

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: P509934

Luminaire Tested: **VERD-M-CA3-170-730-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509934
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-CA3-170-730-U-T3-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1060mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22406 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

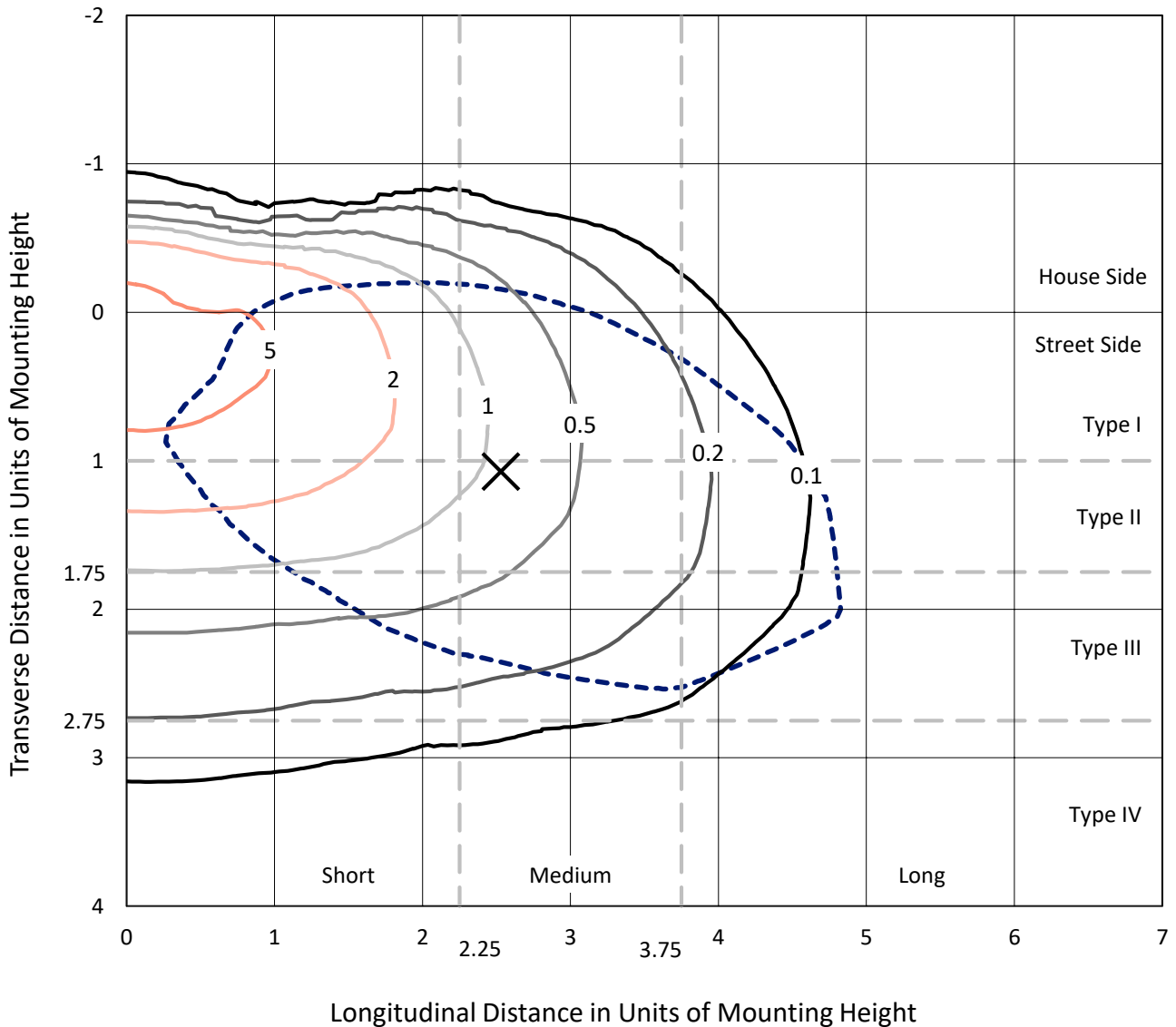
Input Watts (W): 172.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

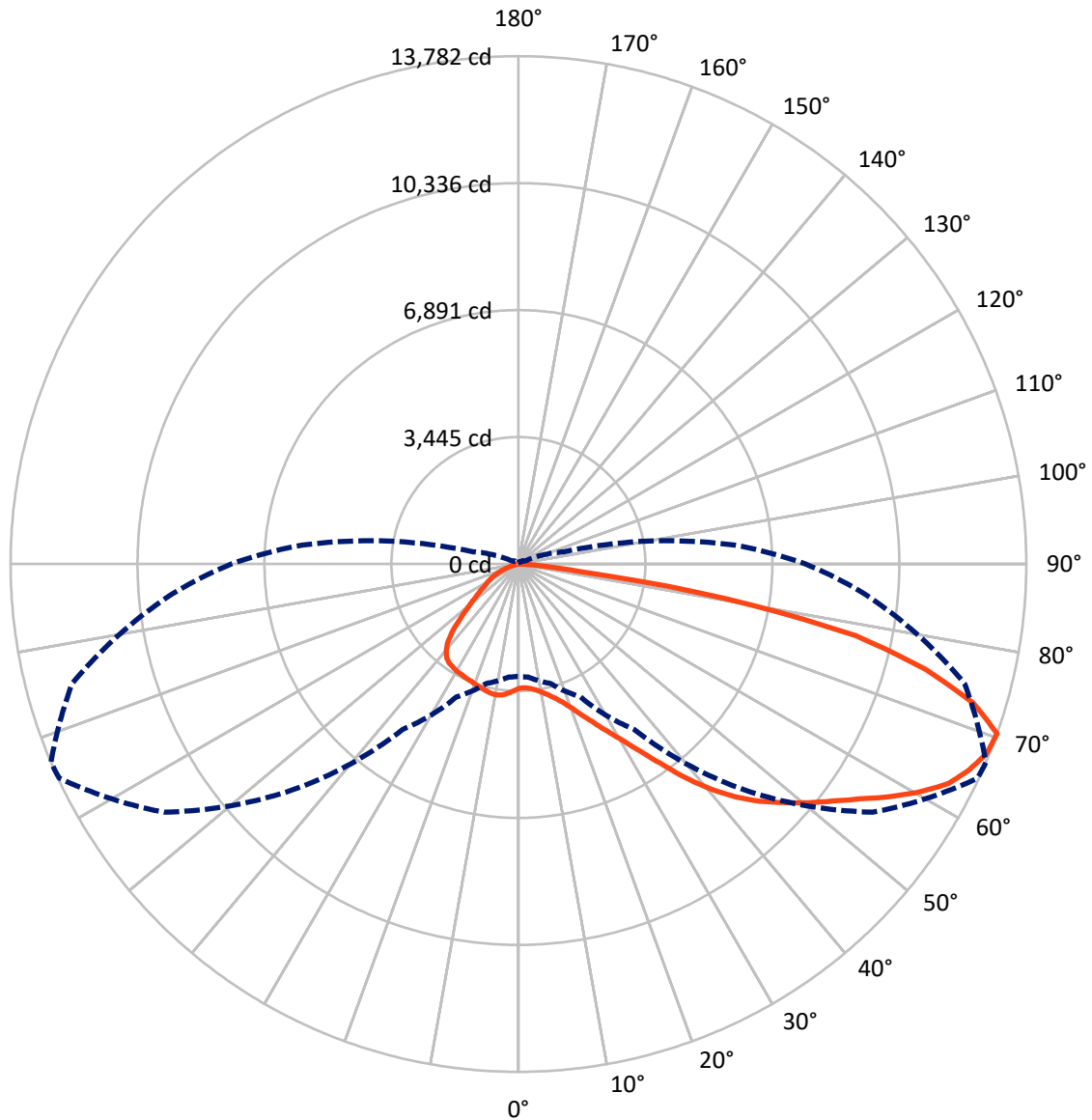
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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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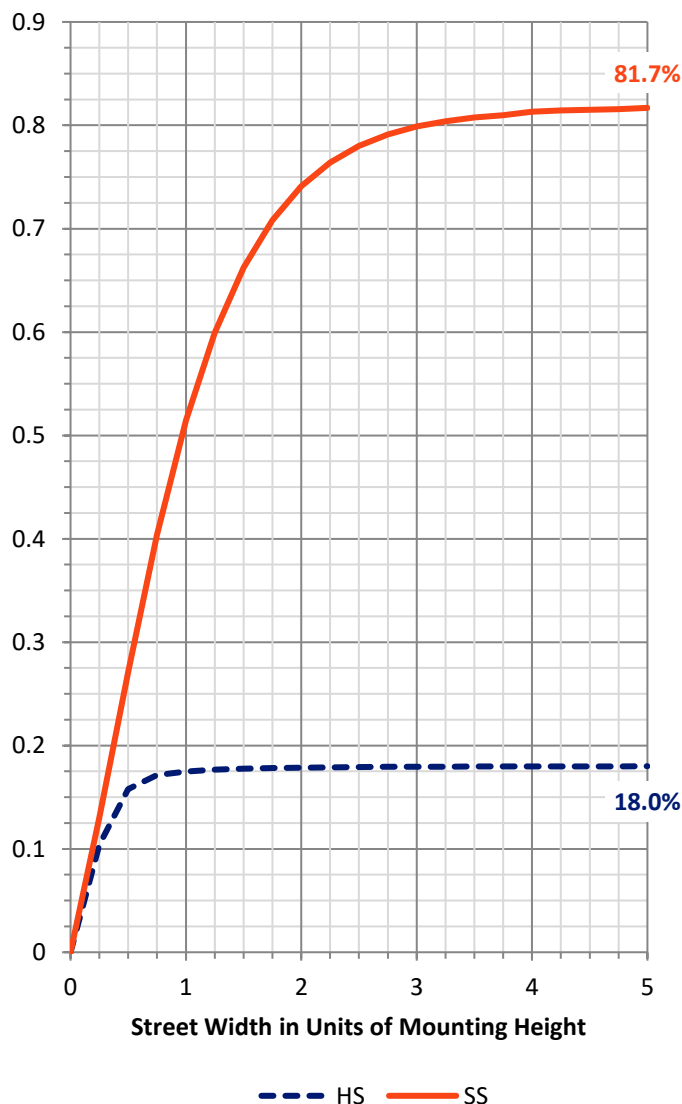
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4082.6	0.0	4082.6
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	18323.4	0.0	18323.4
	% Fixture	81.8	0.0	81.8
Total	Lumens	22406.0	0.0	22406.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.8	1.5
10°-20°	1047.6	4.7
20°-30°	1817.6	8.1
30°-40°	2699.6	12.0
40°-50°	3703.7	16.5
50°-60°	4548.3	20.3
60°-70°	4876.2	21.8
70°-80°	3095.5	13.8
80°-90°	281.7	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°	22406.0	100.0
0°-180°	22406.0	100.0



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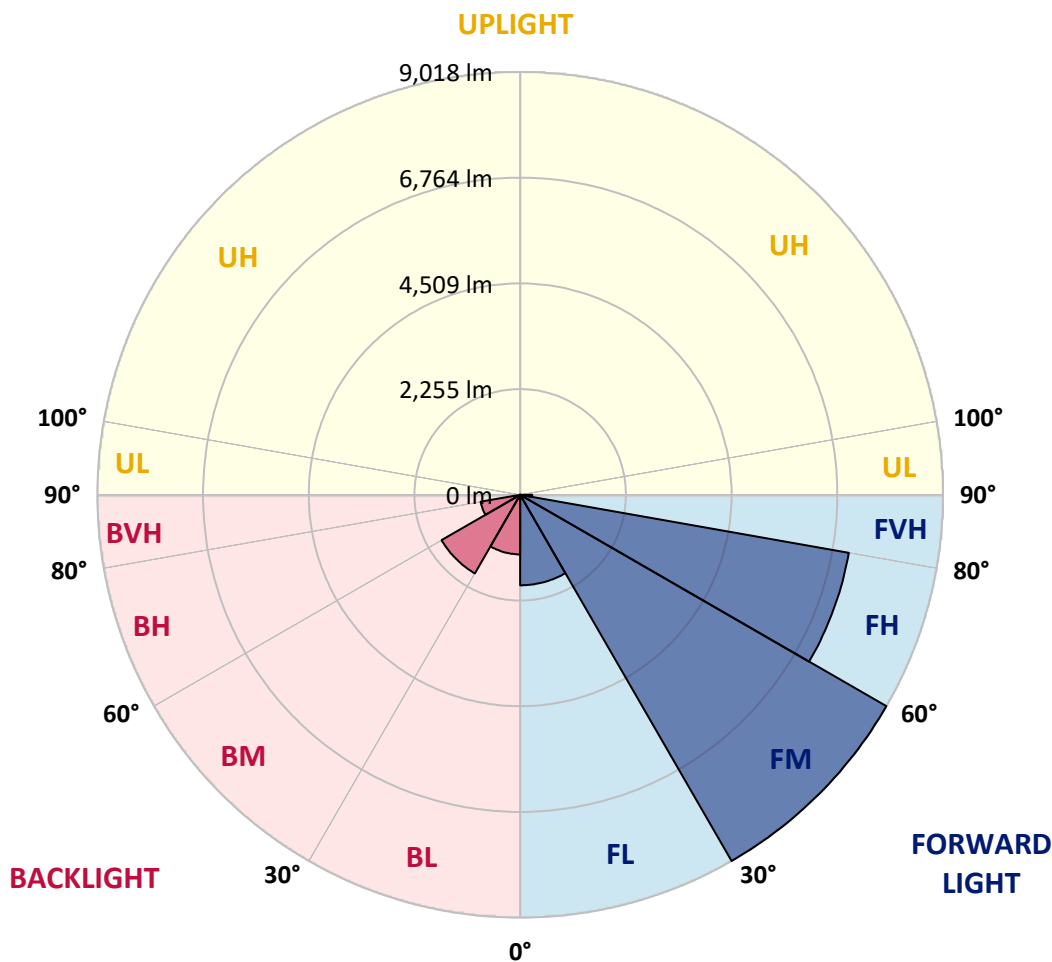
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1930.5	8.6			
FM (30°-60°)	9018.2	40.2			
FH (60°-80°)	7117.8	31.8			G3/7500
FVH (80°-90°)	256.9	1.1			G3/500
BL (0°-30°)	1270.6	5.7	B3/2500		
BM (30°-60°)	1933.3	8.6	B2/2500		
BH (60°-80°)	853.9	3.8	B2/1000		G2/1000
BVH (80°-90°)	24.8	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-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3370.4	3370.4	3370.4	3370.4	3370.4	3370.4	3370.4	3370.4	3370.4	3370.4	3370.4
2.5°	3340.0	3371.5	3353.0	3350.9	3372.5	3351.9	3366.0	3362.8	3360.6	3363.9	3386.6
5°	3427.8	3464.7	3439.7	3432.2	3444.1	3407.2	3404.0	3396.4	3394.2	3395.3	3427.8
7.5°	3550.3	3593.7	3583.9	3564.4	3557.9	3497.2	3486.4	3459.3	3450.6	3452.8	3485.3
10°	3743.3	3786.6	3767.1	3723.8	3696.7	3627.3	3588.3	3553.6	3536.2	3538.4	3573.1
12.5°	3990.5	4031.6	3999.1	3920.0	3904.8	3793.2	3732.4	3658.7	3646.8	3629.5	3666.3
15°	4223.5	4259.3	4244.1	4170.4	4129.2	3997.0	3885.3	3794.2	3783.4	3767.1	3766.1
17.5°	4481.5	4517.3	4489.1	4434.9	4380.7	4223.5	4103.2	3986.1	3957.9	3943.8	3892.9
20°	4756.9	4813.3	4807.8	4763.4	4698.3	4514.1	4343.9	4211.6	4181.2	4155.2	4047.9
22.5°	5040.9	5114.6	5098.4	5074.5	5047.4	4840.4	4642.0	4489.1	4466.4	4411.1	4242.0
25°	5355.3	5406.2	5394.3	5406.2	5387.8	5204.6	4987.8	4801.3	4771.0	4718.9	4459.9
27.5°	5659.9	5713.0	5733.6	5708.7	5720.6	5589.5	5332.5	5165.6	5136.3	5040.9	4722.2
30°	5935.3	6001.4	6030.7	6041.5	6081.6	5946.1	5756.4	5553.7	5543.9	5446.4	5068.0
32.5°	6155.3	6229.1	6300.6	6347.2	6411.2	6351.6	6162.9	6040.4	6041.5	5953.7	5587.3
35°	6314.7	6399.3	6503.3	6626.9	6761.3	6736.4	6624.7	6626.9	6644.3	6673.5	6249.6
37.5°	6491.4	6559.7	6682.2	6854.6	7059.4	7111.5	7096.3	7268.7	7353.2	7405.3	6831.8
40°	6596.6	6665.9	6818.8	7050.8	7348.9	7473.6	7613.4	7915.9	8026.4	7972.2	7329.4
42.5°	6480.6	6542.3	6807.9	7209.0	7586.3	7869.2	8119.7	8562.0	8642.2	8465.5	7748.9
45°	6329.9	6410.1	6689.8	7252.4	7796.6	8257.3	8646.5	9124.6	9184.2	8933.8	8119.7
47.5°	6206.3	6276.8	6603.1	7205.8	7990.7	8655.2	9109.4	9655.8	9671.0	9362.0	8503.4
50°	6048.0	6133.7	6474.1	7148.3	8107.7	9007.5	9533.3	10151.2	10184.8	9805.4	8828.6
52.5°	5882.2	5965.6	6317.9	7054.0	8192.3	9300.2	9973.4	10678.1	10681.3	10274.8	9175.5
55°	5637.2	5726.0	6116.3	6917.4	8218.3	9494.3	10415.7	11215.8	11249.4	10750.7	9489.9
57.5°	5378.1	5453.9	5873.5	6705.0	8121.8	9677.5	10869.9	11813.1	11905.2	11287.3	9759.9
60°	5034.4	5110.3	5553.7	6426.4	7916.9	9883.4	11390.3	12532.9	12542.7	11722.0	9956.1
62.5°	4664.7	4730.9	5138.5	5989.5	7599.3	9962.6	11836.9	13108.5	13107.5	12109.0	10053.6
65°	4225.7	4252.8	4668.0	5452.9	7106.1	9846.6	12034.2	13488.0	13451.1	12387.6	10021.1
67.5°	3705.3	3734.6	4049.0	4786.2	6390.6	9393.4	11946.4	13671.2	13708.0	12635.9	9880.2
70°	3046.2	3080.9	3355.2	3977.4	5478.9	8670.4	11740.5	13750.3	13781.8	12536.2	9445.5
72.5°	2248.4	2295.0	2463.0	2960.6	4158.5	7284.9	10786.5	12884.1	12901.5	11703.6	8540.3
75°	1396.3	1481.9	1640.2	1967.6	2698.2	5109.2	9220.0	11518.2	11409.8	10439.6	7067.0
77.5°	558.3	572.4	651.5	921.5	1316.1	2660.3	6683.3	9156.0	9363.1	8352.7	5055.0
80°	325.2	323.1	341.5	429.3	564.8	909.5	2599.6	5136.3	5725.0	4587.8	2274.4
82.5°	262.3	252.6	252.6	275.4	271.0	382.7	852.1	1500.3	1645.6	1460.2	647.2
85°	137.7	134.4	109.5	135.5	135.5	190.8	327.4	425.0	448.8	391.3	242.8
87.5°	34.7	34.7	34.7	42.3	33.6	40.1	55.3	67.2	69.4	56.4	35.8
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°	3370.4	3370.4	3370.4	3370.4	3370.4	3370.4	3370.4	3370.4	3370.4	3370.4	3370.4
2.5°	3395.3	3405.1	3443.0	3437.6	3444.1	3444.1	3454.9	3466.8	3502.6	3482.0	3473.4
5°	3434.3	3453.8	3501.5	3518.9	3544.9	3548.2	3569.8	3577.4	3616.4	3594.8	3594.8
7.5°	3509.1	3531.9	3576.3	3582.8	3594.8	3574.2	3579.6	3555.7	3581.8	3555.7	3556.8
10°	3593.7	3608.9	3639.2	3595.9	3577.4	3528.6	3517.8	3459.3	3479.9	3446.3	3437.6
12.5°	3675.0	3669.6	3646.8	3569.8	3518.9	3438.7	3405.1	3325.9	3321.6	3277.1	3268.5
15°	3752.0	3714.0	3640.3	3521.1	3434.3	3322.7	3242.4	3155.7	3125.4	3074.4	3070.1
17.5°	3846.3	3781.2	3650.1	3474.4	3332.4	3169.8	3056.0	2958.4	2895.5	2848.9	2847.8
20°	3961.2	3861.4	3654.4	3421.3	3227.3	3019.1	2859.8	2736.2	2646.2	2587.7	2586.6
22.5°	4105.4	3969.9	3694.5	3360.6	3092.8	2837.0	2638.6	2425.1	2301.5	2182.2	2160.5
25°	4274.5	4079.3	3729.2	3329.2	2960.6	2647.3	2352.4	2040.2	1848.3	1752.9	1717.2
27.5°	4511.9	4261.5	3780.1	3269.5	2835.9	2413.1	1983.8	1643.4	1412.5	1331.2	1331.2
30°	4786.2	4491.3	3875.5	3233.8	2662.5	2084.7	1579.5	1214.2	999.5	877.0	873.8
32.5°	5204.6	4765.6	3962.3	3156.8	2452.2	1726.9	1142.6	782.7	610.3	534.4	530.1
35°	5806.3	5288.1	4102.1	3079.8	2147.5	1285.7	725.2	448.8	348.0	304.6	302.5
37.5°	6385.2	5785.7	4403.5	2927.0	1715.0	807.6	402.2	259.1	212.5	207.1	204.9
40°	6792.8	6215.0	4616.0	2693.9	1218.5	428.2	233.1	187.5	184.3	182.1	181.0
42.5°	7237.2	6533.7	4766.6	2396.9	723.1	248.3	189.7	169.1	163.7	161.5	161.5
45°	7598.2	6840.5	4794.8	1971.9	364.2	204.9	173.5	153.9	147.4	151.8	152.9
47.5°	7931.0	7129.9	4699.4	1483.0	246.1	190.8	162.6	143.1	138.8	149.6	149.6
50°	8215.1	7374.9	4480.5	1106.8	230.9	180.0	151.8	132.3	131.2	140.9	142.0
52.5°	8498.0	7572.2	4135.7	835.8	219.0	168.0	140.9	122.5	119.2	125.8	126.8
55°	8722.4	7642.7	3879.9	622.3	210.3	157.2	131.2	112.7	105.2	104.1	106.2
57.5°	8846.0	7580.9	3629.5	457.5	200.6	147.4	121.4	99.7	87.8	87.8	87.8
60°	8848.2	7506.1	3361.7	362.1	189.7	136.6	110.6	85.6	73.7	71.5	71.5
62.5°	8824.3	7372.7	2972.5	314.4	177.8	127.9	96.5	72.6	64.0	60.7	60.7
65°	8719.2	7121.2	2500.9	268.8	163.7	121.4	82.4	65.0	57.5	53.1	53.1
67.5°	8391.8	6649.7	1925.3	234.2	150.7	107.3	74.8	58.5	51.0	46.6	45.5
70°	7791.2	5887.6	1270.5	199.5	137.7	95.4	68.3	53.1	45.5	41.2	40.1
72.5°	6784.1	4791.6	638.5	169.1	118.2	87.8	61.8	46.6	39.0	34.7	34.7
75°	5316.3	3325.9	348.0	134.4	93.2	77.0	54.2	39.0	33.6	30.4	30.4
77.5°	3259.8	1648.9	237.4	104.1	70.5	62.9	43.4	32.5	29.3	28.2	28.2
80°	1189.2	539.9	159.4	73.7	53.1	48.8	34.7	28.2	27.1	27.1	27.1
82.5°	429.3	274.3	107.3	49.9	33.6	36.9	28.2	23.8	22.8	23.8	24.9
85°	176.7	120.3	39.0	28.2	18.4	19.5	17.3	16.3	17.3	18.4	18.4
87.5°	27.1	23.8	14.1	14.1	10.8	9.8	7.6	8.7	10.8	13.0	13.0
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)