

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: P510086

Luminaire Tested: **VERD-M-CA4-200-740-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510086
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-CA4-200-740-U-T3-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 4000K, 910mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26867 lumens
Efficiency: N/A
Efficacy: 133.1 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

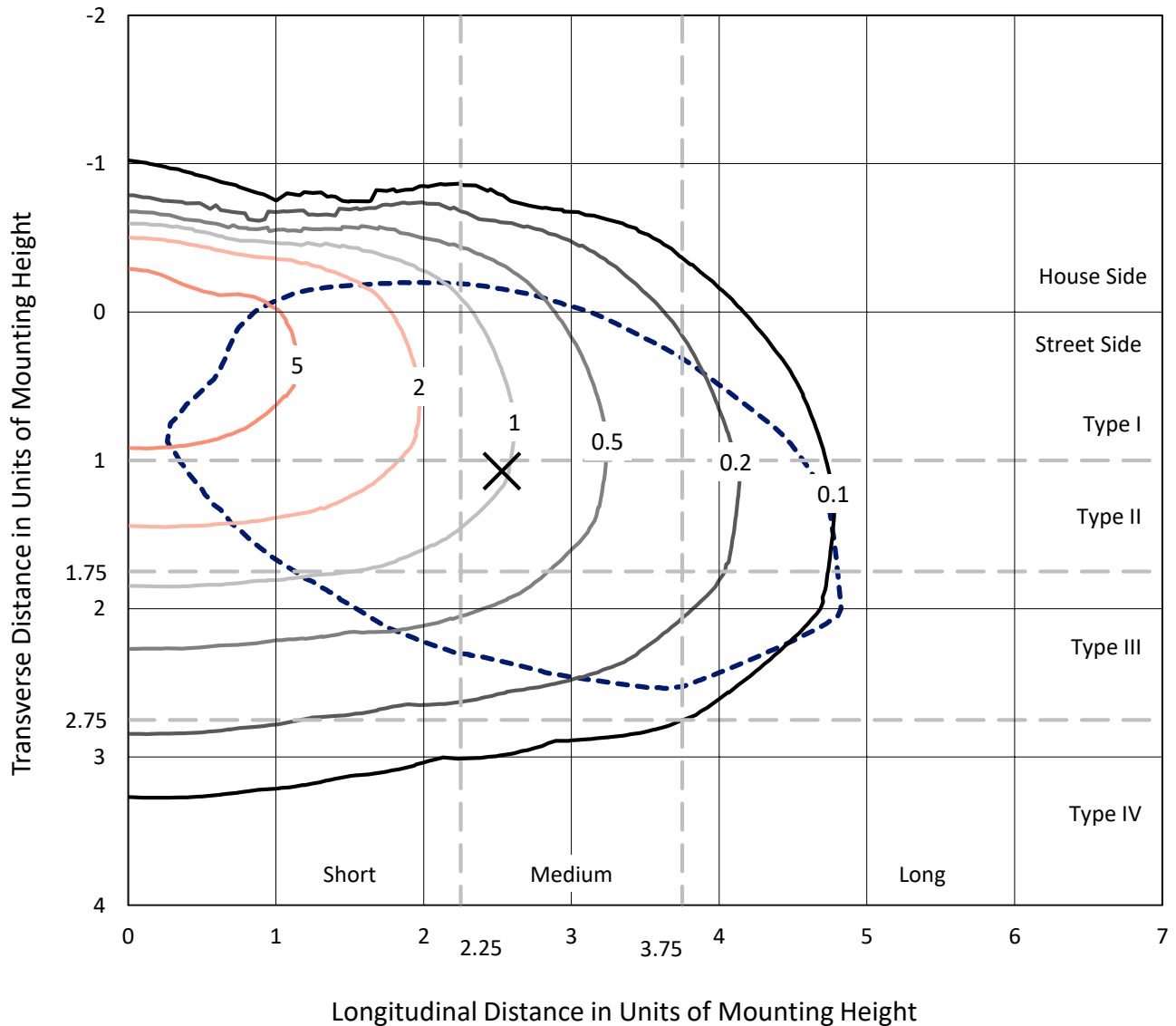
Input Watts (W): 201.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

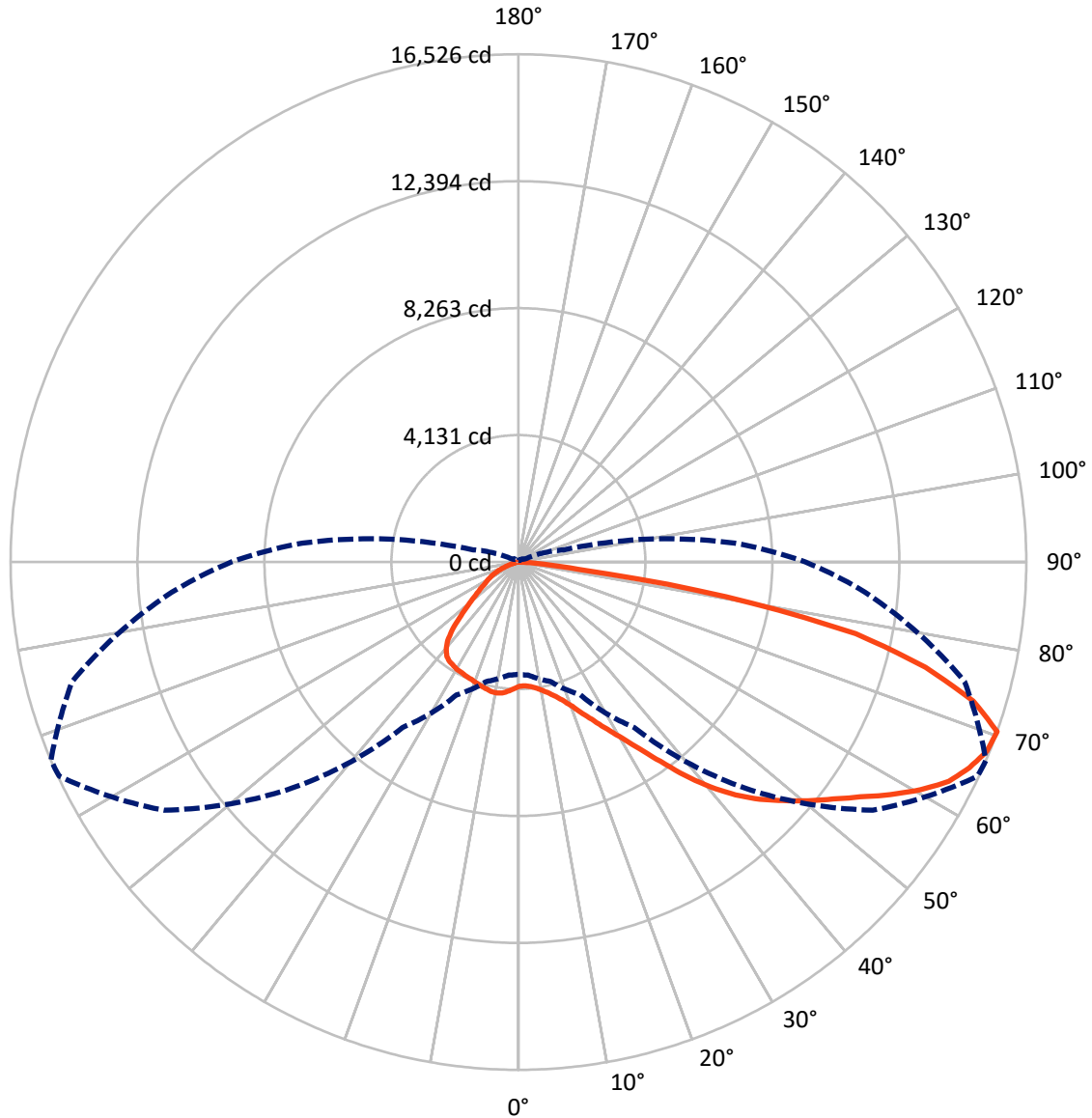
✕ Max cd
 - - - 1/2 Max cd



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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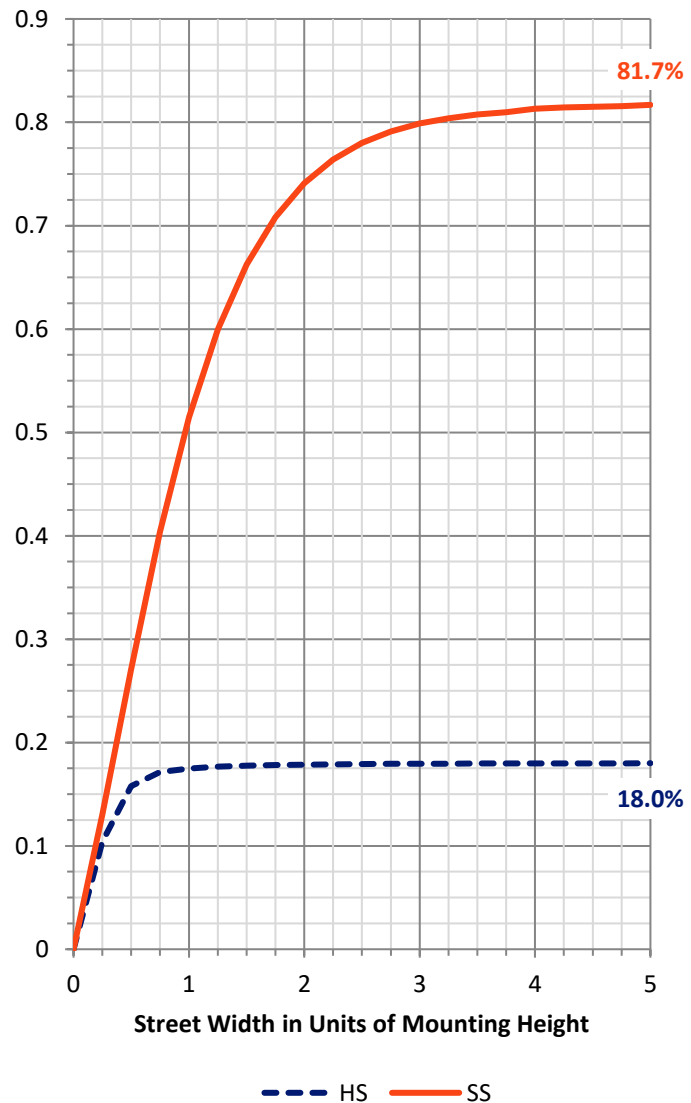
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4895.4	0.0	4895.4
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	21971.6	0.0	21971.6
	% Fixture	81.8	0.0	81.8
Total	Lumens	26867.0	0.0	26867.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.6	1.5
10°-20°	1256.2	4.7
20°-30°	2179.5	8.1
30°-40°	3237.0	12.0
40°-50°	4441.0	16.5
50°-60°	5453.9	20.3
60°-70°	5847.1	21.8
70°-80°	3711.8	13.8
80°-90°	337.8	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°	26867.0	100.0
0°-180°	26867.0	100.0



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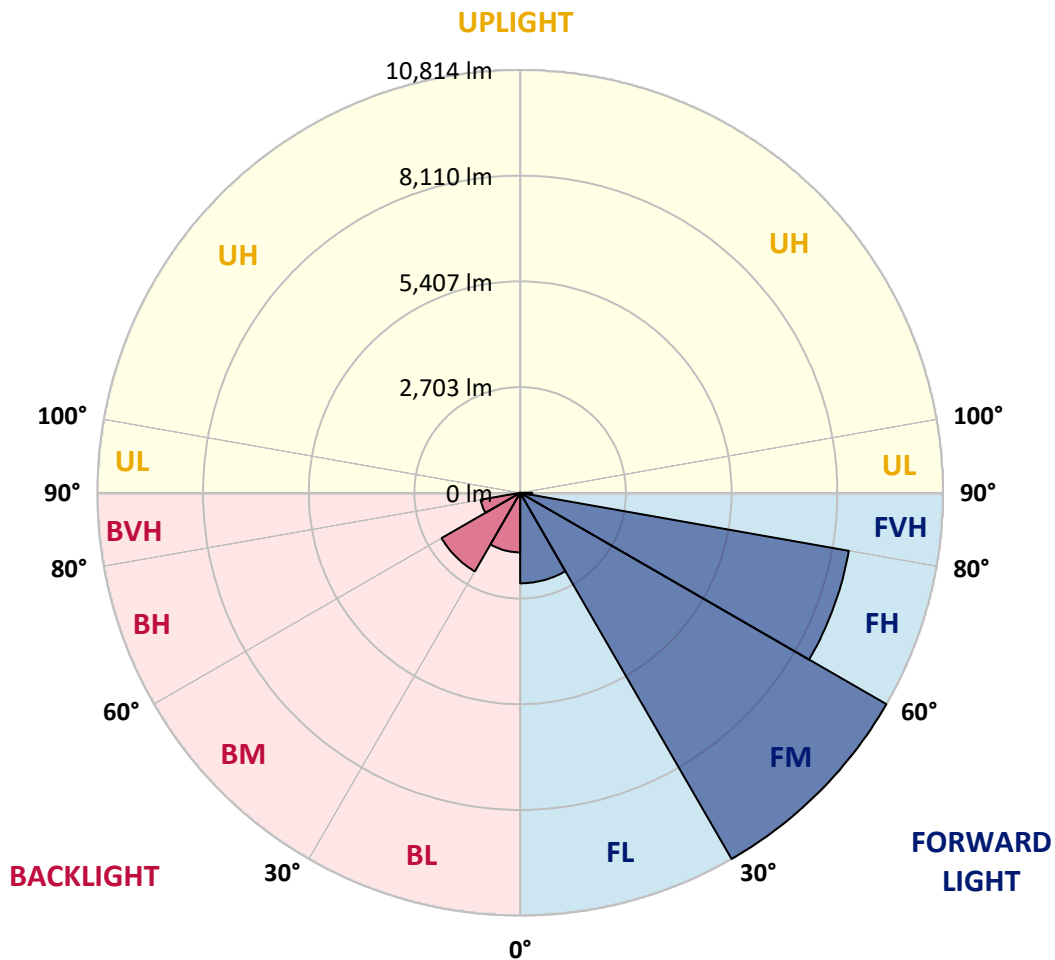
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2314.8	8.6			
FM	(30°-60°)	10813.7	40.2			
FH	(60°-80°)	8535.0	31.8			G4/12000
FVH	(80°-90°)	308.1	1.1			G3/500
BL	(0°-30°)	1523.5	5.7	B3/2500		
BM	(30°-60°)	2318.2	8.6	B2/2500		
BH	(60°-80°)	1023.9	3.8	B3/2500		G3/2500
BVH	(80°-90°)	29.7	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°	4041.4	4041.4	4041.4	4041.4	4041.4	4041.4	4041.4	4041.4	4041.4	4041.4	4041.4
2.5°	4005.0	4042.7	4020.6	4018.0	4044.0	4019.3	4036.2	4032.3	4029.7	4033.6	4060.9
5°	4110.3	4154.5	4124.6	4115.5	4129.8	4085.6	4081.7	4072.6	4070.0	4071.3	4110.3
7.5°	4257.2	4309.2	4297.5	4274.1	4266.3	4193.5	4180.5	4148.0	4137.6	4140.2	4179.2
10°	4488.6	4540.6	4517.2	4465.2	4432.7	4349.5	4302.7	4261.1	4240.3	4242.9	4284.5
12.5°	4784.9	4834.3	4795.3	4700.5	4682.3	4548.4	4475.6	4387.2	4372.9	4352.1	4396.3
15°	5064.4	5107.3	5089.1	5000.7	4951.3	4792.7	4658.9	4549.7	4536.7	4517.2	4515.9
17.5°	5373.8	5416.7	5382.9	5317.9	5252.9	5064.4	4920.1	4779.7	4745.9	4729.1	4668.0
20°	5704.0	5771.6	5765.1	5711.8	5633.8	5412.8	5208.7	5050.1	5013.7	4982.5	4853.8
22.5°	6044.6	6132.9	6113.4	6084.8	6052.4	5804.1	5566.2	5382.9	5355.6	5289.3	5086.5
25°	6421.5	6482.6	6468.3	6482.6	6460.5	6240.8	5980.9	5757.3	5720.9	5658.5	5347.8
27.5°	6786.8	6850.5	6875.2	6845.3	6859.6	6702.3	6394.2	6194.0	6158.9	6044.6	5662.4
30°	7117.0	7196.3	7231.4	7244.4	7292.5	7130.0	6902.5	6659.4	6647.7	6530.7	6077.1
32.5°	7380.9	7469.2	7555.0	7610.9	7687.6	7616.1	7390.0	7243.1	7244.4	7139.1	6699.7
35°	7571.9	7673.3	7798.1	7946.3	8107.5	8077.6	7943.7	7946.3	7967.1	8002.2	7493.9
37.5°	7783.8	7865.7	8012.6	8219.3	8465.0	8527.4	8509.2	8715.9	8817.2	8879.6	8192.0
40°	7909.9	7993.1	8176.4	8454.6	8812.0	8961.5	9129.2	9491.9	9624.5	9559.5	8788.6
42.5°	7770.8	7844.9	8163.4	8644.4	9096.7	9436.0	9736.3	10266.6	10362.8	10150.9	9291.7
45°	7590.1	7686.3	8021.7	8696.4	9348.9	9901.4	10368.0	10941.3	11012.8	10712.5	9736.3
47.5°	7441.9	7526.4	7917.7	8640.5	9581.6	10378.4	10923.1	11578.2	11596.4	11226.0	10196.4
50°	7252.2	7354.9	7763.0	8571.6	9722.0	10800.9	11431.4	12172.3	12212.6	11757.6	10586.4
52.5°	7053.3	7153.4	7575.8	8458.5	9823.4	11151.9	11959.1	12804.1	12808.0	12320.5	11002.4
55°	6759.5	6866.1	7334.1	8294.7	9854.6	11384.6	12489.5	13448.8	13489.1	12891.1	11379.4
57.5°	6448.8	6539.8	7042.9	8039.9	9738.9	11604.2	13034.1	14165.1	14275.5	13534.6	11703.0
60°	6036.8	6127.7	6659.4	7705.8	9493.2	11851.2	13658.1	15028.2	15039.9	14055.9	11938.3
62.5°	5593.5	5672.8	6161.5	7182.0	9112.3	11946.1	14193.6	15718.4	15717.1	14519.9	12055.3
65°	5067.0	5099.5	5597.4	6538.5	8520.9	11807.0	14430.2	16173.4	16129.2	14854.0	12016.3
67.5°	4443.1	4478.2	4855.1	5739.1	7662.9	11263.7	14324.9	16393.1	16437.3	15151.7	11847.3
70°	3652.7	3694.3	4023.2	4769.3	6569.7	10396.6	14078.0	16488.0	16525.7	15032.1	11326.1
72.5°	2696.0	2751.9	2953.4	3550.0	4986.4	8735.4	12934.0	15449.4	15470.2	14033.8	10240.6
75°	1674.3	1777.0	1966.8	2359.3	3235.5	6126.4	11055.7	13811.5	13681.5	12518.1	8474.1
77.5°	669.5	686.3	781.2	1104.9	1578.1	3190.0	8013.9	10979.0	11227.3	10015.8	6061.5
80°	390.0	387.4	409.5	514.8	677.2	1090.6	3117.2	6158.9	6864.8	5501.2	2727.2
82.5°	314.6	302.9	302.9	330.2	325.0	458.9	1021.7	1799.1	1973.3	1751.0	776.0
85°	165.1	161.2	131.3	162.5	162.5	228.8	392.6	509.6	538.2	469.3	291.2
87.5°	41.6	41.6	41.6	50.7	40.3	48.1	66.3	80.6	83.2	67.6	42.9
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°	4041.4	4041.4	4041.4	4041.4	4041.4	4041.4	4041.4	4041.4	4041.4	4041.4	4041.4
2.5°	4071.3	4083.0	4128.5	4122.0	4129.8	4129.8	4142.8	4157.1	4200.0	4175.3	4164.9
5°	4118.1	4141.5	4198.7	4219.5	4250.7	4254.6	4280.6	4289.7	4336.5	4310.5	4310.5
7.5°	4207.8	4235.1	4288.4	4296.2	4310.5	4285.8	4292.3	4263.7	4294.9	4263.7	4265.0
10°	4309.2	4327.4	4363.8	4311.8	4289.7	4231.2	4218.2	4148.0	4172.7	4132.4	4122.0
12.5°	4406.7	4400.2	4372.9	4280.6	4219.5	4123.3	4083.0	3988.1	3982.9	3929.6	3919.2
15°	4499.0	4453.5	4365.1	4222.1	4118.1	3984.2	3888.0	3784.0	3747.6	3686.5	3681.3
17.5°	4612.1	4534.1	4376.8	4166.2	3995.9	3800.9	3664.4	3547.4	3472.0	3416.1	3414.8
20°	4749.8	4630.3	4382.0	4102.5	3869.8	3620.2	3429.1	3281.0	3173.1	3102.9	3101.6
22.5°	4922.7	4760.2	4430.1	4029.7	3708.6	3401.8	3164.0	2907.9	2759.7	2616.7	2590.7
25°	5125.5	4891.5	4471.7	3992.0	3550.0	3174.4	2820.8	2446.4	2216.3	2101.9	2059.0
27.5°	5410.2	5109.9	4532.8	3920.5	3400.5	2893.6	2378.8	1970.7	1693.8	1596.3	1596.3
30°	5739.1	5385.5	4647.2	3877.6	3192.6	2499.7	1894.0	1455.9	1198.5	1051.6	1047.7
32.5°	6240.8	5714.4	4751.1	3785.3	2940.4	2070.7	1370.1	938.5	731.8	640.9	635.7
35°	6962.3	6340.9	4918.8	3693.0	2575.1	1541.7	869.6	538.2	417.3	365.3	362.7
37.5°	7656.4	6937.6	5280.2	3509.7	2056.4	968.4	482.3	310.7	254.8	248.3	245.7
40°	8145.2	7452.3	5535.0	3230.3	1461.1	513.5	279.5	224.9	221.0	218.4	217.1
42.5°	8678.2	7834.5	5715.7	2874.1	867.0	297.7	227.5	202.8	196.3	193.7	193.7
45°	9111.0	8202.4	5749.5	2364.5	436.8	245.7	208.0	184.6	176.8	182.0	183.3
47.5°	9510.1	8549.5	5635.1	1778.3	295.1	228.8	195.0	171.6	166.4	179.4	179.4
50°	9850.7	8843.2	5372.5	1327.2	276.9	215.8	182.0	158.6	157.3	169.0	170.3
52.5°	10189.9	9079.8	4959.1	1002.2	262.6	201.5	169.0	146.9	143.0	150.8	152.1
55°	10459.0	9164.3	4652.4	746.1	252.2	188.5	157.3	135.2	126.1	124.8	127.4
57.5°	10607.2	9090.2	4352.1	548.6	240.5	176.8	145.6	119.6	105.3	105.3	105.3
60°	10609.8	9000.5	4031.0	434.2	227.5	163.8	132.6	102.7	88.4	85.8	85.8
62.5°	10581.2	8840.6	3564.3	377.0	213.2	153.4	115.7	87.1	76.7	72.8	72.8
65°	10455.1	8539.1	2998.9	322.4	196.3	145.6	98.8	78.0	68.9	63.7	63.7
67.5°	10062.6	7973.6	2308.6	280.8	180.7	128.7	89.7	70.2	61.1	55.9	54.6
70°	9342.4	7059.8	1523.5	239.2	165.1	114.4	81.9	63.7	54.6	49.4	48.1
72.5°	8134.8	5745.6	765.6	202.8	141.7	105.3	74.1	55.9	46.8	41.6	41.6
75°	6374.7	3988.1	417.3	161.2	111.8	92.3	65.0	46.8	40.3	36.4	36.4
77.5°	3908.8	1977.2	284.7	124.8	84.5	75.4	52.0	39.0	35.1	33.8	33.8
80°	1426.0	647.4	191.1	88.4	63.7	58.5	41.6	33.8	32.5	32.5	32.5
82.5°	514.8	328.9	128.7	59.8	40.3	44.2	33.8	28.6	27.3	28.6	29.9
85°	211.9	144.3	46.8	33.8	22.1	23.4	20.8	19.5	20.8	22.1	22.1
87.5°	32.5	28.6	16.9	16.9	13.0	11.7	9.1	10.4	13.0	15.6	15.6
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)