

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: P510278

Luminaire Tested: **VERD-M-CA4-240-740-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510278
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-CA4-240-740-U-T3-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 4000K, 1090mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31233 lumens
Efficiency: N/A
Efficacy: 128.9 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

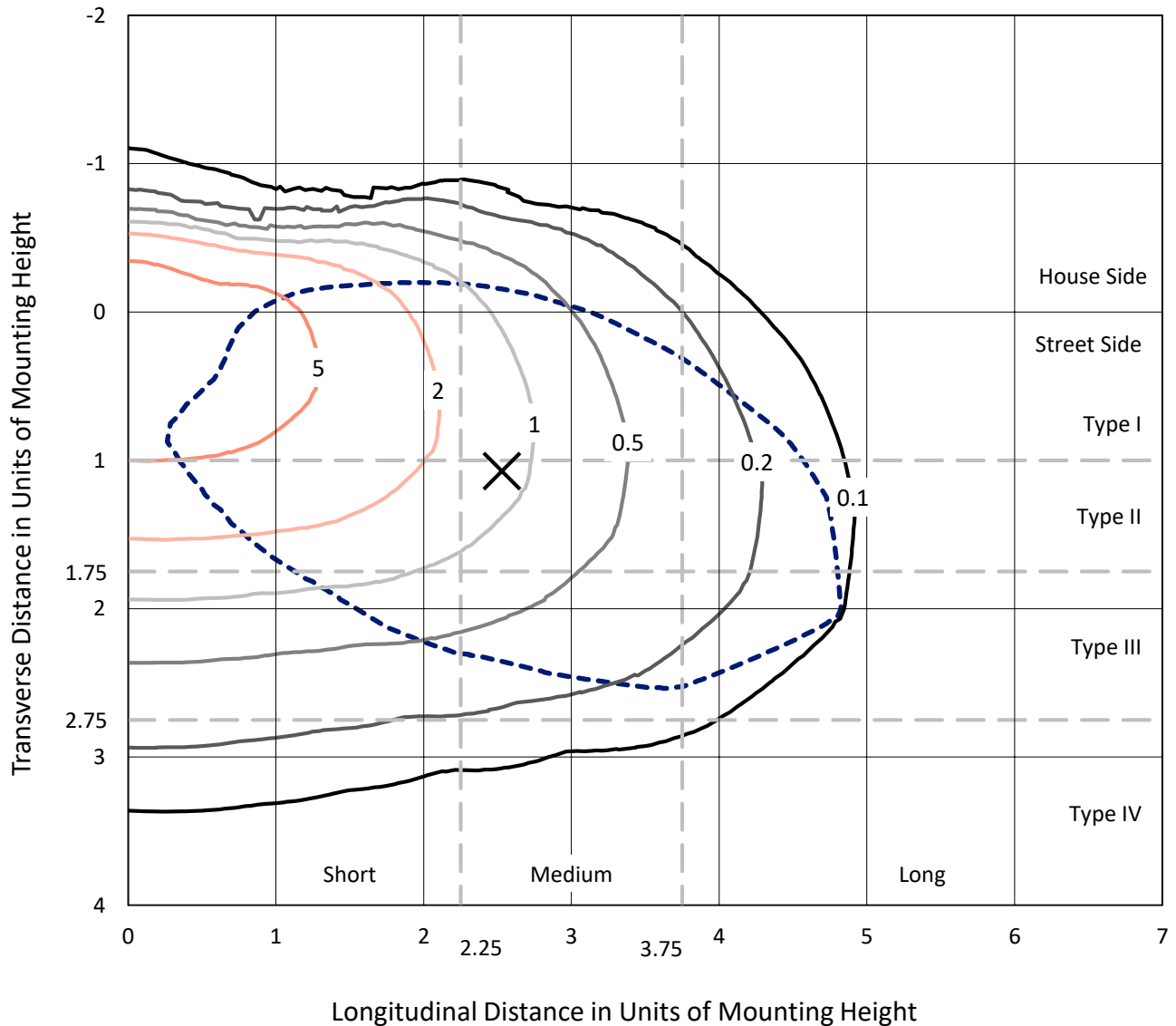
Input Watts (W): 242.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

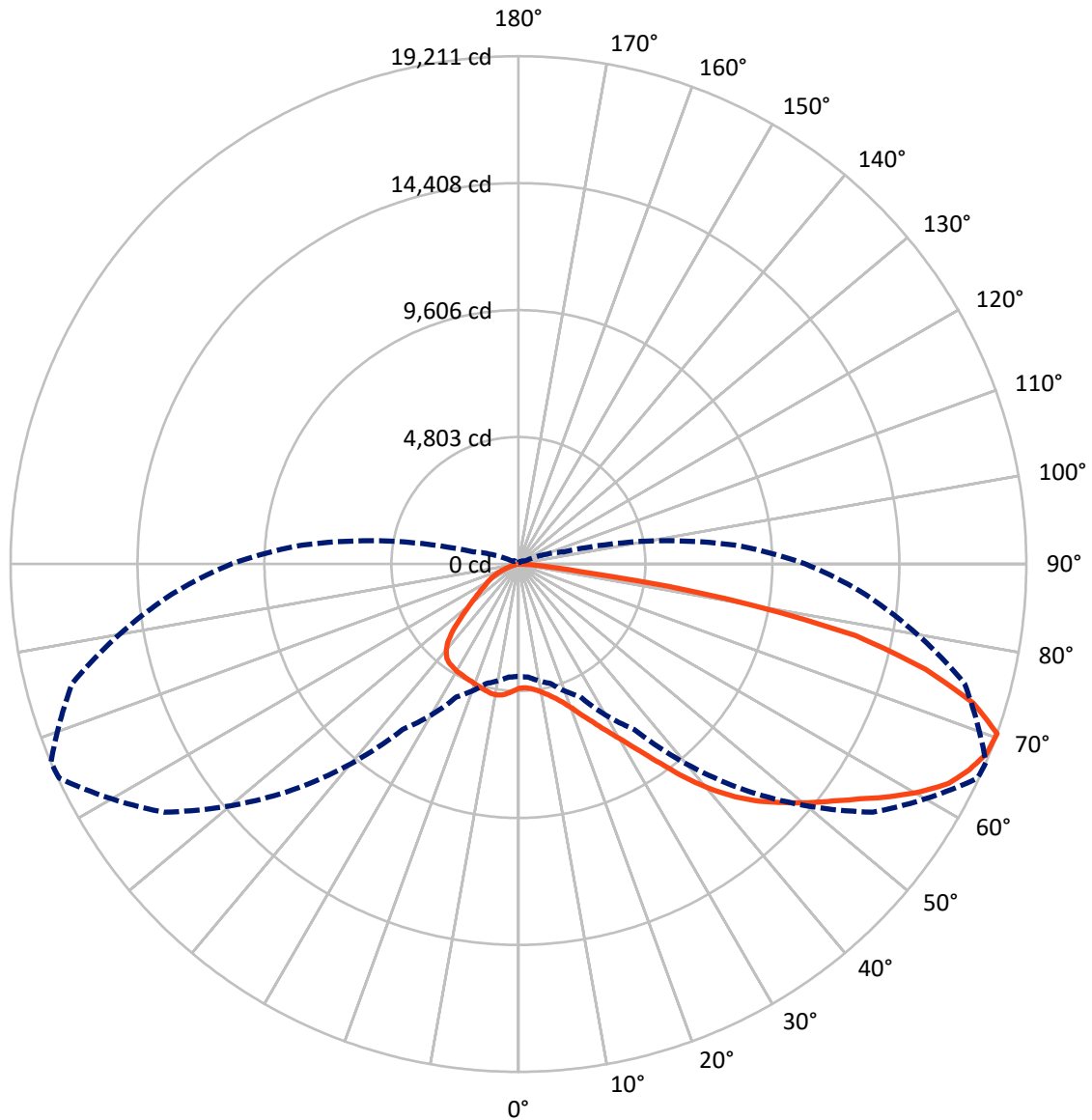
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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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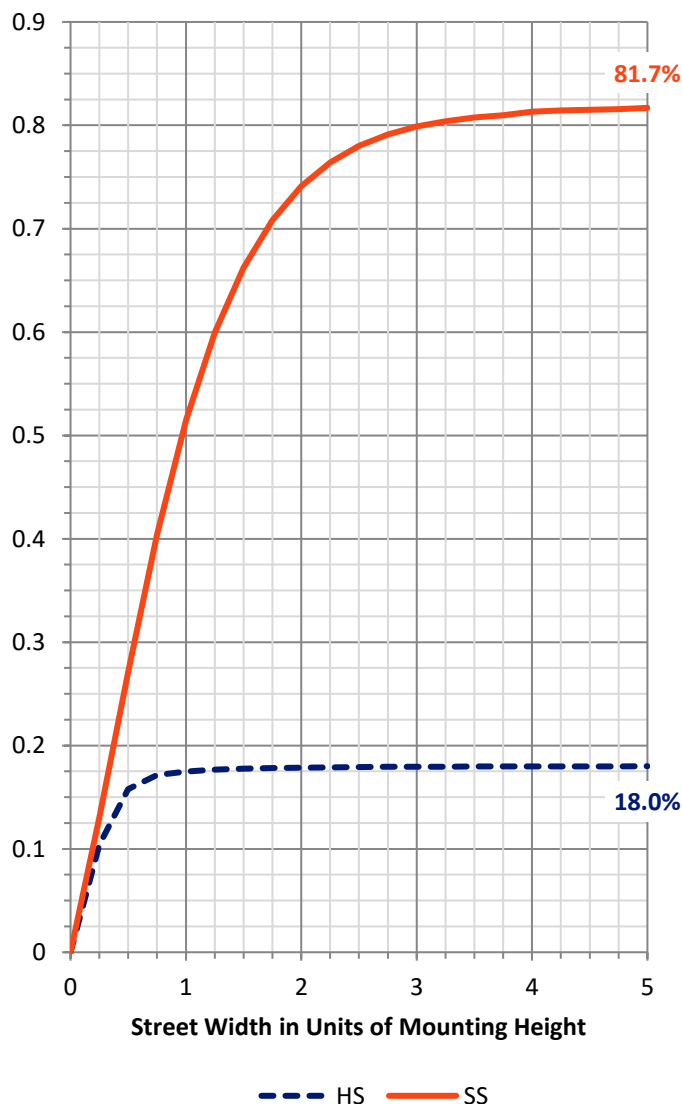
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5690.9	0.0	5690.9
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	25542.1	0.0	25542.1
	% Fixture	81.8	0.0	81.8
Total	Lumens	31233.0	0.0	31233.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	468.1	1.5
10°-20°	1460.3	4.7
20°-30°	2533.7	8.1
30°-40°	3763.1	12.0
40°-50°	5162.7	16.5
50°-60°	6340.1	20.3
60°-70°	6797.3	21.8
70°-80°	4315.0	13.8
80°-90°	392.7	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°	31233.0	100.0
0°-180°	31233.0	100.0

Coefficient of Utilization



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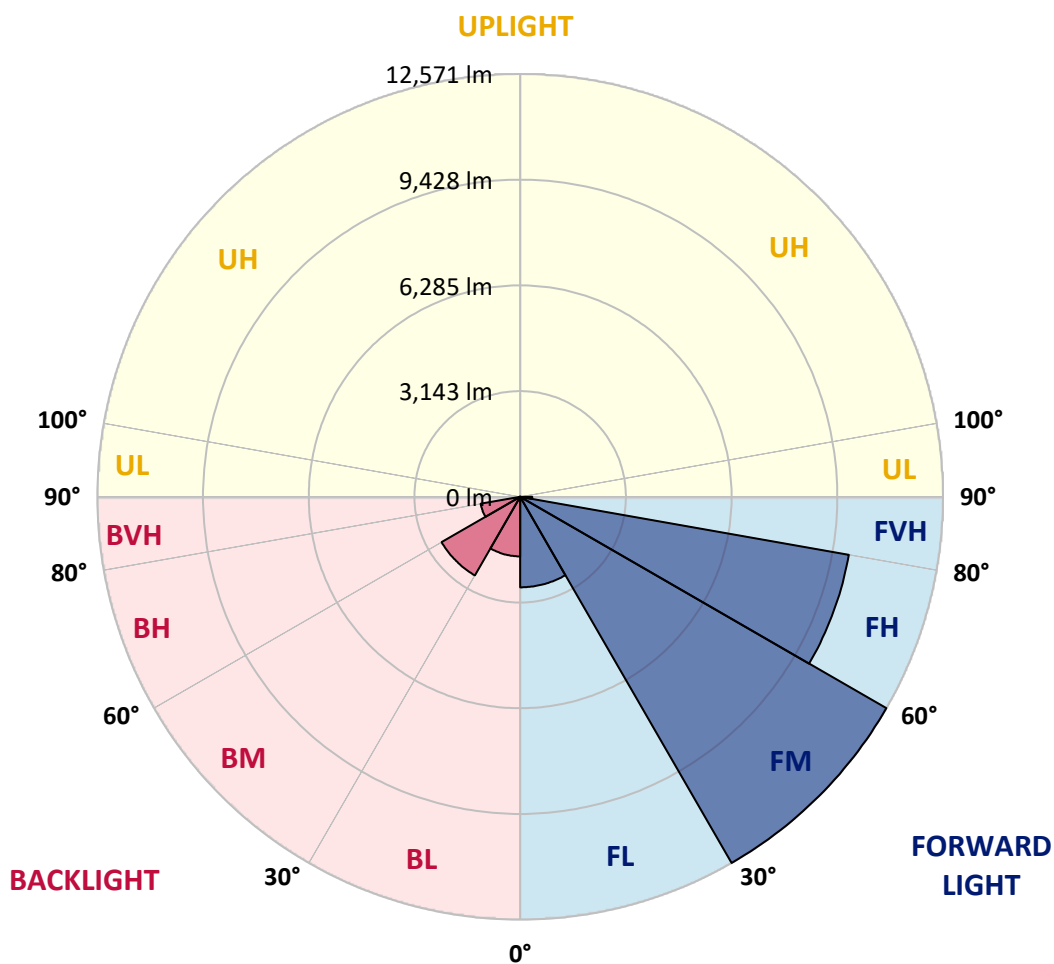
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2691.0	8.6			
FM	(30°-60°)	12571.0	40.2			
FH	(60°-80°)	9922.0	31.8			G4/12000
FVH	(80°-90°)	358.2	1.1			G3/500
BL	(0°-30°)	1771.1	5.7	B3/2500		
BM	(30°-60°)	2695.0	8.6	B3/5000		
BH	(60°-80°)	1190.3	3.8	B3/2500		G3/2500
BVH	(80°-90°)	34.5	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°	4698.1	4698.1	4698.1	4698.1	4698.1	4698.1	4698.1	4698.1	4698.1	4698.1	4698.1
2.5°	4655.8	4699.7	4674.0	4670.9	4701.2	4672.5	4692.1	4687.6	4684.5	4689.1	4720.8
5°	4778.2	4829.6	4794.9	4784.3	4800.9	4749.5	4745.0	4734.4	4731.4	4732.9	4778.2
7.5°	4949.0	5009.4	4995.8	4968.6	4959.6	4874.9	4859.8	4822.1	4810.0	4813.0	4858.3
10°	5218.0	5278.4	5251.2	5190.8	5153.0	5056.3	5001.9	4953.5	4929.4	4932.4	4980.7
12.5°	5562.5	5619.9	5574.6	5464.3	5443.1	5287.5	5202.9	5100.1	5083.5	5059.3	5110.7
15°	5887.4	5937.3	5916.1	5813.4	5755.9	5571.6	5415.9	5289.0	5273.9	5251.2	5249.7
17.5°	6247.1	6296.9	6257.6	6182.1	6106.5	5887.4	5719.7	5556.5	5517.2	5497.5	5426.5
20°	6630.9	6709.5	6701.9	6640.0	6549.3	6292.4	6055.2	5870.8	5828.5	5792.2	5642.6
22.5°	7026.8	7129.6	7106.9	7073.7	7035.9	6747.3	6470.7	6257.6	6225.9	6148.8	5913.1
25°	7465.0	7536.1	7519.5	7536.1	7510.4	7255.0	6952.8	6692.9	6650.5	6578.0	6216.8
27.5°	7889.7	7963.7	7992.4	7957.7	7974.3	7791.5	7433.3	7200.6	7159.8	7026.8	6582.5
30°	8273.5	8365.7	8406.5	8421.6	8477.5	8288.6	8024.2	7741.6	7728.0	7592.0	7064.6
32.5°	8580.3	8683.0	8782.8	8847.7	8936.9	8853.8	8590.9	8420.1	8421.6	8299.2	7788.4
35°	8802.4	8920.3	9065.4	9237.6	9425.0	9390.2	9234.6	9237.6	9261.8	9302.6	8711.7
37.5°	9048.7	9143.9	9314.7	9555.0	9840.6	9913.1	9891.9	10132.2	10250.1	10322.6	9523.2
40°	9195.3	9292.0	9505.1	9828.5	10244.0	10417.8	10612.8	11034.4	11188.5	11113.0	10216.8
42.5°	9033.6	9119.8	9490.0	10049.1	10575.0	10969.4	11318.5	11935.0	12046.8	11800.5	10801.7
45°	8823.6	8935.4	9325.3	10109.6	10868.1	11510.4	12052.9	12719.3	12802.4	12453.3	11318.5
47.5°	8651.3	8749.5	9204.4	10044.6	11138.6	12065.0	12698.1	13459.8	13480.9	13050.2	11853.4
50°	8430.7	8550.1	9024.5	9964.5	11301.8	12556.1	13289.0	14150.3	14197.2	13668.3	12306.8
52.5°	8199.5	8315.8	8806.9	9833.0	11419.7	12964.1	13902.5	14884.8	14889.3	14322.6	12790.3
55°	7857.9	7981.9	8525.9	9642.6	11456.0	13234.6	14519.1	15634.3	15681.1	14986.0	13228.6
57.5°	7496.8	7602.6	8187.4	9346.4	11321.5	13490.0	15152.2	16466.9	16595.4	15734.0	13604.8
60°	7017.8	7123.5	7741.6	8958.1	11035.9	13777.1	15877.6	17470.3	17483.9	16340.0	13878.3
62.5°	6502.5	6594.6	7162.8	8349.1	10593.1	13887.4	16500.2	18272.7	18271.2	16879.5	14014.3
65°	5890.4	5928.2	6507.0	7601.1	9905.5	13725.7	16775.2	18801.6	18750.3	17267.8	13969.0
67.5°	5165.1	5205.9	5644.1	6671.7	8908.2	13094.1	16652.8	19057.0	19108.4	17613.9	13772.6
70°	4246.3	4294.7	4677.0	5544.4	7637.3	12086.1	16365.7	19167.3	19211.2	17474.9	13166.6
72.5°	3134.1	3199.1	3433.3	4126.9	5796.7	10154.9	15035.9	17959.9	17984.1	16314.3	11904.8
75°	1946.4	2065.7	2286.4	2742.7	3761.2	7122.0	12852.3	16055.9	15904.8	14552.3	9851.1
77.5°	778.2	797.9	908.2	1284.5	1834.5	3708.3	9316.2	12763.1	13051.7	11643.4	7046.5
80°	453.3	450.3	476.0	598.4	787.3	1267.8	3623.7	7159.8	7980.3	6395.2	3170.4
82.5°	365.7	352.1	352.1	383.8	377.8	533.4	1187.8	2091.4	2293.9	2035.5	902.2
85°	191.9	187.4	152.6	188.9	188.9	266.0	456.4	592.4	625.6	545.5	338.5
87.5°	48.4	48.4	48.4	58.9	46.8	55.9	77.1	93.7	96.7	78.6	49.9
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°	4698.1	4698.1	4698.1	4698.1	4698.1	4698.1	4698.1	4698.1	4698.1	4698.1	4698.1
2.5°	4732.9	4746.5	4799.4	4791.8	4800.9	4800.9	4816.0	4832.6	4882.5	4853.8	4841.7
5°	4787.3	4814.5	4881.0	4905.2	4941.4	4946.0	4976.2	4986.8	5041.2	5011.0	5011.0
7.5°	4891.6	4923.3	4985.3	4994.3	5011.0	4982.2	4989.8	4956.6	4992.8	4956.6	4958.1
10°	5009.4	5030.6	5072.9	5012.5	4986.8	4918.8	4903.7	4822.1	4850.8	4803.9	4791.8
12.5°	5122.8	5115.2	5083.5	4976.2	4905.2	4793.3	4746.5	4636.2	4630.1	4568.2	4556.1
15°	5230.1	5177.2	5074.4	4908.2	4787.3	4631.7	4519.8	4398.9	4356.6	4285.6	4279.6
17.5°	5361.5	5270.9	5088.0	4843.2	4645.3	4418.6	4259.9	4123.9	4036.3	3971.3	3969.8
20°	5521.7	5382.7	5094.1	4769.2	4498.7	4208.5	3986.4	3814.1	3688.7	3607.1	3605.6
22.5°	5722.7	5533.8	5150.0	4684.5	4311.3	3954.7	3678.1	3380.4	3208.2	3041.9	3011.7
25°	5958.4	5686.4	5198.3	4640.7	4126.9	3690.2	3279.2	2844.0	2576.5	2443.5	2393.7
27.5°	6289.4	5940.3	5269.4	4557.6	3953.2	3363.8	2765.4	2290.9	1969.0	1855.7	1855.7
30°	6671.7	6260.7	5402.3	4507.7	3711.4	2905.9	2201.7	1692.5	1393.3	1222.5	1218.0
32.5°	7255.0	6643.0	5523.2	4400.5	3418.2	2407.3	1592.7	1091.0	850.8	745.0	738.9
35°	8093.7	7371.4	5718.2	4293.2	2993.6	1792.2	1011.0	625.6	485.1	424.6	421.6
37.5°	8900.6	8065.0	6138.3	4080.1	2390.6	1125.8	560.6	361.2	296.2	288.6	285.6
40°	9468.8	8663.4	6434.4	3755.2	1698.5	596.9	324.9	261.4	256.9	253.9	252.4
42.5°	10088.4	9107.7	6644.5	3341.1	1007.9	346.1	264.5	235.7	228.2	225.2	225.2
45°	10591.6	9535.3	6683.8	2748.8	507.7	285.6	241.8	214.6	205.5	211.6	213.1
47.5°	11055.5	9938.8	6550.8	2067.2	343.0	266.0	226.7	199.5	193.4	208.5	208.5
50°	11451.4	10280.3	6245.6	1542.9	321.9	250.8	211.6	184.4	182.8	196.4	198.0
52.5°	11845.9	10555.3	5765.0	1165.1	305.3	234.2	196.4	170.8	166.2	175.3	176.8
55°	12158.7	10653.6	5408.4	867.4	293.2	219.1	182.8	157.2	146.6	145.1	148.1
57.5°	12330.9	10567.4	5059.3	637.7	279.6	205.5	169.2	139.0	122.4	122.4	122.4
60°	12334.0	10463.2	4686.1	504.7	264.5	190.4	154.1	119.4	102.8	99.7	99.7
62.5°	12300.7	10277.3	4143.6	438.2	247.8	178.3	134.5	101.2	89.2	84.6	84.6
65°	12154.1	9926.7	3486.2	374.8	228.2	169.2	114.8	90.7	80.1	74.0	74.0
67.5°	11697.8	9269.4	2683.8	326.4	210.0	149.6	104.3	81.6	71.0	65.0	63.5
70°	10860.6	8207.0	1771.1	278.1	191.9	133.0	95.2	74.0	63.5	57.4	55.9
72.5°	9456.7	6679.3	890.1	235.7	164.7	122.4	86.1	65.0	54.4	48.4	48.4
75°	7410.6	4636.2	485.1	187.4	130.0	107.3	75.6	54.4	46.8	42.3	42.3
77.5°	4544.0	2298.4	330.9	145.1	98.2	87.6	60.4	45.3	40.8	39.3	39.3
80°	1657.7	752.5	222.1	102.8	74.0	68.0	48.4	39.3	37.8	37.8	37.8
82.5°	598.4	382.3	149.6	69.5	46.8	51.4	39.3	33.2	31.7	33.2	34.8
85°	246.3	167.7	54.4	39.3	25.7	27.2	24.2	22.7	24.2	25.7	25.7
87.5°	37.8	33.2	19.6	19.6	15.1	13.6	10.6	12.1	15.1	18.1	18.1
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)