

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: P510142

Luminaire Tested: **VERD-M-CA4-210-750-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510142
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-CA4-210-750-U-T3-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 5000K, 960mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28638 lumens
Efficiency: N/A
Efficacy: 134.1 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

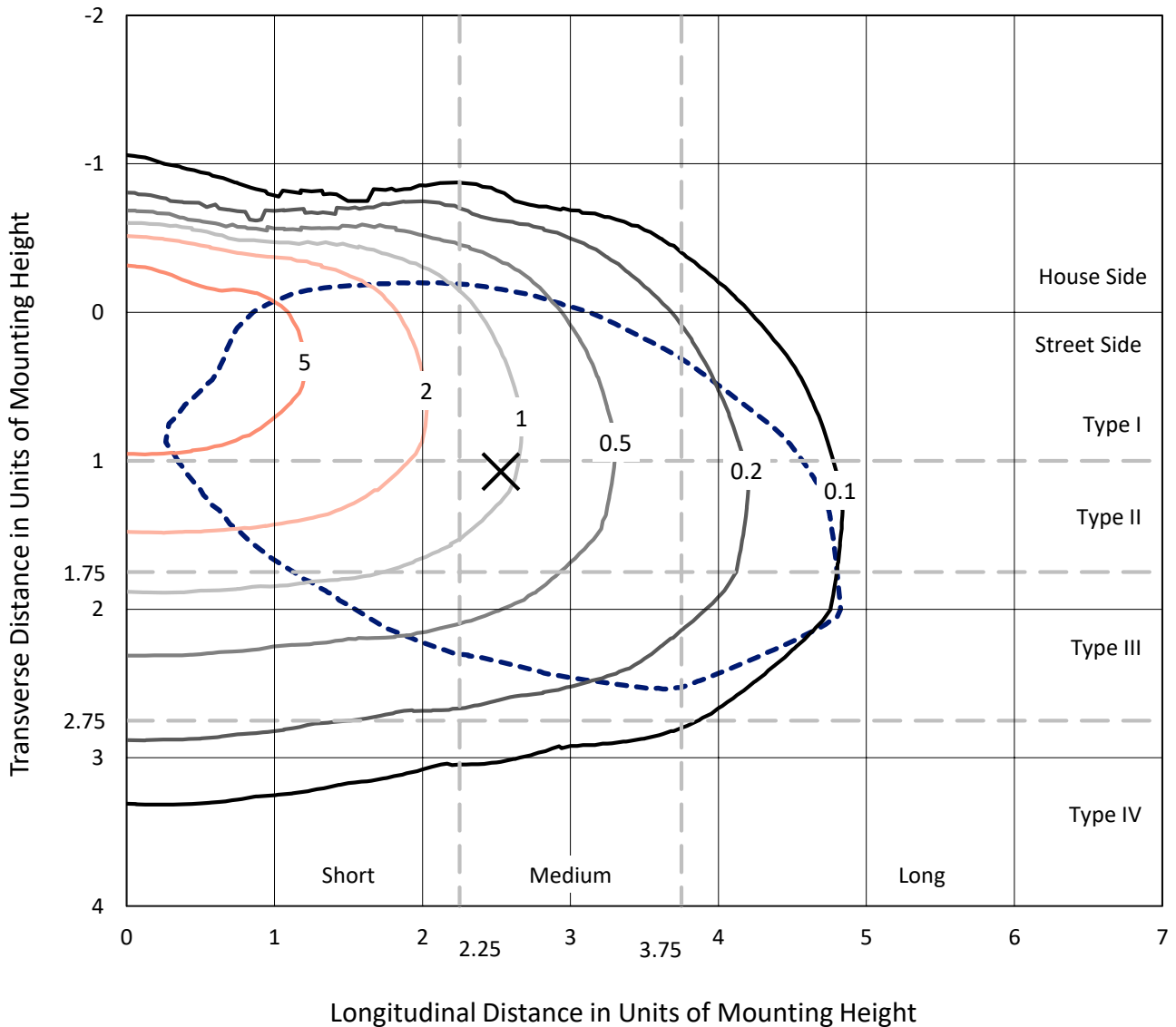
Input Watts (W): 213.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

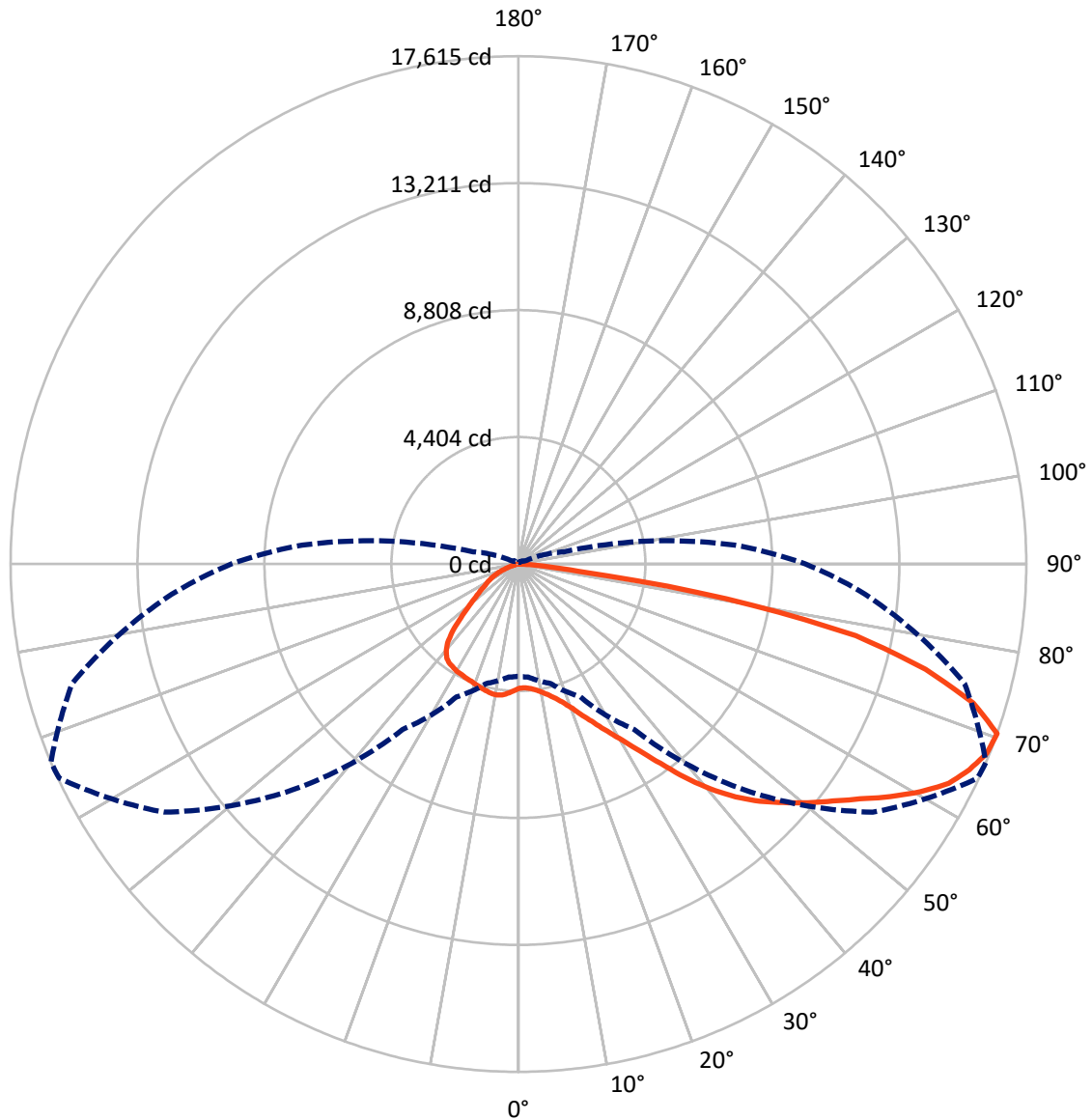
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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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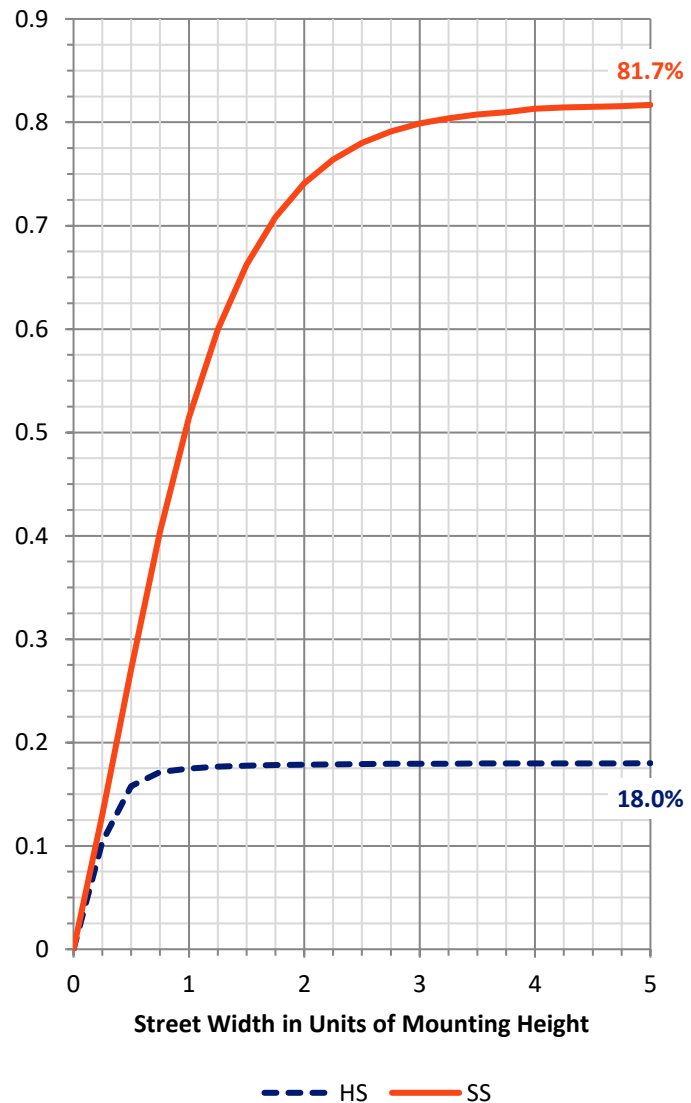
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5218.1	0.0	5218.1
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	23419.9	0.0	23419.9
	% Fixture	81.8	0.0	81.8
Total	Lumens	28638.0	0.0	28638.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.2	1.5
10°-20°	1339.0	4.7
20°-30°	2323.2	8.1
30°-40°	3450.4	12.0
40°-50°	4733.8	16.5
50°-60°	5813.3	20.3
60°-70°	6232.5	21.8
70°-80°	3956.5	13.8
80°-90°	360.1	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°	28638.0	100.0
0°-180°	28638.0	100.0



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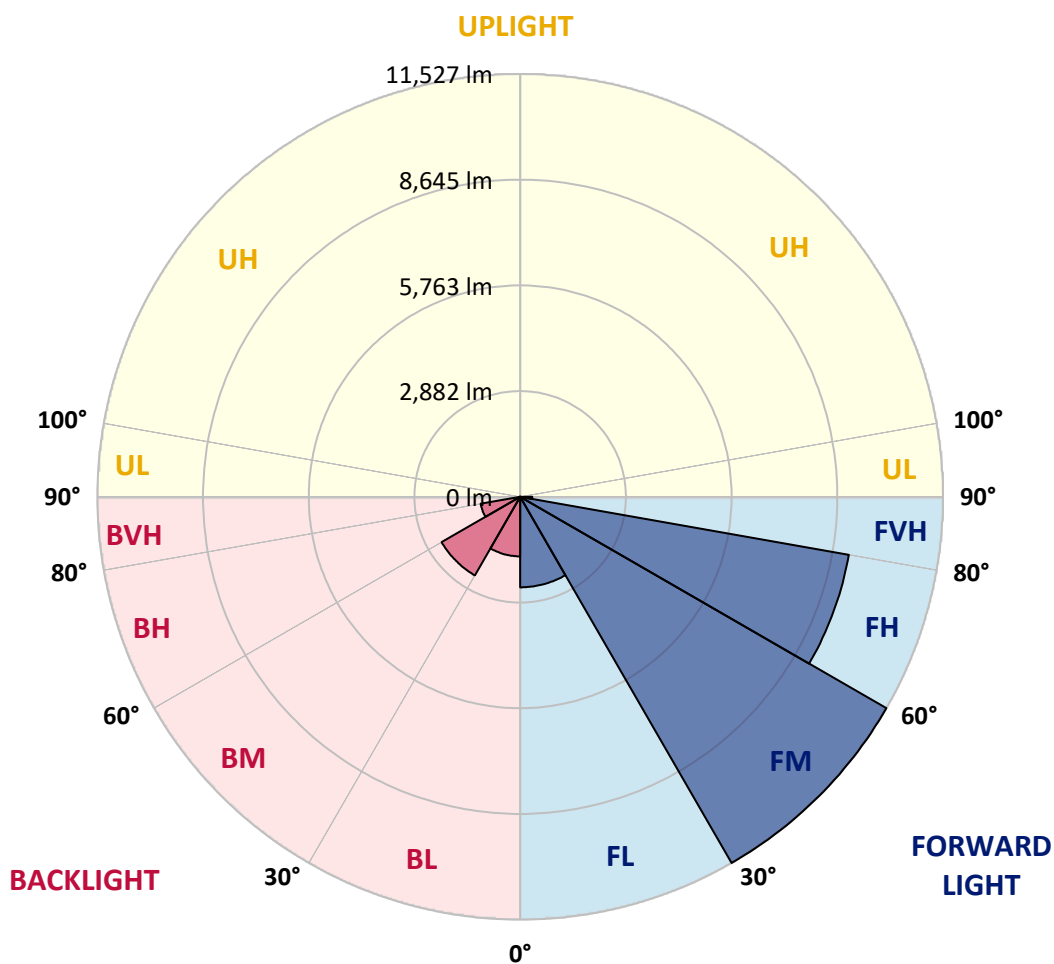
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2467.4	8.6			
FM	(30°-60°)	11526.5	40.2			
FH	(60°-80°)	9097.6	31.8			G4/12000
FVH	(80°-90°)	328.4	1.1			G3/500
BL	(0°-30°)	1623.9	5.7	B3/2500		
BM	(30°-60°)	2471.1	8.6	B2/2500		
BH	(60°-80°)	1091.4	3.8	B3/2500		G3/2500
BVH	(80°-90°)	31.6	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°	4307.8	4307.8	4307.8	4307.8	4307.8	4307.8	4307.8	4307.8	4307.8	4307.8	4307.8
2.5°	4269.0	4309.2	4285.6	4282.9	4310.6	4284.2	4302.3	4298.1	4295.3	4299.5	4328.6
5°	4381.2	4428.3	4396.5	4386.8	4402.0	4354.9	4350.8	4341.1	4338.3	4339.7	4381.2
7.5°	4537.8	4593.2	4580.8	4555.8	4547.5	4469.9	4456.1	4421.4	4410.3	4413.1	4454.7
10°	4784.4	4839.9	4814.9	4759.5	4724.9	4636.2	4586.3	4542.0	4519.8	4522.6	4566.9
12.5°	5100.4	5153.0	5111.4	5010.3	4990.9	4848.2	4770.6	4676.4	4661.1	4639.0	4686.1
15°	5398.3	5444.0	5424.6	5330.4	5277.7	5108.7	4966.0	4849.6	4835.7	4814.9	4813.5
17.5°	5728.0	5773.8	5737.7	5668.4	5599.2	5398.3	5244.5	5094.8	5058.8	5040.8	4975.7
20°	6080.0	6152.0	6145.1	6088.3	6005.1	5769.6	5552.1	5383.0	5344.2	5311.0	5173.8
22.5°	6443.0	6537.2	6516.4	6485.9	6451.3	6186.7	5933.1	5737.7	5708.6	5638.0	5421.8
25°	6844.8	6909.9	6894.7	6909.9	6886.4	6652.2	6375.1	6136.8	6098.0	6031.5	5700.3
27.5°	7234.2	7302.1	7328.4	7296.5	7311.8	7144.1	6815.7	6602.3	6564.9	6443.0	6035.6
30°	7586.1	7670.6	7708.0	7721.9	7773.2	7600.0	7357.5	7098.4	7085.9	6961.2	6477.6
32.5°	7867.4	7961.6	8053.0	8112.6	8194.4	8118.2	7877.1	7720.5	7721.9	7609.7	7141.3
35°	8071.1	8179.1	8312.2	8470.1	8641.9	8610.1	8467.3	8470.1	8492.3	8529.7	7987.9
37.5°	8296.9	8384.2	8540.8	8761.1	9023.0	9089.5	9070.1	9290.4	9398.5	9465.0	8732.0
40°	8431.3	8520.0	8715.4	9011.9	9392.9	9552.3	9731.0	10117.6	10258.9	10189.6	9368.0
42.5°	8283.1	8362.0	8701.5	9214.2	9696.4	10058.0	10378.1	10943.4	11045.9	10820.1	9904.2
45°	8090.5	8193.0	8550.5	9269.6	9965.2	10554.0	11051.5	11662.5	11738.7	11418.6	10378.1
47.5°	7932.5	8022.6	8439.6	9210.0	10213.2	11062.6	11643.1	12341.4	12360.8	11966.0	10868.6
50°	7730.2	7839.7	8274.7	9136.6	10362.8	11512.9	12184.9	12974.7	13017.6	12532.7	11284.2
52.5°	7518.2	7624.9	8075.2	9016.0	10470.9	11887.0	12747.4	13648.1	13652.2	13132.6	11727.6
55°	7205.1	7318.7	7817.5	8841.4	10504.2	12135.0	13312.7	14335.3	14378.3	13740.9	12129.5
57.5°	6873.9	6970.9	7507.1	8569.9	10380.8	12369.2	13893.3	15098.8	15216.5	14426.8	12474.5
60°	6434.7	6531.7	7098.4	8213.8	10119.0	12632.4	14558.4	16018.8	16031.3	14982.4	12725.3
62.5°	5962.2	6046.7	6567.7	7655.4	9713.0	12733.6	15129.3	16754.6	16753.2	15477.0	12850.0
65°	5401.0	5435.7	5966.4	6969.5	9082.5	12585.3	15381.4	17239.5	17192.4	15833.1	12808.4
67.5°	4735.9	4773.4	5175.2	6117.4	8168.1	12006.1	15269.2	17473.7	17520.8	16150.4	12628.3
70°	3893.5	3937.8	4288.4	5083.7	7002.8	11081.9	15005.9	17574.8	17615.0	16023.0	12072.6
72.5°	2873.7	2933.3	3148.1	3784.0	5315.1	9311.2	13786.6	16467.7	16489.9	14958.8	10915.7
75°	1784.6	1894.1	2096.4	2514.8	3448.7	6530.3	11784.4	14721.9	14583.3	13343.2	9032.7
77.5°	713.6	731.6	832.7	1177.8	1682.1	3400.2	8542.2	11702.7	11967.3	10676.0	6461.0
80°	415.7	412.9	436.5	548.7	721.9	1162.5	3322.6	6564.9	7317.3	5863.8	2907.0
82.5°	335.3	322.8	322.8	351.9	346.4	489.1	1089.1	1917.7	2103.3	1866.4	827.2
85°	176.0	171.8	139.9	173.2	173.2	243.9	418.4	543.2	573.6	500.2	310.4
87.5°	44.3	44.3	44.3	54.0	43.0	51.3	70.7	85.9	88.7	72.1	45.7
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°	4307.8	4307.8	4307.8	4307.8	4307.8	4307.8	4307.8	4307.8	4307.8	4307.8	4307.8
2.5°	4339.7	4352.1	4400.6	4393.7	4402.0	4402.0	4415.9	4431.1	4476.8	4450.5	4439.4
5°	4389.5	4414.5	4475.5	4497.6	4530.9	4535.0	4562.7	4572.4	4622.3	4594.6	4594.6
7.5°	4485.2	4514.3	4571.1	4579.4	4594.6	4568.3	4575.2	4544.7	4578.0	4544.7	4546.1
10°	4593.2	4612.6	4651.4	4596.0	4572.4	4510.1	4496.2	4421.4	4447.7	4404.8	4393.7
12.5°	4697.2	4690.2	4661.1	4562.7	4497.6	4395.1	4352.1	4251.0	4245.4	4188.6	4177.6
15°	4795.5	4747.0	4652.8	4500.4	4389.5	4246.8	4144.3	4033.5	3994.7	3929.5	3924.0
17.5°	4916.1	4832.9	4665.3	4440.8	4259.3	4051.5	3906.0	3781.3	3700.9	3641.3	3639.9
20°	5062.9	4935.5	4670.8	4372.9	4124.9	3858.9	3655.2	3497.2	3382.2	3307.4	3306.0
22.5°	5247.2	5074.0	4722.1	4295.3	3953.1	3626.1	3372.5	3099.6	2941.6	2789.2	2761.5
25°	5463.4	5214.0	4766.4	4255.1	3784.0	3383.6	3006.7	2607.7	2362.4	2240.5	2194.8
27.5°	5766.8	5446.8	4831.6	4178.9	3624.7	3084.3	2535.6	2100.6	1805.4	1701.5	1701.5
30°	6117.4	5740.5	4953.5	4133.2	3403.0	2664.5	2018.8	1551.9	1277.5	1120.9	1116.8
32.5°	6652.2	6091.1	5064.3	4034.8	3134.2	2207.2	1460.4	1000.4	780.1	683.1	677.6
35°	7421.2	6758.9	5243.1	3936.5	2744.9	1643.3	927.0	573.6	444.8	389.4	386.6
37.5°	8161.1	7394.9	5628.3	3741.1	2192.0	1032.3	514.1	331.2	271.6	264.6	261.9
40°	8682.1	7943.6	5899.8	3443.2	1557.4	547.3	297.9	239.7	235.6	232.8	231.4
42.5°	9250.2	8351.0	6092.4	3063.5	924.2	317.3	242.5	216.2	209.2	206.5	206.5
45°	9711.6	8743.1	6128.5	2520.4	465.6	261.9	221.7	196.8	188.4	194.0	195.4
47.5°	10137.0	9113.0	6006.5	1895.5	314.5	243.9	207.8	182.9	177.4	191.2	191.2
50°	10500.0	9426.2	5726.6	1414.7	295.1	230.0	194.0	169.0	167.7	180.1	181.5
52.5°	10861.6	9678.3	5286.0	1068.3	279.9	214.8	180.1	156.6	152.4	160.7	162.1
55°	11148.5	9768.4	4959.0	795.3	268.8	200.9	167.7	144.1	134.4	133.0	135.8
57.5°	11306.4	9689.4	4639.0	584.7	256.3	188.4	155.2	127.5	112.2	112.2	112.2
60°	11309.2	9593.8	4296.7	462.8	242.5	174.6	141.3	109.5	94.2	91.4	91.4
62.5°	11278.7	9423.4	3799.3	401.8	227.2	163.5	123.3	92.8	81.7	77.6	77.6
65°	11144.3	9101.9	3196.6	343.6	209.2	155.2	105.3	83.1	73.4	67.9	67.9
67.5°	10725.9	8499.2	2460.8	299.3	192.6	137.2	95.6	74.8	65.1	59.6	58.2
70°	9958.2	7525.1	1623.9	254.9	176.0	121.9	87.3	67.9	58.2	52.7	51.3
72.5°	8671.0	6124.3	816.1	216.2	151.0	112.2	79.0	59.6	49.9	44.3	44.3
75°	6794.9	4251.0	444.8	171.8	119.2	98.4	69.3	49.9	43.0	38.8	38.8
77.5°	4166.5	2107.5	303.4	133.0	90.1	80.4	55.4	41.6	37.4	36.0	36.0
80°	1520.0	690.0	203.7	94.2	67.9	62.4	44.3	36.0	34.6	34.6	34.6
82.5°	548.7	350.6	137.2	63.7	43.0	47.1	36.0	30.5	29.1	30.5	31.9
85°	225.9	153.8	49.9	36.0	23.6	24.9	22.2	20.8	22.2	23.6	23.6
87.5°	34.6	30.5	18.0	18.0	13.9	12.5	9.7	11.1	13.9	16.6	16.6
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)