

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: P510094

Luminaire Tested: **VERD-M-CA4-200-750-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510094
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-CA4-200-750-U-T3-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 5000K, 910mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27359 lumens
Efficiency: N/A
Efficacy: 135.6 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

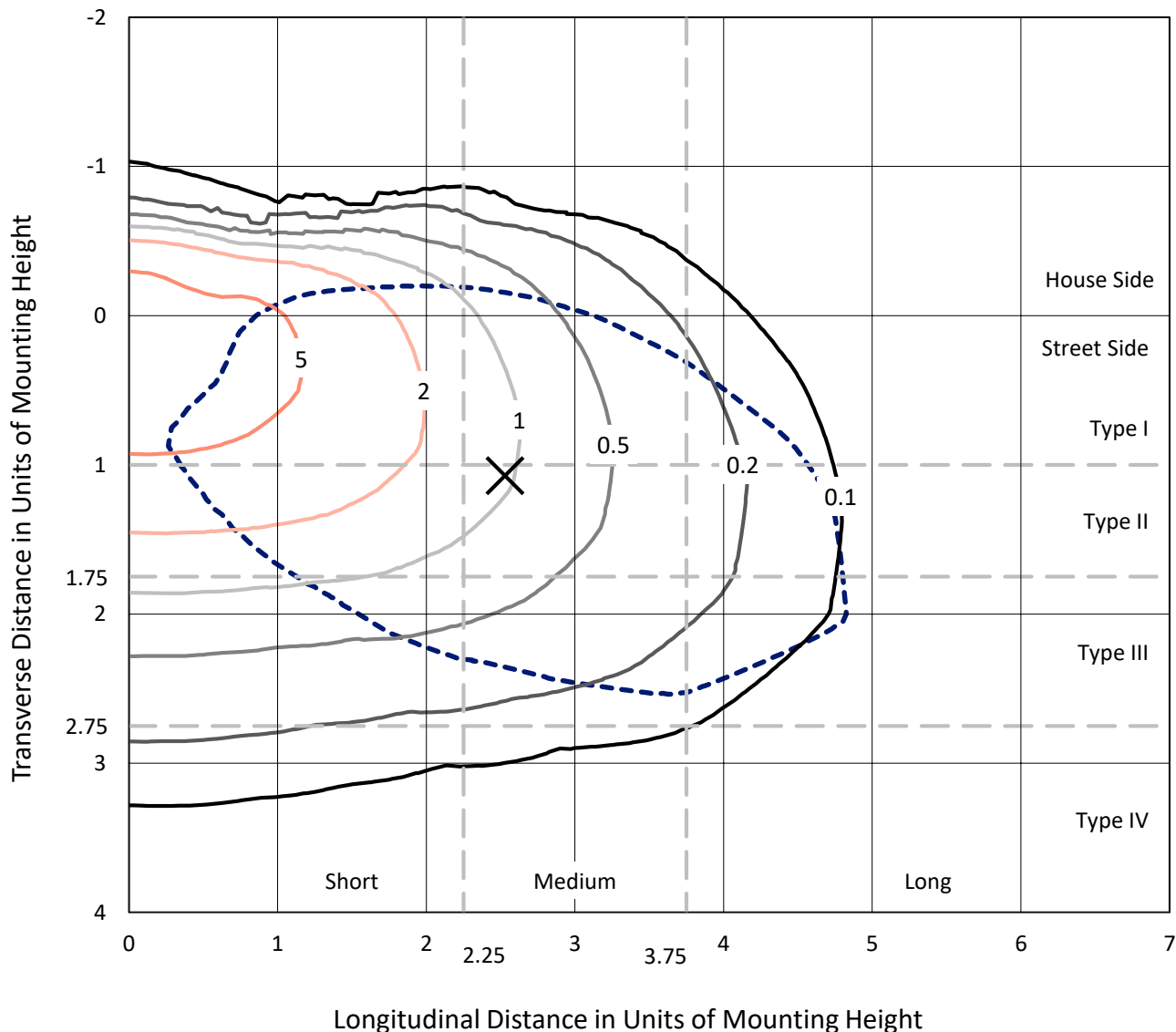
Input Watts (W): 201.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

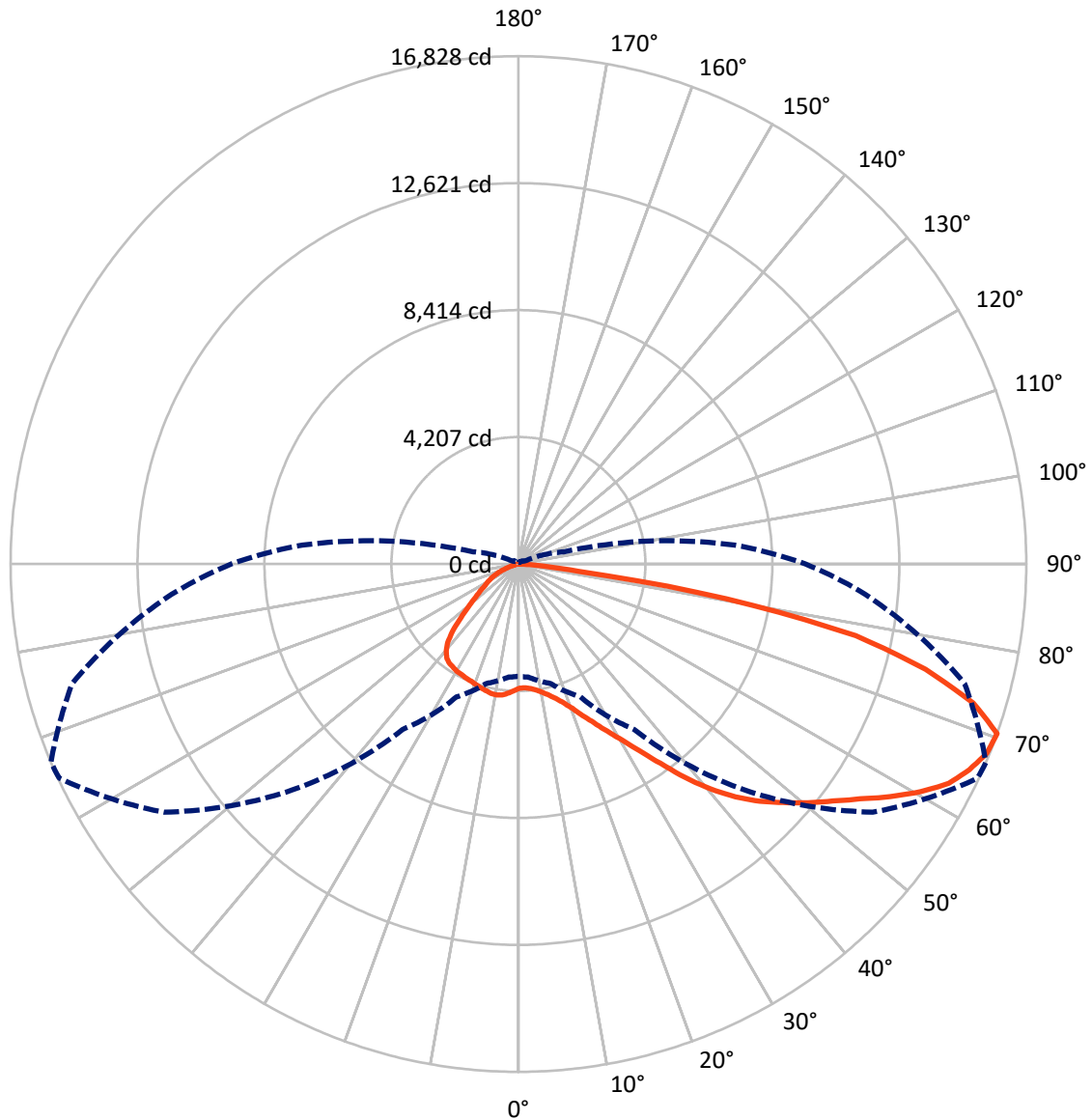
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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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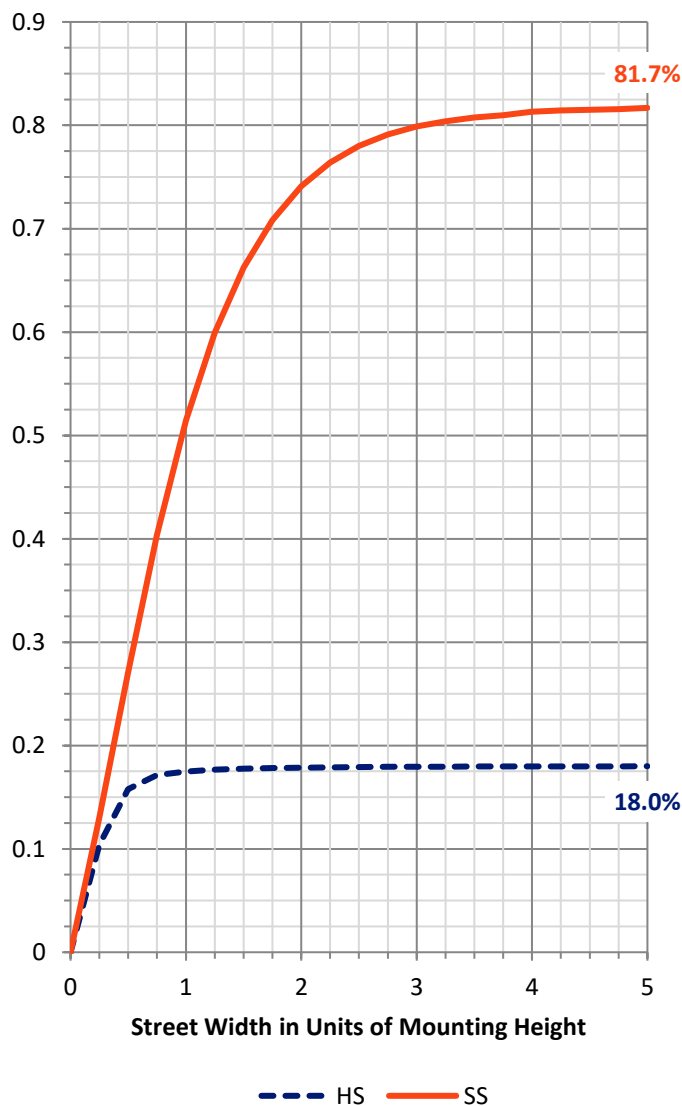
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4985.0	0.0	4985.0
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	22374.0	0.0	22374.0
	% Fixture	81.8	0.0	81.8
Total	Lumens	27359.0	0.0	27359.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.0	1.5
10°-20°	1279.2	4.7
20°-30°	2219.4	8.1
30°-40°	3296.3	12.0
40°-50°	4522.4	16.5
50°-60°	5553.7	20.3
60°-70°	5954.2	21.8
70°-80°	3779.8	13.8
80°-90°	344.0	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°	27359.0	100.0
0°-180°	27359.0	100.0

Coefficient of Utilization



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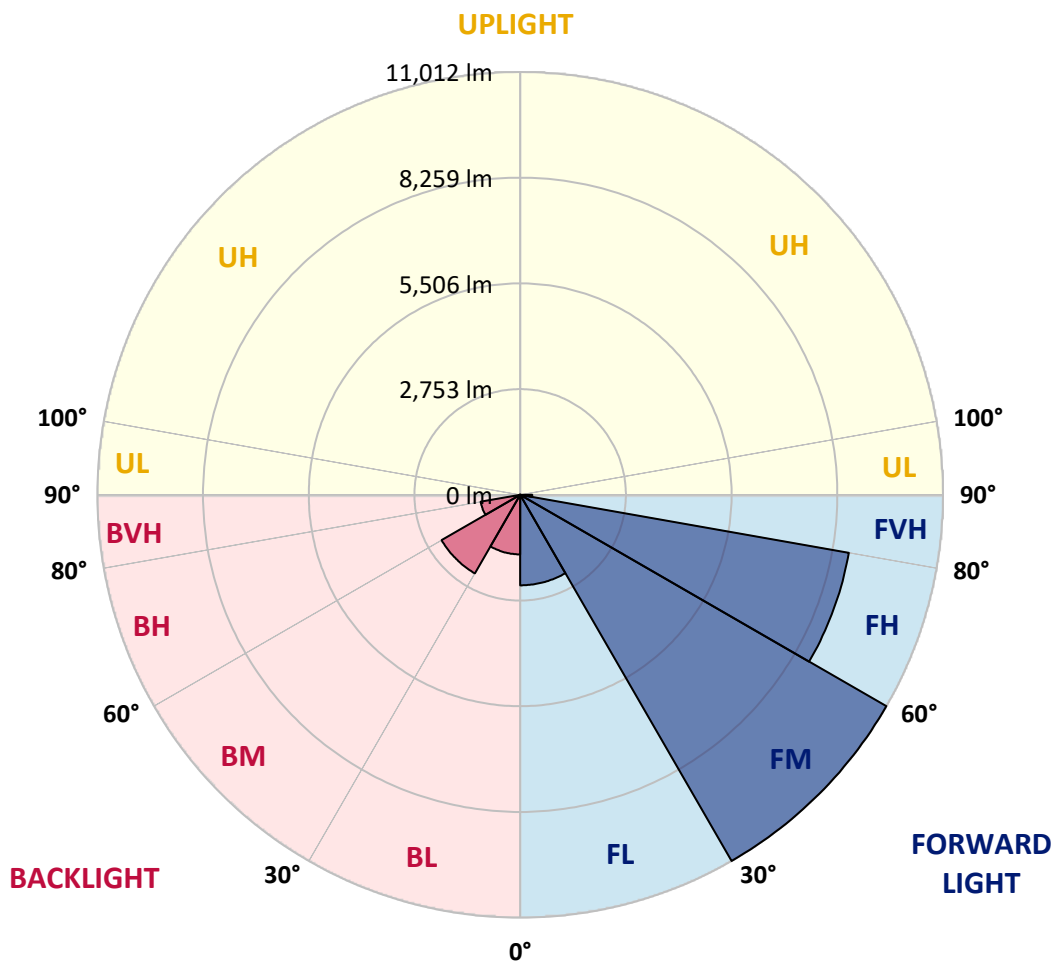
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2357.2	8.6			
FM (30°-60°)	11011.7	40.2			
FH (60°-80°)	8691.3	31.8			G4/12000
FVH (80°-90°)	313.7	1.1			G3/500
BL (0°-30°)	1551.4	5.7	B3/2500		
BM (30°-60°)	2360.7	8.6	B2/2500		
BH (60°-80°)	1042.7	3.8	B3/2500		G3/2500
BVH (80°-90°)	30.2	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°	4115.4	4115.4	4115.4	4115.4	4115.4	4115.4	4115.4	4115.4	4115.4	4115.4	4115.4
2.5°	4078.3	4116.7	4094.2	4091.6	4118.1	4092.9	4110.1	4106.1	4103.5	4107.5	4135.3
5°	4185.6	4230.6	4200.1	4190.9	4205.4	4160.4	4156.4	4147.2	4144.5	4145.9	4185.6
7.5°	4335.1	4388.1	4376.2	4352.4	4344.4	4270.3	4257.0	4224.0	4213.4	4216.0	4255.7
10°	4570.8	4623.7	4599.9	4546.9	4513.8	4429.1	4381.5	4339.1	4317.9	4320.6	4362.9
12.5°	4872.6	4922.9	4883.2	4786.5	4768.0	4631.7	4557.5	4467.5	4453.0	4431.8	4476.8
15°	5157.2	5200.8	5182.3	5092.3	5042.0	4880.5	4744.2	4633.0	4619.7	4599.9	4598.6
17.5°	5472.2	5515.9	5481.5	5415.3	5349.1	5157.2	5010.2	4867.3	4832.9	4815.7	4753.4
20°	5808.4	5877.3	5870.6	5816.4	5737.0	5511.9	5304.1	5142.6	5105.5	5073.8	4942.7
22.5°	6155.2	6245.3	6225.4	6196.3	6163.2	5910.4	5668.1	5481.5	5453.7	5386.2	5179.7
25°	6539.1	6601.3	6586.8	6601.3	6578.8	6355.1	6090.4	5862.7	5825.6	5762.1	5445.7
27.5°	6911.1	6975.9	7001.1	6970.6	6985.2	6825.0	6511.3	6307.5	6271.7	6155.2	5766.1
30°	7247.3	7328.0	7363.8	7377.0	7426.0	7260.5	7028.9	6781.4	6769.4	6650.3	6188.3
32.5°	7516.0	7606.0	7693.4	7750.3	7828.4	7755.6	7525.3	7375.7	7377.0	7269.8	6822.4
35°	7710.6	7813.8	7940.9	8091.8	8256.0	8225.5	8089.2	8091.8	8113.0	8148.7	7631.2
37.5°	7926.4	8009.8	8159.3	8369.8	8620.0	8683.5	8665.0	8875.5	8978.7	9042.3	8342.0
40°	8054.8	8139.5	8326.1	8609.4	8973.4	9125.6	9296.4	9665.7	9800.7	9734.6	8949.6
42.5°	7913.1	7988.6	8312.9	8802.7	9263.3	9608.8	9914.6	10454.6	10552.6	10336.8	9461.9
45°	7729.1	7827.1	8168.6	8855.6	9520.1	10082.7	10557.9	11141.7	11214.5	10908.7	9914.6
47.5°	7578.2	7664.3	8062.7	8798.7	9757.1	10568.5	11123.1	11790.3	11808.8	11431.5	10383.2
50°	7385.0	7489.5	7905.2	8728.5	9900.0	10998.7	11640.7	12395.2	12436.2	11972.9	10780.3
52.5°	7182.4	7284.4	7714.6	8613.4	10003.3	11356.1	12178.1	13038.5	13042.5	12546.1	11203.9
55°	6883.3	6991.8	7468.4	8446.6	10035.0	11593.0	12718.2	13695.1	13736.1	13127.2	11587.7
57.5°	6566.9	6659.6	7171.9	8187.1	9917.2	11816.7	13272.8	14424.4	14537.0	13782.5	11917.3
60°	6147.3	6240.0	6781.4	7846.9	9667.0	12068.2	13908.2	15303.4	15315.3	14313.3	12156.9
62.5°	5695.9	5776.7	6274.4	7313.5	9279.2	12164.9	14453.6	16006.3	16005.0	14785.8	12276.1
65°	5159.8	5192.9	5699.9	6658.3	8676.9	12023.2	14694.5	16469.6	16424.6	15126.0	12236.4
67.5°	4524.4	4560.2	4944.1	5844.2	7803.3	11469.9	14587.3	16693.3	16738.3	15429.1	12064.3
70°	3719.6	3762.0	4096.9	4856.7	6690.0	10587.0	14335.8	16789.9	16828.3	15307.4	11533.5
72.5°	2745.4	2802.3	3007.5	3615.0	5077.7	8895.3	13170.9	15732.3	15753.5	14290.8	10428.2
75°	1704.9	1809.5	2002.8	2402.5	3294.7	6238.6	11258.1	14064.4	13932.0	12747.3	8629.3
77.5°	681.7	698.9	795.5	1125.2	1607.0	3248.4	8160.7	11180.0	11432.9	10199.2	6172.5
80°	397.1	394.5	417.0	524.2	689.7	1110.6	3174.3	6271.7	6990.5	5601.9	2777.1
82.5°	320.3	308.4	308.4	336.2	330.9	467.3	1040.4	1832.0	2009.4	1783.0	790.3
85°	168.1	164.1	133.7	165.5	165.5	233.0	399.8	518.9	548.0	477.9	296.5
87.5°	42.4	42.4	42.4	51.6	41.0	49.0	67.5	82.1	84.7	68.8	43.7
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°	4115.4	4115.4	4115.4	4115.4	4115.4	4115.4	4115.4	4115.4	4115.4	4115.4	4115.4
2.5°	4145.9	4157.8	4204.1	4197.5	4205.4	4205.4	4218.7	4233.2	4276.9	4251.8	4241.2
5°	4193.5	4217.3	4275.6	4296.8	4328.5	4332.5	4359.0	4368.2	4415.9	4389.4	4389.4
7.5°	4284.8	4312.6	4366.9	4374.9	4389.4	4364.3	4370.9	4341.8	4373.5	4341.8	4343.1
10°	4388.1	4406.6	4443.7	4390.7	4368.2	4308.7	4295.4	4224.0	4249.1	4208.1	4197.5
12.5°	4487.4	4480.8	4453.0	4359.0	4296.8	4198.8	4157.8	4061.1	4055.8	4001.6	3991.0
15°	4581.4	4535.0	4445.0	4299.4	4193.5	4057.2	3959.2	3853.3	3816.3	3754.0	3748.7
17.5°	4696.5	4617.1	4456.9	4242.5	4069.1	3870.5	3731.5	3612.4	3535.6	3478.7	3477.4
20°	4836.8	4715.0	4462.2	4177.6	3940.7	3686.5	3491.9	3341.0	3231.2	3159.7	3158.4
22.5°	5012.9	4847.4	4511.2	4103.5	3776.5	3464.1	3221.9	2961.1	2810.2	2664.6	2638.2
25°	5219.4	4981.1	4553.6	4065.1	3615.0	3232.5	2872.4	2491.2	2256.9	2140.4	2096.8
27.5°	5509.3	5203.5	4615.8	3992.3	3462.8	2946.6	2422.4	2006.7	1724.8	1625.5	1625.5
30°	5844.2	5484.1	4732.3	3948.6	3251.0	2545.5	1928.6	1482.6	1220.5	1070.9	1066.9
32.5°	6355.1	5819.0	4838.2	3854.6	2994.2	2108.7	1395.2	955.7	745.2	652.6	647.3
35°	7089.8	6457.0	5008.9	3760.7	2622.3	1569.9	885.6	548.0	424.9	372.0	369.3
37.5°	7796.6	7064.6	5376.9	3574.0	2094.1	986.2	491.1	316.4	259.4	252.8	250.2
40°	8294.4	7588.8	5636.3	3289.4	1487.8	522.9	284.6	229.0	225.0	222.4	221.1
42.5°	8837.1	7978.0	5820.3	2926.7	882.9	303.1	231.6	206.5	199.9	197.2	197.2
45°	9277.9	8352.6	5854.8	2407.8	444.8	250.2	211.8	188.0	180.0	185.3	186.6
47.5°	9684.2	8706.0	5738.3	1810.8	300.5	233.0	198.6	174.7	169.4	182.7	182.7
50°	10031.1	9005.2	5470.9	1351.5	281.9	219.7	185.3	161.5	160.2	172.1	173.4
52.5°	10376.5	9246.1	5049.9	1020.6	267.4	205.2	172.1	149.6	145.6	153.6	154.9
55°	10650.6	9332.1	4737.6	759.8	256.8	191.9	160.2	137.7	128.4	127.1	129.7
57.5°	10801.5	9256.7	4431.8	558.6	244.9	180.0	148.3	121.8	107.2	107.2	107.2
60°	10804.1	9165.4	4104.8	442.1	231.6	166.8	135.0	104.6	90.0	87.4	87.4
62.5°	10775.0	9002.5	3629.6	383.9	217.1	156.2	117.8	88.7	78.1	74.1	74.1
65°	10646.6	8695.4	3053.8	328.3	199.9	148.3	100.6	79.4	70.2	64.9	64.9
67.5°	10246.8	8119.6	2350.9	285.9	184.0	131.0	91.3	71.5	62.2	56.9	55.6
70°	9513.5	7189.1	1551.4	243.6	168.1	116.5	83.4	64.9	55.6	50.3	49.0
72.5°	8283.8	5850.8	779.7	206.5	144.3	107.2	75.5	56.9	47.7	42.4	42.4
75°	6491.5	4061.1	424.9	164.1	113.8	94.0	66.2	47.7	41.0	37.1	37.1
77.5°	3980.4	2013.4	289.9	127.1	86.0	76.8	52.9	39.7	35.7	34.4	34.4
80°	1452.1	659.2	194.6	90.0	64.9	59.6	42.4	34.4	33.1	33.1	33.1
82.5°	524.2	334.9	131.0	60.9	41.0	45.0	34.4	29.1	27.8	29.1	30.4
85°	215.8	146.9	47.7	34.4	22.5	23.8	21.2	19.9	21.2	22.5	22.5
87.5°	33.1	29.1	17.2	17.2	13.2	11.9	9.3	10.6	13.2	15.9	15.9
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)