

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: P510254

Luminaire Tested: **VERD-M-CA4-240-722-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510254
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-CA4-240-722-U-T3-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 2200K, 1090mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25455 lumens
Efficiency: N/A
Efficacy: 105.1 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

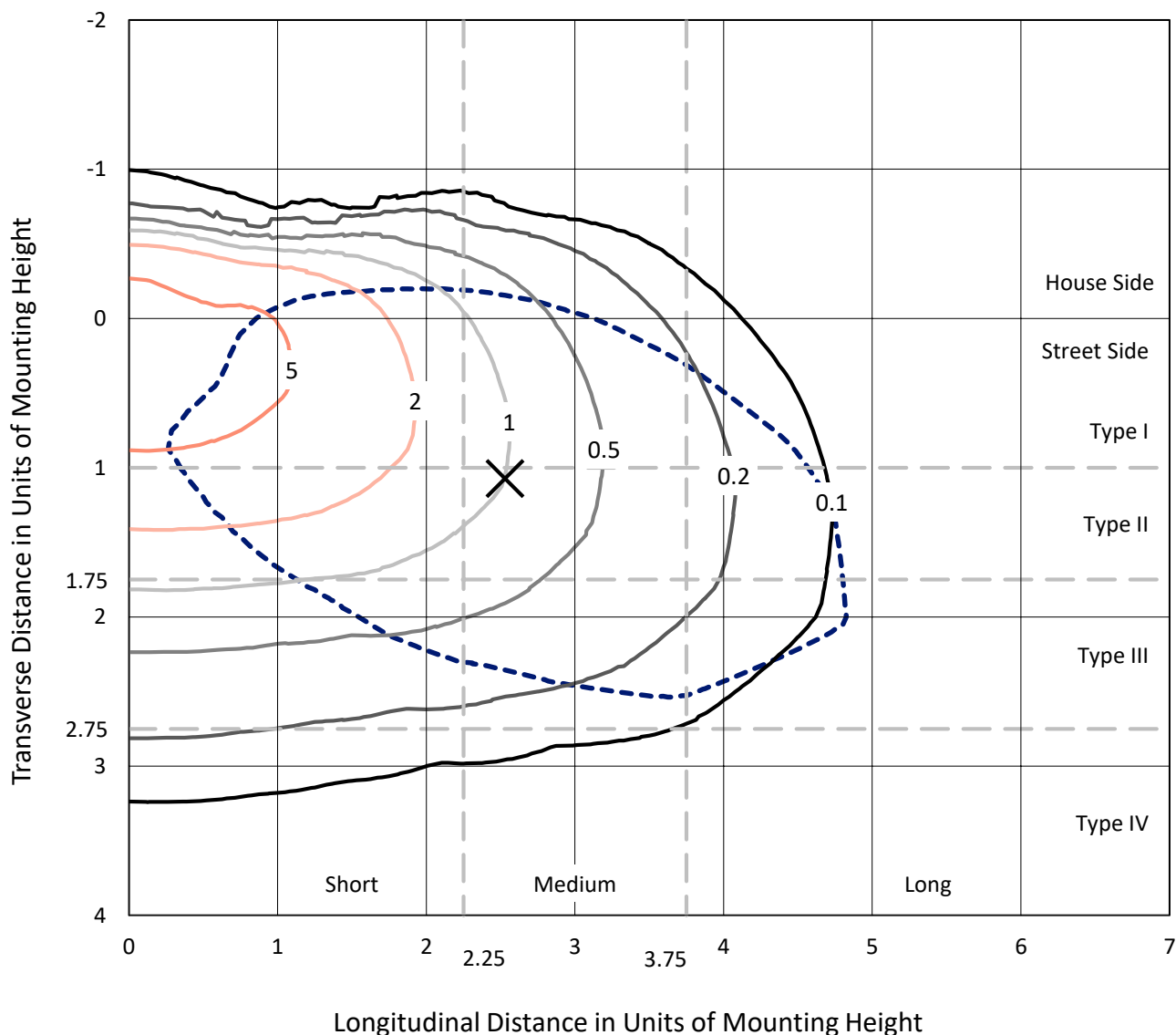
Input Watts (W): 242.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

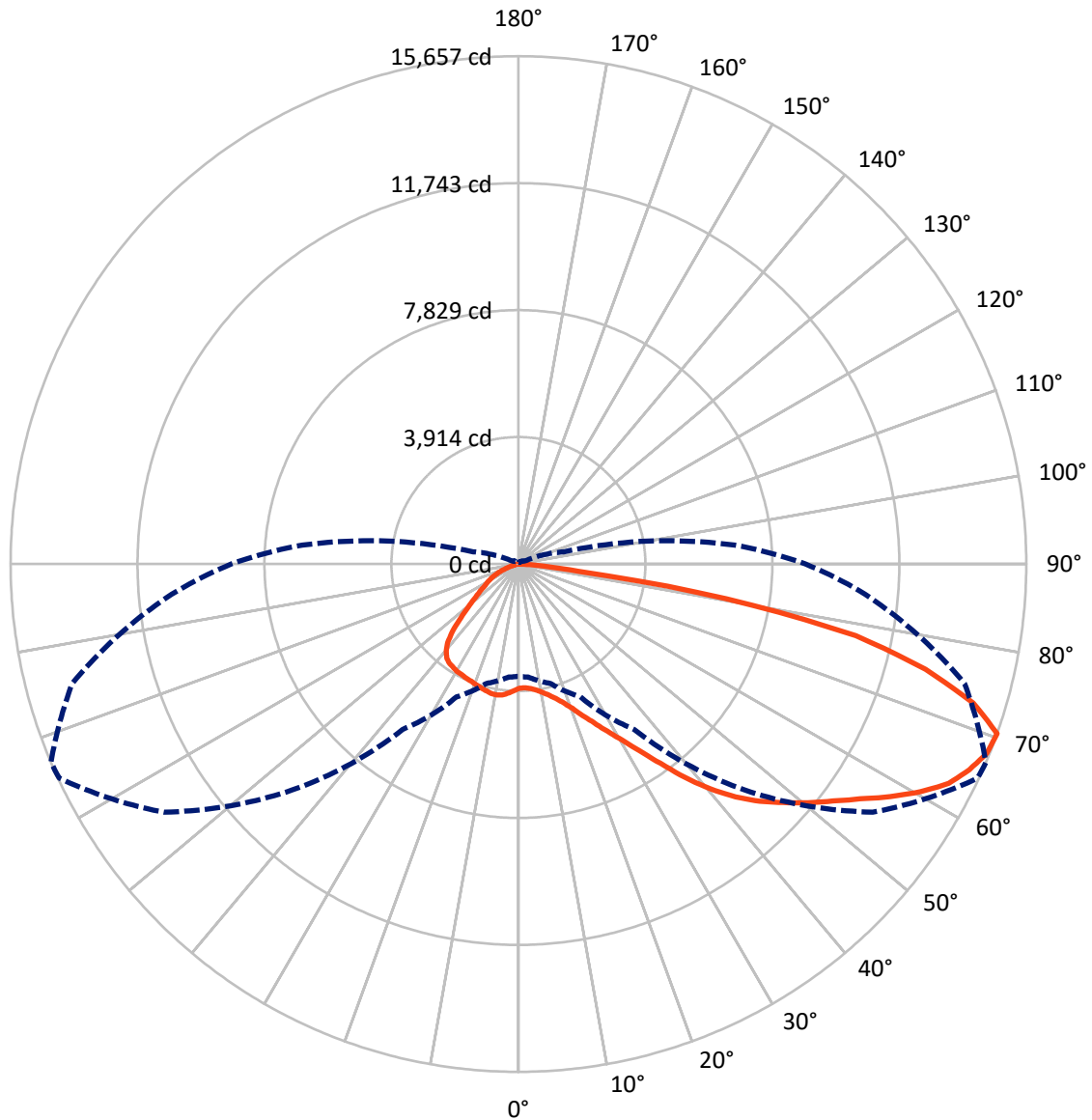
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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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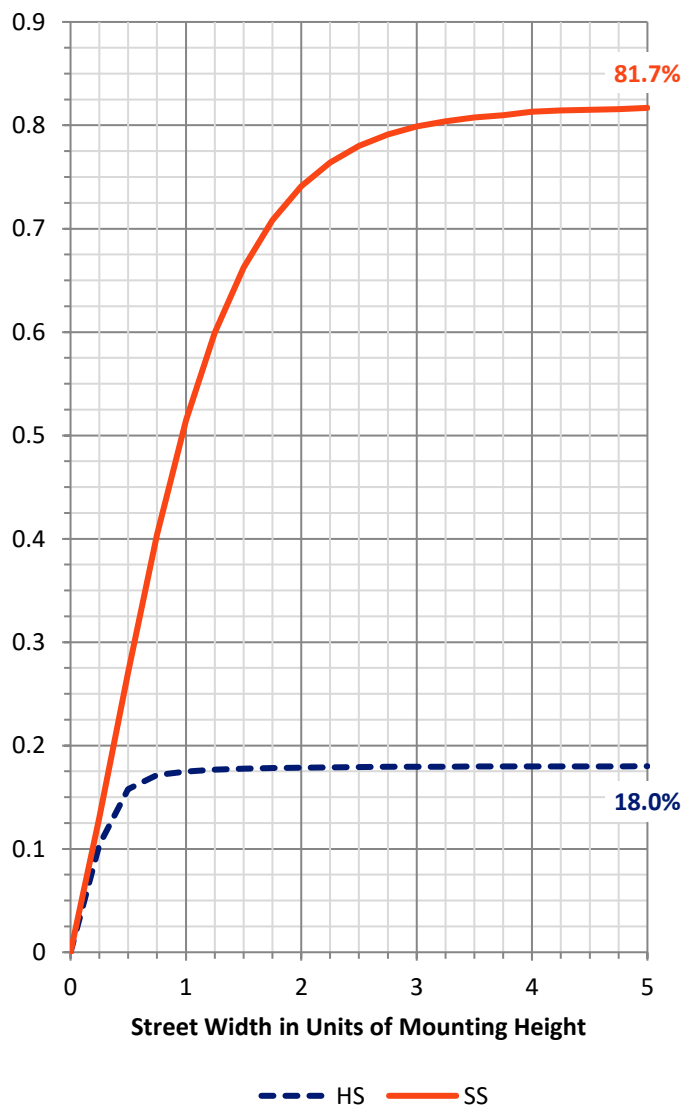
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4638.1	0.0	4638.1
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	20816.9	0.0	20816.9
	% Fixture	81.8	0.0	81.8
Total	Lumens	25455.0	0.0	25455.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.5	1.5
10°-20°	1190.2	4.7
20°-30°	2065.0	8.1
30°-40°	3066.9	12.0
40°-50°	4207.6	16.5
50°-60°	5167.2	20.3
60°-70°	5539.8	21.8
70°-80°	3516.8	13.8
80°-90°	320.0	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°	25455.0	100.0
0°-180°	25455.0	100.0



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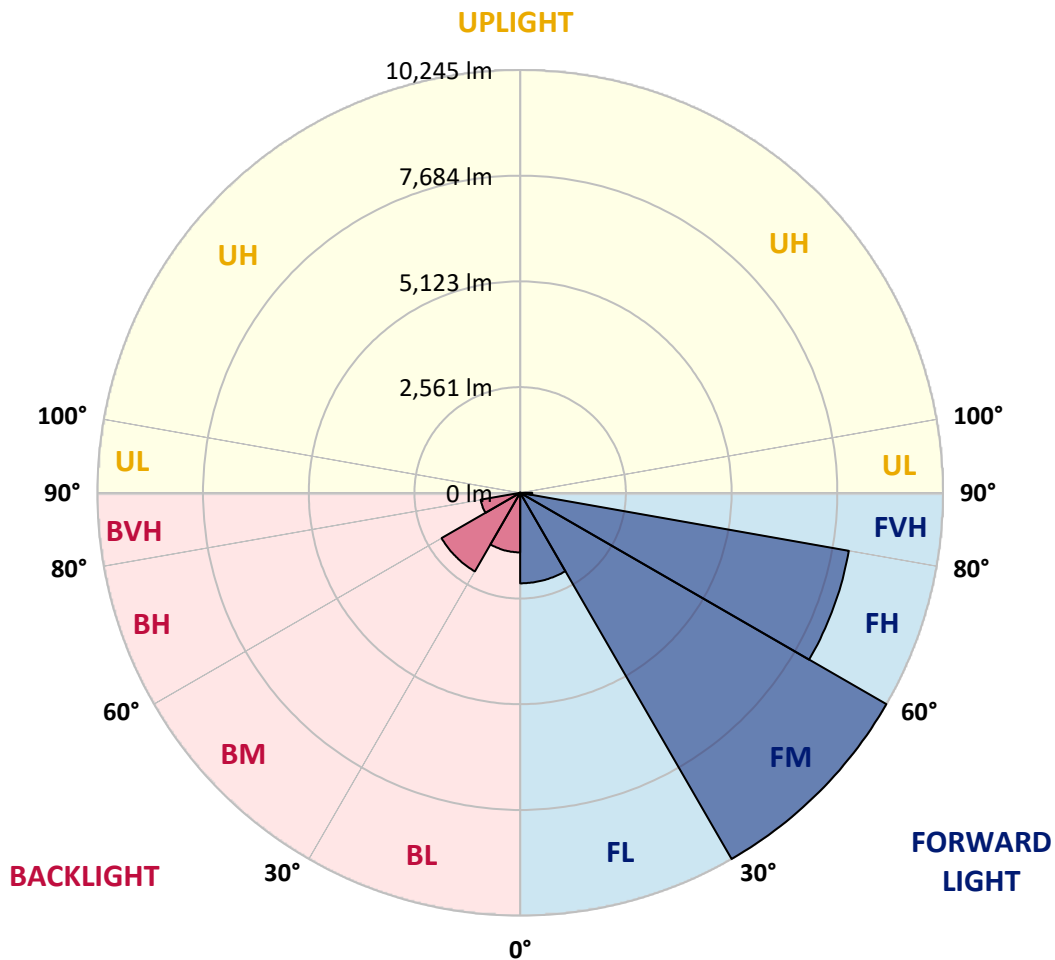
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2193.2	8.6			
FM	(30°-60°)	10245.4	40.2			
FH	(60°-80°)	8086.4	31.8			G4/12000
FVH	(80°-90°)	291.9	1.1			G3/500
BL	(0°-30°)	1443.5	5.7	B3/2500		
BM	(30°-60°)	2196.4	8.6	B2/2500		
BH	(60°-80°)	970.1	3.8	B2/1000		G2/1000
BVH	(80°-90°)	28.1	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°	3829.0	3829.0	3829.0	3829.0	3829.0	3829.0	3829.0	3829.0	3829.0	3829.0	3829.0
2.5°	3794.5	3830.2	3809.3	3806.8	3831.5	3808.1	3824.1	3820.4	3817.9	3821.6	3847.5
5°	3894.3	3936.2	3907.8	3899.2	3912.8	3870.9	3867.2	3858.6	3856.1	3857.3	3894.3
7.5°	4033.4	4082.7	4071.6	4049.5	4042.1	3973.1	3960.8	3930.0	3920.1	3922.6	3959.6
10°	4252.7	4301.9	4279.8	4230.5	4199.7	4120.9	4076.6	4037.1	4017.4	4019.9	4059.3
12.5°	4533.5	4580.3	4543.3	4453.4	4436.2	4309.3	4240.4	4156.6	4143.1	4123.4	4165.2
15°	4798.3	4838.9	4821.7	4737.9	4691.1	4540.9	4414.0	4310.6	4298.2	4279.8	4278.5
17.5°	5091.4	5132.0	5100.0	5038.4	4976.8	4798.3	4661.6	4528.5	4496.5	4480.5	4422.6
20°	5404.2	5468.2	5462.1	5411.6	5337.7	5128.3	4935.0	4784.7	4750.2	4720.7	4598.7
22.5°	5726.9	5810.6	5792.2	5765.1	5734.3	5499.0	5273.7	5100.0	5074.1	5011.3	4819.2
25°	6084.0	6141.9	6128.4	6141.9	6121.0	5912.8	5666.5	5454.7	5420.2	5361.1	5066.7
27.5°	6430.1	6490.5	6513.9	6485.5	6499.1	6350.1	6058.2	5868.5	5835.3	5726.9	5364.8
30°	6742.9	6818.1	6851.3	6863.6	6909.2	6755.3	6539.7	6309.4	6298.3	6187.5	5757.7
32.5°	6993.0	7076.7	7158.0	7210.9	7283.6	7215.9	7001.6	6862.4	6863.6	6763.9	6347.6
35°	7174.0	7270.1	7388.3	7528.7	7681.4	7653.1	7526.2	7528.7	7548.4	7581.7	7100.1
37.5°	7374.7	7452.3	7591.5	7787.3	8020.1	8079.2	8062.0	8257.8	8353.9	8413.0	7761.5
40°	7494.2	7573.0	7746.7	8010.2	8348.9	8490.6	8649.4	8993.0	9118.7	9057.1	8326.8
42.5°	7362.4	7432.6	7734.4	8190.1	8618.6	8940.1	9224.6	9727.1	9818.2	9617.5	8803.4
45°	7191.2	7282.4	7600.1	8239.3	8857.6	9381.0	9823.1	10366.3	10434.0	10149.5	9224.6
47.5°	7050.8	7130.9	7501.6	8186.4	9078.0	9833.0	10349.0	10969.7	10987.0	10636.0	9660.6
50°	6871.0	6968.3	7355.0	8121.1	9211.0	10233.3	10830.6	11532.6	11570.8	11139.7	10030.0
52.5°	6682.6	6777.4	7177.7	8013.9	9307.1	10565.8	11330.6	12131.1	12134.8	11673.0	10424.2
55°	6404.3	6505.2	6948.6	7858.8	9336.7	10786.2	11833.1	12742.0	12780.2	12213.6	10781.3
57.5°	6109.9	6196.1	6672.7	7617.4	9227.1	10994.4	12349.1	13420.6	13525.3	12823.3	11088.0
60°	5719.5	5805.7	6309.4	7300.8	8994.3	11228.4	12940.3	14238.4	14249.5	13317.2	11310.9
62.5°	5299.5	5374.6	5837.7	6804.5	8633.4	11318.3	13447.7	14892.4	14891.1	13756.8	11421.7
65°	4800.7	4831.5	5303.2	6194.9	8073.1	11186.5	13671.8	15323.4	15281.5	14073.3	11384.8
67.5°	4209.6	4242.8	4600.0	5437.5	7260.2	10671.7	13572.1	15531.5	15573.4	14355.4	11224.7
70°	3460.8	3500.2	3811.8	4518.7	6224.4	9850.2	13338.1	15621.5	15657.2	14242.1	10730.8
72.5°	2554.3	2607.3	2798.2	3363.5	4724.4	8276.3	12254.3	14637.4	14657.1	13296.2	9702.4
75°	1586.3	1683.6	1863.4	2235.3	3065.4	5804.5	10474.6	13085.6	12962.5	11860.2	8028.7
77.5°	634.3	650.3	740.2	1046.8	1495.1	3022.3	7592.7	10402.0	10637.2	9489.4	5742.9
80°	369.5	367.0	387.9	487.7	641.7	1033.3	2953.3	5835.3	6504.0	5212.1	2583.9
82.5°	298.0	287.0	287.0	312.8	307.9	434.8	968.0	1704.5	1869.5	1658.9	735.3
85°	156.4	152.7	124.4	153.9	153.9	216.8	371.9	482.8	509.9	444.6	275.9
87.5°	39.4	39.4	39.4	48.0	38.2	45.6	62.8	76.4	78.8	64.0	40.6
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°	3829.0	3829.0	3829.0	3829.0	3829.0	3829.0	3829.0	3829.0	3829.0	3829.0	3829.0
2.5°	3857.3	3868.4	3911.5	3905.4	3912.8	3912.8	3925.1	3938.6	3979.3	3955.9	3946.0
5°	3901.7	3923.8	3978.0	3997.7	4027.3	4031.0	4055.6	4064.2	4108.6	4083.9	4083.9
7.5°	3986.6	4012.5	4063.0	4070.4	4083.9	4060.5	4066.7	4039.6	4069.2	4039.6	4040.8
10°	4082.7	4100.0	4134.4	4085.2	4064.2	4008.8	3996.5	3930.0	3953.4	3915.2	3905.4
12.5°	4175.1	4168.9	4143.1	4055.6	3997.7	3906.6	3868.4	3778.5	3773.6	3723.1	3713.2
15°	4262.5	4219.4	4135.7	4000.2	3901.7	3774.8	3683.7	3585.2	3550.7	3492.8	3487.9
17.5°	4369.7	4295.8	4146.8	3947.2	3785.9	3601.2	3471.8	3361.0	3289.6	3236.6	3235.4
20°	4500.2	4386.9	4151.7	3886.9	3666.4	3430.0	3248.9	3108.5	3006.3	2939.8	2938.6
22.5°	4664.0	4510.1	4197.2	3817.9	3513.7	3223.1	2997.7	2755.1	2614.7	2479.2	2454.6
25°	4856.1	4634.5	4236.7	3782.2	3363.5	3007.5	2672.5	2317.8	2099.9	1991.5	1950.8
27.5°	5125.9	4841.4	4294.5	3714.5	3221.8	2741.5	2253.8	1867.1	1604.8	1512.4	1512.4
30°	5437.5	5102.5	4402.9	3673.8	3024.8	2368.3	1794.4	1379.4	1135.5	996.4	992.7
32.5°	5912.8	5414.1	4501.5	3586.4	2785.9	1961.9	1298.1	889.2	693.4	607.2	602.2
35°	6596.4	6007.7	4660.3	3498.9	2439.8	1460.7	823.9	509.9	395.3	346.1	343.6
37.5°	7254.0	6573.0	5002.7	3325.3	1948.4	917.5	456.9	294.3	241.4	235.2	232.8
40°	7717.1	7060.7	5244.1	3060.5	1384.3	486.5	264.8	213.1	209.4	206.9	205.7
42.5°	8222.1	7422.8	5415.3	2723.0	821.5	282.0	215.5	192.1	186.0	183.5	183.5
45°	8632.2	7771.3	5447.3	2240.3	413.8	232.8	197.1	174.9	167.5	172.4	173.7
47.5°	9010.3	8100.1	5338.9	1684.8	279.6	216.8	184.7	162.6	157.6	170.0	170.0
50°	9333.0	8378.5	5090.1	1257.5	262.3	204.4	172.4	150.3	149.0	160.1	161.3
52.5°	9654.4	8602.6	4698.5	949.6	248.8	190.9	160.1	139.2	135.5	142.9	144.1
55°	9909.4	8682.7	4407.9	706.9	238.9	178.6	149.0	128.1	119.5	118.2	120.7
57.5°	10049.8	8612.5	4123.4	519.7	227.8	167.5	137.9	113.3	99.8	99.8	99.8
60°	10052.2	8527.5	3819.2	411.4	215.5	155.2	125.6	97.3	83.7	81.3	81.3
62.5°	10025.1	8376.0	3377.0	357.2	202.0	145.3	109.6	82.5	72.7	69.0	69.0
65°	9905.7	8090.3	2841.3	305.4	186.0	137.9	93.6	73.9	65.3	60.3	60.3
67.5°	9533.7	7554.6	2187.3	266.0	171.2	121.9	85.0	66.5	57.9	53.0	51.7
70°	8851.4	6688.7	1443.4	226.6	156.4	108.4	77.6	60.3	51.7	46.8	45.6
72.5°	7707.3	5443.6	725.4	192.1	134.2	99.8	70.2	53.0	44.3	39.4	39.4
75°	6039.7	3778.5	395.3	152.7	105.9	87.4	61.6	44.3	38.2	34.5	34.5
77.5°	3703.4	1873.2	269.7	118.2	80.1	71.4	49.3	36.9	33.3	32.0	32.0
80°	1351.1	613.3	181.0	83.7	60.3	55.4	39.4	32.0	30.8	30.8	30.8
82.5°	487.7	311.6	121.9	56.7	38.2	41.9	32.0	27.1	25.9	27.1	28.3
85°	200.7	136.7	44.3	32.0	20.9	22.2	19.7	18.5	19.7	20.9	20.9
87.5°	30.8	27.1	16.0	16.0	12.3	11.1	8.6	9.9	12.3	14.8	14.8
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)