

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: P553570

Luminaire Tested: **VERD-G-CA2-150-740-U-T3-HSS**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553570
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-5)
Test Lab: INNOVATION CENTER
Issue Date: 7/12/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-150-740-U-T3-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1380mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20008 lumens
Efficiency: N/A
Efficacy: 131.5 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

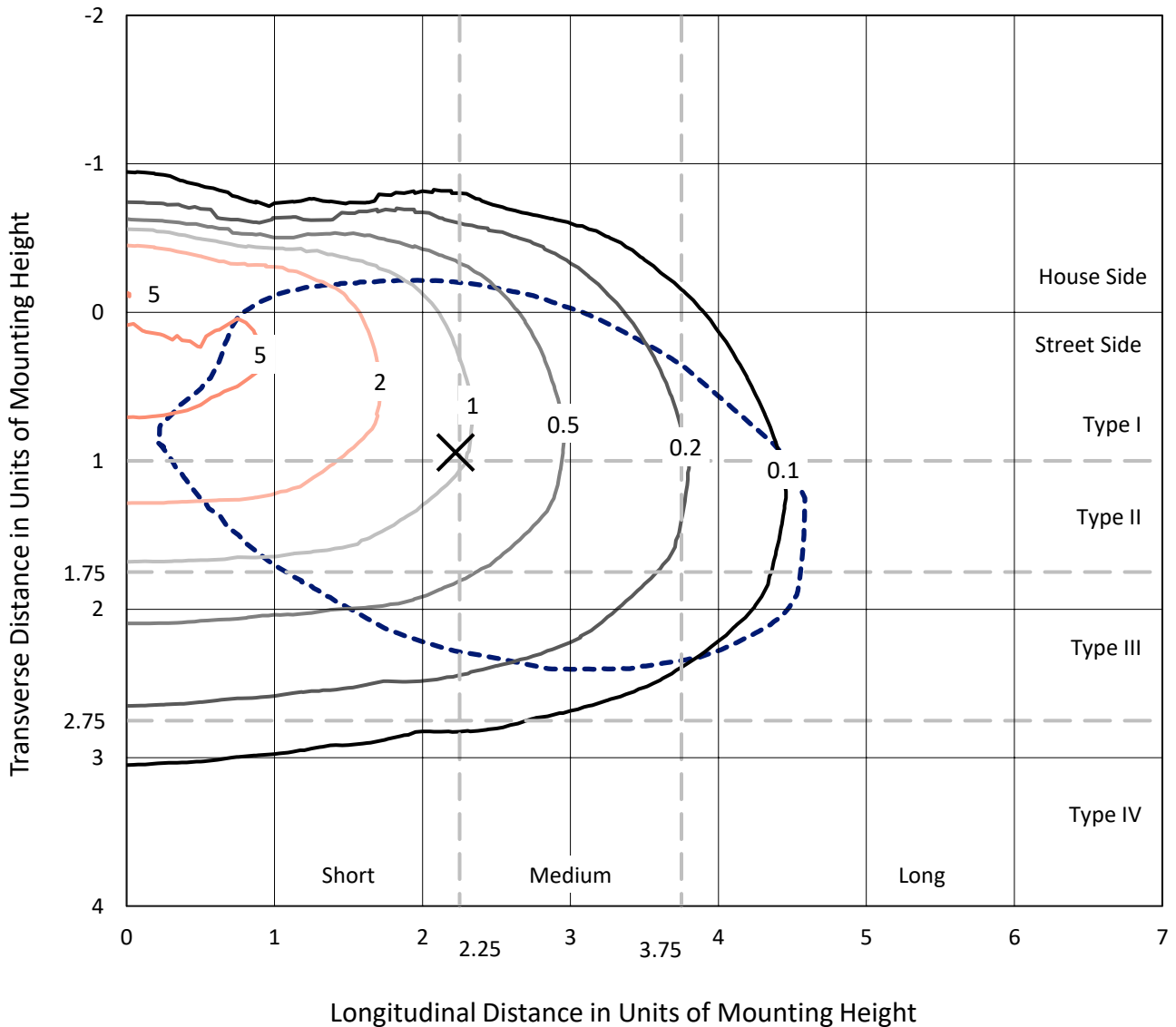
Input Watts (W): 152.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

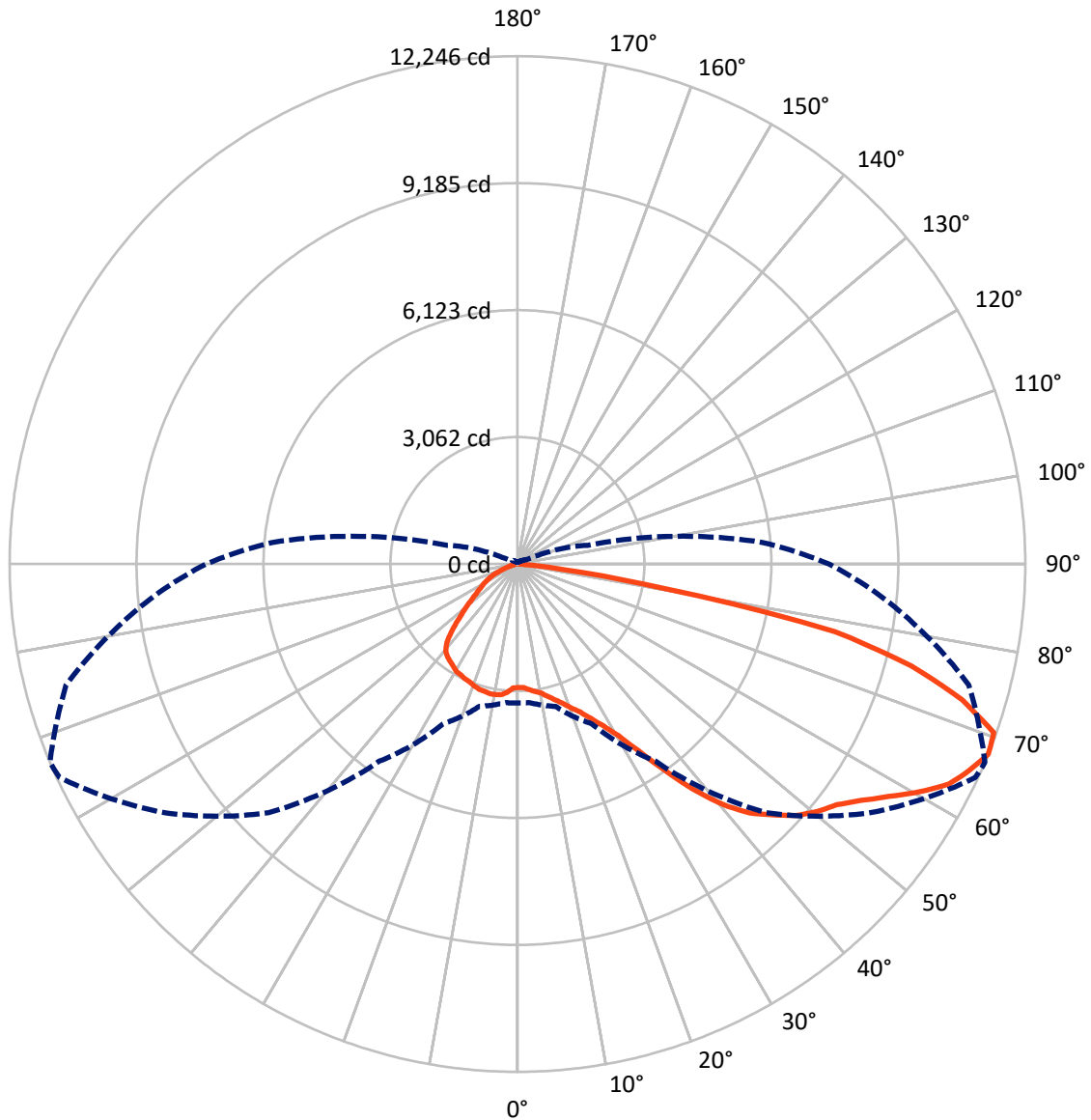
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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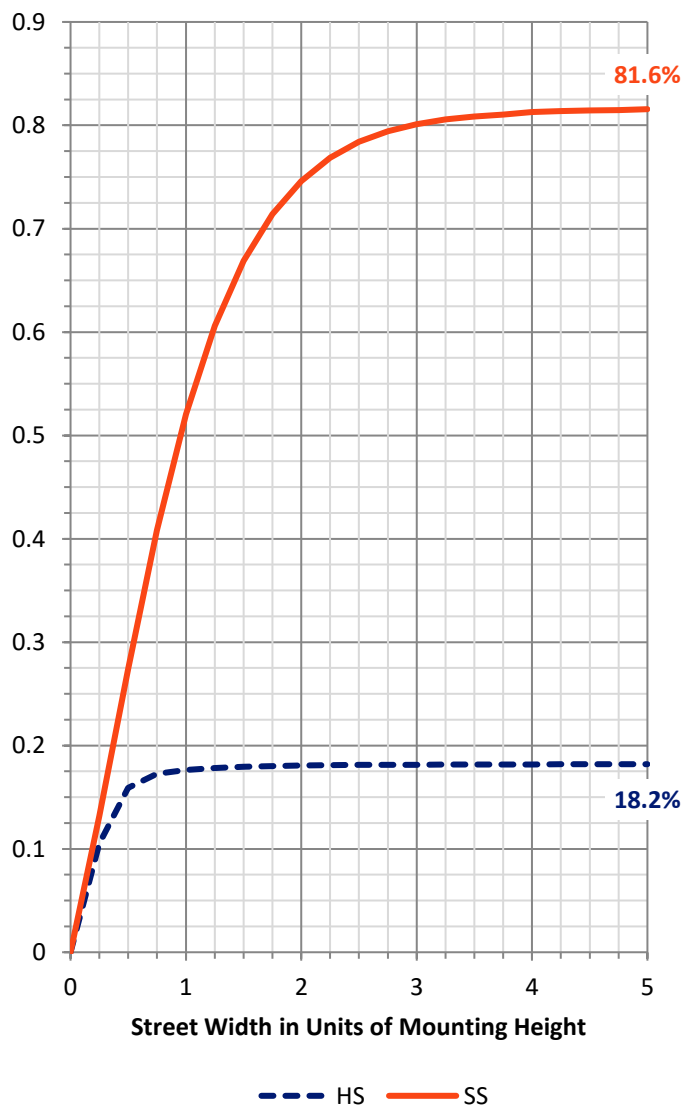
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3682.7	0.0	3682.7
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	16325.3	0.0	16325.3
	% Fixture	81.6	0.0	81.6
Total	Lumens	20008.0	0.0	20008.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.6	1.5
10°-20°	936.5	4.7
20°-30°	1596.7	8.0
30°-40°	2435.3	12.2
40°-50°	3433.1	17.2
50°-60°	4149.7	20.7
60°-70°	4370.4	21.8
70°-80°	2599.8	13.0
80°-90°	186.9	0.9
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°	20008.0	100.0
0°-180°	20008.0	100.0

Coefficient of Utilization



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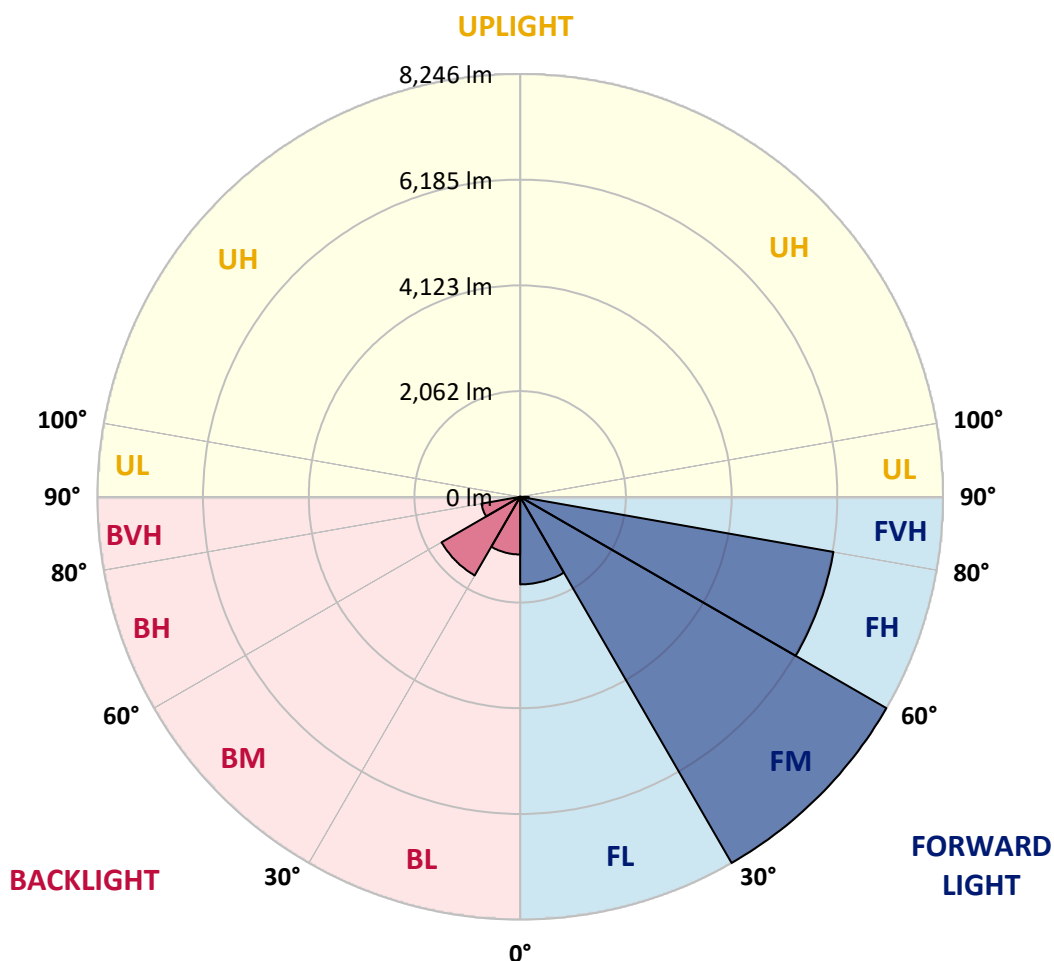
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1708.1	8.5			
FM (30°-60°)	8246.4	41.2			
FH (60°-80°)	6203.5	31.0			G3/7500
FVH (80°-90°)	167.3	0.8			G2/225
BL (0°-30°)	1124.7	5.6	B3/2500		
BM (30°-60°)	1771.7	8.9	B2/2500		
BH (60°-80°)	766.7	3.8	B2/1000		G2/1000
BVH (80°-90°)	19.6	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2978.6	2978.6	2978.6	2978.6	2978.6	2978.6	2978.6	2978.6	2978.6	2978.6	2978.6
2.5°	3041.5	3053.0	3030.1	3024.4	2994.3	2998.6	2992.9	2978.6	2984.3	2972.8	2980.0
5°	3158.9	3128.8	3120.3	3103.1	3075.9	3060.1	3037.2	3030.1	3045.8	3032.9	3035.8
7.5°	3283.4	3289.2	3250.5	3217.6	3168.9	3157.5	3117.4	3093.1	3108.8	3091.6	3101.7
10°	3439.4	3448.0	3406.5	3362.2	3320.6	3260.5	3210.4	3171.8	3167.5	3158.9	3173.2
12.5°	3644.1	3642.7	3596.9	3542.5	3460.9	3419.4	3323.5	3269.1	3276.3	3244.8	3241.9
15°	3881.7	3861.7	3808.7	3752.9	3651.3	3569.7	3453.8	3386.5	3397.9	3362.2	3353.6
17.5°	4113.6	4093.6	4052.0	3990.5	3897.5	3771.5	3629.8	3532.5	3529.6	3512.4	3460.9
20°	4351.2	4359.8	4304.0	4248.1	4155.1	3986.2	3825.9	3699.9	3702.8	3672.7	3572.6
22.5°	4628.9	4613.1	4545.8	4520.1	4414.2	4229.5	4050.6	3906.0	3877.4	3871.7	3698.5
25°	4893.7	4883.6	4822.1	4792.0	4703.3	4534.4	4302.5	4129.3	4125.0	4106.4	3861.7
27.5°	5104.1	5115.5	5109.8	5088.3	4991.0	4825.0	4621.7	4414.2	4417.0	4389.8	4073.5
30°	5403.2	5368.8	5356.0	5373.1	5364.6	5185.6	4969.5	4819.2	4809.2	4739.1	4341.2
32.5°	5577.8	5595.0	5612.2	5672.3	5673.7	5540.6	5400.3	5328.8	5368.8	5380.3	5006.7
35°	5738.1	5738.1	5836.9	5988.6	6041.6	5995.8	5935.6	6025.8	6104.5	6263.4	5825.4
37.5°	5881.3	5922.8	6015.8	6206.2	6379.4	6423.7	6555.4	6803.0	6898.9	7043.5	6515.3
40°	6001.5	6031.5	6150.3	6383.6	6681.4	6884.6	7130.8	7524.4	7624.6	7597.4	6898.9
42.5°	5868.4	5917.0	6107.4	6586.9	6961.9	7344.1	7666.1	8091.2	8212.9	7961.0	7302.6
45°	5796.8	5815.4	6014.4	6558.3	7168.0	7809.2	8174.2	8629.4	8629.4	8347.4	7587.4
47.5°	5653.7	5686.6	5922.8	6521.1	7387.0	8197.1	8566.4	9030.1	9060.2	8712.4	7870.8
50°	5509.1	5550.6	5818.3	6455.2	7510.1	8586.4	8899.9	9365.1	9376.5	8962.9	8121.3
52.5°	5366.0	5387.5	5686.6	6412.3	7646.1	8786.8	9187.6	9637.0	9642.7	9337.9	8397.5
55°	5109.8	5162.7	5471.9	6254.8	7638.9	8878.4	9337.9	10000.6	10056.4	9745.8	8669.5
57.5°	4869.3	4885.1	5222.9	6027.3	7523.0	8984.3	9661.4	10521.6	10576.0	10116.5	8871.3
60°	4548.7	4565.9	4929.4	5756.7	7351.2	9090.3	10072.1	11129.9	11154.2	10505.8	9023.0
62.5°	4213.8	4272.5	4571.6	5341.7	6994.8	9108.9	10419.9	11691.0	11680.9	10843.6	9123.2
65°	3820.2	3841.6	4129.3	4856.4	6449.5	8967.2	10563.1	11962.9	11987.2	11081.2	9057.3
67.5°	3347.8	3356.4	3553.9	4252.4	5804.0	8479.1	10444.3	12184.8	12246.3	11267.3	8782.5
70°	2645.1	2657.9	2839.7	3503.9	4887.9	7731.9	10243.9	12210.5	12184.8	11099.8	8364.6
72.5°	1843.5	1824.9	2002.4	2457.6	3701.4	6359.3	9276.3	11171.4	11217.2	10269.7	7490.1
75°	883.1	888.8	1240.9	1511.5	2078.3	4543.0	7720.5	9619.8	9811.6	8950.0	6101.7
77.5°	150.3	153.2	327.8	595.4	837.3	1906.5	5119.8	7661.8	7825.0	7024.9	4130.8
80°	120.2	120.2	160.3	320.6	443.7	790.1	1939.4	3396.5	3574.0	3181.8	1522.9
82.5°	81.6	85.9	114.5	187.5	157.4	309.2	704.2	1074.9	1103.5	1000.5	625.5
85°	45.8	47.2	58.7	75.9	65.8	114.5	144.6	147.4	156.0	121.7	93.0
87.5°	5.7	12.9	12.9	12.9	5.7	5.7	4.3	4.3	5.7	4.3	4.3
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°	2978.6	2978.6	2978.6	2978.6	2978.6	2978.6	2978.6	2978.6	2978.6	2978.6	2978.6
2.5°	2975.7	2958.5	2995.7	2988.6	3014.3	3010.0	3031.5	3043.0	3067.3	3098.8	3095.9
5°	3038.7	3037.2	3081.6	3103.1	3126.0	3147.5	3148.9	3170.4	3191.8	3239.1	3237.6
7.5°	3098.8	3111.7	3174.6	3176.1	3184.7	3200.4	3178.9	3186.1	3191.8	3209.0	3214.7
10°	3168.9	3193.3	3194.7	3189.0	3161.8	3160.3	3111.7	3117.4	3091.6	3111.7	3101.7
12.5°	3259.1	3239.1	3227.6	3189.0	3147.5	3091.6	3045.8	2982.9	2968.5	2968.5	2972.8
15°	3347.8	3317.8	3219.0	3157.5	3081.6	2992.9	2918.4	2846.9	2811.1	2795.4	2792.5
17.5°	3425.1	3362.2	3221.9	3141.7	2998.6	2868.3	2756.7	2642.2	2586.4	2550.6	2544.9
20°	3488.1	3420.8	3230.5	3090.2	2908.4	2716.6	2547.7	2403.2	2293.0	2211.4	2220.0
22.5°	3594.0	3486.7	3224.7	3028.7	2803.9	2554.9	2300.1	2101.2	1916.5	1870.7	1883.6
25°	3721.4	3581.1	3257.7	2991.4	2682.3	2351.6	2016.7	1786.3	1588.8	1525.8	1530.1
27.5°	3868.8	3695.6	3294.9	2929.9	2556.3	2101.2	1697.5	1412.7	1255.3	1130.7	1120.7
30°	4103.6	3851.7	3335.0	2889.8	2380.3	1822.1	1349.7	1053.4	855.9	788.7	788.7
32.5°	4654.6	4168.0	3399.4	2793.9	2148.4	1510.0	984.7	689.9	515.3	455.2	456.6
35°	5354.5	4806.3	3545.4	2676.6	1875.0	1145.0	608.3	383.6	302.0	271.9	269.1
37.5°	6023.0	5393.2	3857.4	2539.1	1530.1	725.7	342.1	236.2	206.1	204.7	206.1
40°	6435.2	5856.9	4170.8	2355.9	1117.9	399.3	221.9	193.2	188.9	184.6	184.6
42.5°	6815.9	6176.1	4408.4	2075.4	667.0	241.9	194.7	176.1	173.2	166.0	166.0
45°	7125.1	6405.1	4427.0	1701.8	353.5	214.7	178.9	160.3	154.6	150.3	148.9
47.5°	7418.5	6628.4	4359.8	1303.9	251.9	199.0	167.5	147.4	140.3	143.1	141.7
50°	7616.0	6851.7	4176.6	1024.8	240.5	184.6	154.6	134.5	131.7	137.4	136.0
52.5°	7829.3	7034.9	3820.2	797.2	223.3	170.3	141.7	126.0	120.2	124.5	126.0
55°	7998.2	7032.0	3558.2	622.6	211.8	158.9	133.1	118.8	108.8	108.8	107.3
57.5°	8081.2	6964.8	3347.8	489.5	199.0	147.4	124.5	104.5	93.0	90.2	88.7
60°	8076.9	6898.9	3103.1	402.2	186.1	134.5	111.6	88.7	77.3	71.6	71.6
62.5°	8031.1	6744.3	2715.2	346.4	173.2	124.5	93.0	73.0	64.4	58.7	60.1
65°	7913.7	6446.6	2238.6	294.9	160.3	120.2	78.7	64.4	55.8	50.1	50.1
67.5°	7507.2	5947.1	1746.2	247.6	147.4	100.2	68.7	54.4	47.2	41.5	41.5
70°	6931.8	5185.6	1149.3	209.0	131.7	87.3	61.5	47.2	40.1	34.4	32.9
72.5°	5908.5	4143.6	584.0	178.9	113.1	77.3	54.4	41.5	34.4	28.6	27.2
75°	4531.5	2791.1	363.6	143.1	88.7	68.7	48.7	37.2	28.6	21.5	20.0
77.5°	2702.3	1123.6	257.6	100.2	60.1	54.4	40.1	30.1	22.9	15.7	15.7
80°	853.1	496.7	174.6	68.7	38.6	37.2	30.1	21.5	15.7	11.5	11.5
82.5°	482.4	314.9	117.4	45.8	27.2	24.3	17.2	12.9	10.0	8.6	8.6
85°	80.2	63.0	35.8	17.2	12.9	11.5	7.2	4.3	2.9	1.4	2.9
87.5°	4.3	4.3	5.7	5.7	5.7	4.3	2.9	0.0	0.0	0.0	0.0
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)