7	9945.5
55°	6133.8	6227.2	6634.2	7477.0	8867.5	10234.9	11239.2	12099.3	12155.8	11642.7	10282.2
57.5°	5831.7	5925.1	6370.2	7251.0	8751.1	10419.4	11713.0	12800.3	12830.3	12174.2	10533.5
60°	5480.1	5593.1	6018.5	6949.0	8528.5	10633.9	12287.2	13487.5	13497.8	12649.3	10743.4
62.5°	5073.1	5153.8	5601.1	6510.8	8173.4	10719.2	12762.2	14118.1	14120.4	13007.8	10837.9
65°	4632.6	4663.8	5038.5	5914.7	7655.7	10579.7	12944.4	14502.1	14491.7	13322.6	10790.7
67.5°	4108.0	4093.0	4493.1	5178.0	7000.8	10115.0	12855.6	14699.2	14730.4	13564.7	10638.5
70°	3340.2	3362.1	3680.3	4353.6	5943.6	9369.0	12611.2	14779.9	14771.9	13443.6	10148.5
72.5°	2535.4	2574.6	2805.2	3310.2	4613.0	7879.4	11564.3	13887.5	13903.7	12590.4	9266.4
75°	1568.0	1681.0	1875.9	2183.7	2890.5	5644.9	9842.9	12165.0	12246.9	11108.9	7630.4
77.5°	687.2	713.7	811.7	1052.7	1511.5	2834.0	7276.4	9714.9	9957.1	8984.0	5504.3
80°	425.4	425.4	453.1	528.1	674.5	1053.8	2915.9	5800.6	5555.0	5138.8	2428.2
82.5°	354.0	354.0	367.8	380.5	345.9	446.2	975.4	1625.7	1742.1	1410.1	746.0
85°	192.5	197.2	198.3	201.8	198.3	241.0	383.9	480.8	486.6	440.4	265.2
87.5°	70.3	74.9	72.6	68.0	61.1	57.6	73.8	74.9	77.2	71.5	39.2
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°	3904.0	3904.0	3904.0	3904.0	3904.0	3904.0	3904.0	3904.0	3904.0	3904.0	3904.0
2.5°	3930.5	3946.6	3989.3	3992.7	4008.9	4014.6	4028.5	4048.1	4082.7	4065.4	4045.8
5°	3975.4	3996.2	4064.2	4098.8	4143.8	4170.3	4214.1	4236.0	4289.1	4271.8	4269.5
7.5°	4043.5	4087.3	4148.4	4181.8	4240.6	4257.9	4290.2	4290.2	4334.0	4312.1	4306.3
10°	4135.7	4164.5	4229.1	4231.4	4264.8	4264.8	4302.9	4278.7	4321.3	4296.0	4294.8
12.5°	4209.5	4225.6	4249.9	4230.3	4247.5	4227.9	4247.5	4218.7	4245.2	4213.0	4206.0
15°	4292.5	4270.6	4246.4	4200.3	4185.3	4154.2	4138.0	4108.0	4110.3	4073.4	4067.7
17.5°	4385.9	4329.4	4259.1	4158.8	4103.4	4023.9	3990.4	3947.8	3923.6	3890.1	3905.1
20°	4498.9	4414.7	4268.3	4112.6	3995.0	3874.0	3795.6	3726.4	3720.6	3690.7	3674.5
22.5°	4645.3	4510.4	4308.7	4046.9	3857.8	3684.9	3568.4	3453.1	3441.6	3380.5	3357.5
25°	4826.3	4637.3	4329.4	3996.2	3697.6	3460.1	3276.7	3116.5	3039.2	2974.7	2959.7
27.5°	5069.6	4824.0	4370.9	3905.1	3508.5	3181.0	2918.2	2706.0	2613.8	2581.5	2548.1
30°	5354.4	5052.3	4448.2	3829.0	3284.8	2824.8	2504.3	2251.8	2151.4	2100.7	2084.6
32.5°	5774.1	5340.6	4519.6	3703.3	3013.9	2432.8	2015.4	1736.4	1675.3	1666.0	1688.0
35°	6385.2	5882.5	4623.4	3586.9	2695.6	1996.9	1535.8	1353.6	1340.9	1343.2	1343.2
37.5°	7021.6	6399.0	4931.3	3415.1	2305.9	1503.5	1169.1	1070.0	1074.6	1074.6	1073.4
40°	7436.7	6814.1	5154.9	3171.8	1821.7	1078.0	867.0	792.1	824.4	868.2	891.2
42.5°	7894.4	7191.1	5309.4	2891.7	1267.1	762.1	630.7	657.2	751.7	818.6	827.8
45°	8284.1	7511.6	5326.7	2455.8	816.3	578.8	575.3	651.4	761.0	833.6	839.4
47.5°	8618.5	7803.3	5218.3	1957.7	594.9	540.7	575.3	671.0	770.2	815.2	819.8
50°	8942.4	8035.1	4963.5	1504.6	541.9	526.9	582.3	674.5	736.7	767.9	763.3
52.5°	9230.7	8246.1	4594.6	1173.7	521.1	517.7	588.0	671.0	710.2	707.9	704.5
55°	9449.8	8308.3	4306.3	915.5	503.8	511.9	591.5	674.5	703.3	682.6	677.9
57.5°	9562.7	8231.1	4064.2	727.5	485.4	506.2	600.7	673.3	724.1	763.3	761.0
60°	9560.4	8143.4	3765.6	627.2	467.0	501.5	615.7	731.0	914.3	951.2	952.4
62.5°	9523.5	7993.6	3356.3	567.3	446.2	503.8	626.1	830.1	1041.1	1011.2	986.9
65°	9401.3	7712.2	2807.5	502.7	419.7	506.2	621.5	898.2	954.7	847.4	832.4
67.5°	9061.2	7168.0	2204.5	449.7	395.5	493.5	629.5	834.8	877.4	809.4	787.5
70°	8370.6	6401.3	1494.3	387.4	367.8	475.0	611.1	820.9	865.9	796.7	764.4
72.5°	7276.4	5137.6	874.0	333.2	327.4	437.0	601.9	830.1	879.7	802.5	761.0
75°	5663.4	3601.9	505.0	269.8	273.3	403.5	552.3	782.9	871.6	811.7	757.5
77.5°	3656.1	1749.1	356.3	215.6	213.3	318.2	448.5	684.9	839.4	819.8	774.8
80°	1308.6	638.7	250.2	160.3	155.7	215.6	344.7	551.1	710.2	735.6	735.6
82.5°	470.4	320.5	160.3	98.0	96.8	137.2	257.1	418.5	515.4	581.1	597.2
85°	197.2	139.5	78.4	49.6	40.4	53.0	132.6	259.4	349.4	375.9	409.3
87.5°	28.8	25.4	20.8	16.1	13.8	13.8	17.3	74.9	124.5	178.7	221.4
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)