

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: P510343

Luminaire Tested: **VERD-M-CA4-250-760-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510343
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-CA4-250-760-U-T3
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 5700K, 1130mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34527 lumens
Efficiency: N/A
Efficacy: 137.2 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

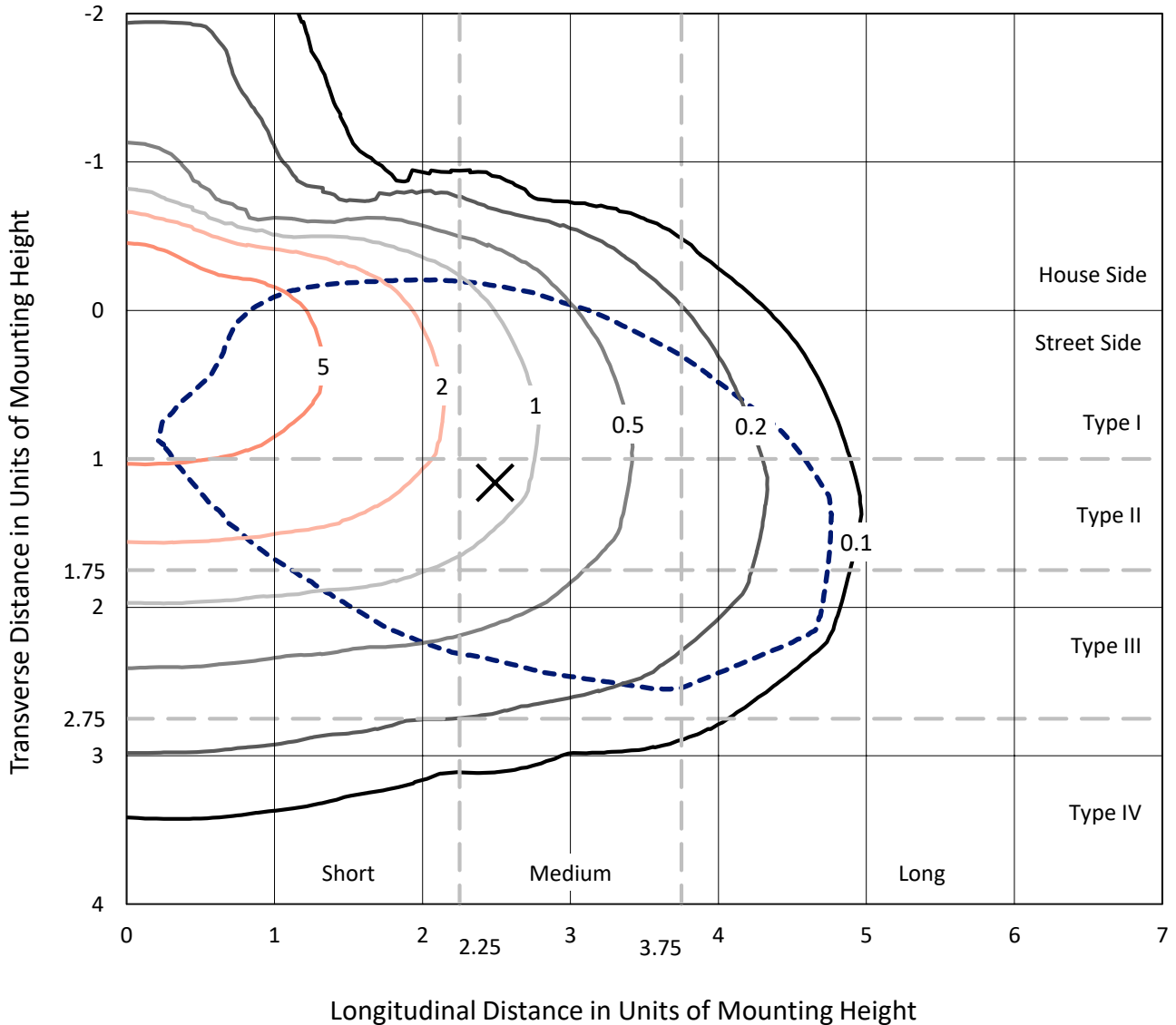
Input Watts (W): 251.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

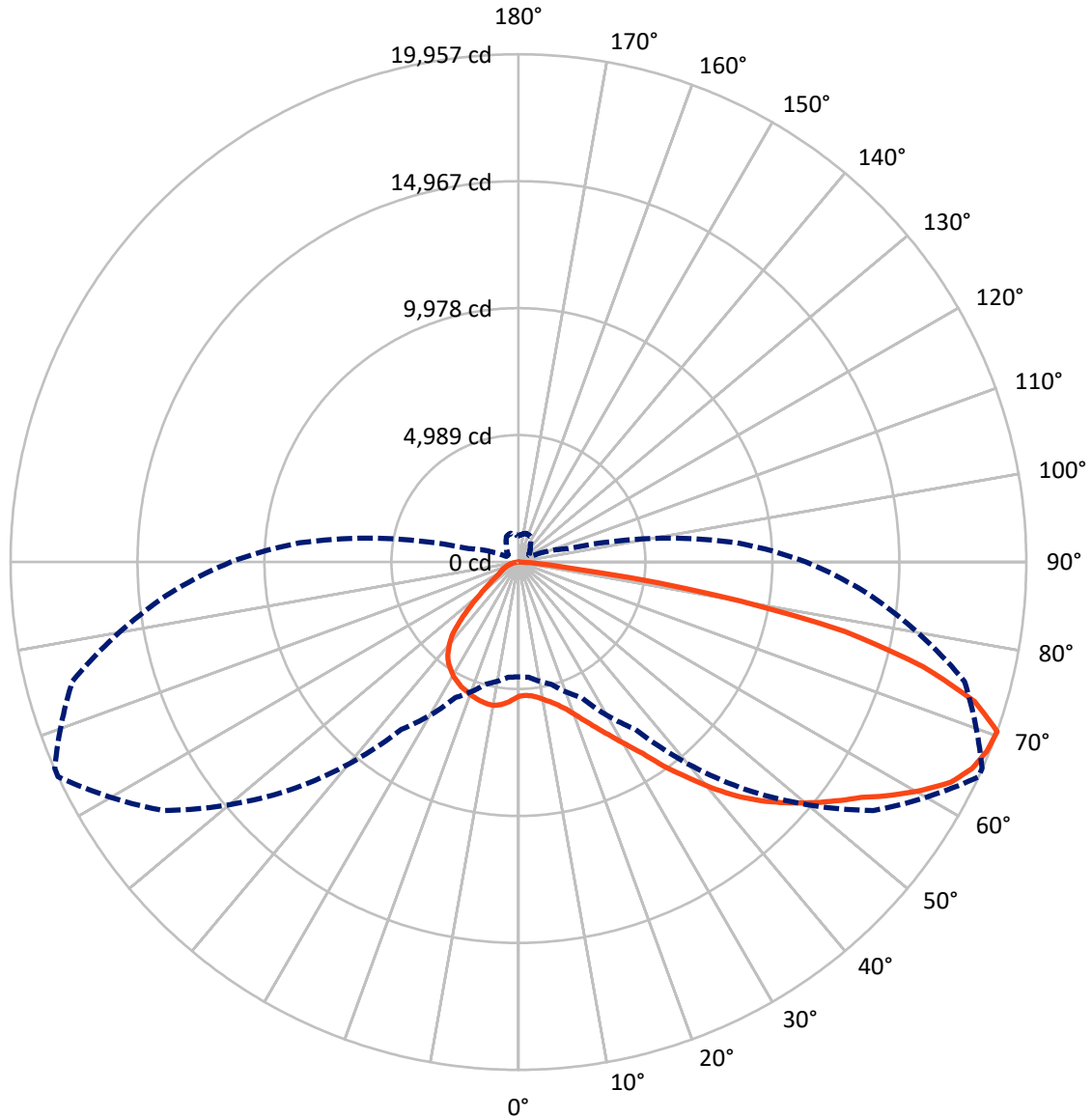
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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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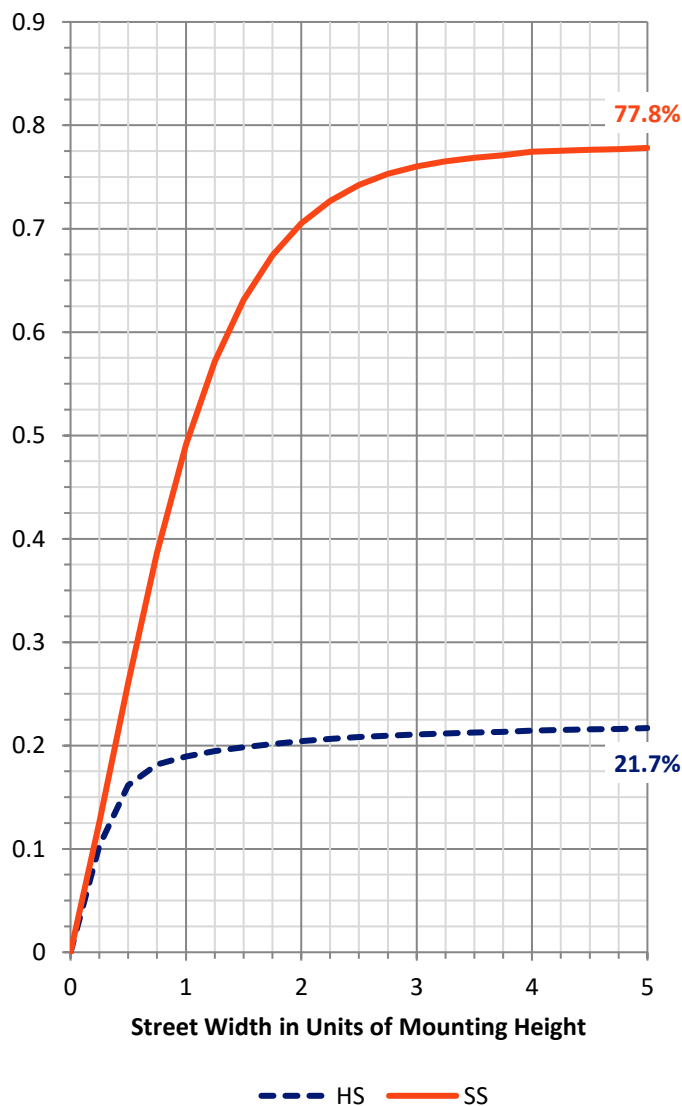
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7616.3	0.0	7616.3
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	26910.7	0.0	26910.7
	% Fixture	77.9	0.0	77.9
Total	Lumens	34527.0	0.0	34527.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	528.8	1.5
10°-20°	1671.3	4.8
20°-30°	2899.4	8.4
30°-40°	4215.6	12.2
40°-50°	5632.1	16.3
50°-60°	6860.4	19.9
60°-70°	7395.7	21.4
70°-80°	4794.9	13.9
80°-90°	528.8	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°	34527.0	100.0
0°-180°	34527.0	100.0

Coefficient of Utilization



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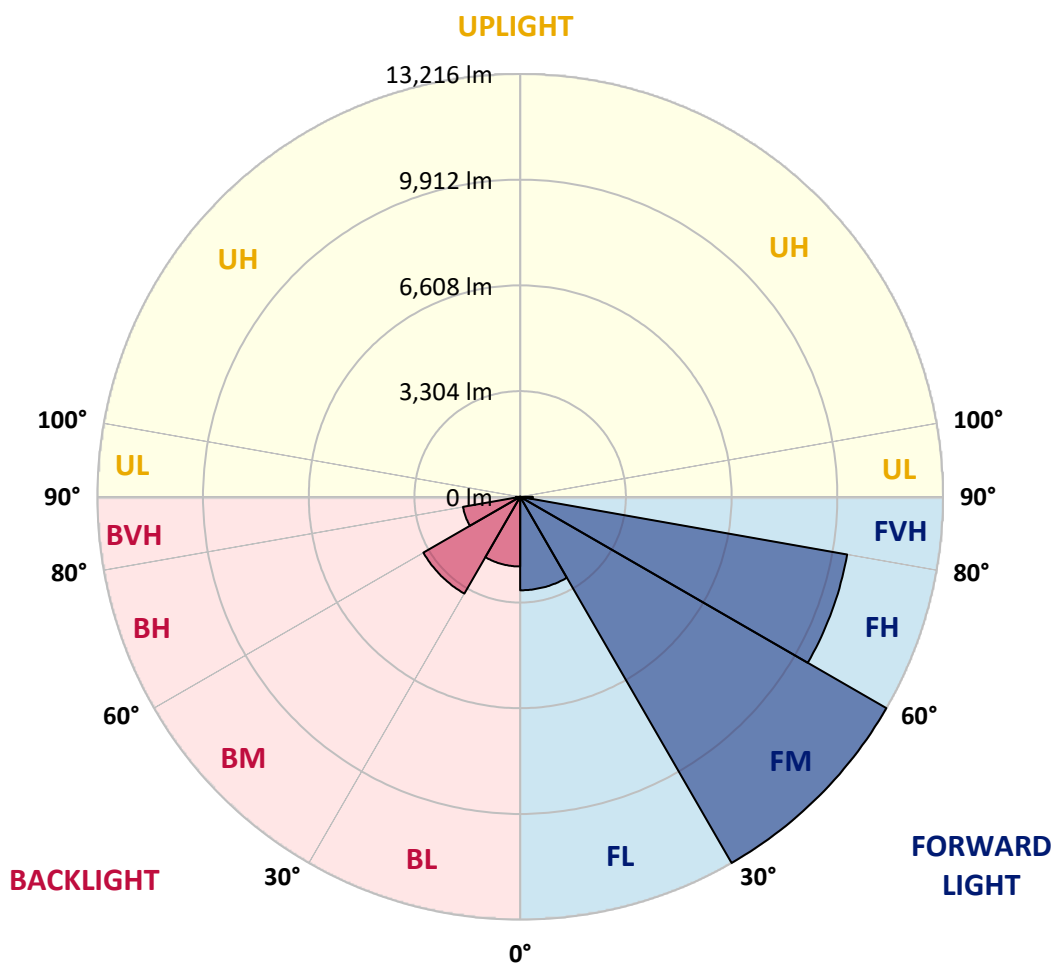
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2922.0	8.5			
FM (30°-60°)	13216.3	38.3			
FH (60°-80°)	10378.0	30.1			G4/12000
FVH (80°-90°)	394.4	1.1			G3/500
BL (0°-30°)	2177.5	6.3	B3/2500		
BM (30°-60°)	3491.8	10.1	B3/5000		
BH (60°-80°)	1812.6	5.2	B3/2500		G3/2500
BVH (80°-90°)	134.4	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°	5271.3	5271.3	5271.3	5271.3	5271.3	5271.3	5271.3	5271.3	5271.3	5271.3	5271.3
2.5°	5193.4	5240.2	5215.2	5216.8	5252.6	5223.0	5243.3	5243.3	5241.7	5252.6	5285.3
5°	5321.1	5370.9	5341.3	5322.7	5330.4	5293.1	5285.3	5279.1	5274.4	5286.9	5341.3
7.5°	5507.9	5565.5	5532.8	5515.7	5506.4	5420.7	5405.2	5363.1	5358.5	5369.4	5419.2
10°	5755.4	5833.3	5794.4	5746.1	5713.4	5613.8	5534.4	5497.0	5486.1	5479.9	5531.3
12.5°	6112.0	6180.5	6135.3	6045.0	6001.4	5841.1	5746.1	5640.2	5638.7	5616.9	5655.8
15°	6449.8	6521.4	6463.8	6375.1	6317.4	6101.1	5960.9	5830.2	5814.6	5789.7	5802.2
17.5°	6776.7	6863.9	6823.4	6742.5	6672.4	6431.1	6247.4	6079.3	6062.1	6023.2	5965.6
20°	7183.0	7262.4	7251.5	7178.4	7100.5	6826.5	6625.7	6409.3	6390.6	6320.6	6191.3
22.5°	7589.3	7687.4	7626.7	7614.3	7570.7	7298.2	7018.0	6798.5	6779.8	6688.0	6451.3
25°	7972.3	8059.5	8081.3	8061.1	8065.7	7796.4	7517.7	7242.2	7223.5	7099.0	6756.5
27.5°	8425.3	8507.9	8514.1	8518.7	8573.2	8349.1	8022.1	7738.8	7726.3	7586.2	7151.9
30°	8772.5	8909.5	8937.5	8964.0	8992.0	8872.1	8574.8	8310.1	8285.2	8132.7	7597.1
32.5°	9090.1	9192.8	9292.5	9347.0	9473.1	9365.6	9121.2	8957.8	8959.3	8887.7	8307.0
35°	9336.1	9449.7	9575.8	9775.1	9958.8	9913.6	9837.3	9846.7	9848.2	9879.4	9264.5
37.5°	9571.1	9673.9	9832.7	10070.9	10394.7	10453.8	10505.2	10699.8	10768.3	10914.6	10148.7
40°	9712.8	9821.8	10027.3	10357.3	10777.6	10990.9	11146.6	11646.3	11764.7	11766.2	10832.1
42.5°	9505.8	9625.6	9993.0	10579.9	11123.3	11521.8	11931.2	12561.7	12647.4	12455.9	11415.9
45°	9320.5	9431.0	9826.5	10614.2	11394.1	12088.5	12658.3	13388.4	13450.7	13064.6	11954.6
47.5°	9141.5	9228.6	9686.3	10542.6	11671.2	12656.7	13277.9	14135.6	14180.8	13730.9	12480.8
50°	8893.9	8998.2	9484.0	10458.5	11837.8	13144.0	13885.0	14873.6	14867.3	14330.2	12957.2
52.5°	8623.1	8725.8	9247.3	10304.4	11946.8	13522.3	14576.2	15595.9	15600.6	15018.3	13428.9
55°	8282.1	8408.2	8957.8	10095.8	11973.3	13819.6	15175.6	16336.9	16413.2	15720.5	13883.4
57.5°	7874.2	8000.3	8601.3	9790.6	11816.0	14068.7	15815.4	17283.5	17323.9	16438.1	14222.8
60°	7399.4	7552.0	8126.4	9382.8	11515.6	14358.3	16590.7	18211.3	18225.3	17079.5	14506.2
62.5°	6849.9	6958.8	7562.9	8791.2	11036.1	14473.5	17232.1	19062.9	19066.0	17563.7	14633.8
65°	6255.2	6297.2	6803.2	7986.3	10337.1	14285.1	17478.1	19581.3	19567.3	17988.7	14570.0
67.5°	5546.8	5526.6	6066.8	6991.5	9452.8	13657.7	17358.2	19847.5	19889.5	18315.6	14364.5
70°	4510.0	4539.6	4969.3	5878.4	8025.2	12650.5	17028.2	19956.5	19945.6	18152.2	13702.9
72.5°	3423.4	3476.3	3787.7	4469.5	6228.7	10639.1	15614.6	18751.5	18773.3	17000.1	12511.9
75°	2117.2	2269.8	2532.9	2948.6	3902.9	7622.0	13290.3	16425.7	16536.2	14999.7	10302.8
77.5°	927.8	963.7	1096.0	1421.3	2041.0	3826.6	9824.9	13117.5	13444.4	12130.5	7432.1
80°	574.5	574.5	611.8	713.0	910.7	1422.9	3937.1	7832.2	7500.6	6938.6	3278.6
82.5°	477.9	477.9	496.6	513.7	467.0	602.5	1317.0	2195.1	2352.3	1904.0	1007.2
85°	260.0	266.2	267.8	272.4	267.8	325.4	518.4	649.2	657.0	594.7	358.1
87.5°	95.0	101.2	98.1	91.9	82.5	77.8	99.6	101.2	104.3	96.5	52.9
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°	5271.3	5271.3	5271.3	5271.3	5271.3	5271.3	5271.3	5271.3	5271.3	5271.3	5271.3
2.5°	5307.1	5328.9	5386.5	5391.2	5413.0	5420.7	5439.4	5465.9	5512.6	5489.2	5462.8
5°	5367.8	5395.8	5487.7	5534.4	5595.1	5630.9	5690.1	5719.6	5791.3	5767.9	5764.8
7.5°	5459.7	5518.8	5601.3	5646.5	5725.9	5749.2	5792.8	5792.8	5852.0	5822.4	5814.6
10°	5584.2	5623.1	5710.3	5713.4	5758.6	5758.6	5809.9	5777.2	5834.8	5800.6	5799.0
12.5°	5683.8	5705.6	5738.3	5711.9	5735.2	5708.7	5735.2	5696.3	5732.1	5688.5	5679.2
15°	5795.9	5766.3	5733.7	5671.4	5651.1	5609.1	5587.3	5546.8	5550.0	5500.1	5492.4
17.5°	5922.0	5845.7	5750.8	5615.3	5540.6	5433.2	5388.0	5330.4	5297.8	5252.6	5272.8
20°	6074.6	5960.9	5763.2	5553.1	5394.3	5230.8	5124.9	5031.5	5023.8	4983.3	4961.5
22.5°	6272.3	6090.2	5817.7	5464.3	5209.0	4975.5	4818.3	4662.6	4647.0	4564.5	4533.4
25°	6516.7	6261.4	5845.7	5395.8	4992.6	4671.9	4424.4	4208.0	4103.7	4016.5	3996.3
27.5°	6845.2	6513.6	5901.8	5272.8	4737.3	4295.2	3940.2	3653.8	3529.2	3485.7	3440.5
30°	7229.7	6821.8	6006.1	5170.1	4435.3	3814.1	3381.3	3040.4	2905.0	2836.5	2814.7
32.5°	7796.4	7211.0	6102.6	5000.4	4069.4	3284.8	2721.3	2344.5	2262.0	2249.6	2279.1
35°	8621.5	7942.7	6242.7	4843.2	3639.8	2696.4	2073.6	1827.7	1810.5	1813.7	1813.7
37.5°	9480.8	8640.2	6658.4	4611.2	3113.6	2030.1	1578.6	1444.7	1450.9	1450.9	1449.4
40°	10041.3	9200.6	6960.4	4282.7	2459.7	1455.6	1170.7	1069.5	1113.1	1172.3	1203.4
42.5°	10659.3	9709.7	7169.0	3904.4	1710.9	1029.0	851.6	887.4	1015.0	1105.3	1117.8
45°	11185.5	10142.5	7192.4	3316.0	1102.2	781.5	776.8	879.6	1027.5	1125.6	1133.3
47.5°	11637.0	10536.3	7046.0	2643.4	803.3	730.1	776.8	906.1	1039.9	1100.6	1106.9
50°	12074.5	10849.3	6702.0	2031.6	731.7	711.5	786.2	910.7	994.8	1036.8	1030.6
52.5°	12463.7	11134.2	6203.8	1584.8	703.7	699.0	794.0	906.1	959.0	955.9	951.2
55°	12759.4	11218.2	5814.6	1236.1	680.3	691.2	798.6	910.7	949.6	921.6	915.4
57.5°	12912.0	11113.9	5487.7	982.3	655.4	683.4	811.1	909.2	977.7	1030.6	1027.5
60°	12908.9	10995.6	5084.5	846.9	630.5	677.2	831.3	987.0	1234.5	1284.4	1285.9
62.5°	12859.1	10793.2	4531.8	765.9	602.5	680.3	845.3	1120.9	1405.8	1365.3	1332.6
65°	12694.1	10413.4	3790.8	678.8	566.7	683.4	839.1	1212.7	1289.0	1144.2	1124.0
67.5°	12234.8	9678.6	2976.6	607.1	534.0	666.3	850.0	1127.1	1184.7	1092.9	1063.3
70°	11302.3	8643.3	2017.6	523.1	496.6	641.4	825.1	1108.4	1169.1	1075.7	1032.2
72.5°	9824.9	6937.1	1180.0	449.9	442.1	590.0	812.6	1120.9	1187.8	1083.5	1027.5
75°	7646.9	4863.4	681.9	364.3	369.0	544.9	745.7	1057.1	1176.9	1096.0	1022.8
77.5°	4936.6	2361.6	481.0	291.1	288.0	429.7	605.6	924.7	1133.3	1106.9	1046.2
80°	1767.0	862.5	337.8	216.4	210.2	291.1	465.5	744.1	959.0	993.2	993.2
82.5°	635.2	432.8	216.4	132.3	130.8	185.3	347.2	565.1	695.9	784.6	806.4
85°	266.2	188.4	105.9	66.9	54.5	71.6	179.0	350.3	471.7	507.5	552.7
87.5°	38.9	34.2	28.0	21.8	18.7	18.7	23.4	101.2	168.1	241.3	298.9
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)