

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: P510039

Luminaire Tested: **VERD-M-CA4-190-740-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510039
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-CA4-190-740-U-T3
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 4000K, 870mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27708 lumens
Efficiency: N/A
Efficacy: 143.5 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

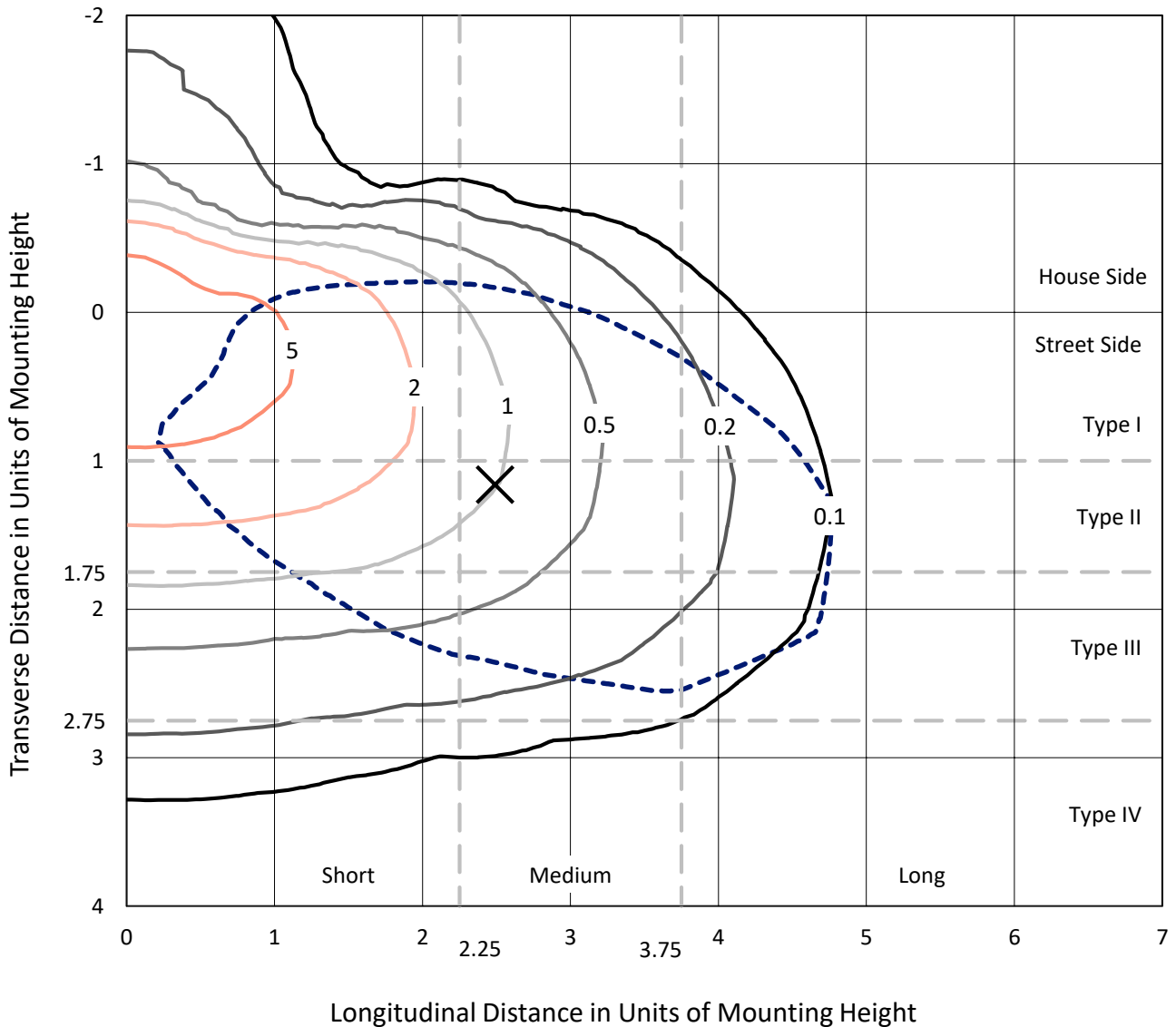
Input Watts (W): 193.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

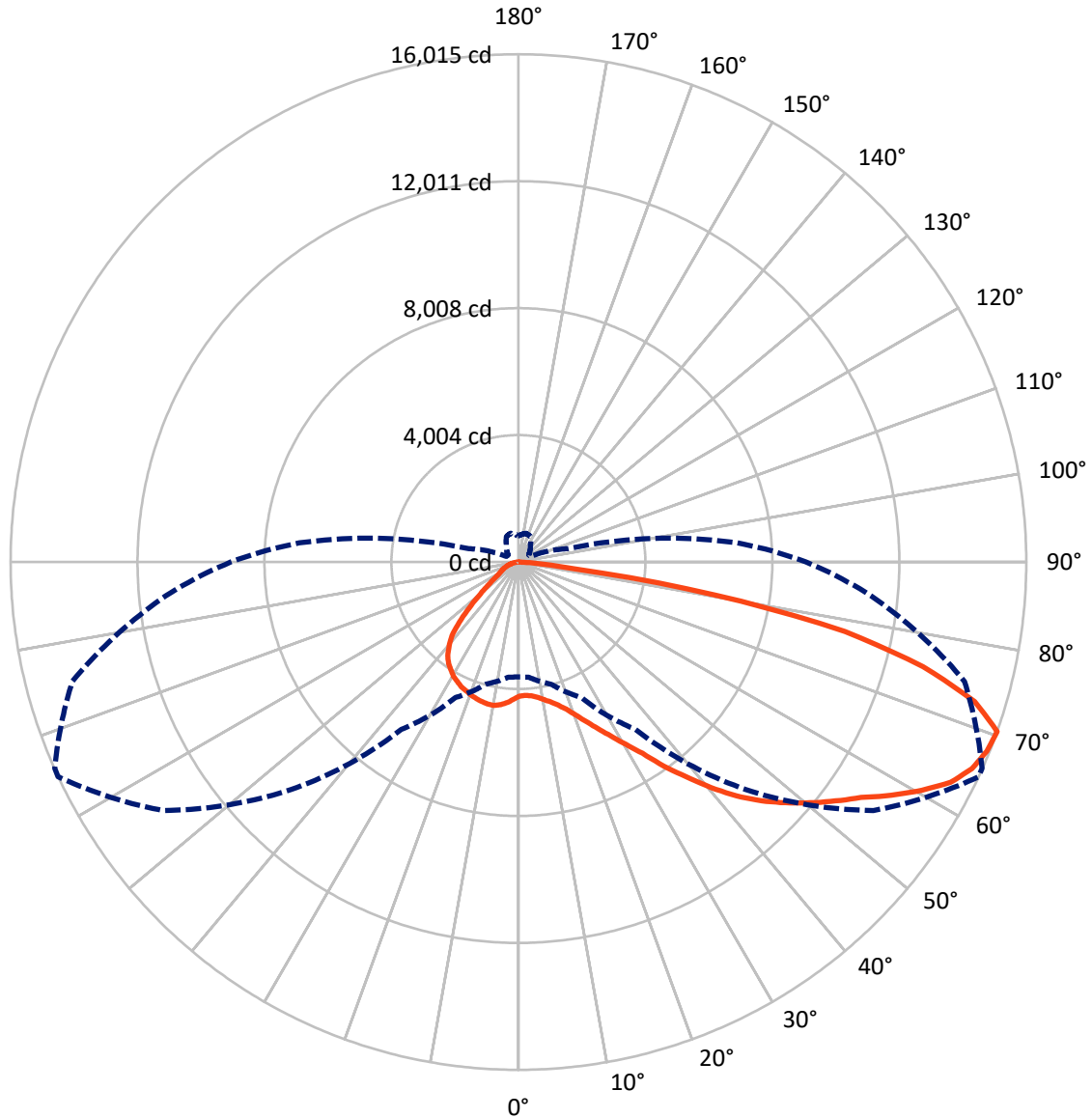
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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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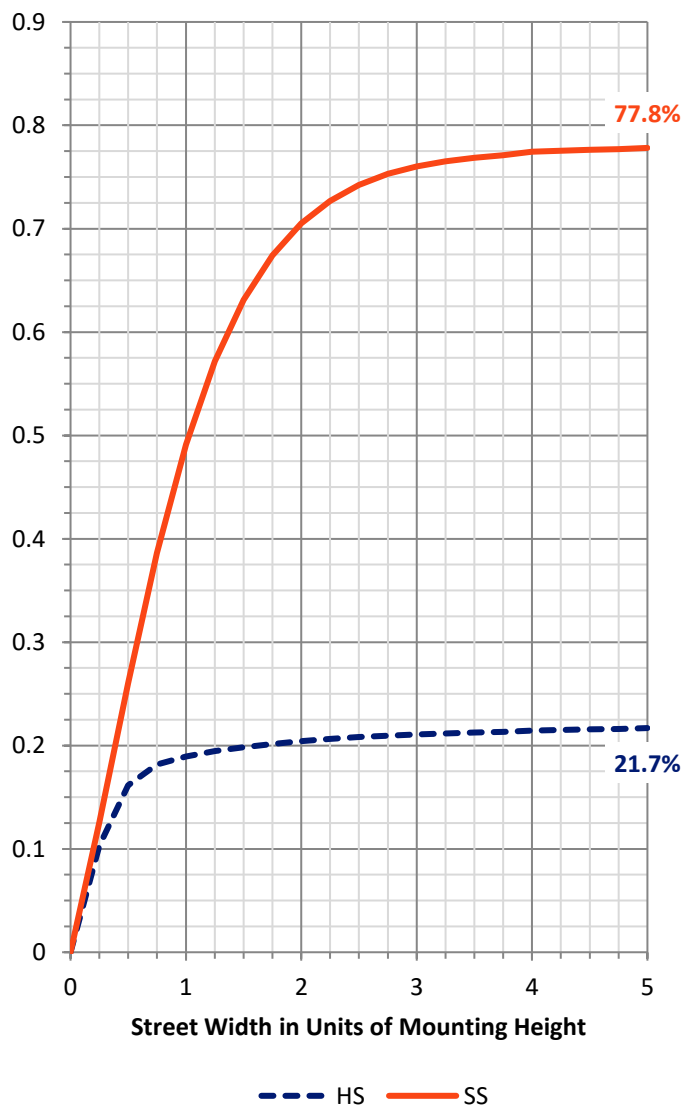
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6112.1	0.0	6112.1
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	21595.9	0.0	21595.9
	% Fixture	77.9	0.0	77.9
Total	Lumens	27708.0	0.0	27708.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.4	1.5
10°-20°	1341.2	4.8
20°-30°	2326.8	8.4
30°-40°	3383.0	12.2
40°-50°	4519.8	16.3
50°-60°	5505.5	19.9
60°-70°	5935.0	21.4
70°-80°	3847.9	13.9
80°-90°	424.4	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°	27708.0	100.0
0°-180°	27708.0	100.0

Coefficient of Utilization



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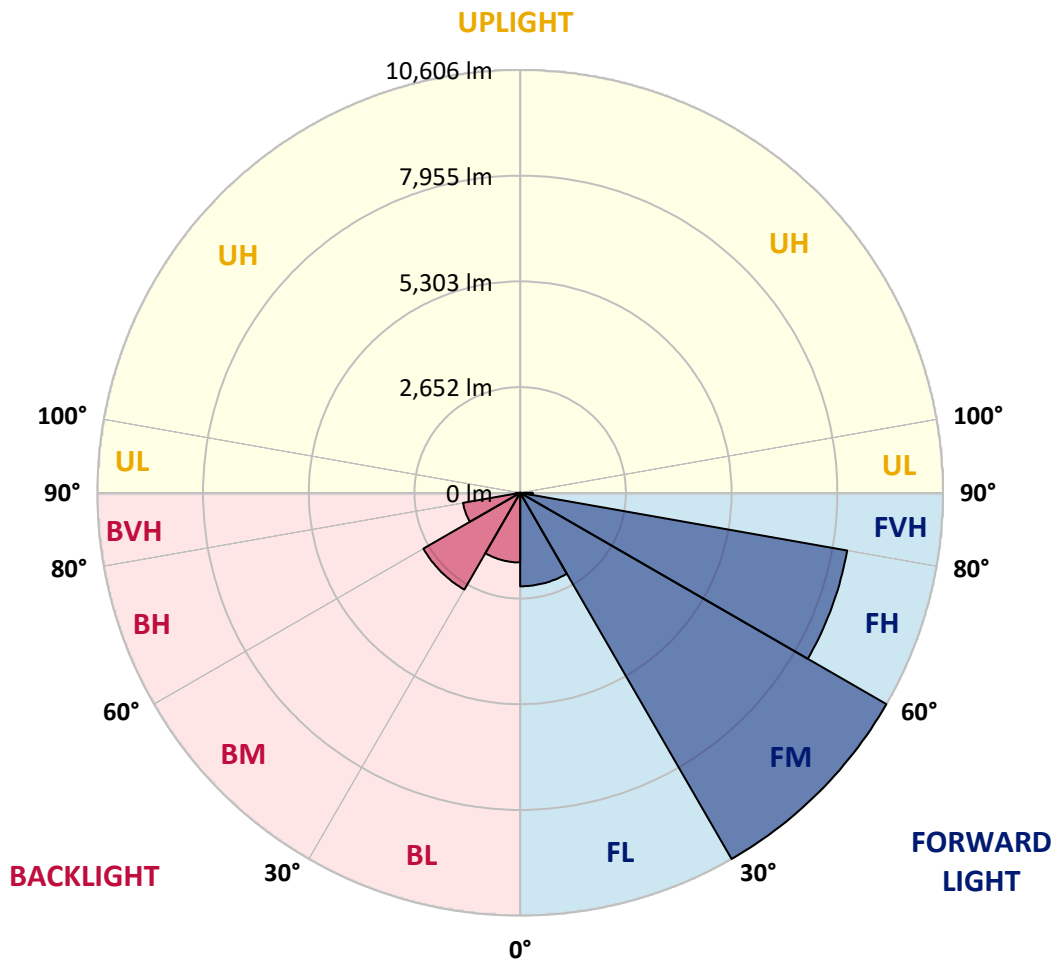
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2344.9	8.5			
FM (30°-60°)	10606.1	38.3			
FH (60°-80°)	8328.3	30.1			G4/12000
FVH (80°-90°)	316.5	1.1			G3/500
BL (0°-30°)	1747.4	6.3	B3/2500		
BM (30°-60°)	2802.2	10.1	B3/5000		
BH (60°-80°)	1454.6	5.2	B3/2500		G3/2500
BVH (80°-90°)	107.9	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°	4230.2	4230.2	4230.2	4230.2	4230.2	4230.2	4230.2	4230.2	4230.2	4230.2	4230.2
2.5°	4167.8	4205.2	4185.2	4186.5	4215.2	4191.5	4207.7	4207.7	4206.5	4215.2	4241.5
5°	4270.2	4310.2	4286.4	4271.4	4277.7	4247.7	4241.5	4236.5	4232.7	4242.7	4286.4
7.5°	4420.1	4466.3	4440.1	4426.4	4418.9	4350.2	4337.7	4303.9	4300.2	4308.9	4348.9
10°	4618.8	4681.2	4650.0	4611.3	4585.0	4505.1	4441.4	4411.4	4402.6	4397.6	4438.9
12.5°	4904.9	4959.8	4923.6	4851.1	4816.2	4687.5	4611.3	4526.3	4525.1	4507.6	4538.8
15°	5176.0	5233.4	5187.2	5116.0	5069.8	4896.1	4783.7	4678.7	4666.2	4646.2	4656.2
17.5°	5438.3	5508.3	5475.8	5410.8	5354.6	5161.0	5013.5	4878.6	4864.9	4833.6	4787.4
20°	5764.4	5828.1	5819.4	5760.6	5698.2	5478.3	5317.1	5143.5	5128.5	5072.3	4968.6
22.5°	6090.5	6169.2	6120.5	6110.5	6075.5	5856.8	5632.0	5455.8	5440.8	5367.1	5177.2
25°	6397.8	6467.8	6485.3	6469.0	6472.8	6256.6	6033.0	5811.9	5796.9	5696.9	5422.1
27.5°	6761.4	6827.6	6832.6	6836.3	6880.0	6700.1	6437.8	6210.4	6200.4	6088.0	5739.4
30°	7040.0	7149.9	7172.4	7193.6	7216.1	7119.9	6881.3	6668.9	6648.9	6526.5	6096.7
32.5°	7294.8	7377.3	7457.2	7501.0	7602.2	7515.9	7319.8	7188.6	7189.9	7132.4	6666.4
35°	7492.2	7583.4	7684.6	7844.5	7991.9	7955.7	7894.5	7902.0	7903.2	7928.2	7434.7
37.5°	7680.9	7763.3	7890.7	8081.9	8341.8	8389.2	8430.5	8586.6	8641.6	8759.0	8144.4
40°	7794.5	7882.0	8046.9	8311.8	8649.1	8820.2	8945.2	9346.2	9441.2	9442.4	8692.8
42.5°	7628.4	7724.6	8019.4	8490.4	8926.4	9246.3	9574.8	10080.8	10149.5	9995.9	9161.3
45°	7479.7	7568.4	7885.8	8517.9	9143.8	9701.0	10158.3	10744.2	10794.2	10484.4	9593.6
47.5°	7336.0	7406.0	7773.3	8460.4	9366.2	10157.0	10655.5	11343.9	11380.1	11019.1	10015.9
50°	7137.4	7221.1	7610.9	8393.0	9499.9	10548.1	11142.7	11936.1	11931.1	11500.1	10398.1
52.5°	6920.0	7002.5	7421.0	8269.3	9587.3	10851.7	11697.4	12515.8	12519.5	12052.3	10776.7
55°	6646.4	6747.6	7188.6	8101.9	9608.6	11090.3	12178.4	13110.4	13171.7	12615.7	11141.5
57.5°	6319.1	6420.3	6902.5	7857.0	9482.4	11290.2	12691.9	13870.0	13902.5	13191.6	11413.8
60°	5938.1	6060.5	6521.5	7529.7	9241.3	11522.5	13314.1	14614.6	14625.9	13706.4	11641.2
62.5°	5497.0	5584.5	6069.2	7054.9	8856.5	11615.0	13828.8	15298.0	15300.5	14094.9	11743.7
65°	5019.8	5053.5	5459.6	6409.0	8295.5	11463.8	14026.2	15714.0	15702.8	14436.0	11692.4
67.5°	4451.4	4435.1	4868.6	5610.7	7585.9	10960.3	13930.0	15927.7	15961.4	14698.3	11527.5
70°	3619.3	3643.0	3987.9	4717.5	6440.3	10152.0	13665.1	16015.1	16006.4	14567.2	10996.6
72.5°	2747.3	2789.7	3039.6	3586.8	4998.6	8537.9	12530.7	15048.1	15065.6	13642.6	10040.8
75°	1699.1	1821.5	2032.7	2366.2	3132.1	6116.7	10665.5	13181.6	13270.3	12037.3	8268.0
77.5°	744.6	773.3	879.5	1140.6	1637.9	3070.8	7884.5	10526.8	10789.2	9734.8	5964.3
80°	461.0	461.0	491.0	572.2	730.9	1141.9	3159.5	6285.4	6019.3	5568.2	2631.1
82.5°	383.5	383.5	398.5	412.3	374.8	483.5	1056.9	1761.6	1887.7	1527.9	808.3
85°	208.6	213.6	214.9	218.6	214.9	261.1	416.0	521.0	527.2	477.2	287.3
87.5°	76.2	81.2	78.7	73.7	66.2	62.5	80.0	81.2	83.7	77.5	42.5
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°	4230.2	4230.2	4230.2	4230.2	4230.2	4230.2	4230.2	4230.2	4230.2	4230.2	4230.2
2.5°	4259.0	4276.4	4322.7	4326.4	4343.9	4350.2	4365.1	4386.4	4423.9	4405.1	4383.9
5°	4307.7	4330.2	4403.9	4441.4	4490.1	4518.8	4566.3	4590.0	4647.5	4628.8	4626.3
7.5°	4381.4	4428.9	4495.1	4531.3	4595.0	4613.8	4648.7	4648.7	4696.2	4672.5	4666.2
10°	4481.3	4512.6	4582.5	4585.0	4621.3	4621.3	4662.5	4636.3	4682.5	4655.0	4653.7
12.5°	4561.3	4578.8	4605.0	4583.8	4602.5	4581.3	4602.5	4571.3	4600.0	4565.0	4557.5
15°	4651.2	4627.5	4601.3	4551.3	4535.1	4501.3	4483.8	4451.4	4453.8	4413.9	4407.6
17.5°	4752.4	4691.2	4615.0	4506.3	4446.4	4360.2	4323.9	4277.7	4251.5	4215.2	4231.5
20°	4874.9	4783.7	4625.0	4456.3	4328.9	4197.7	4112.8	4037.8	4031.6	3999.1	3981.6
22.5°	5033.5	4887.4	4668.7	4385.1	4180.2	3992.8	3866.7	3741.7	3729.2	3663.0	3638.0
25°	5229.7	5024.8	4691.2	4330.2	4006.6	3749.2	3550.6	3376.9	3293.2	3223.3	3207.0
27.5°	5493.3	5227.2	4736.2	4231.5	3801.7	3446.9	3162.0	2932.2	2832.2	2797.2	2761.0
30°	5801.9	5474.5	4819.9	4149.0	3559.3	3060.9	2713.5	2439.9	2331.2	2276.3	2258.8
32.5°	6256.6	5786.9	4897.4	4012.8	3265.7	2636.1	2183.8	1881.5	1815.3	1805.3	1829.0
35°	6918.8	6374.1	5009.8	3886.7	2920.9	2163.8	1664.1	1466.7	1453.0	1455.5	1455.5
37.5°	7608.4	6933.8	5343.4	3700.5	2498.7	1629.1	1266.8	1159.4	1164.4	1164.4	1163.1
40°	8058.2	7383.5	5585.7	3436.9	1973.9	1168.1	939.5	858.3	893.3	940.7	965.7
42.5°	8554.1	7792.1	5753.1	3133.3	1373.0	825.8	683.4	712.1	814.6	887.0	897.0
45°	8976.4	8139.4	5771.9	2661.1	884.5	627.2	623.4	705.9	824.6	903.3	909.5
47.5°	9338.7	8455.4	5654.5	2121.4	644.7	585.9	623.4	727.1	834.6	883.3	888.3
50°	9689.8	8706.6	5378.4	1630.4	587.2	570.9	630.9	730.9	798.3	832.1	827.1
52.5°	10002.1	8935.2	4978.6	1271.8	564.7	560.9	637.2	727.1	769.6	767.1	763.3
55°	10239.5	9002.6	4666.2	992.0	546.0	554.7	640.9	730.9	762.1	739.6	734.6
57.5°	10361.9	8918.9	4403.9	788.3	526.0	548.5	650.9	729.6	784.6	827.1	824.6
60°	10359.4	8824.0	4080.3	679.6	506.0	543.5	667.1	792.1	990.7	1030.7	1031.9
62.5°	10319.4	8661.6	3636.8	614.7	483.5	546.0	678.4	899.5	1128.1	1095.7	1069.4
65°	10187.0	8356.7	3042.1	544.7	454.8	548.5	673.4	973.2	1034.4	918.3	902.0
67.5°	9818.5	7767.1	2388.7	487.2	428.5	534.7	682.1	904.5	950.7	877.0	853.3
70°	9070.1	6936.3	1619.1	419.8	398.5	514.7	662.1	889.5	938.2	863.3	828.3
72.5°	7884.5	5567.0	947.0	361.1	354.8	473.5	652.1	899.5	953.2	869.5	824.6
75°	6136.7	3902.9	547.2	292.3	296.1	437.3	598.4	848.3	944.5	879.5	820.8
77.5°	3961.6	1895.2	386.0	233.6	231.1	344.8	486.0	742.1	909.5	888.3	839.5
80°	1418.0	692.1	271.1	173.7	168.7	233.6	373.5	597.2	769.6	797.1	797.1
82.5°	509.7	347.3	173.7	106.2	104.9	148.7	278.6	453.5	558.4	629.7	647.2
85°	213.6	151.2	85.0	53.7	43.7	57.5	143.7	281.1	378.5	407.3	443.5
87.5°	31.2	27.5	22.5	17.5	15.0	15.0	18.7	81.2	134.9	193.6	239.9
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)