

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: P509950

Luminaire Tested: **VERD-M-CA3-170-750-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509950
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-CA3-170-750-U-T3-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 1060mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23237 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

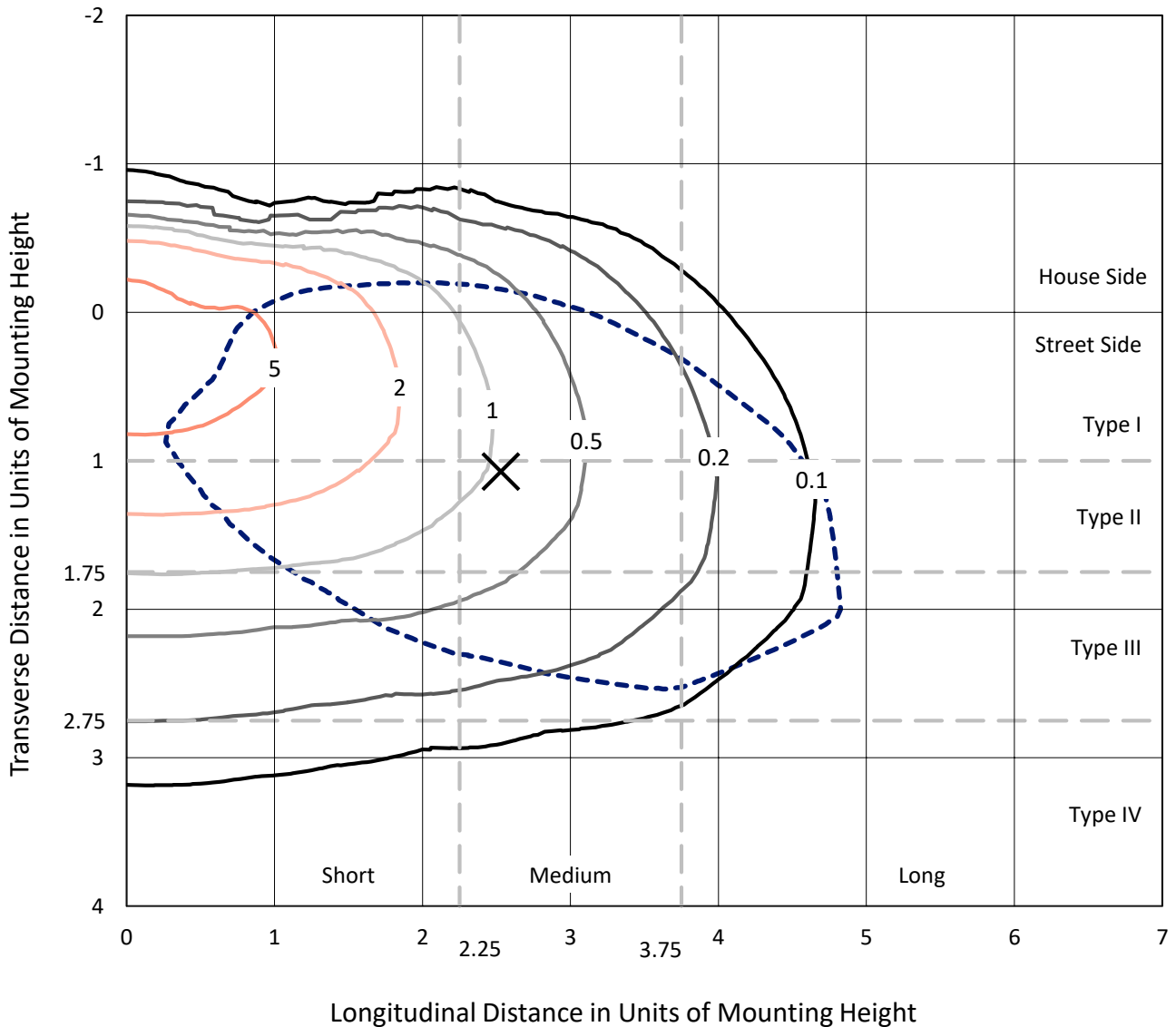
Input Watts (W): 172.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

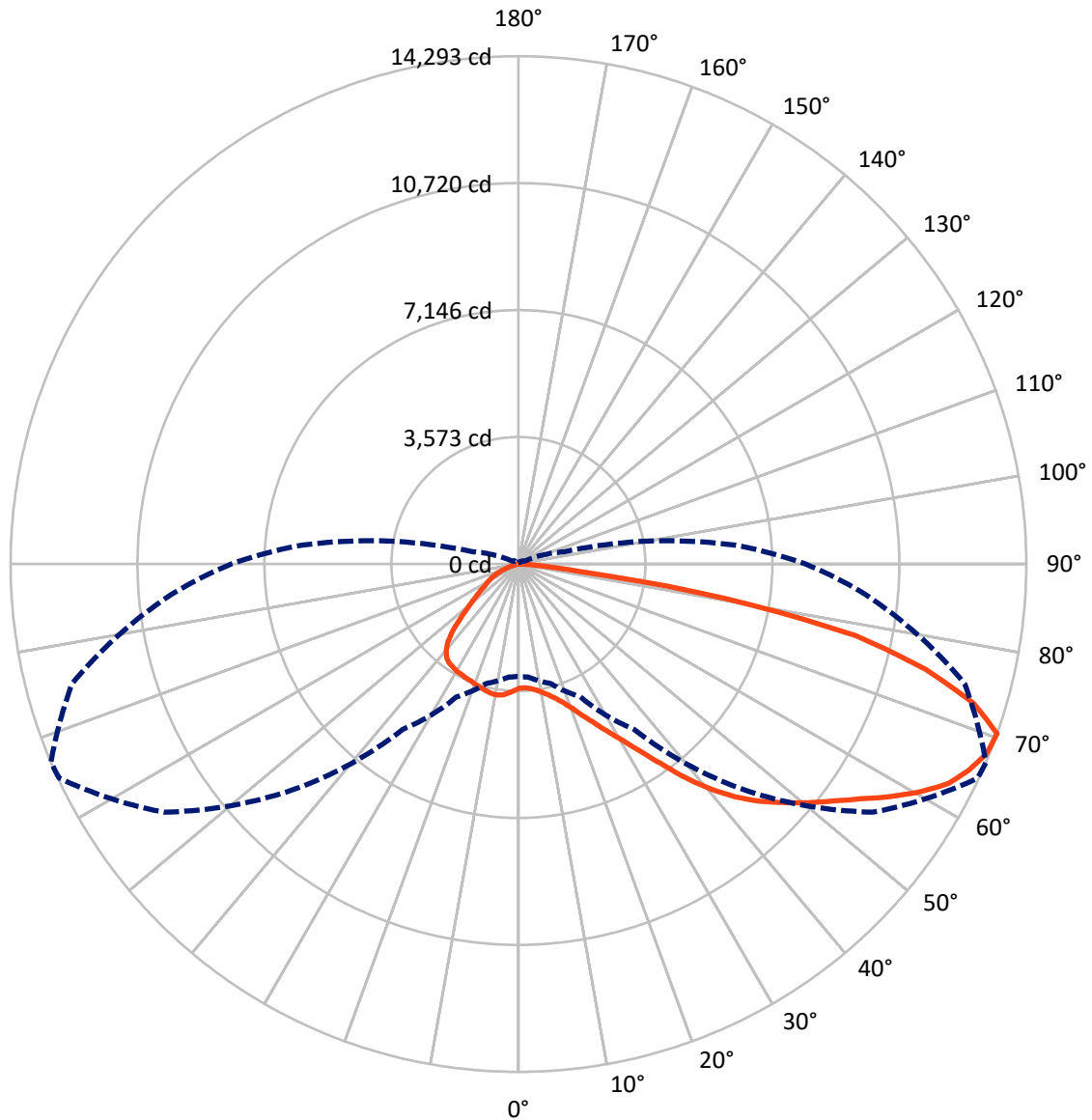
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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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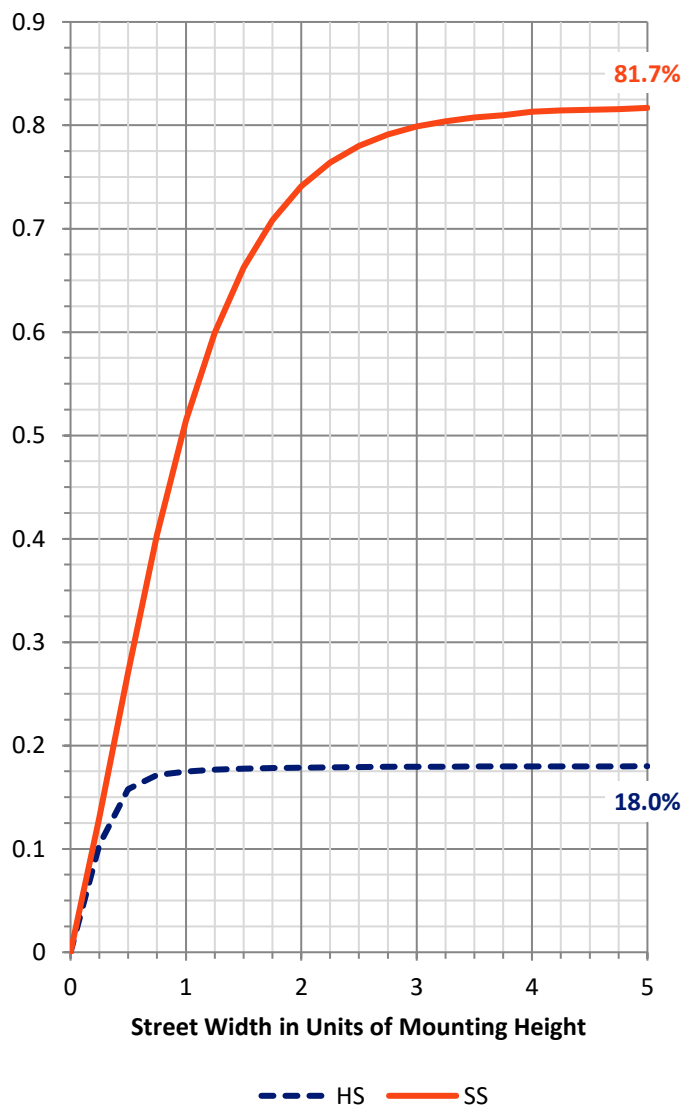
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4234.0	0.0	4234.0
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	19003.0	0.0	19003.0
	% Fixture	81.8	0.0	81.8
Total	Lumens	23237.0	0.0	23237.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.2	1.5
10°-20°	1086.5	4.7
20°-30°	1885.0	8.1
30°-40°	2799.7	12.0
40°-50°	3841.0	16.5
50°-60°	4717.0	20.3
60°-70°	5057.1	21.8
70°-80°	3210.3	13.8
80°-90°	292.2	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°	23237.0	100.0
0°-180°	23237.0	100.0

Coefficient of Utilization



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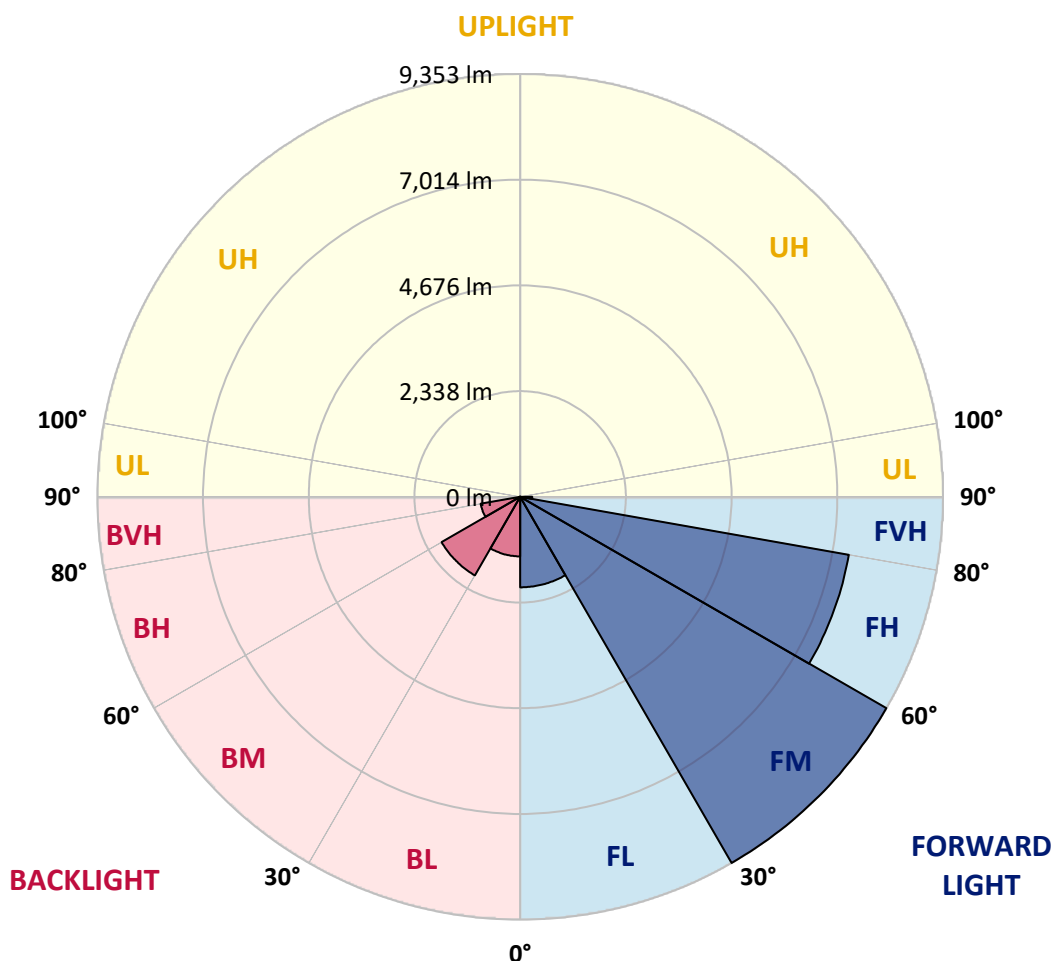
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2002.1	8.6			
FM	(30°-60°)	9352.7	40.2			
FH	(60°-80°)	7381.8	31.8			G3/7500
FVH	(80°-90°)	266.5	1.1			G3/500
BL	(0°-30°)	1317.7	5.7	B3/2500		
BM	(30°-60°)	2005.0	8.6	B2/2500		
BH	(60°-80°)	885.6	3.8	B2/1000		G2/1000
BVH	(80°-90°)	25.7	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-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3495.4	3495.4	3495.4	3495.4	3495.4	3495.4	3495.4	3495.4	3495.4	3495.4	3495.4
2.5°	3463.9	3496.5	3477.4	3475.1	3497.6	3476.3	3490.9	3487.5	3485.2	3488.6	3512.2
5°	3555.0	3593.2	3567.3	3559.5	3571.8	3533.6	3530.2	3522.3	3520.1	3521.2	3555.0
7.5°	3682.0	3727.0	3716.8	3696.6	3689.9	3626.9	3615.7	3587.6	3578.6	3580.8	3614.5
10°	3882.1	3927.1	3906.9	3861.9	3833.8	3761.8	3721.3	3685.4	3667.4	3669.6	3705.6
12.5°	4138.5	4181.2	4147.4	4065.4	4049.6	3933.8	3870.9	3794.4	3782.1	3764.1	3802.3
15°	4380.2	4417.3	4401.5	4325.1	4282.4	4145.2	4029.4	3935.0	3923.7	3906.9	3905.7
17.5°	4647.7	4684.8	4655.6	4599.4	4543.2	4380.2	4255.4	4134.0	4104.7	4090.1	4037.3
20°	4933.3	4991.8	4986.2	4940.1	4872.6	4681.5	4505.0	4367.8	4336.3	4309.3	4198.0
22.5°	5227.9	5304.3	5287.5	5262.7	5234.6	5019.9	4814.1	4655.6	4632.0	4574.7	4399.3
25°	5553.9	5606.8	5594.4	5606.8	5587.6	5397.6	5172.8	4979.4	4947.9	4894.0	4625.3
27.5°	5869.8	5924.9	5946.3	5920.4	5932.8	5796.8	5530.3	5357.2	5326.8	5227.9	4897.3
30°	6155.4	6224.0	6254.3	6265.6	6307.2	6166.6	5969.9	5759.7	5749.5	5648.4	5256.0
32.5°	6383.6	6460.1	6534.3	6582.6	6649.0	6587.1	6391.5	6264.5	6265.6	6174.5	5794.5
35°	6548.9	6636.6	6744.5	6872.7	7012.1	6986.2	6870.4	6872.7	6890.7	6921.0	6481.4
37.5°	6732.2	6803.0	6930.0	7108.8	7321.3	7375.2	7359.5	7538.3	7625.9	7679.9	7085.2
40°	6841.2	6913.2	7071.7	7312.3	7621.5	7750.7	7895.8	8209.4	8324.1	8267.9	7601.2
42.5°	6720.9	6785.0	7060.4	7476.4	7867.7	8161.1	8420.8	8879.5	8962.7	8779.5	8036.3
45°	6564.6	6647.8	6937.9	7521.4	8085.8	8563.6	8967.2	9463.0	9524.8	9265.1	8420.8
47.5°	6436.5	6509.5	6848.0	7473.0	8287.0	8976.2	9447.3	10013.9	10029.6	9709.2	8818.8
50°	6272.3	6361.1	6714.2	7413.5	8408.4	9341.6	9886.9	10527.7	10562.6	10169.1	9156.1
52.5°	6100.3	6186.9	6552.3	7315.6	8496.1	9645.1	10343.3	11074.1	11077.5	10655.9	9515.9
55°	5846.2	5938.4	6343.2	7174.0	8523.1	9846.4	10802.0	11631.7	11666.6	11149.4	9841.9
57.5°	5577.5	5656.2	6091.3	6953.6	8423.1	10036.4	11273.1	12251.2	12346.8	11705.9	10121.8
60°	5221.1	5299.8	5759.7	6664.7	8210.6	10250.0	11812.7	12997.7	13007.8	12156.8	10325.3
62.5°	4837.8	4906.3	5329.1	6211.6	7881.2	10332.1	12275.9	13594.7	13593.6	12558.1	10426.5
65°	4382.4	4410.5	4841.1	5655.1	7369.6	10211.8	12480.6	13988.2	13950.0	12847.1	10392.8
67.5°	3842.8	3873.1	4199.2	4963.7	6627.6	9741.8	12389.5	14178.2	14216.4	13104.5	10246.6
70°	3159.2	3195.2	3479.6	4125.0	5682.1	8991.9	12175.9	14260.3	14292.9	13001.1	9795.8
72.5°	2331.7	2380.1	2554.4	3070.4	4312.7	7555.1	11186.5	13362.0	13380.0	12137.7	8857.0
75°	1448.1	1536.9	1701.0	2040.6	2798.3	5298.7	9561.9	11945.4	11833.0	10826.8	7329.1
77.5°	579.0	593.6	675.7	955.6	1364.9	2759.0	6931.1	9495.6	9710.4	8662.5	5242.5
80°	337.3	335.0	354.1	445.2	585.7	943.3	2696.0	5326.8	5937.3	4757.9	2358.7
82.5°	272.1	262.0	262.0	285.6	281.1	396.9	883.7	1556.0	1706.6	1514.4	671.2
85°	142.8	139.4	113.6	140.5	140.5	197.9	339.5	440.7	465.4	405.9	251.8
87.5°	36.0	36.0	36.0	43.8	34.9	41.6	57.3	69.7	72.0	58.5	37.1
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°	3495.4	3495.4	3495.4	3495.4	3495.4	3495.4	3495.4	3495.4	3495.4	3495.4	3495.4
2.5°	3521.2	3531.3	3570.7	3565.1	3571.8	3571.8	3583.1	3595.4	3632.5	3611.2	3602.2
5°	3561.7	3581.9	3631.4	3649.4	3676.4	3679.7	3702.2	3710.1	3750.6	3728.1	3728.1
7.5°	3639.3	3662.9	3709.0	3715.7	3728.1	3706.7	3712.4	3687.6	3714.6	3687.6	3688.7
10°	3727.0	3742.7	3774.2	3729.2	3710.1	3659.5	3648.3	3587.6	3608.9	3574.1	3565.1
12.5°	3811.3	3805.7	3782.1	3702.2	3649.4	3566.2	3531.3	3449.3	3444.8	3398.7	3389.7
15°	3891.1	3851.8	3775.3	3651.6	3561.7	3445.9	3362.7	3272.8	3241.3	3188.4	3183.9
17.5°	3988.9	3921.5	3785.4	3603.3	3456.0	3287.4	3169.3	3068.1	3002.9	2954.6	2953.5
20°	4108.1	4004.7	3789.9	3548.2	3347.0	3131.1	2965.8	2837.7	2744.4	2683.6	2682.5
22.5°	4257.6	4117.1	3831.5	3485.2	3207.6	2942.2	2736.5	2515.0	2386.8	2263.2	2240.7
25°	4433.0	4230.6	3867.5	3452.6	3070.4	2745.5	2439.7	2115.9	1916.9	1818.0	1780.8
27.5°	4679.2	4419.5	3920.3	3390.8	2941.1	2502.6	2057.4	1704.4	1464.9	1380.6	1380.6
30°	4963.7	4657.9	4019.3	3353.7	2761.2	2162.0	1638.1	1259.2	1036.6	909.5	906.2
32.5°	5397.6	4942.3	4109.2	3273.9	2543.1	1791.0	1185.0	811.7	633.0	554.3	549.8
35°	6021.6	5484.2	4254.3	3194.1	2227.2	1333.4	752.1	465.4	360.9	315.9	313.7
37.5°	6622.0	6000.2	4566.8	3035.5	1778.6	837.6	417.1	268.7	220.4	214.7	212.5
40°	7044.7	6445.5	4787.2	2793.8	1263.7	444.1	241.7	194.5	191.1	188.9	187.8
42.5°	7505.7	6776.0	4943.4	2485.8	749.9	257.5	196.7	175.4	169.8	167.5	167.5
45°	7880.0	7094.2	4972.7	2045.1	377.8	212.5	179.9	159.6	152.9	157.4	158.5
47.5°	8225.2	7394.3	4873.7	1538.0	255.2	197.9	168.6	148.4	143.9	155.1	155.1
50°	8519.7	7648.4	4646.6	1147.9	239.5	186.6	157.4	137.2	136.0	146.2	147.3
52.5°	8813.2	7853.1	4289.1	866.8	227.1	174.3	146.2	127.0	123.7	130.4	131.5
55°	9045.9	7926.1	4023.8	645.3	218.1	163.0	136.0	116.9	109.1	107.9	110.2
57.5°	9174.1	7862.0	3764.1	474.4	208.0	152.9	125.9	103.4	91.1	91.1	91.1
60°	9176.3	7784.5	3486.4	375.5	196.7	141.7	114.7	88.8	76.5	74.2	74.2
62.5°	9151.6	7646.2	3082.8	326.0	184.4	132.7	100.1	75.3	66.3	63.0	63.0
65°	9042.5	7385.4	2593.7	278.8	169.8	125.9	85.4	67.5	59.6	55.1	55.1
67.5°	8703.0	6896.3	1996.7	242.8	156.3	111.3	77.6	60.7	52.8	48.3	47.2
70°	8080.2	6105.9	1317.6	206.9	142.8	98.9	70.8	55.1	47.2	42.7	41.6
72.5°	7035.7	4969.3	662.2	175.4	122.5	91.1	64.1	48.3	40.5	36.0	36.0
75°	5513.4	3449.3	360.9	139.4	96.7	79.8	56.2	40.5	34.9	31.5	31.5
77.5°	3380.7	1710.0	246.2	107.9	73.1	65.2	45.0	33.7	30.4	29.2	29.2
80°	1233.3	559.9	165.3	76.5	55.1	50.6	36.0	29.2	28.1	28.1	28.1
82.5°	445.2	284.4	111.3	51.7	34.9	38.2	29.2	24.7	23.6	24.7	25.9
85°	183.3	124.8	40.5	29.2	19.1	20.2	18.0	16.9	18.0	19.1	19.1
87.5°	28.1	24.7	14.6	14.6	11.2	10.1	7.9	9.0	11.2	13.5	13.5
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)