

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: P510102

Luminaire Tested: **VERD-M-CA4-200-760-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510102
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-CA4-200-760-U-T3-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 5700K, 910mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26780 lumens
Efficiency: N/A
Efficacy: 132.7 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

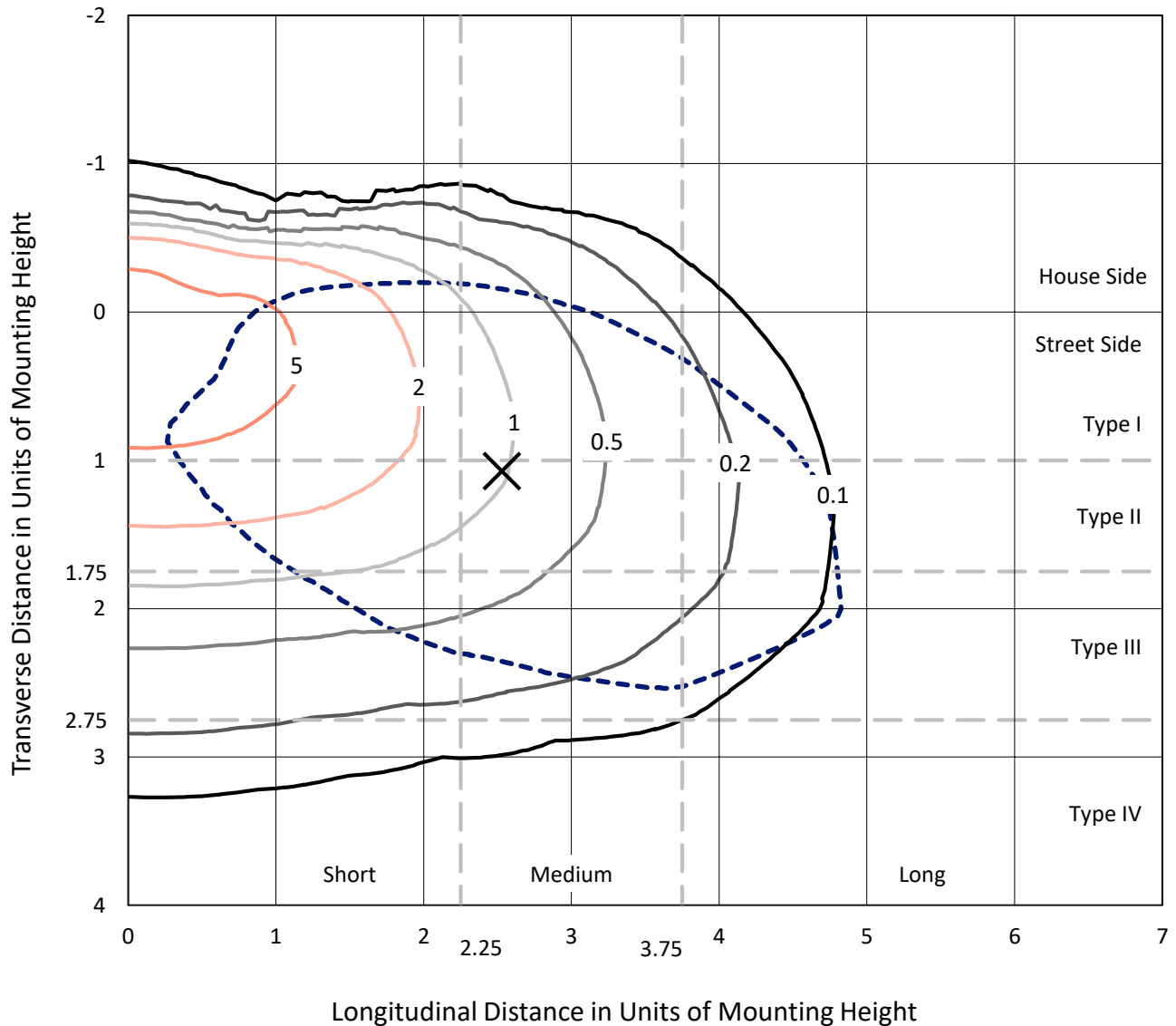
Input Watts (W): 201.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

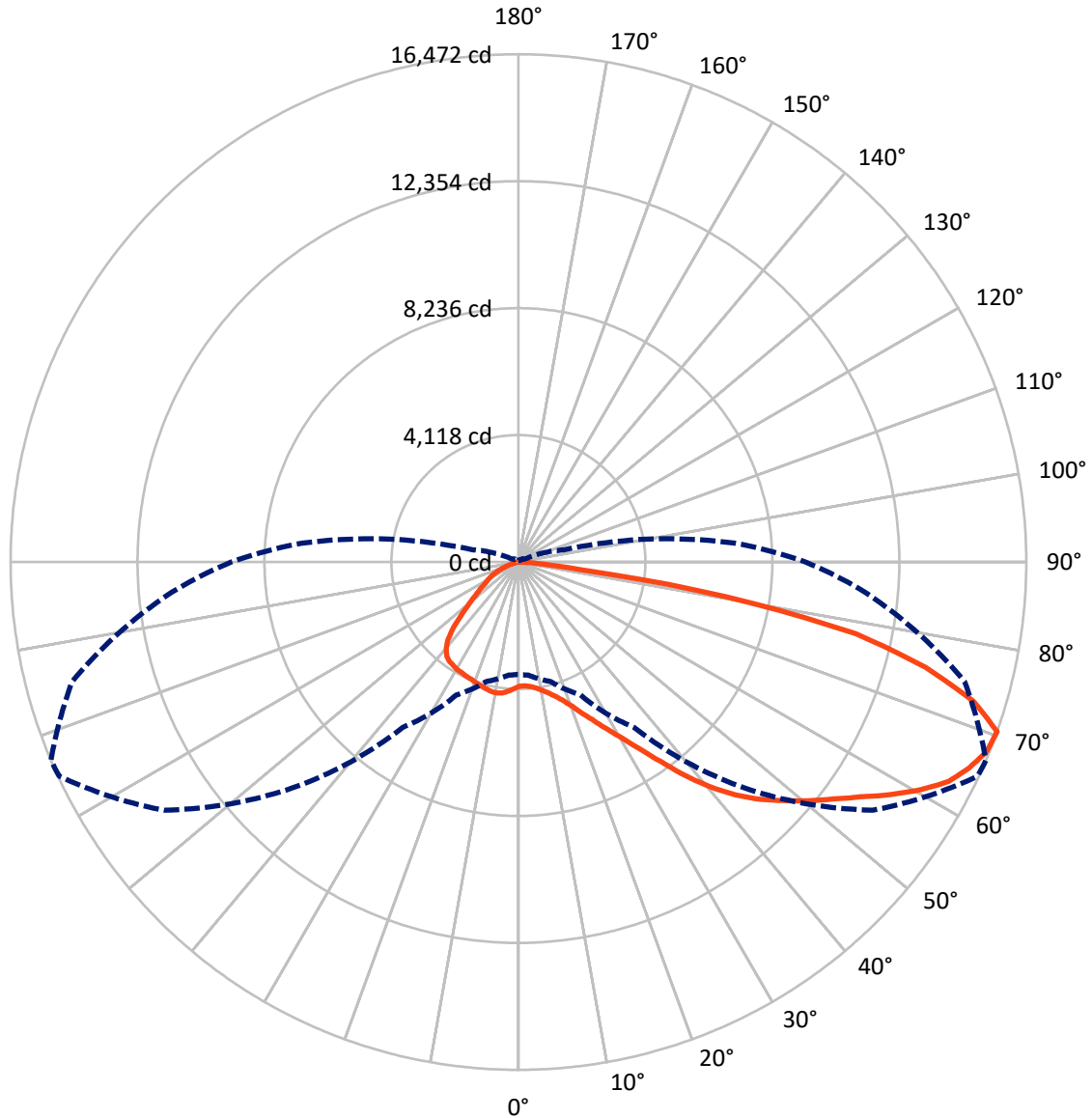
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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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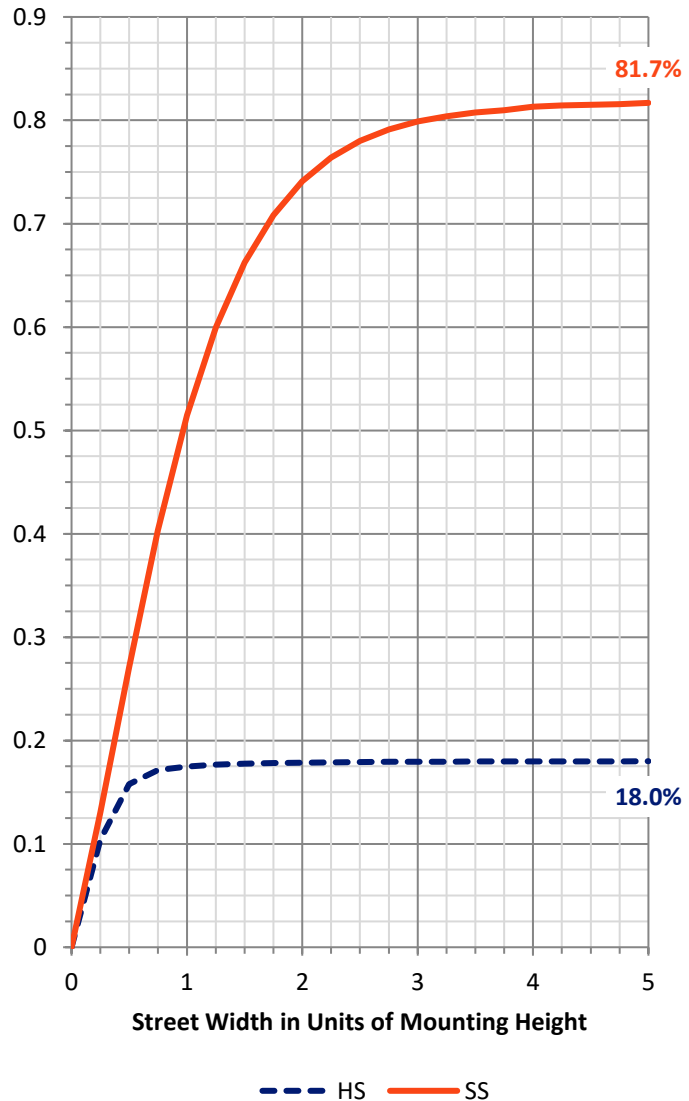
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4879.5	0.0	4879.5
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	21900.5	0.0	21900.5
	% Fixture	81.8	0.0	81.8
Total	Lumens	26780.0	0.0	26780.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.3	1.5
10°-20°	1252.1	4.7
20°-30°	2172.5	8.1
30°-40°	3226.6	12.0
40°-50°	4426.7	16.5
50°-60°	5436.2	20.3
60°-70°	5828.2	21.8
70°-80°	3699.8	13.8
80°-90°	336.7	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°	26780.0	100.0
0°-180°	26780.0	100.0



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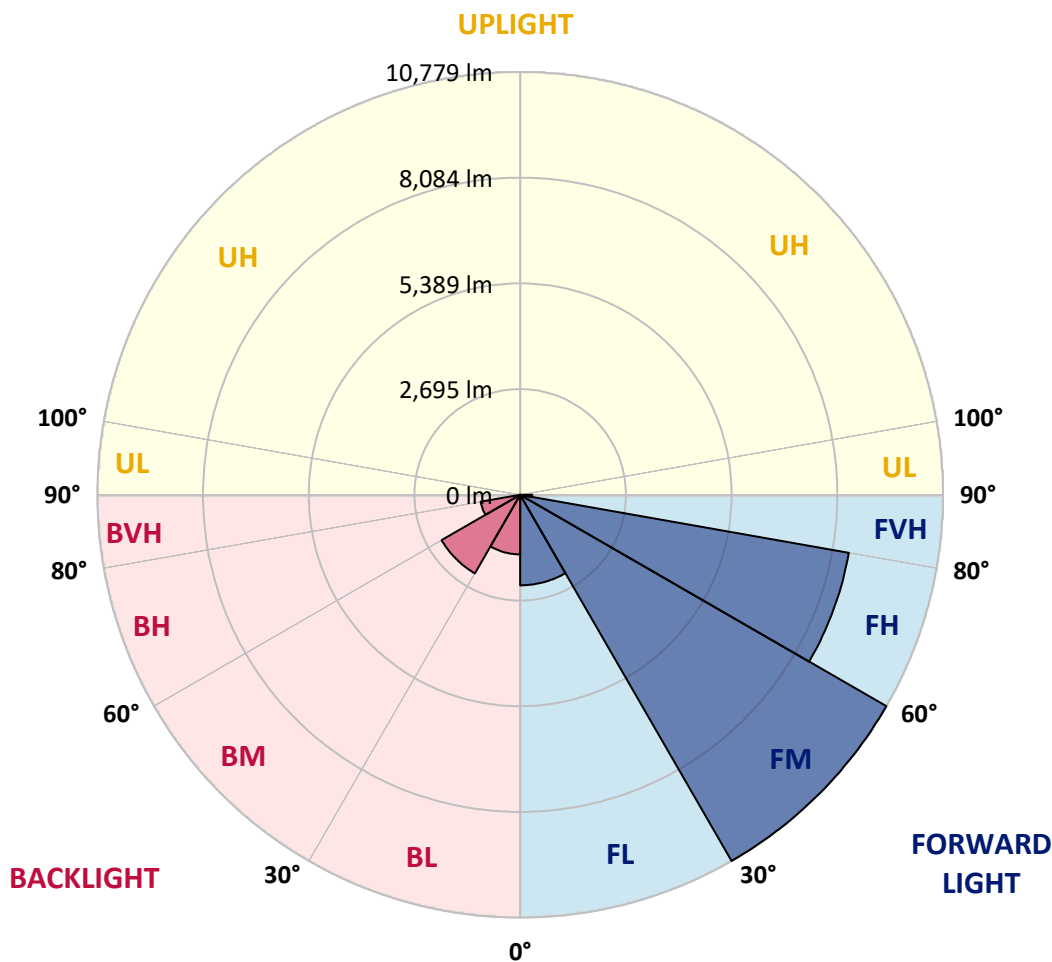
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2307.3	8.6			
FM	(30°-60°)	10778.7	40.2			
FH	(60°-80°)	8507.4	31.8			G4/12000
FVH	(80°-90°)	307.1	1.1			G3/500
BL	(0°-30°)	1518.6	5.7	B3/2500		
BM	(30°-60°)	2310.7	8.6	B2/2500		
BH	(60°-80°)	1020.6	3.8	B3/2500		G3/2500
BVH	(80°-90°)	29.6	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°	4028.3	4028.3	4028.3	4028.3	4028.3	4028.3	4028.3	4028.3	4028.3	4028.3	4028.3
2.5°	3992.0	4029.6	4007.6	4005.0	4030.9	4006.3	4023.1	4019.2	4016.7	4020.5	4047.7
5°	4097.0	4141.0	4111.2	4102.2	4116.4	4072.4	4068.5	4059.4	4056.8	4058.1	4097.0
7.5°	4243.4	4295.2	4283.6	4260.2	4252.5	4179.9	4167.0	4134.6	4124.2	4126.8	4165.7
10°	4474.0	4525.9	4502.5	4450.7	4418.3	4335.4	4288.7	4247.3	4226.6	4229.1	4270.6
12.5°	4769.5	4818.7	4779.8	4685.2	4667.1	4533.6	4461.1	4373.0	4358.7	4338.0	4382.0
15°	5048.0	5090.8	5072.6	4984.5	4935.3	4777.2	4643.8	4534.9	4522.0	4502.5	4501.2
17.5°	5356.4	5399.2	5365.5	5300.7	5235.9	5048.0	4904.2	4764.3	4730.6	4713.7	4652.8
20°	5685.5	5752.9	5746.4	5693.3	5615.5	5395.3	5191.8	5033.8	4997.5	4966.4	4838.1
22.5°	6025.0	6113.1	6093.7	6065.1	6032.8	5785.3	5548.2	5365.5	5338.3	5272.2	5070.1
25°	6400.7	6461.6	6447.4	6461.6	6439.6	6220.6	5961.5	5738.6	5702.4	5640.2	5330.5
27.5°	6764.8	6828.3	6852.9	6823.1	6837.4	6680.6	6373.5	6174.0	6139.0	6025.0	5644.0
30°	7093.9	7173.0	7207.9	7220.9	7268.8	7106.9	6880.1	6637.8	6626.2	6509.6	6057.4
32.5°	7357.0	7445.1	7530.6	7586.3	7662.7	7591.5	7366.0	7219.6	7220.9	7116.0	6678.0
35°	7547.4	7648.5	7772.9	7920.6	8081.2	8051.4	7918.0	7920.6	7941.3	7976.3	7469.7
37.5°	7758.6	7840.2	7986.7	8192.7	8437.6	8499.8	8481.6	8687.6	8788.7	8850.9	8165.5
40°	7884.3	7967.2	8149.9	8427.2	8783.5	8932.5	9099.7	9461.2	9593.3	9528.5	8760.2
42.5°	7745.7	7819.5	8137.0	8616.4	9067.3	9405.4	9704.8	10233.4	10329.3	10118.1	9261.6
45°	7565.6	7661.4	7995.7	8668.2	9318.6	9869.3	10334.5	10905.9	10977.1	10677.8	9704.8
47.5°	7417.9	7502.1	7892.1	8612.5	9550.6	10344.8	10887.7	11540.8	11558.9	11189.6	10163.4
50°	7228.7	7331.0	7737.9	8543.8	9690.5	10765.9	11394.3	12132.9	12173.0	11719.6	10552.1
52.5°	7030.4	7130.2	7551.3	8431.1	9791.6	11115.8	11920.4	12762.6	12766.5	12280.6	10966.8
55°	6737.6	6843.9	7310.3	8267.8	9822.7	11347.7	12449.0	13405.3	13445.4	12849.4	11342.5
57.5°	6427.9	6518.6	7020.1	8013.9	9707.3	11566.7	12991.9	14119.2	14229.3	13490.8	11665.1
60°	6017.2	6107.9	6637.8	7680.9	9462.5	11812.8	13613.9	14979.5	14991.2	14010.3	11899.7
62.5°	5575.4	5654.4	6141.6	7158.7	9082.8	11907.4	14147.7	15667.5	15666.2	14472.9	12016.3
65°	5050.6	5083.0	5579.3	6517.3	8493.3	11768.8	14383.5	16121.0	16077.0	14805.9	11977.4
67.5°	4428.7	4463.7	4839.4	5720.5	7638.1	11227.2	14278.6	16340.0	16384.1	15102.6	11809.0
70°	3640.9	3682.4	4010.2	4753.9	6548.4	10363.0	14032.4	16434.6	16472.2	14983.4	11289.4
72.5°	2687.3	2743.0	2943.8	3538.5	4970.3	8707.1	12892.2	15399.3	15420.1	13988.3	10207.5
75°	1668.9	1771.2	1960.4	2351.7	3225.0	6106.6	11019.9	13766.8	13637.2	12477.5	8446.6
77.5°	667.3	684.1	778.7	1101.3	1573.0	3179.6	7988.0	10943.4	11190.9	9983.3	6041.8
80°	388.7	386.1	408.1	513.1	675.1	1087.1	3107.1	6139.0	6842.6	5483.4	2718.4
82.5°	313.6	301.9	301.9	329.1	323.9	457.4	1018.4	1793.2	1966.9	1745.3	773.5
85°	164.6	160.7	130.9	162.0	162.0	228.0	391.3	507.9	536.4	467.7	290.2
87.5°	41.5	41.5	41.5	50.5	40.2	47.9	66.1	80.3	82.9	67.4	42.8
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°	4028.3	4028.3	4028.3	4028.3	4028.3	4028.3	4028.3	4028.3	4028.3	4028.3	4028.3
2.5°	4058.1	4069.8	4115.1	4108.6	4116.4	4116.4	4129.4	4143.6	4186.4	4161.8	4151.4
5°	4104.8	4128.1	4185.1	4205.8	4236.9	4240.8	4266.7	4275.8	4322.4	4296.5	4296.5
7.5°	4194.2	4221.4	4274.5	4282.3	4296.5	4271.9	4278.4	4249.9	4281.0	4249.9	4251.2
10°	4295.2	4313.4	4349.6	4297.8	4275.8	4217.5	4204.5	4134.6	4159.2	4119.0	4108.6
12.5°	4392.4	4385.9	4358.7	4266.7	4205.8	4109.9	4069.8	3975.2	3970.0	3916.9	3906.5
15°	4484.4	4439.0	4350.9	4208.4	4104.8	3971.3	3875.4	3771.8	3735.5	3674.6	3669.4
17.5°	4597.1	4519.4	4362.6	4152.7	3983.0	3788.6	3652.6	3536.0	3460.8	3405.1	3403.8
20°	4734.5	4615.3	4367.8	4089.2	3857.3	3608.5	3418.0	3270.3	3162.8	3092.8	3091.5
22.5°	4906.8	4744.8	4415.7	4016.7	3696.6	3390.8	3153.7	2898.5	2750.8	2608.2	2582.3
25°	5108.9	4875.7	4457.2	3979.1	3538.5	3164.1	2811.7	2438.5	2209.2	2095.1	2052.4
27.5°	5392.7	5093.4	4518.1	3907.8	3389.5	2884.2	2371.1	1964.3	1688.3	1591.1	1591.1
30°	5720.5	5368.1	4632.1	3865.1	3182.2	2491.6	1887.8	1451.2	1194.6	1048.2	1044.3
32.5°	6220.6	5695.9	4735.8	3773.1	2930.9	2064.0	1365.7	935.5	729.5	638.8	633.6
35°	6939.7	6320.4	4902.9	3681.1	2566.8	1536.7	866.8	536.4	415.9	364.1	361.5
37.5°	7631.6	6915.1	5263.1	3498.4	2049.8	965.3	480.7	309.7	254.0	247.5	244.9
40°	8118.8	7428.2	5517.1	3219.8	1456.4	511.8	278.6	224.2	220.3	217.7	216.4
42.5°	8650.1	7809.2	5697.2	2864.8	864.2	296.7	226.7	202.1	195.6	193.1	193.1
45°	9081.5	8175.8	5730.9	2356.9	435.4	244.9	207.3	184.0	176.2	181.4	182.7
47.5°	9479.3	8521.8	5616.8	1772.5	294.1	228.0	194.4	171.0	165.8	178.8	178.8
50°	9818.8	8814.6	5355.1	1322.9	276.0	215.1	181.4	158.1	156.8	168.4	169.7
52.5°	10156.9	9050.4	4943.1	999.0	261.7	200.8	168.4	146.4	142.5	150.3	151.6
55°	10425.2	9134.6	4637.3	743.7	251.4	187.9	156.8	134.8	125.7	124.4	127.0
57.5°	10572.9	9060.8	4338.0	546.8	239.7	176.2	145.1	119.2	105.0	105.0	105.0
60°	10575.5	8971.4	4017.9	432.8	226.7	163.3	132.2	102.4	88.1	85.5	85.5
62.5°	10547.0	8812.0	3552.8	375.8	212.5	152.9	115.3	86.8	76.4	72.6	72.6
65°	10421.3	8511.4	2989.2	321.3	195.6	145.1	98.5	77.7	68.7	63.5	63.5
67.5°	10030.0	7947.8	2301.2	279.9	180.1	128.3	89.4	70.0	60.9	55.7	54.4
70°	9312.2	7036.9	1518.6	238.4	164.6	114.0	81.6	63.5	54.4	49.2	47.9
72.5°	8108.5	5727.0	763.2	202.1	141.2	105.0	73.9	55.7	46.6	41.5	41.5
75°	6354.1	3975.2	415.9	160.7	111.4	92.0	64.8	46.6	40.2	36.3	36.3
77.5°	3896.2	1970.8	283.8	124.4	84.2	75.2	51.8	38.9	35.0	33.7	33.7
80°	1421.4	645.3	190.5	88.1	63.5	58.3	41.5	33.7	32.4	32.4	32.4
82.5°	513.1	327.8	128.3	59.6	40.2	44.1	33.7	28.5	27.2	28.5	29.8
85°	211.2	143.8	46.6	33.7	22.0	23.3	20.7	19.4	20.7	22.0	22.0
87.5°	32.4	28.5	16.8	16.8	13.0	11.7	9.1	10.4	13.0	15.5	15.5
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)