

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: P510302

Luminaire Tested: **VERD-M-CA4-250-722-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510302
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-CA4-250-722-U-T3-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 2200K, 1130mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26309 lumens
Efficiency: N/A
Efficacy: 104.5 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

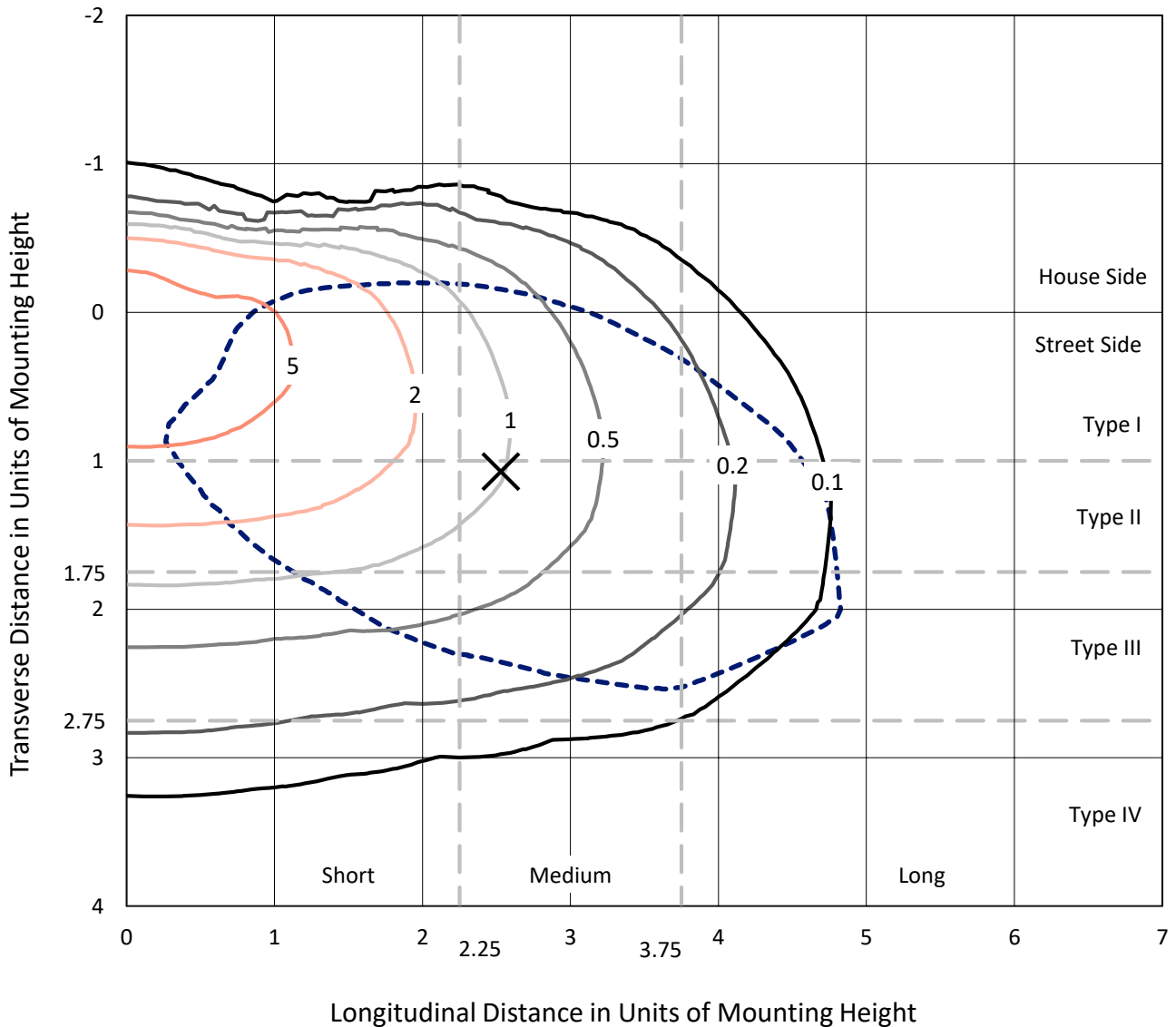
Input Watts (W): 251.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

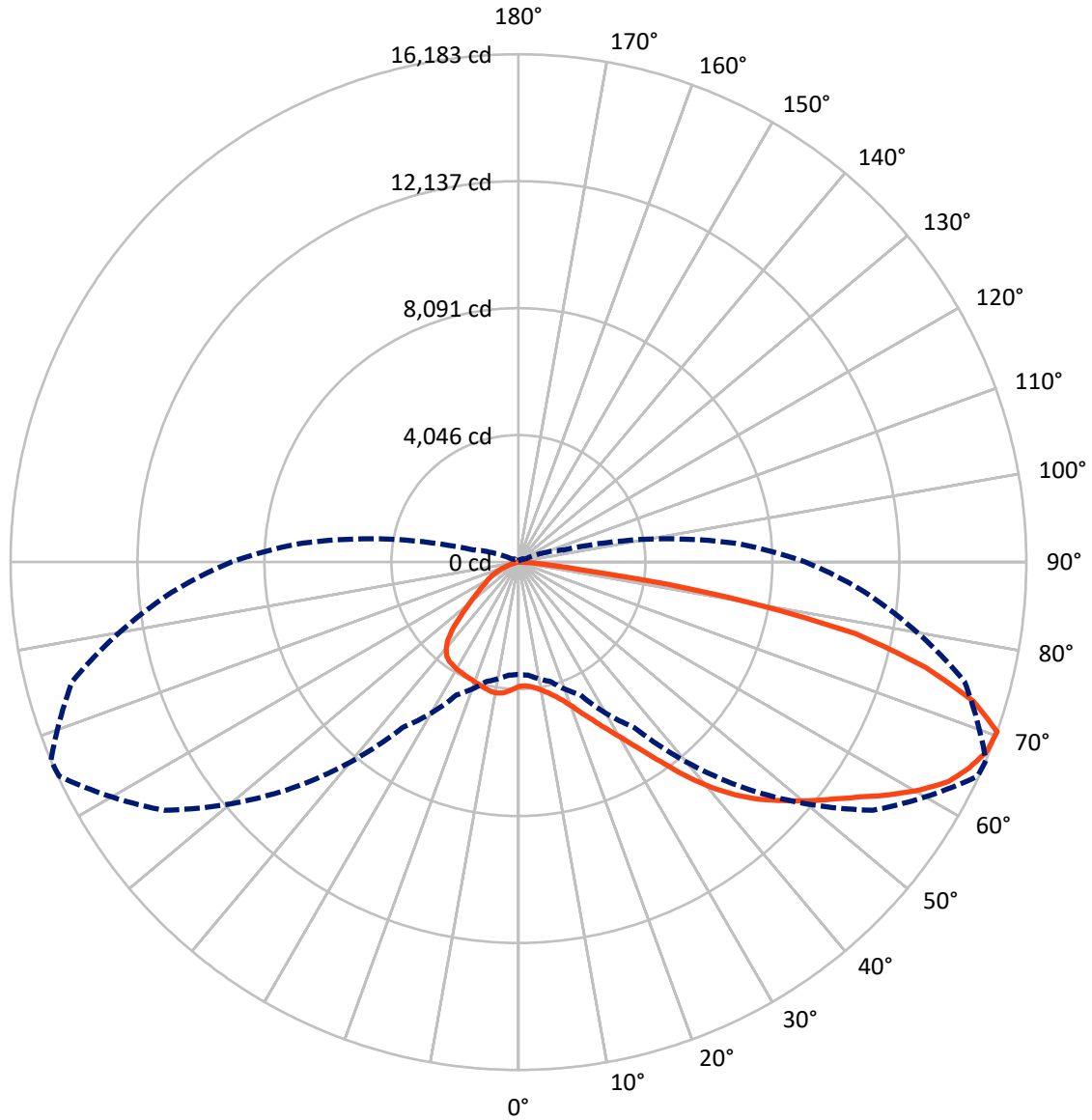
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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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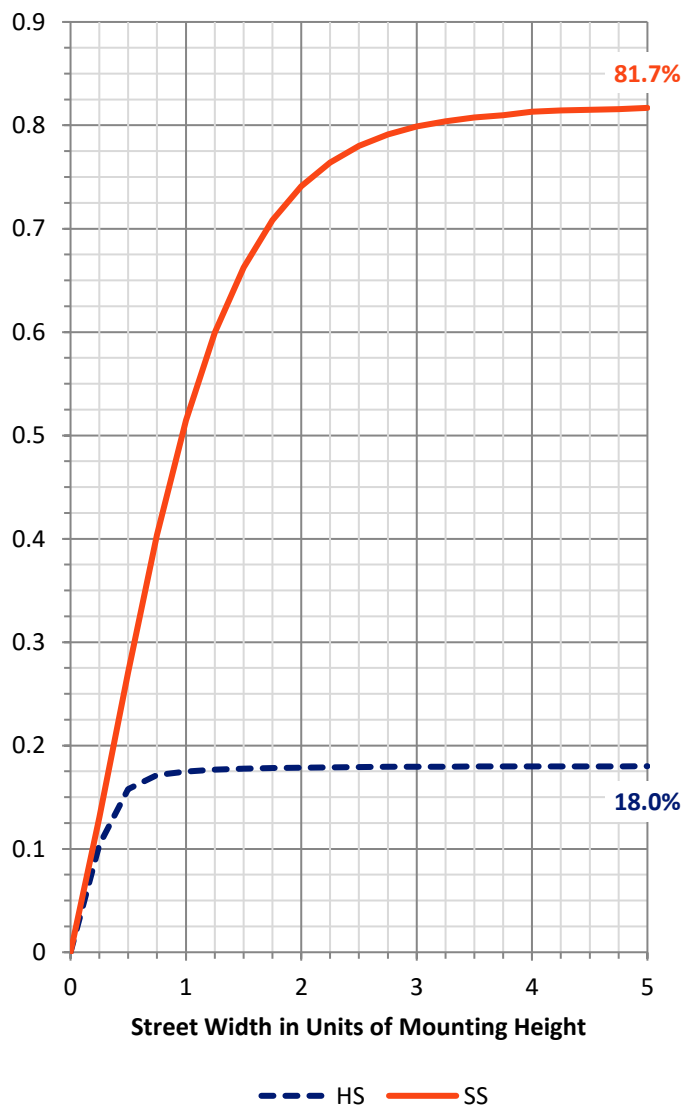
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4793.7	0.0	4793.7
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	21515.3	0.0	21515.3
	% Fixture	81.8	0.0	81.8
Total	Lumens	26309.0	0.0	26309.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.3	1.5
10°-20°	1230.1	4.7
20°-30°	2134.3	8.1
30°-40°	3169.8	12.0
40°-50°	4348.8	16.5
50°-60°	5340.6	20.3
60°-70°	5725.7	21.8
70°-80°	3634.7	13.8
80°-90°	330.8	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°	26309.0	100.0
0°-180°	26309.0	100.0

Coefficient of Utilization



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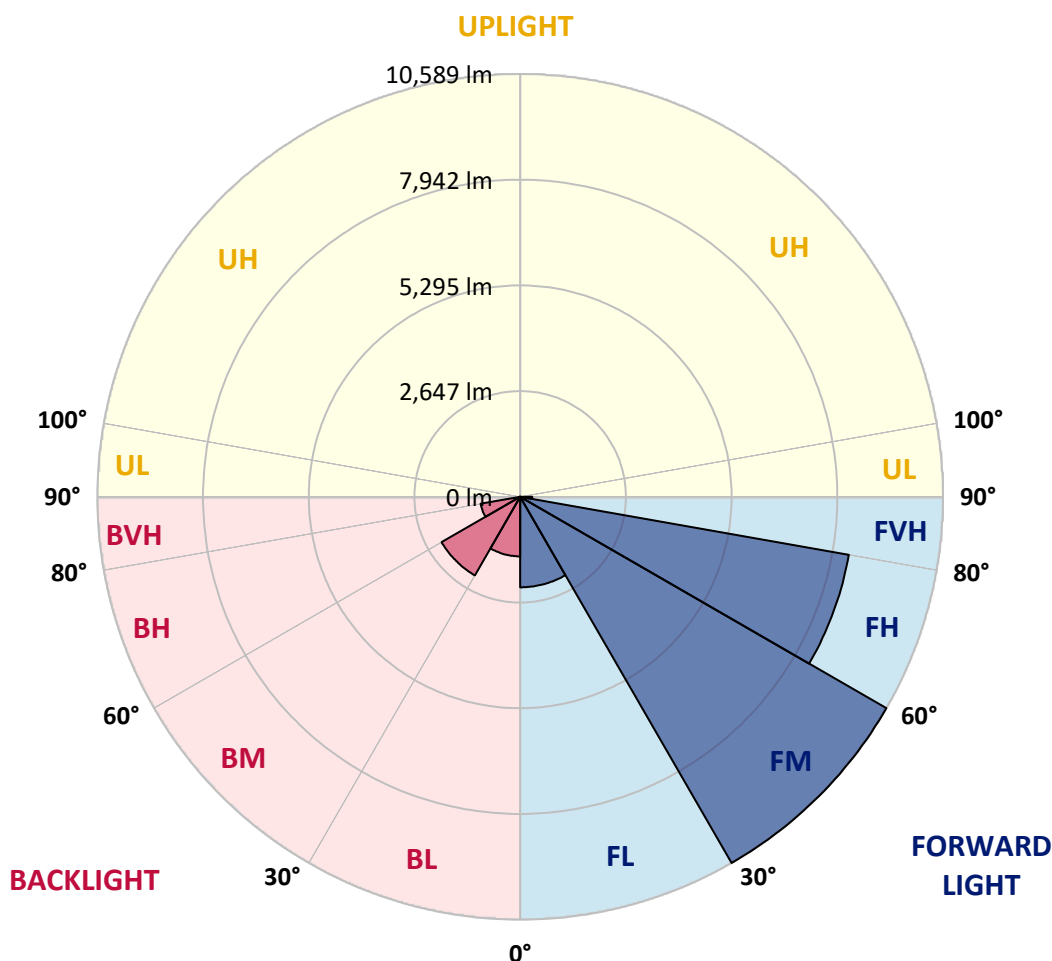
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2266.7	8.6			
FM (30°-60°)	10589.1	40.2			
FH (60°-80°)	8357.7	31.8			G4/12000
FVH (80°-90°)	301.7	1.1			G3/500
BL (0°-30°)	1491.9	5.7	B3/2500		
BM (30°-60°)	2270.1	8.6	B2/2500		
BH (60°-80°)	1002.7	3.8	B3/2500		G3/2500
BVH (80°-90°)	29.1	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°	3957.5	3957.5	3957.5	3957.5	3957.5	3957.5	3957.5	3957.5	3957.5	3957.5	3957.5
2.5°	3921.8	3958.7	3937.1	3934.6	3960.0	3935.8	3952.4	3948.6	3946.0	3949.8	3976.6
5°	4024.9	4068.2	4038.9	4030.0	4044.0	4000.7	3996.9	3988.0	3985.5	3986.7	4024.9
7.5°	4168.8	4219.7	4208.2	4185.3	4177.7	4106.4	4093.7	4061.8	4051.7	4054.2	4092.4
10°	4395.3	4446.3	4423.3	4372.4	4340.6	4259.1	4213.3	4172.6	4152.2	4154.8	4195.5
12.5°	4685.6	4733.9	4695.8	4602.8	4585.0	4453.9	4382.6	4296.1	4282.1	4261.7	4305.0
15°	4959.2	5001.2	4983.4	4896.9	4848.5	4693.2	4562.1	4455.2	4442.4	4423.3	4422.1
17.5°	5262.2	5304.2	5271.1	5207.5	5143.8	4959.2	4817.9	4680.5	4647.4	4630.8	4571.0
20°	5585.5	5651.7	5645.3	5593.1	5516.8	5300.4	5100.5	4945.2	4909.6	4879.0	4753.0
22.5°	5919.0	6005.6	5986.5	5958.5	5926.7	5683.5	5450.6	5271.1	5244.4	5179.5	4980.9
25°	6288.2	6348.0	6334.0	6348.0	6326.3	6111.2	5856.6	5637.7	5602.1	5541.0	5236.7
27.5°	6645.8	6708.2	6732.4	6703.1	6717.1	6563.1	6261.4	6065.4	6031.0	5919.0	5544.8
30°	6969.2	7046.8	7081.2	7093.9	7141.0	6981.9	6759.1	6521.1	6509.6	6395.1	5950.8
32.5°	7227.6	7314.1	7398.1	7452.9	7528.0	7458.0	7236.5	7092.6	7093.9	6990.8	6560.6
35°	7414.7	7514.0	7636.2	7781.3	7939.1	7909.8	7778.7	7781.3	7801.6	7836.0	7338.3
37.5°	7622.2	7702.4	7846.2	8048.6	8289.2	8350.3	8332.4	8534.8	8634.1	8695.2	8021.9
40°	7745.6	7827.1	8006.6	8279.0	8629.0	8775.4	8939.6	9294.8	9424.6	9361.0	8606.1
42.5°	7609.4	7682.0	7993.9	8464.8	8907.8	9240.0	9534.1	10053.4	10147.6	9940.1	9098.7
45°	7432.5	7526.7	7855.1	8515.7	9154.7	9695.7	10152.7	10714.1	10784.1	10490.0	9534.1
47.5°	7287.4	7370.1	7753.3	8461.0	9382.6	10162.9	10696.2	11337.8	11355.6	10992.8	9984.7
50°	7101.5	7202.1	7601.8	8393.5	9520.1	10576.6	11193.9	11919.5	11959.0	11513.4	10366.5
52.5°	6906.8	7004.8	7418.5	8282.8	9619.4	10920.3	11710.7	12538.1	12541.9	12064.6	10773.9
55°	6619.1	6723.5	7181.7	8122.4	9649.9	11148.1	12230.1	13169.5	13208.9	12623.4	11143.0
57.5°	6314.9	6404.0	6896.6	7872.9	9536.6	11363.2	12763.4	13870.9	13979.1	13253.5	11460.0
60°	5911.4	6000.5	6521.1	7545.8	9296.0	11605.1	13374.4	14716.1	14727.5	13763.9	11690.4
62.5°	5477.3	5555.0	6033.6	7032.8	8923.1	11698.0	13898.9	15392.0	15390.7	14218.4	11804.9
65°	4961.8	4993.6	5481.1	6402.7	8343.9	11561.8	14130.5	15837.5	15794.2	14545.5	11766.7
67.5°	4350.8	4385.2	4754.3	5619.9	7503.8	11029.7	14027.4	16052.6	16095.9	14837.0	11601.3
70°	3576.9	3617.6	3939.6	4670.3	6433.3	10180.7	13785.6	16145.5	16182.5	14719.9	11090.8
72.5°	2640.0	2694.7	2892.0	3476.3	4882.9	8553.9	12665.4	15128.5	15148.9	13742.3	10028.0
75°	1639.5	1740.1	1925.9	2310.3	3168.3	5999.2	10826.1	13524.6	13397.3	12258.1	8298.1
77.5°	655.5	672.1	765.0	1082.0	1545.3	3123.7	7847.5	10751.0	10994.1	9807.7	5935.6
80°	381.9	379.3	401.0	504.1	663.2	1068.0	3052.4	6031.0	6722.2	5386.9	2670.6
82.5°	308.0	296.6	296.6	323.3	318.2	449.3	1000.5	1761.7	1932.3	1714.6	759.9
85°	161.7	157.8	128.6	159.1	159.1	224.0	384.4	499.0	527.0	459.5	285.1
87.5°	40.7	40.7	40.7	49.6	39.5	47.1	64.9	78.9	81.5	66.2	42.0
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°	3957.5	3957.5	3957.5	3957.5	3957.5	3957.5	3957.5	3957.5	3957.5	3957.5	3957.5
2.5°	3986.7	3998.2	4042.7	4036.4	4044.0	4044.0	4056.8	4070.8	4112.8	4088.6	4078.4
5°	4032.6	4055.5	4111.5	4131.9	4162.4	4166.2	4191.7	4200.6	4246.4	4221.0	4221.0
7.5°	4120.4	4147.1	4199.3	4207.0	4221.0	4196.8	4203.1	4175.1	4205.7	4175.1	4176.4
10°	4219.7	4237.5	4273.1	4222.2	4200.6	4143.3	4130.6	4061.8	4086.0	4046.6	4036.4
12.5°	4315.2	4308.8	4282.1	4191.7	4131.9	4037.7	3998.2	3905.3	3900.2	3848.0	3837.8
15°	4405.5	4361.0	4274.4	4134.4	4032.6	3901.5	3807.3	3705.4	3669.8	3610.0	3604.9
17.5°	4516.3	4439.9	4285.9	4079.7	3912.9	3722.0	3588.3	3473.8	3399.9	3345.2	3343.9
20°	4651.2	4534.1	4291.0	4017.3	3789.4	3545.0	3357.9	3212.8	3107.2	3038.4	3037.2
22.5°	4820.5	4661.4	4338.1	3946.0	3631.6	3331.2	3098.3	2847.5	2702.4	2562.4	2536.9
25°	5019.1	4789.9	4378.8	3909.1	3476.3	3108.4	2762.2	2395.6	2170.3	2058.3	2016.3
27.5°	5297.8	5003.8	4438.6	3839.1	3329.9	2833.5	2329.4	1929.7	1658.6	1563.1	1563.1
30°	5619.9	5273.7	4550.6	3797.1	3126.3	2447.8	1854.6	1425.7	1173.6	1029.8	1026.0
32.5°	6111.2	5595.7	4652.5	3706.7	2879.3	2027.7	1341.6	919.0	716.6	627.5	622.5
35°	6817.7	6209.2	4816.7	3616.3	2521.6	1509.7	851.6	527.0	408.6	357.7	355.1
37.5°	7497.4	6793.5	5170.5	3436.8	2013.7	948.3	472.2	304.2	249.5	243.1	240.6
40°	7976.0	7297.6	5420.0	3163.2	1430.7	502.8	273.7	220.2	216.4	213.8	212.6
42.5°	8497.9	7671.8	5597.0	2814.4	849.0	291.5	222.8	198.6	192.2	189.7	189.7
45°	8921.8	8032.0	5630.1	2315.4	427.7	240.6	203.7	180.8	173.1	178.2	179.5
47.5°	9312.6	8371.9	5518.0	1741.3	288.9	224.0	190.9	168.0	162.9	175.7	175.7
50°	9646.1	8659.6	5260.9	1299.6	271.1	211.3	178.2	155.3	154.0	165.5	166.8
52.5°	9978.3	8891.2	4856.1	981.4	257.1	197.3	165.5	143.8	140.0	147.7	148.9
55°	10241.8	8974.0	4555.7	730.6	246.9	184.6	154.0	132.4	123.5	122.2	124.7
57.5°	10386.9	8901.4	4261.7	537.2	235.5	173.1	142.6	117.1	103.1	103.1	103.1
60°	10389.5	8813.6	3947.3	425.2	222.8	160.4	129.8	100.6	86.6	84.0	84.0
62.5°	10361.5	8657.0	3490.3	369.1	208.8	150.2	113.3	85.3	75.1	71.3	71.3
65°	10238.0	8361.7	2936.6	315.7	192.2	142.6	96.7	76.4	67.5	62.4	62.4
67.5°	9853.6	7808.0	2260.7	274.9	176.9	126.0	87.8	68.7	59.8	54.7	53.5
70°	9148.4	6913.2	1491.8	234.2	161.7	112.0	80.2	62.4	53.5	48.4	47.1
72.5°	7965.8	5626.2	749.7	198.6	138.7	103.1	72.6	54.7	45.8	40.7	40.7
75°	6242.3	3905.3	408.6	157.8	109.5	90.4	63.6	45.8	39.5	35.6	35.6
77.5°	3827.6	1936.1	278.8	122.2	82.7	73.8	50.9	38.2	34.4	33.1	33.1
80°	1396.4	633.9	187.1	86.6	62.4	57.3	40.7	33.1	31.8	31.8	31.8
82.5°	504.1	322.0	126.0	58.6	39.5	43.3	33.1	28.0	26.7	28.0	29.3
85°	207.5	141.3	45.8	33.1	21.6	22.9	20.4	19.1	20.4	21.6	21.6
87.5°	31.8	28.0	16.5	16.5	12.7	11.5	8.9	10.2	12.7	15.3	15.3
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)