

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: P510270

Luminaire Tested: **VERD-M-CA4-240-730-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510270
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-5)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA4-240-730-U-T3-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 3000K, 1090mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30668 lumens
Efficiency: N/A
Efficacy: 126.6 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

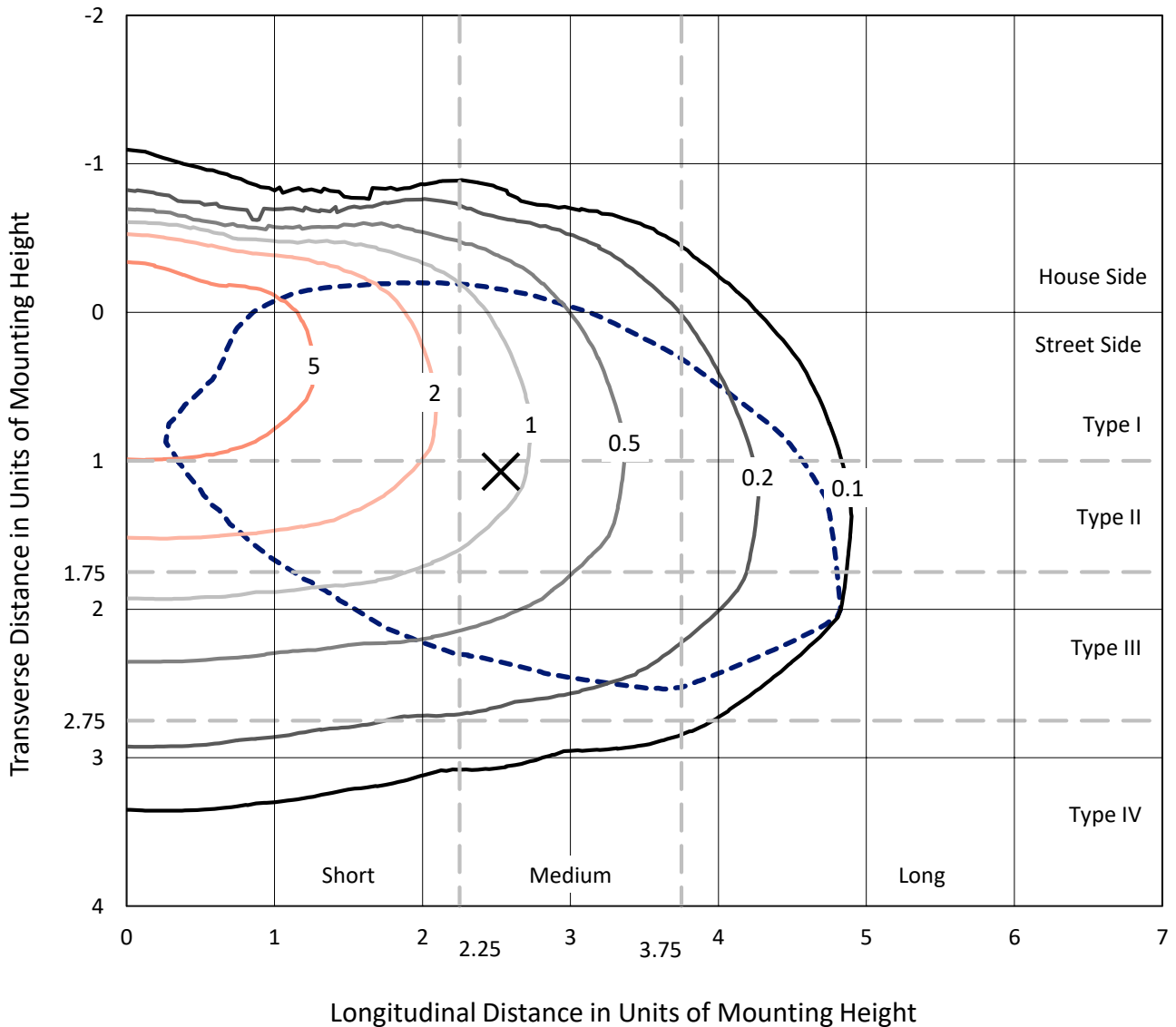
Input Watts (W): 242.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

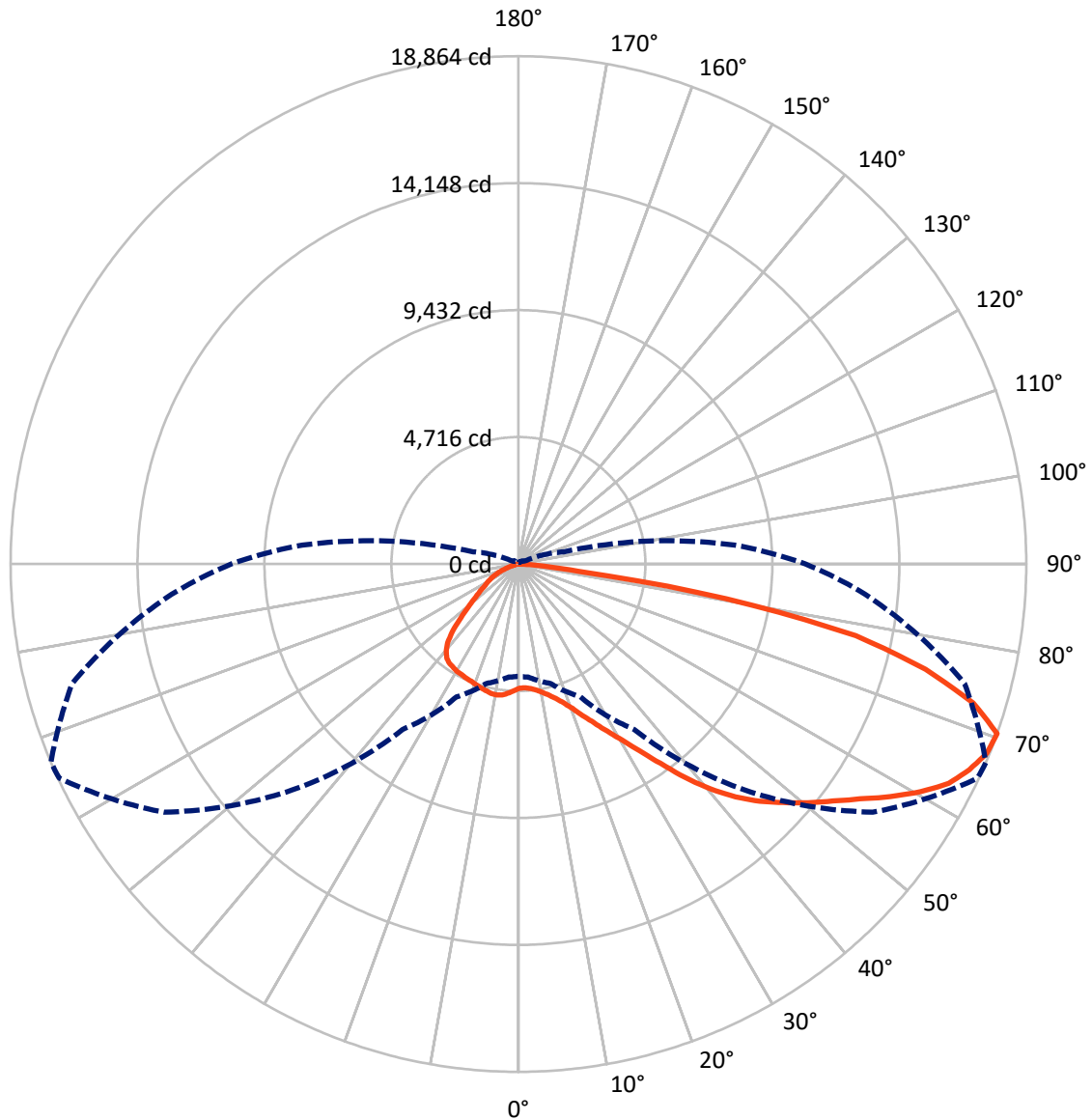
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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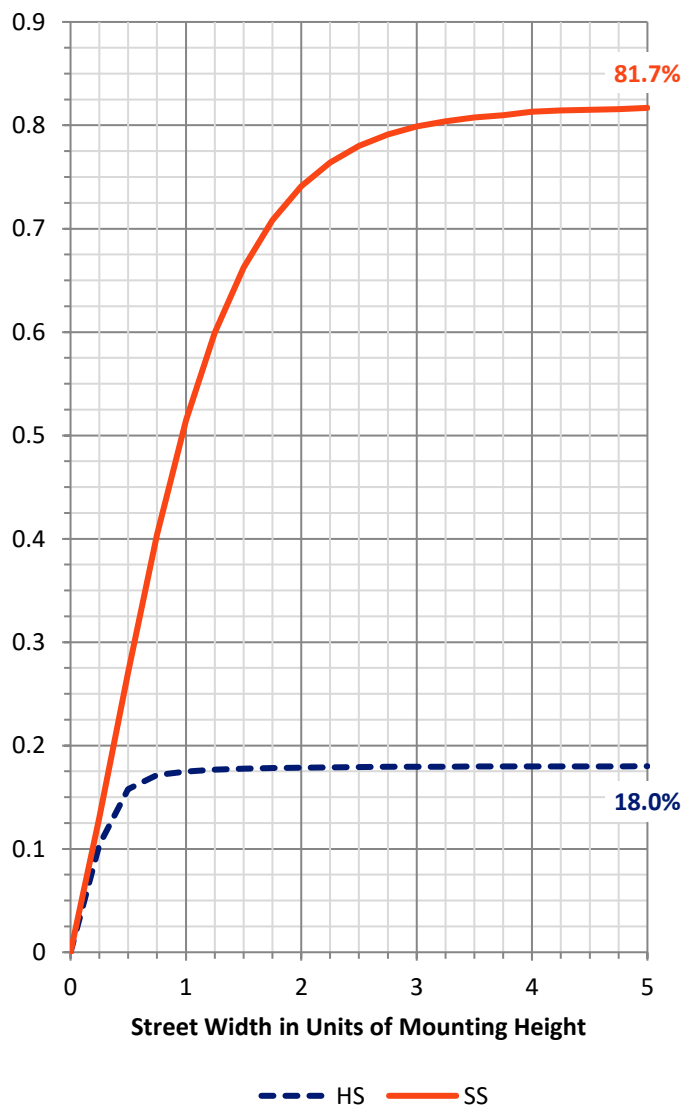
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5587.9	0.0	5587.9
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	25080.1	0.0	25080.1
	% Fixture	81.8	0.0	81.8
Total	Lumens	30668.0	0.0	30668.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.6	1.5
10°-20°	1433.9	4.7
20°-30°	2487.9	8.1
30°-40°	3695.0	12.0
40°-50°	5069.3	16.5
50°-60°	6225.4	20.3
60°-70°	6674.3	21.8
70°-80°	4237.0	13.8
80°-90°	385.6	1.3
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°	30668.0	100.0
0°-180°	30668.0	100.0



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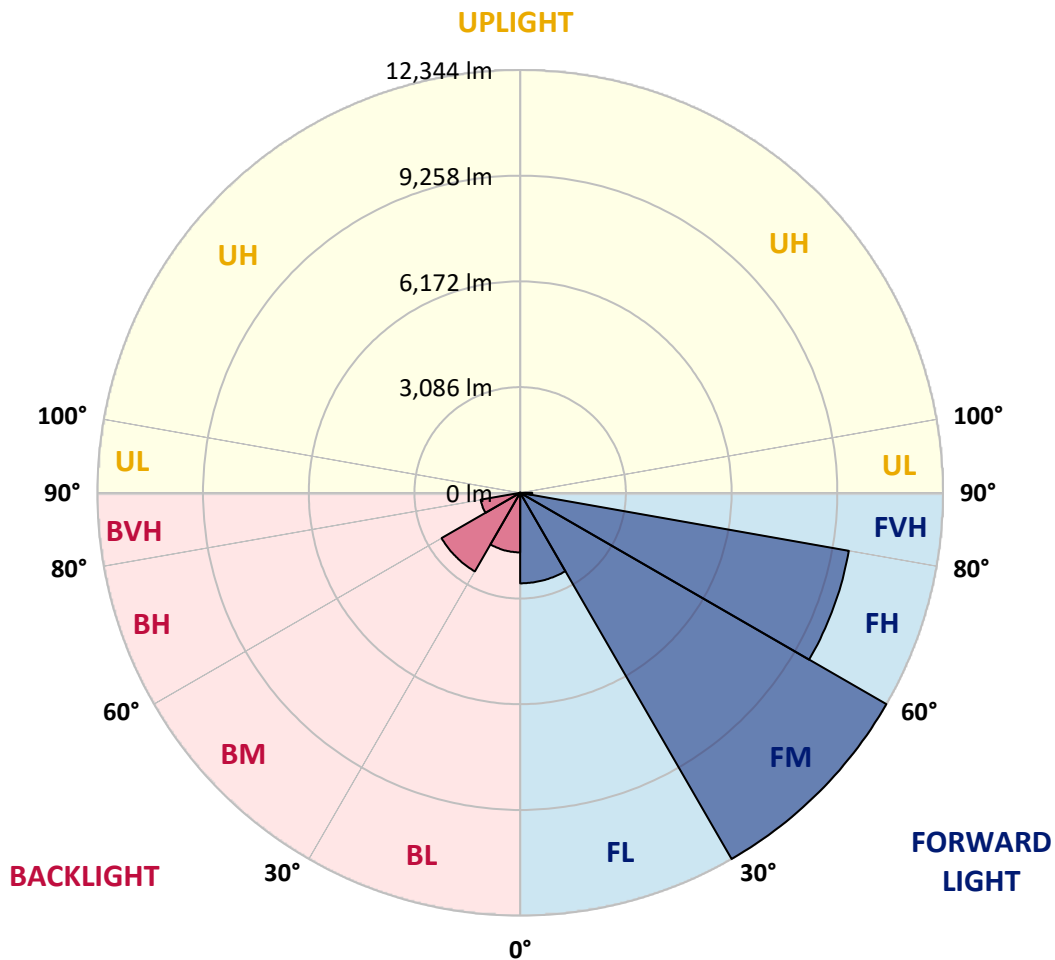
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2642.3	8.6			
FM (30°-60°)	12343.6	40.2			
FH (60°-80°)	9742.5	31.8			G4/12000
FVH (80°-90°)	351.7	1.1			G3/500
BL (0°-30°)	1739.1	5.7	B3/2500		
BM (30°-60°)	2646.2	8.6	B3/5000		
BH (60°-80°)	1168.8	3.8	B3/2500		G3/2500
BVH (80°-90°)	33.9	0.1			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°	67°	75°	85°
0°	4613.2	4613.2	4613.2	4613.2	4613.2	4613.2	4613.2	4613.2	4613.2	4613.2	4613.2
2.5°	4571.6	4614.6	4589.4	4586.4	4616.1	4587.9	4607.2	4602.8	4599.8	4604.3	4635.4
5°	4691.8	4742.2	4708.1	4697.7	4714.1	4663.6	4659.2	4648.8	4645.8	4647.3	4691.8
7.5°	4859.5	4918.8	4905.5	4878.8	4869.9	4786.8	4771.9	4734.8	4723.0	4725.9	4770.4
10°	5123.6	5182.9	5156.2	5096.9	5059.8	4964.8	4911.4	4863.9	4840.2	4843.1	4890.6
12.5°	5461.9	5518.3	5473.8	5365.4	5344.7	5191.8	5108.7	5007.8	4991.5	4967.8	5018.2
15°	5780.9	5829.9	5809.1	5708.2	5651.8	5470.8	5318.0	5193.3	5178.5	5156.2	5154.7
17.5°	6134.1	6183.0	6144.4	6070.3	5996.1	5780.9	5616.2	5456.0	5417.4	5398.1	5328.4
20°	6510.9	6588.1	6580.7	6519.8	6430.8	6178.6	5945.6	5764.6	5723.0	5687.4	5540.5
22.5°	6899.7	7000.6	6978.3	6945.7	6908.6	6625.2	6353.7	6144.4	6113.3	6037.6	5806.1
25°	7330.0	7399.7	7383.4	7399.7	7374.5	7123.8	6827.0	6571.8	6530.2	6459.0	6104.4
27.5°	7747.0	7819.7	7847.9	7813.7	7830.1	7650.5	7298.8	7070.3	7030.3	6899.7	6463.5
30°	8123.8	8214.4	8254.4	8269.3	8324.2	8138.7	7879.0	7601.5	7588.2	7454.6	6936.8
32.5°	8425.1	8526.0	8623.9	8687.7	8775.2	8693.6	8435.4	8267.8	8269.3	8149.1	7647.5
35°	8643.2	8758.9	8901.4	9070.5	9254.5	9220.4	9067.5	9070.5	9094.3	9134.3	8554.1
37.5°	8885.0	8978.5	9146.2	9382.1	9662.6	9733.8	9713.0	9948.9	10064.7	10135.9	9351.0
40°	9029.0	9123.9	9333.1	9650.7	10058.7	10229.4	10420.8	10834.8	10986.1	10911.9	10032.0
42.5°	8870.2	8954.8	9318.3	9867.3	10383.7	10771.0	11113.7	11719.1	11828.9	11587.1	10606.3
45°	8664.0	8773.8	9156.6	9926.7	10671.5	11302.2	11834.8	12489.2	12570.8	12228.1	11113.7
47.5°	8494.8	8591.2	9037.9	9862.9	10937.1	11846.7	12468.4	13216.3	13237.0	12814.2	11639.0
50°	8278.2	8395.4	8861.3	9784.2	11097.4	12329.0	13048.6	13894.4	13940.4	13421.0	12084.1
52.5°	8051.1	8165.4	8647.6	9655.1	11213.1	12729.6	13651.0	14615.5	14620.0	14063.5	12558.9
55°	7715.8	7837.5	8371.6	9468.2	11248.7	12995.2	14256.4	15351.5	15397.5	14714.9	12989.2
57.5°	7361.2	7465.0	8039.3	9177.3	11116.7	13245.9	14878.1	16169.0	16295.2	15449.4	13358.7
60°	6890.8	6994.7	7601.5	8796.0	10836.2	13527.9	15590.4	17154.3	17167.7	16044.4	13627.3
62.5°	6384.8	6475.3	7033.2	8198.0	10401.5	13636.2	16201.7	17942.2	17940.7	16574.1	13760.8
65°	5783.9	5821.0	6389.3	7463.6	9726.4	13477.4	16471.7	18461.5	18411.1	16955.5	13716.3
67.5°	5071.7	5111.7	5542.0	6551.0	8747.0	12857.2	16351.6	18712.3	18762.7	17295.3	13523.4
70°	4169.5	4217.0	4592.4	5444.1	7499.2	11867.5	16069.6	18820.6	18863.6	17158.7	12928.4
72.5°	3077.4	3141.2	3371.2	4052.3	5691.9	9971.2	14763.9	17635.0	17658.8	16019.2	11689.4
75°	1911.1	2028.4	2245.0	2693.1	3693.2	6993.2	12619.8	15765.5	15617.1	14289.1	9672.9
77.5°	764.2	783.5	891.8	1261.2	1801.3	3641.3	9147.7	12532.2	12815.6	11432.7	6919.0
80°	445.1	442.2	467.4	587.6	773.1	1244.9	3558.2	7030.3	7836.0	6279.5	3113.0
82.5°	359.1	345.7	345.7	376.9	371.0	523.8	1166.3	2053.6	2252.4	1998.7	885.8
85°	188.4	184.0	149.9	185.5	185.5	261.2	448.1	581.7	614.3	535.7	332.4
87.5°	47.5	47.5	47.5	57.9	46.0	54.9	75.7	92.0	95.0	77.2	49.0
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°	4613.2	4613.2	4613.2	4613.2	4613.2	4613.2	4613.2	4613.2	4613.2	4613.2	4613.2
2.5°	4647.3	4660.6	4712.6	4705.2	4714.1	4714.1	4728.9	4745.2	4794.2	4766.0	4754.1
5°	4700.7	4727.4	4792.7	4816.4	4852.0	4856.5	4886.2	4896.6	4950.0	4920.3	4920.3
7.5°	4803.1	4834.2	4895.1	4904.0	4920.3	4892.1	4899.5	4866.9	4902.5	4866.9	4868.4
10°	4918.8	4939.6	4981.1	4921.8	4896.6	4829.8	4815.0	4734.8	4763.0	4717.0	4705.2
12.5°	5030.1	5022.7	4991.5	4886.2	4816.4	4706.6	4660.6	4552.3	4546.4	4485.5	4473.7
15°	5135.5	5083.5	4982.6	4819.4	4700.7	4547.9	4438.1	4319.4	4277.8	4208.1	4202.1
17.5°	5264.5	5175.5	4996.0	4755.6	4561.2	4338.7	4182.9	4049.3	3963.2	3899.4	3898.0
20°	5421.8	5285.3	5001.9	4682.9	4417.3	4132.4	3914.3	3745.1	3622.0	3541.8	3540.4
22.5°	5619.2	5433.7	5056.8	4599.8	4233.3	3883.1	3611.6	3319.3	3150.1	2986.9	2957.2
25°	5850.7	5583.6	5104.3	4556.8	4052.3	3623.5	3219.9	2792.5	2529.9	2399.3	2350.4
27.5°	6175.6	5832.8	5174.0	4475.2	3881.6	3303.0	2715.4	2249.5	1933.4	1822.1	1822.1
30°	6551.0	6147.4	5304.6	4426.2	3644.2	2853.4	2161.9	1661.9	1368.1	1200.4	1195.9
32.5°	7123.8	6522.8	5423.3	4320.8	3356.4	2363.7	1563.9	1071.3	835.4	731.5	725.6
35°	7947.3	7238.0	5614.7	4215.5	2939.4	1759.8	992.7	614.3	476.3	416.9	414.0
37.5°	8739.6	7919.1	6027.2	4006.3	2347.4	1105.4	550.5	354.6	290.8	283.4	280.4
40°	9297.5	8506.7	6318.1	3687.3	1667.8	586.1	319.0	256.7	252.2	249.3	247.8
42.5°	9905.9	8942.9	6524.3	3280.7	989.7	339.8	259.7	231.5	224.1	221.1	221.1
45°	10400.0	9362.8	6562.9	2699.0	498.6	280.4	237.4	210.7	201.8	207.7	209.2
47.5°	10855.5	9759.0	6432.3	2029.8	336.8	261.2	222.6	195.9	189.9	204.8	204.8
50°	11244.3	10094.3	6132.6	1515.0	316.1	246.3	207.7	181.0	179.5	192.9	194.4
52.5°	11631.6	10364.4	5660.7	1144.0	299.7	230.0	192.9	167.7	163.2	172.1	173.6
55°	11938.7	10460.8	5310.5	851.7	287.9	215.2	179.5	154.3	143.9	142.4	145.4
57.5°	12107.9	10376.3	4967.8	626.2	274.5	201.8	166.2	136.5	120.2	120.2	120.2
60°	12110.8	10273.9	4601.3	495.6	259.7	187.0	151.3	117.2	100.9	97.9	97.9
62.5°	12078.2	10091.4	4068.6	430.3	243.3	175.1	132.1	99.4	87.5	83.1	83.1
65°	11934.3	9747.1	3423.1	368.0	224.1	166.2	112.8	89.0	78.6	72.7	72.7
67.5°	11486.2	9101.7	2635.2	320.5	206.2	146.9	102.4	80.1	69.7	63.8	62.3
70°	10664.1	8058.6	1739.0	273.0	188.4	130.6	93.5	72.7	62.3	56.4	54.9
72.5°	9285.7	6558.4	874.0	231.5	161.7	120.2	84.6	63.8	53.4	47.5	47.5
75°	7276.6	4552.3	476.3	184.0	127.6	105.4	74.2	53.4	46.0	41.5	41.5
77.5°	4461.8	2256.9	325.0	142.4	96.4	86.1	59.4	44.5	40.1	38.6	38.6
80°	1627.7	738.9	218.1	100.9	72.7	66.8	47.5	38.6	37.1	37.1	37.1
82.5°	587.6	375.4	146.9	68.3	46.0	50.4	38.6	32.6	31.2	32.6	34.1
85°	241.9	164.7	53.4	38.6	25.2	26.7	23.7	22.3	23.7	25.2	25.2
87.5°	37.1	32.6	19.3	19.3	14.8	13.4	10.4	11.9	14.8	17.8	17.8
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)