

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: P510087

Luminaire Tested: **VERD-M-CA4-200-740-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510087
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-CA4-200-740-U-T3
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 4000K, 910mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28830 lumens
Efficiency: N/A
Efficacy: 142.9 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

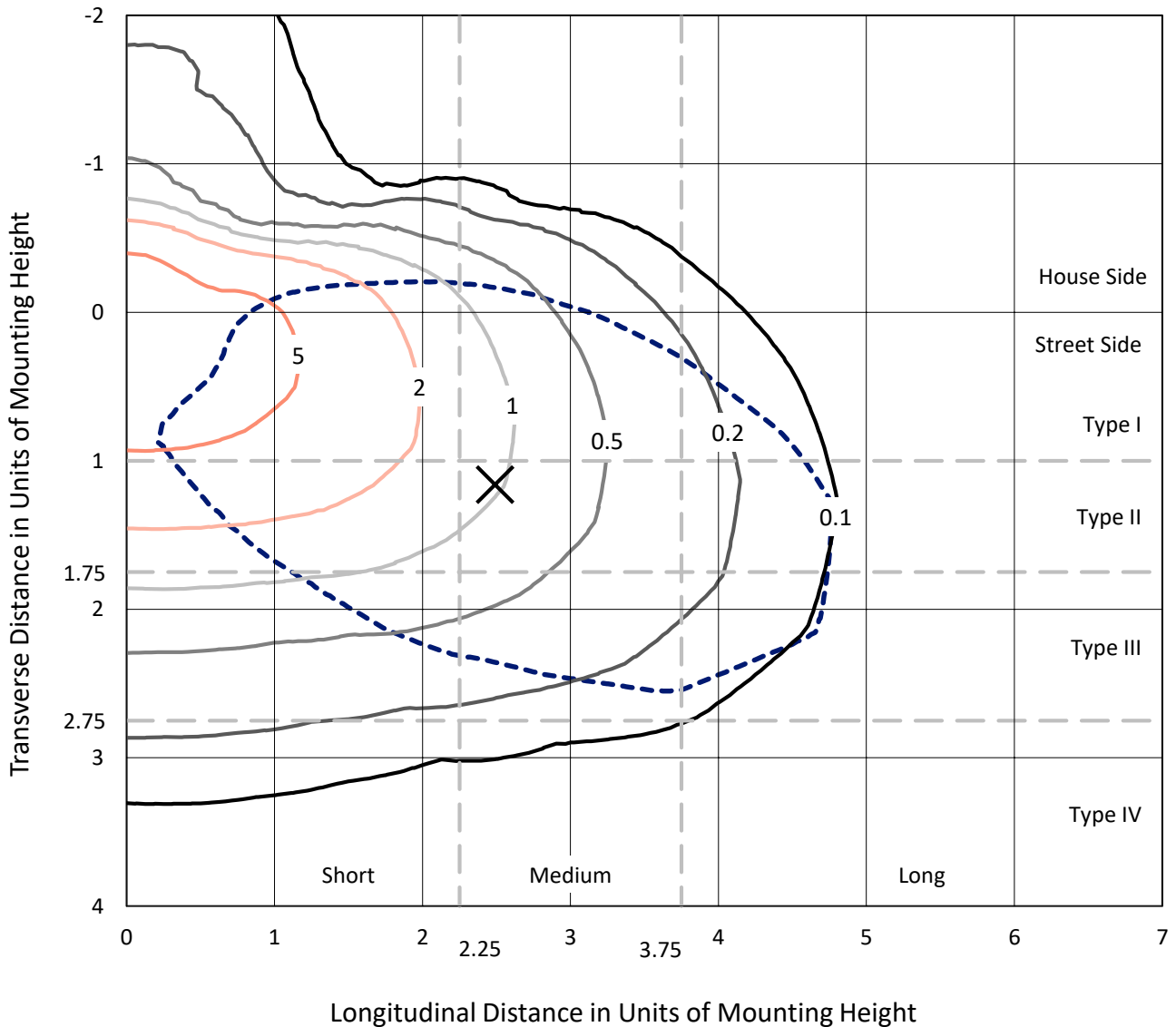
Input Watts (W): 201.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

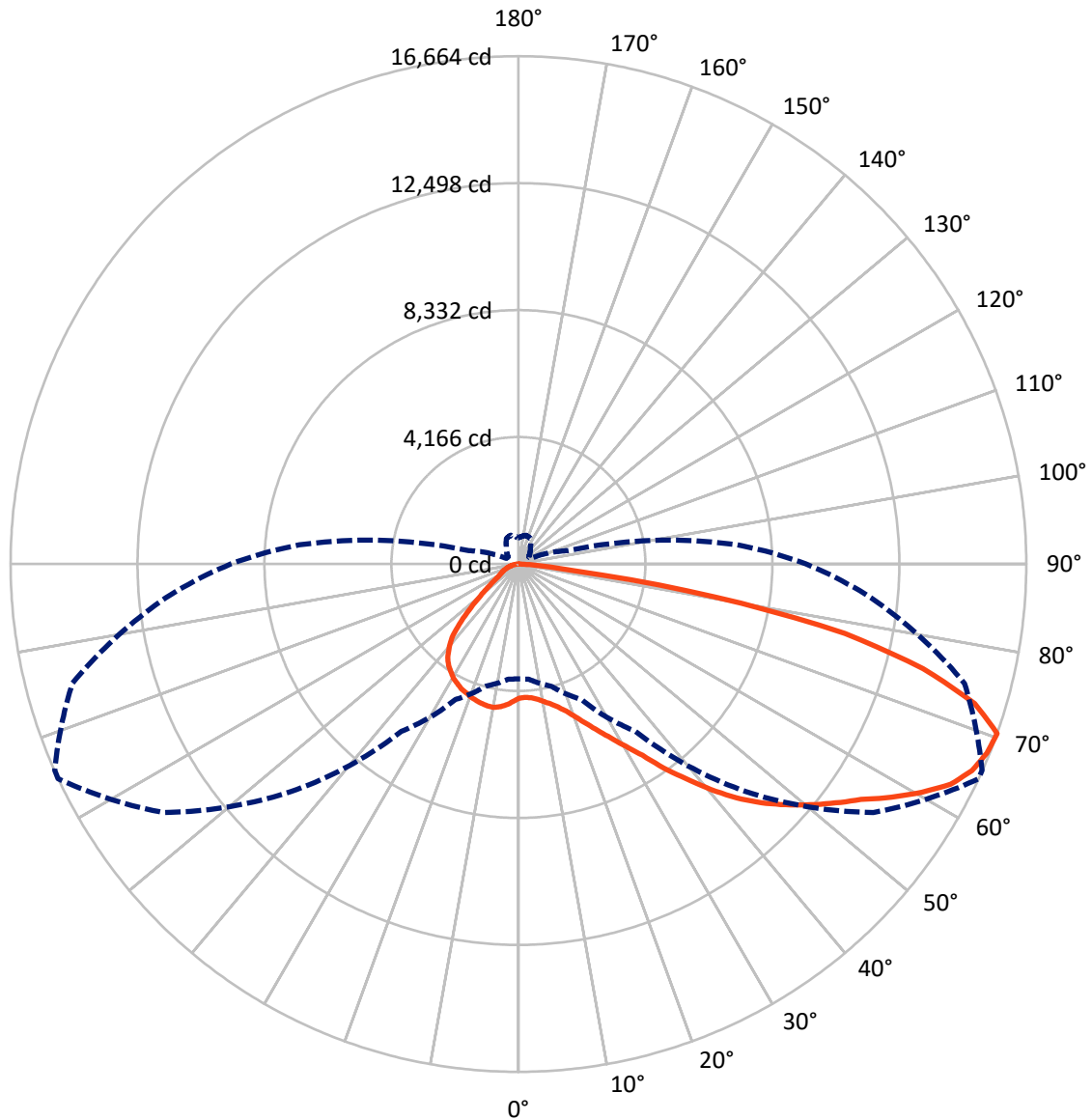
✕ Max cd
 - - - 1/2 Max cd



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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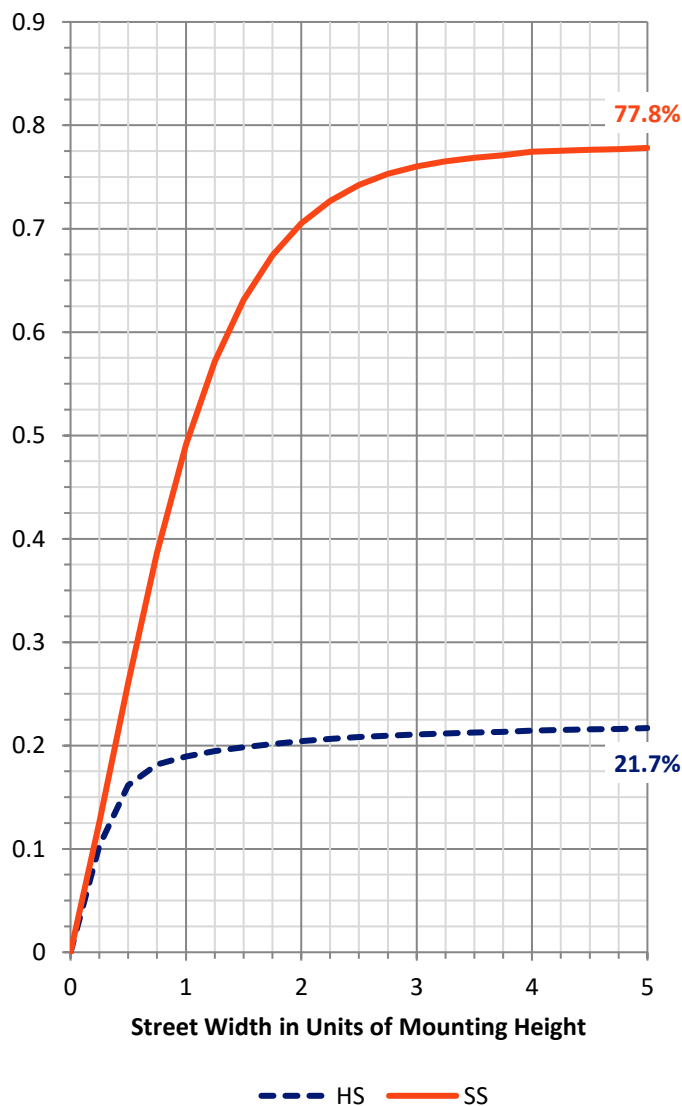
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6359.6	0.0	6359.6
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	22470.4	0.0	22470.4
	% Fixture	77.9	0.0	77.9
Total	Lumens	28830.0	0.0	28830.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	441.5	1.5
10°-20°	1395.5	4.8
20°-30°	2421.0	8.4
30°-40°	3520.0	12.2
40°-50°	4702.8	16.3
50°-60°	5728.4	19.9
60°-70°	6175.4	21.4
70°-80°	4003.7	13.9
80°-90°	441.6	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°	28830.0	100.0
0°-180°	28830.0	100.0

Coefficient of Utilization



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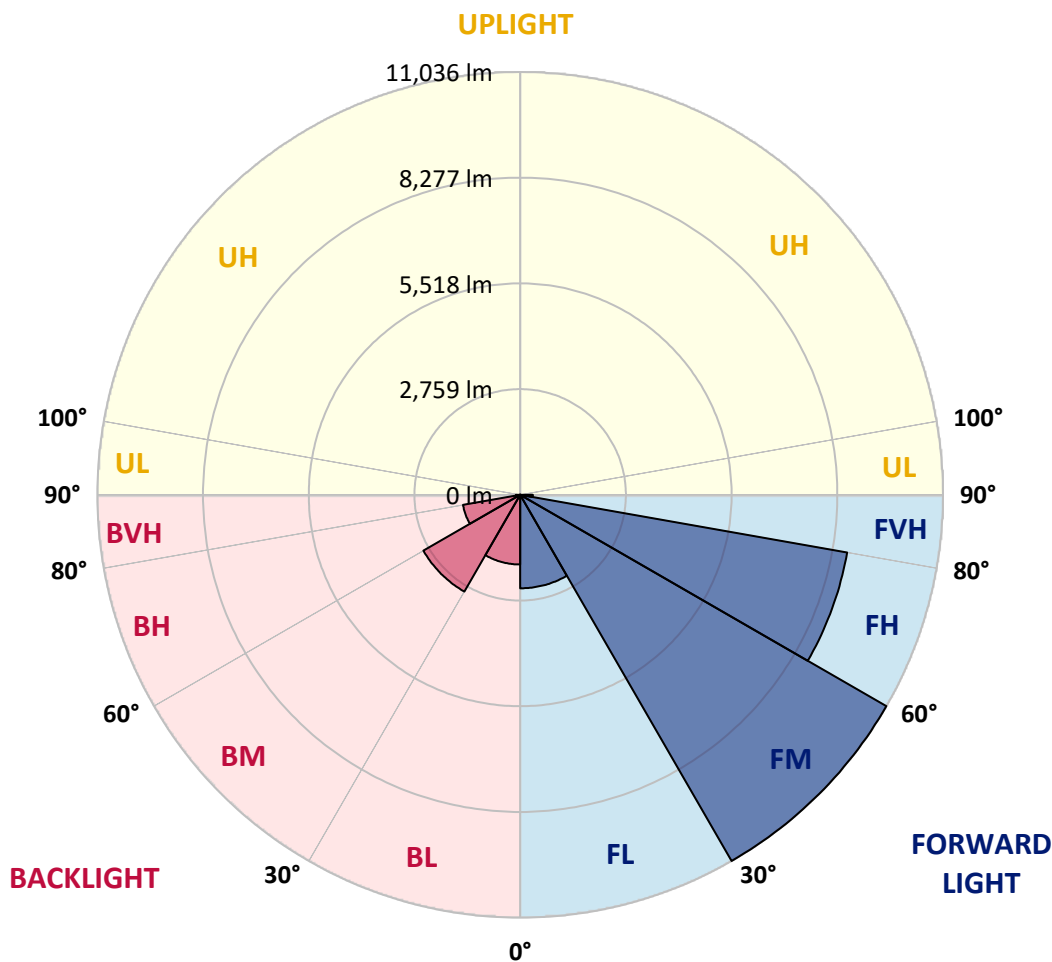
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2439.8	8.5			
FM (30°-60°)	11035.6	38.3			
FH (60°-80°)	8665.6	30.1			G4/12000
FVH (80°-90°)	329.3	1.1			G3/500
BL (0°-30°)	1818.2	6.3	B3/2500		
BM (30°-60°)	2915.7	10.1	B3/5000		
BH (60°-80°)	1513.5	5.2	B3/2500		G3/2500
BVH (80°-90°)	112.2	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°	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5
2.5°	4336.5	4375.5	4354.7	4356.0	4385.9	4361.2	4378.1	4378.1	4376.8	4385.9	4413.2
5°	4443.1	4484.7	4460.0	4444.4	4450.9	4419.7	4413.2	4408.0	4404.1	4414.5	4460.0
7.5°	4599.1	4647.2	4619.9	4605.6	4597.8	4526.3	4513.3	4478.2	4474.3	4483.4	4525.0
10°	4805.8	4870.8	4838.3	4798.0	4770.7	4687.5	4621.2	4590.0	4580.9	4575.7	4618.6
12.5°	5103.5	5160.7	5123.0	5047.6	5011.2	4877.3	4798.0	4709.6	4708.3	4690.1	4722.6
15°	5385.6	5445.4	5397.3	5323.2	5275.1	5094.4	4977.4	4868.2	4855.2	4834.4	4844.8
17.5°	5658.5	5731.3	5697.5	5629.9	5571.4	5370.0	5216.6	5076.2	5061.9	5029.4	4981.3
20°	5997.8	6064.1	6055.0	5993.9	5928.9	5700.1	5532.4	5351.8	5336.2	5277.7	5169.8
22.5°	6337.1	6419.0	6368.3	6357.9	6321.5	6094.0	5860.0	5676.7	5661.1	5584.4	5386.9
25°	6656.9	6729.7	6747.9	6731.0	6734.9	6510.0	6277.3	6047.2	6031.6	5927.6	5641.6
27.5°	7035.1	7104.0	7109.2	7113.1	7158.6	6971.5	6698.5	6461.9	6451.5	6334.5	5971.8
30°	7325.0	7439.4	7462.8	7484.9	7508.3	7408.2	7159.9	6939.0	6918.2	6790.8	6343.6
32.5°	7590.2	7676.0	7759.2	7804.7	7910.0	7820.3	7616.2	7479.7	7481.0	7421.2	6936.4
35°	7795.6	7890.5	7995.8	8162.2	8315.6	8277.9	8214.2	8222.0	8223.3	8249.3	7735.8
37.5°	7991.9	8077.7	8210.3	8409.2	8679.5	8728.9	8771.8	8934.3	8991.5	9113.7	8474.2
40°	8110.2	8201.2	8372.8	8648.3	8999.3	9177.4	9307.4	9724.7	9823.5	9824.8	9044.8
42.5°	7937.3	8037.4	8344.2	8834.2	9287.9	9620.7	9962.6	10489.0	10560.5	10400.6	9532.3
45°	7782.6	7874.9	8205.1	8862.8	9514.1	10093.9	10569.6	11179.3	11231.3	10908.9	9982.1
47.5°	7633.1	7705.9	8088.1	8803.0	9745.5	10568.3	11087.0	11803.2	11840.9	11465.3	10421.4
50°	7426.4	7513.5	7919.1	8732.8	9884.6	10975.2	11594.0	12419.4	12414.2	11965.7	10819.2
52.5°	7200.2	7286.0	7721.5	8604.1	9975.6	11291.1	12171.1	13022.6	13026.5	12540.3	11213.1
55°	6915.6	7020.8	7479.7	8430.0	9997.7	11539.4	12671.6	13641.3	13705.0	13126.6	11592.7
57.5°	6575.0	6680.3	7182.0	8175.2	9866.4	11747.3	13205.9	14431.7	14465.5	13725.8	11876.0
60°	6178.5	6305.9	6785.6	7834.6	9615.5	11989.1	13853.2	15206.4	15218.1	14261.4	12112.6
62.5°	5719.6	5810.6	6315.0	7340.6	9215.1	12085.3	14388.8	15917.5	15920.1	14665.7	12219.2
65°	5223.1	5258.2	5680.6	6668.6	8631.4	11928.0	14594.2	16350.4	16338.7	15020.5	12165.9
67.5°	4631.6	4614.7	5065.8	5837.9	7893.1	11404.2	14494.1	16572.6	16607.7	15293.5	11994.3
70°	3765.9	3790.6	4149.3	4908.5	6701.1	10563.1	14218.5	16663.6	16654.5	15157.0	11441.9
72.5°	2858.5	2902.7	3162.7	3732.1	5201.0	8883.6	13038.2	15657.5	15675.7	14195.1	10447.4
75°	1767.9	1895.3	2115.0	2462.0	3258.9	6364.4	11097.4	13715.4	13807.7	12524.7	8602.8
77.5°	774.8	804.6	915.1	1186.8	1704.2	3195.2	8203.8	10953.1	11226.1	10129.0	6205.8
80°	479.7	479.7	510.9	595.4	760.5	1188.1	3287.5	6539.9	6263.0	5793.7	2737.6
82.5°	399.1	399.1	414.7	429.0	390.0	503.1	1099.7	1832.9	1964.2	1589.8	841.0
85°	217.1	222.3	223.6	227.5	223.6	271.7	432.9	542.1	548.6	496.6	299.0
87.5°	79.3	84.5	81.9	76.7	68.9	65.0	83.2	84.5	87.1	80.6	44.2
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°	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5
2.5°	4431.4	4449.6	4497.7	4501.6	4519.8	4526.3	4541.9	4564.0	4603.0	4583.5	4561.4
5°	4482.1	4505.5	4582.2	4621.2	4671.9	4701.8	4751.2	4775.9	4835.7	4816.2	4813.6
7.5°	4558.8	4608.2	4677.1	4714.8	4781.1	4800.6	4837.0	4837.0	4886.4	4861.7	4855.2
10°	4662.8	4695.3	4768.1	4770.7	4808.4	4808.4	4851.3	4824.0	4872.1	4843.5	4842.2
12.5°	4746.0	4764.2	4791.5	4769.4	4788.9	4766.8	4788.9	4756.4	4786.3	4749.9	4742.1
15°	4839.6	4814.9	4787.6	4735.6	4718.7	4683.6	4665.4	4631.6	4634.2	4592.6	4586.1
17.5°	4944.9	4881.2	4801.9	4688.8	4626.4	4536.7	4499.0	4450.9	4423.6	4385.9	4402.8
20°	5072.3	4977.4	4812.3	4636.8	4504.2	4367.7	4279.3	4201.3	4194.8	4161.0	4142.8
22.5°	5237.4	5085.3	4857.8	4562.7	4349.5	4154.5	4023.2	3893.3	3880.3	3811.4	3785.4
25°	5441.5	5228.3	4881.2	4505.5	4168.8	3901.0	3694.4	3513.7	3426.6	3353.8	3336.9
27.5°	5715.7	5438.9	4928.0	4402.8	3955.6	3586.5	3290.1	3050.9	2946.9	2910.5	2872.8
30°	6036.8	5696.2	5015.1	4317.0	3703.5	3184.8	2823.4	2538.7	2425.6	2368.4	2350.2
32.5°	6510.0	6021.2	5095.7	4175.3	3398.0	2742.8	2272.3	1957.7	1888.8	1878.4	1903.1
35°	7198.9	6632.2	5212.7	4044.0	3039.2	2251.5	1731.5	1526.1	1511.8	1514.4	1514.4
37.5°	7916.5	7214.5	5559.7	3850.4	2599.8	1695.1	1318.1	1206.3	1211.5	1211.5	1210.2
40°	8384.5	7682.5	5811.9	3576.1	2053.9	1215.4	977.5	893.0	929.4	978.8	1004.8
42.5°	8900.5	8107.6	5986.1	3260.2	1428.6	859.2	711.1	741.0	847.5	922.9	933.3
45°	9339.9	8469.0	6005.6	2768.8	920.3	652.6	648.7	734.5	857.9	939.8	946.3
47.5°	9716.9	8797.8	5883.4	2207.3	670.8	609.7	648.7	756.6	868.3	919.0	924.2
50°	10082.2	9059.1	5596.1	1696.4	611.0	594.1	656.5	760.5	830.6	865.7	860.5
52.5°	10407.1	9297.0	5180.2	1323.3	587.6	583.7	663.0	756.6	800.7	798.1	794.2
55°	10654.1	9367.2	4855.2	1032.1	568.1	577.2	666.9	760.5	792.9	769.6	764.4
57.5°	10781.5	9280.1	4582.2	820.2	547.3	570.7	677.3	759.2	816.3	860.5	857.9
60°	10778.9	9181.3	4245.5	707.2	526.5	565.5	694.2	824.1	1030.8	1072.4	1073.7
62.5°	10737.3	9012.3	3784.1	639.6	503.1	568.1	705.9	935.9	1173.8	1140.0	1112.7
65°	10599.5	8695.1	3165.3	566.8	473.2	570.7	700.7	1012.6	1076.3	955.4	938.5
67.5°	10216.0	8081.6	2485.4	507.0	445.9	556.4	709.8	941.1	989.2	912.5	887.8
70°	9437.4	7217.1	1684.7	436.8	414.7	535.6	689.0	925.5	976.2	898.2	861.8
72.5°	8203.8	5792.4	985.3	375.7	369.2	492.7	678.6	935.9	991.8	904.7	857.9
75°	6385.2	4060.9	569.4	304.2	308.1	455.0	622.7	882.6	982.7	915.1	854.0
77.5°	4122.0	1972.0	401.7	243.1	240.5	358.8	505.7	772.2	946.3	924.2	873.5
80°	1475.4	720.2	282.1	180.7	175.5	243.1	388.7	621.4	800.7	829.3	829.3
82.5°	530.4	361.4	180.7	110.5	109.2	154.7	289.9	471.9	581.1	655.2	673.4
85°	222.3	157.3	88.4	55.9	45.5	59.8	149.5	292.5	393.9	423.8	461.5
87.5°	32.5	28.6	23.4	18.2	15.6	15.6	19.5	84.5	140.4	201.5	249.6
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)