

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: P510046

Luminaire Tested: **VERD-M-CA4-190-750-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510046
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-CA4-190-750-U-T3-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 5000K, 870mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26295 lumens
Efficiency: N/A
Efficacy: 136.2 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

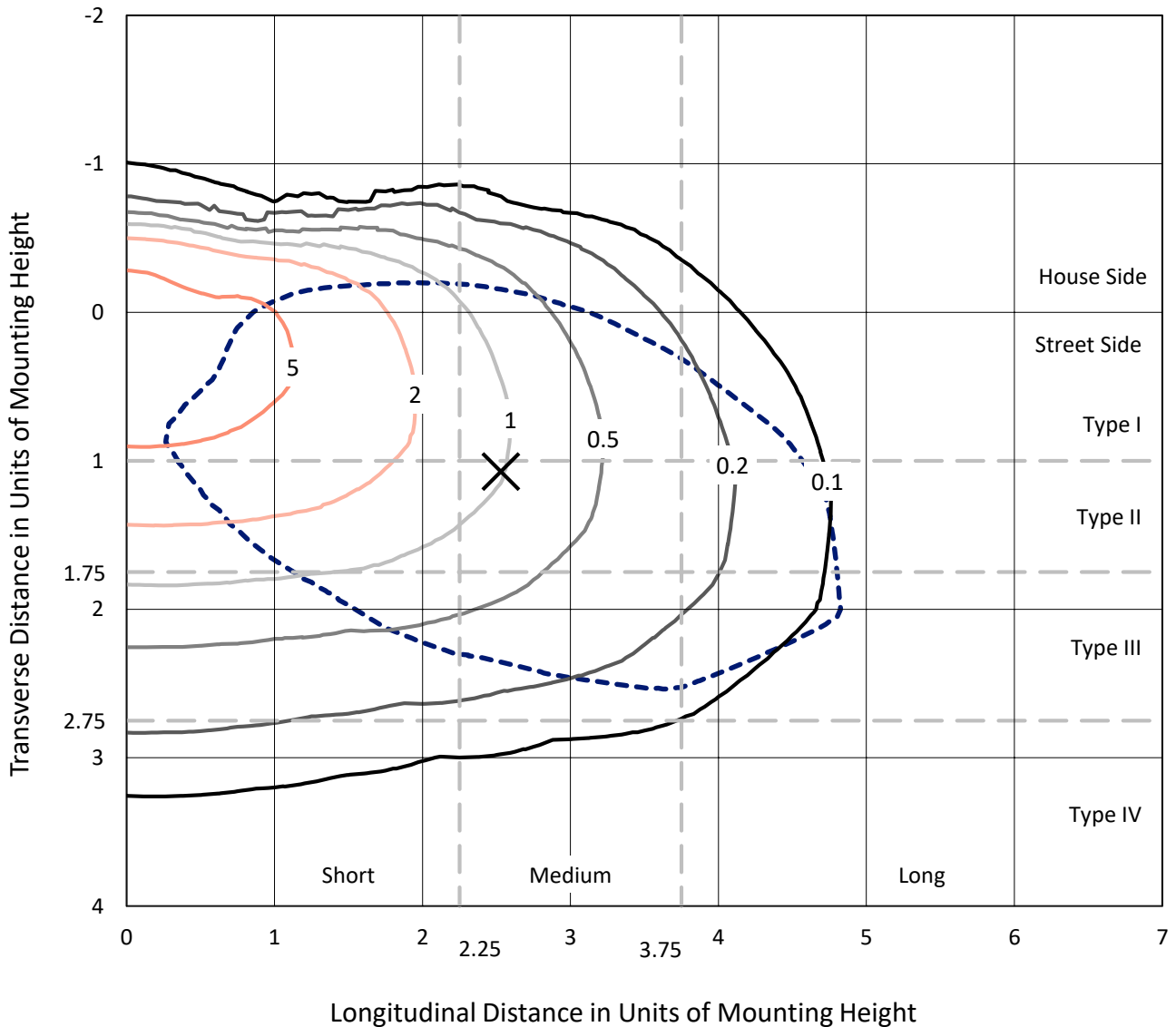
Input Watts (W): 193.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

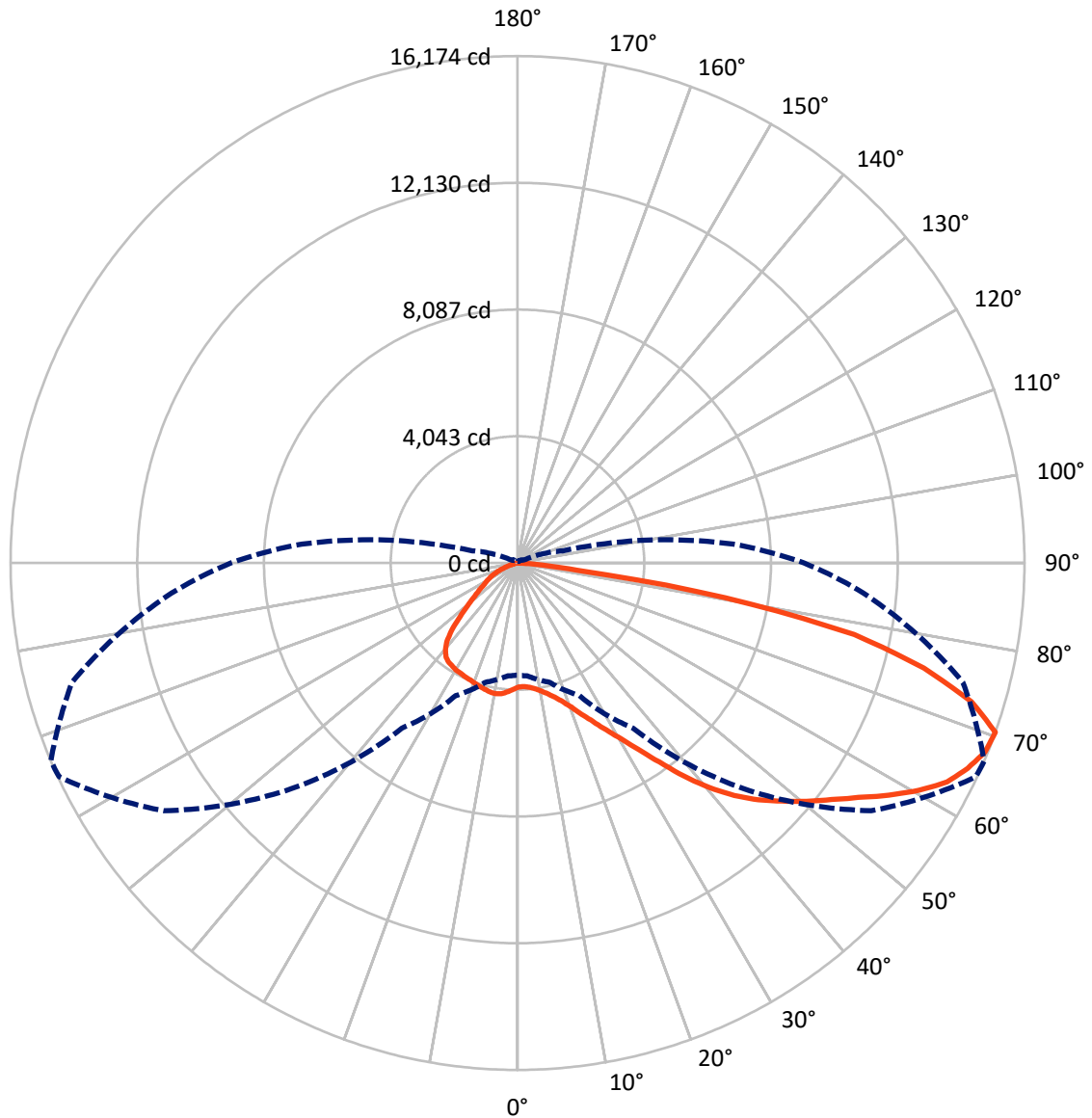
× Max cd
 - - - 1/2 Max cd



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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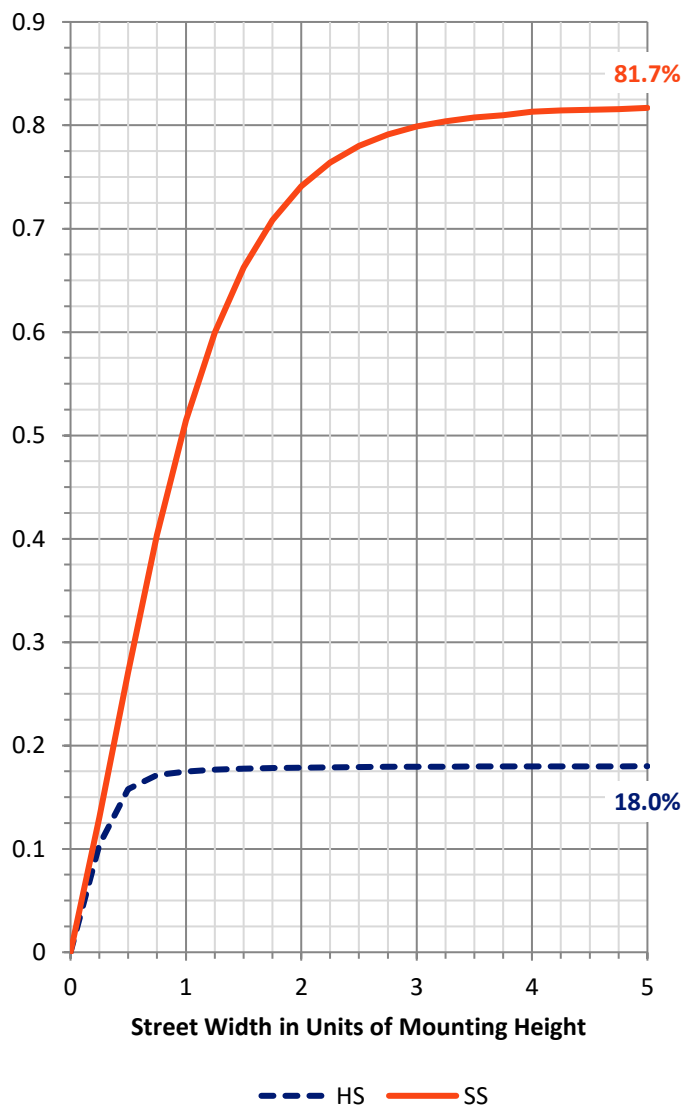
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4791.2	0.0	4791.2
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	21503.8	0.0	21503.8
	% Fixture	81.8	0.0	81.8
Total	Lumens	26295.0	0.0	26295.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.1	1.5
10°-20°	1229.4	4.7
20°-30°	2133.1	8.1
30°-40°	3168.1	12.0
40°-50°	4346.5	16.5
50°-60°	5337.7	20.3
60°-70°	5722.6	21.8
70°-80°	3632.8	13.8
80°-90°	330.6	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°	26295.0	100.0
0°-180°	26295.0	100.0

Coefficient of Utilization



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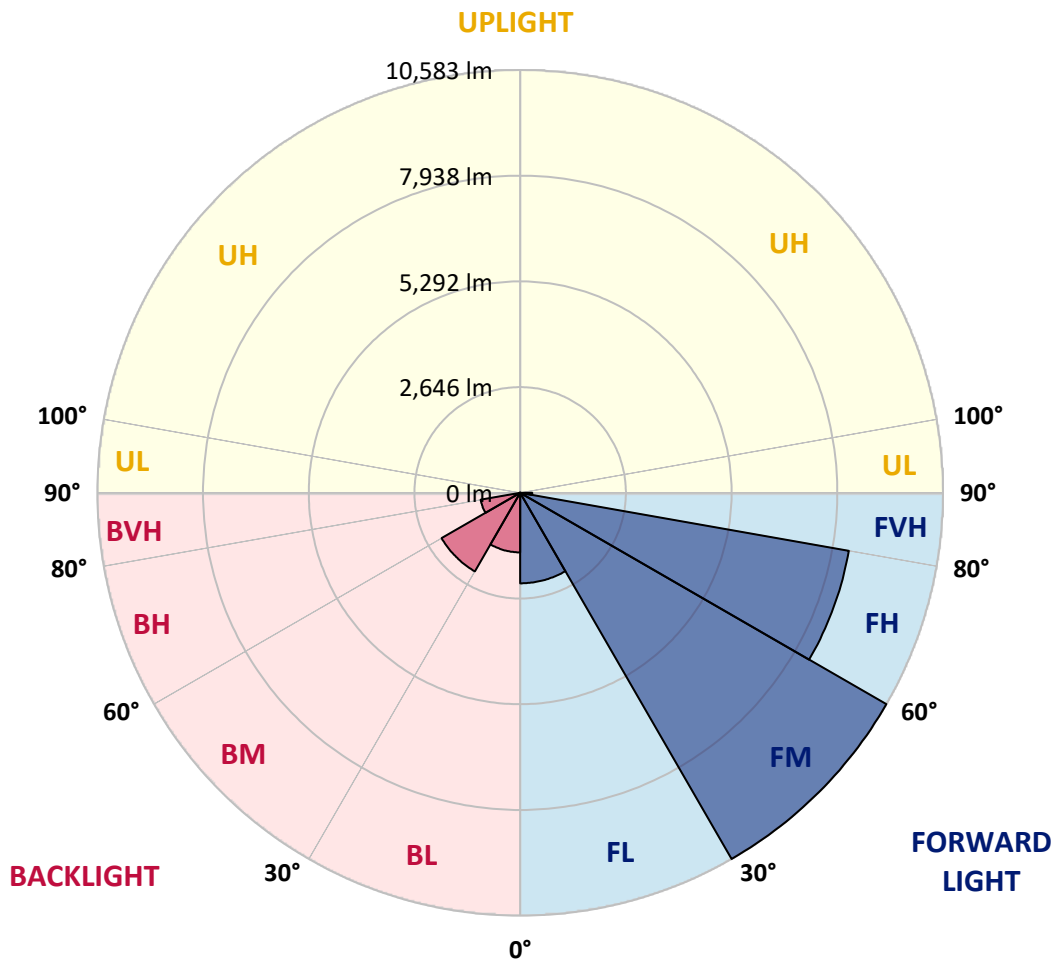
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2265.5	8.6			
FM	(30°-60°)	10583.5	40.2			
FH	(60°-80°)	8353.3	31.8			G4/12000
FVH	(80°-90°)	301.5	1.1			G3/500
BL	(0°-30°)	1491.1	5.7	B3/2500		
BM	(30°-60°)	2268.9	8.6	B2/2500		
BH	(60°-80°)	1002.1	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°	3955.4	3955.4	3955.4	3955.4	3955.4	3955.4	3955.4	3955.4	3955.4	3955.4	3955.4
2.5°	3919.7	3956.6	3935.0	3932.5	3957.9	3933.7	3950.3	3946.5	3943.9	3947.7	3974.4
5°	4022.8	4066.0	4036.8	4027.9	4041.9	3998.6	3994.8	3985.9	3983.3	3984.6	4022.8
7.5°	4166.5	4217.4	4206.0	4183.1	4175.5	4104.2	4091.5	4059.7	4049.5	4052.0	4090.2
10°	4393.0	4443.9	4421.0	4370.1	4338.3	4256.9	4211.1	4170.4	4150.0	4152.6	4193.3
12.5°	4683.1	4731.4	4693.3	4600.4	4582.6	4451.5	4380.3	4293.8	4279.8	4259.4	4302.7
15°	4956.6	4998.6	4980.8	4894.3	4845.9	4690.7	4559.7	4452.8	4440.1	4421.0	4419.7
17.5°	5259.4	5301.4	5268.3	5204.7	5141.1	4956.6	4815.4	4678.0	4644.9	4628.4	4568.6
20°	5582.5	5648.7	5642.3	5590.2	5513.8	5297.6	5097.8	4942.6	4907.0	4876.5	4750.5
22.5°	5915.9	6002.4	5983.3	5955.3	5923.5	5680.5	5447.7	5268.3	5241.6	5176.7	4978.2
25°	6284.8	6344.6	6330.6	6344.6	6323.0	6108.0	5853.5	5634.7	5599.1	5538.0	5233.9
27.5°	6642.3	6704.6	6728.8	6699.6	6713.6	6559.6	6258.1	6062.2	6027.8	5915.9	5541.8
30°	6965.5	7043.1	7077.4	7090.1	7137.2	6978.2	6755.5	6517.6	6506.2	6391.7	5947.7
32.5°	7223.7	7310.2	7394.2	7448.9	7524.0	7454.0	7232.6	7088.9	7090.1	6987.1	6557.1
35°	7410.7	7510.0	7632.1	7777.1	7934.9	7905.6	7774.6	7777.1	7797.5	7831.8	7334.4
37.5°	7618.1	7698.3	7842.0	8044.3	8284.8	8345.8	8328.0	8530.3	8629.5	8690.6	8017.6
40°	7741.5	7822.9	8002.3	8274.6	8624.4	8770.7	8934.9	9289.8	9419.6	9356.0	8601.5
42.5°	7605.4	7677.9	7989.6	8460.3	8903.1	9235.1	9529.0	10048.1	10142.2	9934.8	9093.9
45°	7428.5	7522.7	7850.9	8511.2	9149.9	9690.6	10147.3	10708.3	10778.3	10484.4	9529.0
47.5°	7283.5	7366.2	7749.1	8456.5	9377.6	10157.5	10690.5	11331.7	11349.6	10987.0	9979.4
50°	7097.8	7198.3	7597.8	8389.1	9515.0	10570.9	11188.0	11913.2	11952.6	11507.3	10361.0
52.5°	6903.1	7001.1	7414.5	8278.4	9614.2	10914.5	11704.5	12531.5	12535.3	12058.2	10768.1
55°	6615.6	6719.9	7177.9	8118.1	9644.8	11142.2	12223.6	13162.5	13201.9	12616.7	11137.1
57.5°	6311.5	6400.6	6892.9	7868.7	9531.5	11357.2	12756.6	13863.5	13971.6	13246.4	11453.9
60°	5908.2	5997.3	6517.6	7541.8	9291.1	11598.9	13367.3	14708.2	14719.7	13756.6	11684.1
62.5°	5474.4	5552.0	6030.4	7029.1	8918.3	11691.8	13891.5	15383.8	15382.5	14210.8	11798.6
65°	4959.1	4991.0	5478.2	6399.3	8339.5	11555.7	14123.0	15829.1	15785.8	14537.8	11760.5
67.5°	4348.5	4382.8	4751.8	5616.9	7499.8	11023.9	14020.0	16044.1	16087.3	14829.1	11595.1
70°	3575.0	3615.7	3937.5	4667.8	6429.8	10175.3	13778.2	16137.0	16173.8	14712.1	11084.9
72.5°	2638.6	2693.3	2890.5	3474.5	4880.3	8549.4	12658.7	15120.4	15140.8	13735.0	10022.6
75°	1638.6	1739.1	1924.9	2309.1	3166.6	5996.0	10820.3	13517.4	13390.2	12251.6	8293.7
77.5°	655.2	671.7	764.6	1081.4	1544.5	3122.0	7843.3	10745.2	10988.2	9802.5	5932.4
80°	381.7	379.1	400.8	503.8	662.8	1067.4	3050.8	6027.8	6718.6	5384.1	2669.1
82.5°	307.9	296.4	296.4	323.1	318.1	449.1	1000.0	1760.8	1931.2	1713.7	759.5
85°	161.6	157.8	128.5	159.0	159.0	223.9	384.2	498.7	526.7	459.3	285.0
87.5°	40.7	40.7	40.7	49.6	39.4	47.1	64.9	78.9	81.4	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°	3955.4	3955.4	3955.4	3955.4	3955.4	3955.4	3955.4	3955.4	3955.4	3955.4	3955.4
2.5°	3984.6	3996.1	4040.6	4034.2	4041.9	4041.9	4054.6	4068.6	4110.6	4086.4	4076.2
5°	4030.4	4053.3	4109.3	4129.7	4160.2	4164.0	4189.4	4198.4	4244.2	4218.7	4218.7
7.5°	4118.2	4144.9	4197.1	4204.7	4218.7	4194.5	4200.9	4172.9	4203.4	4172.9	4174.2
10°	4217.4	4235.2	4270.9	4220.0	4198.4	4141.1	4128.4	4059.7	4083.9	4044.4	4034.2
12.5°	4312.9	4306.5	4279.8	4189.4	4129.7	4035.5	3996.1	3903.2	3898.1	3845.9	3835.8
15°	4403.2	4358.7	4272.1	4132.2	4030.4	3899.4	3805.2	3703.5	3667.8	3608.0	3603.0
17.5°	4513.9	4437.5	4283.6	4077.5	3910.8	3720.0	3586.4	3471.9	3398.1	3343.4	3342.1
20°	4648.7	4531.7	4288.7	4015.2	3787.4	3543.2	3356.1	3211.1	3105.5	3036.8	3035.5
22.5°	4817.9	4658.9	4335.8	3943.9	3629.7	3329.4	3096.6	2846.0	2700.9	2561.0	2535.6
25°	5016.4	4787.4	4376.5	3907.0	3474.5	3106.8	2760.7	2394.3	2169.2	2057.2	2015.2
27.5°	5295.0	5001.1	4436.3	3837.0	3328.2	2832.0	2328.2	1928.7	1657.7	1562.3	1562.3
30°	5616.9	5270.8	4548.2	3795.1	3124.6	2446.5	1853.6	1424.9	1173.0	1029.2	1025.4
32.5°	6108.0	5592.7	4650.0	3704.7	2877.8	2026.7	1340.9	918.5	716.3	627.2	622.1
35°	6814.1	6205.9	4814.1	3614.4	2520.3	1508.9	851.1	526.7	408.4	357.5	355.0
37.5°	7493.4	6789.9	5167.8	3435.0	2012.7	947.8	472.0	304.1	249.4	243.0	240.5
40°	7971.8	7293.7	5417.2	3161.5	1430.0	502.5	273.5	220.1	216.3	213.7	212.5
42.5°	8493.4	7667.7	5594.0	2812.9	848.6	291.3	222.6	198.5	192.1	189.6	189.6
45°	8917.1	8027.8	5627.1	2314.2	427.5	240.5	203.6	180.7	173.0	178.1	179.4
47.5°	9307.6	8367.4	5515.1	1740.4	288.8	223.9	190.8	167.9	162.8	175.6	175.6
50°	9640.9	8655.0	5258.1	1298.9	271.0	211.2	178.1	155.2	153.9	165.4	166.7
52.5°	9973.0	8886.5	4853.6	980.9	257.0	197.2	165.4	143.8	139.9	147.6	148.9
55°	10236.4	8969.2	4553.3	730.3	246.8	184.5	153.9	132.3	123.4	122.1	124.7
57.5°	10381.4	8896.7	4259.4	536.9	235.4	173.0	142.5	117.0	103.1	103.1	103.1
60°	10383.9	8808.9	3945.2	424.9	222.6	160.3	129.8	100.5	86.5	84.0	84.0
62.5°	10355.9	8652.4	3488.5	368.9	208.6	150.1	113.2	85.2	75.1	71.2	71.2
65°	10232.5	8357.3	2935.0	315.5	192.1	142.5	96.7	76.3	67.4	62.3	62.3
67.5°	9848.3	7803.9	2259.5	274.8	176.8	126.0	87.8	68.7	59.8	54.7	53.4
70°	9143.5	6909.5	1491.1	234.1	161.6	112.0	80.2	62.3	53.4	48.3	47.1
72.5°	7961.6	5623.3	749.3	198.5	138.7	103.1	72.5	54.7	45.8	40.7	40.7
75°	6239.0	3903.2	408.4	157.8	109.4	90.3	63.6	45.8	39.4	35.6	35.6
77.5°	3825.6	1935.1	278.6	122.1	82.7	73.8	50.9	38.2	34.4	33.1	33.1
80°	1395.6	633.6	187.0	86.5	62.3	57.3	40.7	33.1	31.8	31.8	31.8
82.5°	503.8	321.9	126.0	58.5	39.4	43.3	33.1	28.0	26.7	28.0	29.3
85°	207.4	141.2	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)