

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: P553619

Luminaire Tested: **VERD-G-CA2-160-740-U-T3**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553619
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/12/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-160-740-U-T3
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1460mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22716 lumens
Efficiency: N/A
Efficacy: 139.7 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

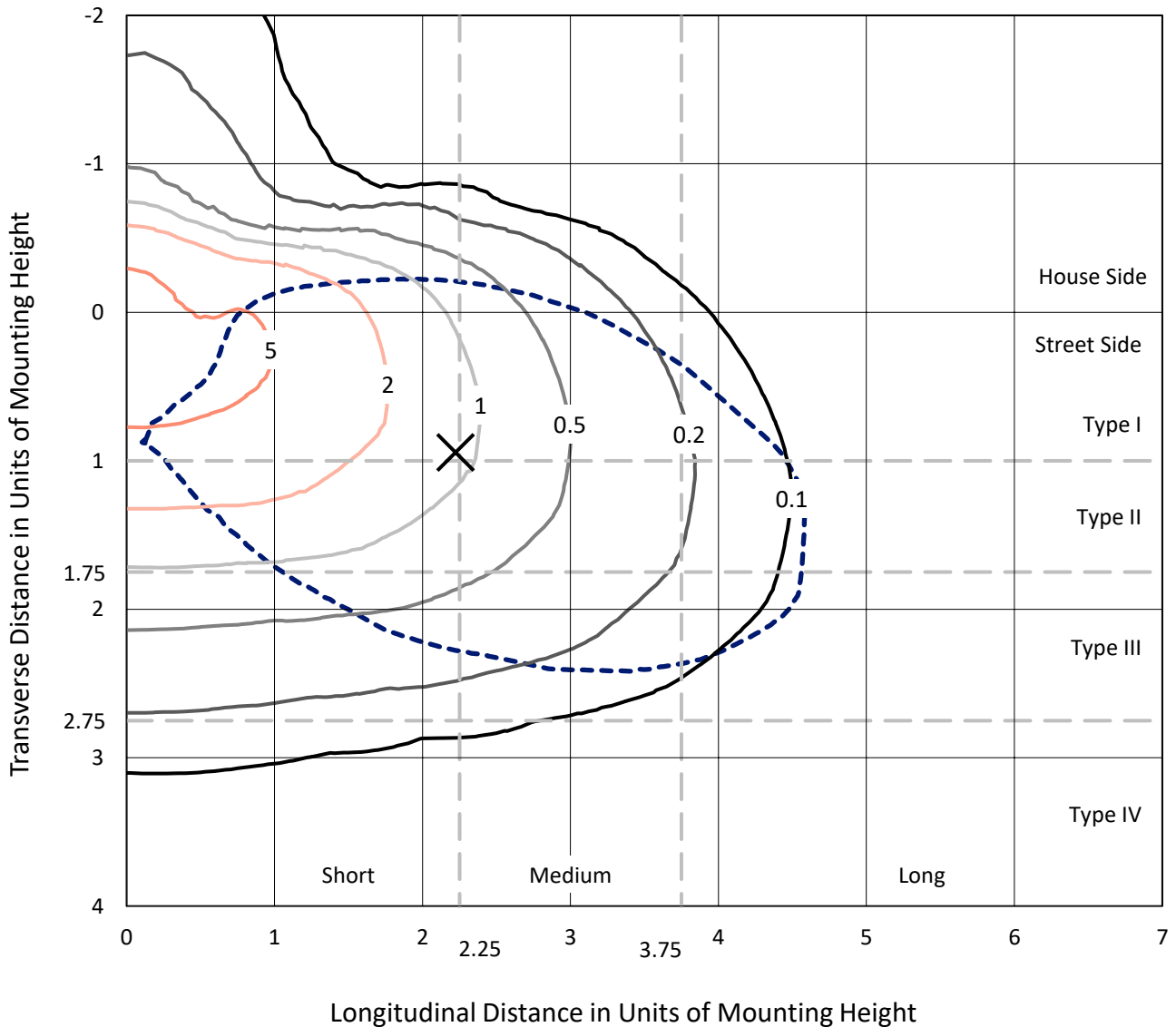
Input Watts (W): 162.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

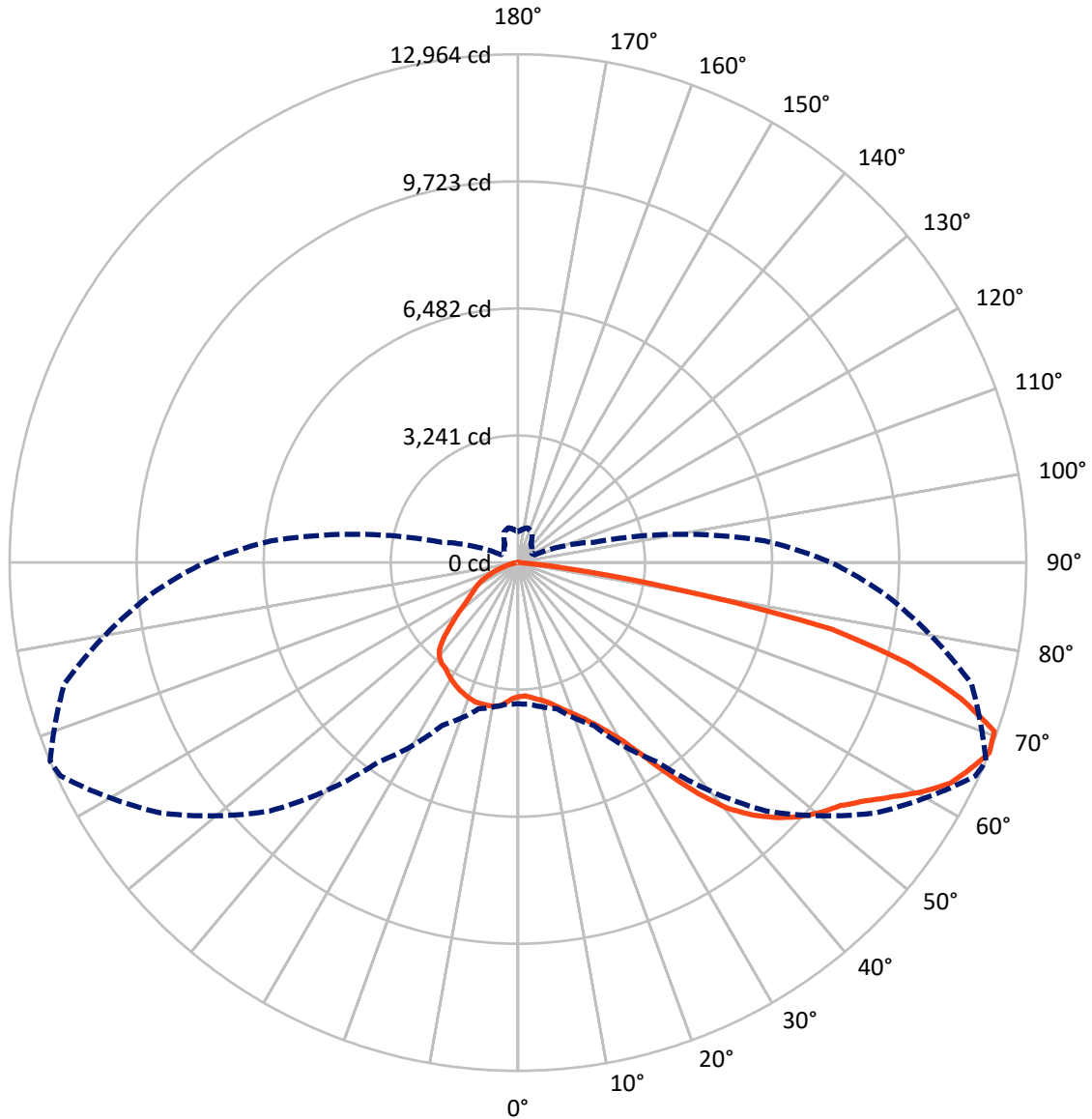
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type III - 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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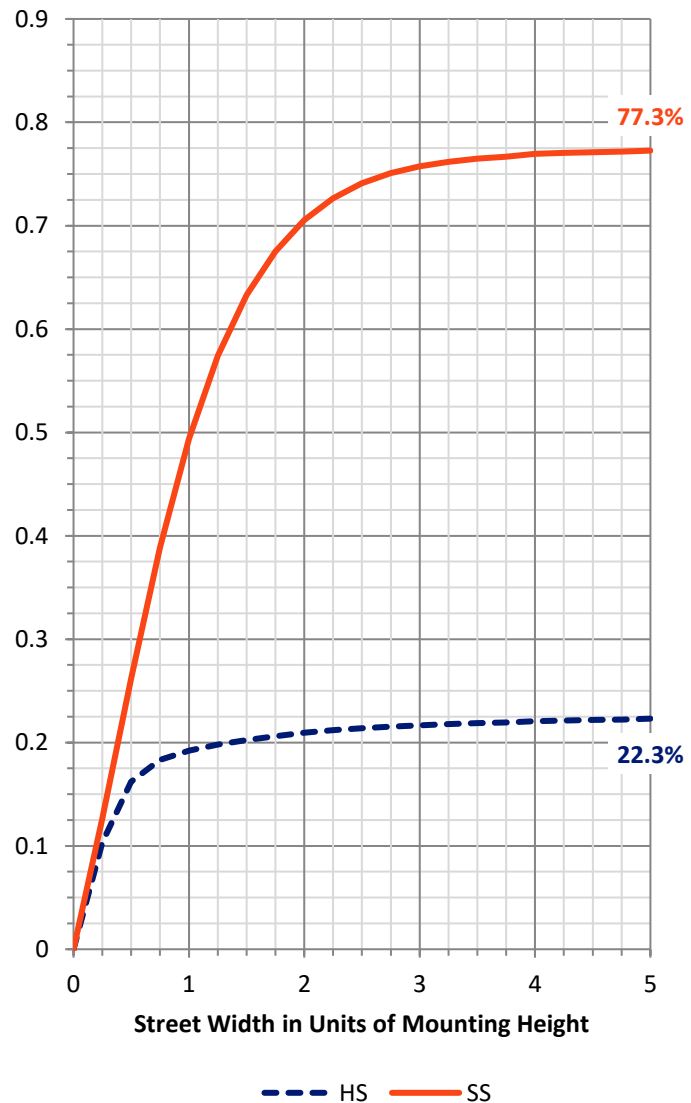
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5154.4	0.0	5154.4
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	17561.7	0.0	17561.7
	% Fixture	77.3	0.0	77.3
Total	Lumens	22716.0	0.0	22716.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.9	1.5
10°-20°	1098.0	4.8
20°-30°	1883.2	8.3
30°-40°	2802.6	12.3
40°-50°	3831.7	16.9
50°-60°	4602.6	20.3
60°-70°	4882.7	21.5
70°-80°	2982.8	13.1
80°-90°	285.6	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°	22716.0	100.0
0°-180°	22716.0	100.0



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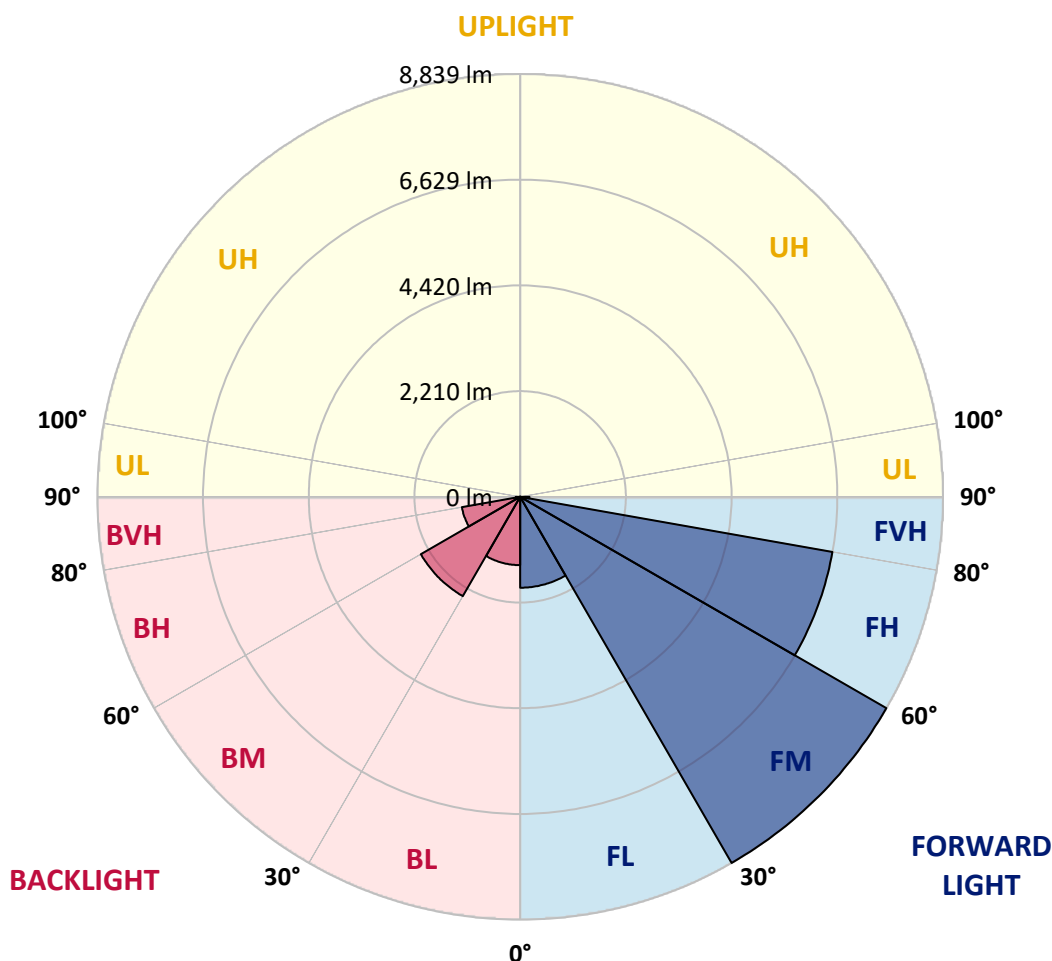
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1900.0	8.4			
FM (30°-60°)	8839.3	38.9			
FH (60°-80°)	6627.9	29.2			G3/7500
FVH (80°-90°)	194.5	0.9			G2/225
BL (0°-30°)	1428.0	6.3	B3/2500		
BM (30°-60°)	2397.6	10.6	B2/2500		
BH (60°-80°)	1237.6	5.4	B3/2500		G3/2500
BVH (80°-90°)	91.1	0.4			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°	3425.0	3425.0	3425.0	3425.0	3425.0	3425.0	3425.0	3425.0	3425.0	3425.0	3425.0
2.5°	3479.1	3495.7	3468.6	3450.5	3431.0	3441.5	3415.9	3415.9	3403.9	3423.4	3411.4
5°	3592.0	3607.0	3560.4	3522.8	3519.8	3488.2	3485.1	3470.1	3452.0	3468.6	3485.1
7.5°	3742.5	3736.4	3703.3	3659.7	3616.1	3598.0	3567.9	3545.3	3518.3	3533.3	3537.8
10°	3926.1	3915.5	3871.9	3802.7	3768.1	3718.4	3643.2	3601.0	3581.5	3596.5	3601.0
12.5°	4121.7	4108.1	4066.0	3989.3	3929.1	3850.8	3765.0	3697.3	3683.8	3668.7	3694.3
15°	4341.4	4317.3	4281.2	4219.5	4126.2	4023.9	3906.5	3841.8	3822.2	3796.6	3784.6
17.5°	4579.1	4576.1	4529.5	4461.8	4367.0	4225.5	4075.0	3974.2	3974.2	3963.7	3899.0
20°	4835.0	4822.9	4776.3	4738.7	4604.7	4455.8	4272.2	4144.3	4130.7	4109.6	4002.8
22.5°	5092.3	5093.8	5033.6	5005.0	4905.7	4714.6	4482.8	4354.9	4327.8	4299.2	4114.2
25°	5325.5	5328.5	5310.5	5257.8	5176.6	5000.5	4758.2	4588.2	4573.1	4534.0	4309.8
27.5°	5561.8	5599.4	5546.7	5552.8	5516.6	5315.0	5072.7	4866.6	4881.6	4795.8	4488.9
30°	5841.7	5855.2	5829.6	5837.2	5814.6	5682.2	5447.4	5280.4	5280.4	5182.6	4792.8
32.5°	6065.9	6053.9	6055.4	6133.6	6144.2	6071.9	5879.3	5825.1	5871.8	5859.7	5509.1
35°	6177.3	6198.3	6257.0	6436.1	6523.4	6479.7	6457.2	6529.4	6646.8	6722.0	6291.6
37.5°	6320.2	6384.9	6458.7	6658.8	6819.8	6940.2	7063.6	7301.4	7469.9	7567.7	7035.0
40°	6467.7	6473.7	6621.2	6869.5	7184.0	7375.1	7668.5	8077.8	8243.4	8169.6	7447.3
42.5°	6353.3	6368.4	6573.0	7015.4	7409.7	7898.8	8216.3	8688.8	8803.2	8578.9	7873.2
45°	6205.8	6234.4	6493.3	7015.4	7658.0	8378.8	8741.5	9268.1	9281.7	8979.2	8130.5
47.5°	6074.9	6099.0	6371.4	6961.3	7891.2	8800.1	9164.3	9593.2	9685.0	9305.8	8472.1
50°	5900.4	5960.6	6228.4	6913.1	7999.6	9093.6	9539.0	9984.4	10016.0	9614.2	8727.9
52.5°	5710.8	5763.4	6093.0	6822.8	8138.0	9335.9	9787.3	10360.6	10301.9	10026.6	9015.3
55°	5454.9	5501.6	5882.3	6678.4	8154.6	9466.8	9966.4	10709.8	10732.3	10369.7	9293.7
57.5°	5161.5	5239.8	5585.9	6410.5	8002.6	9505.9	10274.9	11182.3	11269.5	10794.0	9516.4
60°	4844.0	4905.7	5298.4	6126.1	7800.9	9653.4	10697.7	11794.7	11863.9	11164.2	9606.7
62.5°	4519.0	4570.1	4895.2	5698.7	7430.8	9682.0	11066.4	12410.2	12387.6	11493.8	9731.6
65°	4114.2	4118.7	4425.7	5182.6	6916.1	9477.3	11256.0	12660.0	12682.6	11793.2	9588.7
67.5°	3599.5	3628.1	3861.3	4580.6	6214.9	8962.7	11135.6	12875.2	12964.0	11978.3	9406.6
70°	2866.7	2883.2	3127.0	3796.6	5283.4	8166.6	10906.9	12908.3	12888.7	11739.0	8905.5
72.5°	2039.0	2102.2	2266.2	2669.5	4054.0	6684.4	9873.1	11886.5	11796.2	10815.1	7943.9
75°	1310.7	1316.7	1480.7	1744.1	2373.1	4738.7	8229.8	10246.3	10283.9	9381.0	6467.7
77.5°	433.4	489.1	543.2	735.9	984.1	1972.8	5555.8	8076.3	8190.7	7390.1	4413.6
80°	191.1	191.1	323.5	416.8	531.2	845.7	2216.6	3655.2	4005.8	3446.0	1700.4
82.5°	139.9	143.0	216.7	248.3	209.2	352.1	796.0	1170.7	1241.5	1115.1	675.7
85°	79.8	82.8	93.3	106.8	88.8	143.0	176.1	180.6	182.1	158.0	123.4
87.5°	36.1	36.1	33.1	28.6	16.6	10.5	10.5	7.5	9.0	7.5	6.0
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°	3425.0	3425.0	3425.0	3425.0	3425.0	3425.0	3425.0	3425.0	3425.0	3425.0	3425.0
2.5°	3406.9	3421.9	3455.0	3461.1	3476.1	3498.7	3527.3	3540.8	3586.0	3607.0	3613.1
5°	3488.2	3495.7	3552.9	3572.4	3640.1	3674.8	3704.8	3725.9	3781.6	3795.1	3819.2
7.5°	3549.9	3575.4	3644.7	3688.3	3730.4	3766.5	3763.5	3813.2	3841.8	3864.4	3873.4
10°	3613.1	3626.6	3697.3	3716.9	3748.5	3775.6	3783.1	3796.6	3804.2	3835.8	3846.3
12.5°	3710.9	3701.8	3710.9	3727.4	3753.0	3747.0	3763.5	3744.0	3754.5	3795.1	3780.1
15°	3783.1	3762.0	3722.9	3724.4	3707.9	3700.3	3676.3	3659.7	3658.2	3667.2	3682.3
17.5°	3864.4	3802.7	3730.4	3710.9	3649.2	3589.0	3546.8	3501.7	3494.2	3503.2	3492.7
20°	3935.1	3852.3	3727.4	3665.7	3545.3	3437.0	3375.3	3307.6	3304.6	3298.5	3286.5
22.5°	4020.9	3917.0	3725.9	3601.0	3458.1	3283.5	3155.6	3104.4	3042.7	3066.8	3063.8
25°	4148.8	4019.4	3739.5	3531.8	3300.1	3092.4	2928.4	2815.5	2753.8	2740.3	2746.3
27.5°	4306.8	4135.2	3747.0	3444.5	3155.6	2859.1	2598.8	2428.8	2391.1	2341.5	2346.0
30°	4537.0	4293.2	3783.1	3348.2	2943.4	2561.2	2251.2	2030.0	1966.8	1977.3	1980.3
32.5°	5080.2	4618.3	3808.7	3236.9	2710.2	2231.6	1826.8	1605.6	1556.0	1574.0	1584.6
35°	5793.5	5241.3	3948.6	3093.9	2445.3	1846.4	1401.0	1276.1	1286.6	1321.2	1330.3
37.5°	6500.8	5901.9	4257.1	2969.0	2106.7	1413.0	1118.1	1044.3	1106.0	1139.1	1149.7
40°	6935.7	6341.3	4597.2	2776.4	1676.4	1038.3	851.7	809.6	880.3	957.1	994.7
42.5°	7375.1	6700.9	4818.4	2541.6	1199.3	755.4	633.5	668.1	784.0	860.8	878.8
45°	7655.0	6886.0	4839.5	2168.4	799.1	585.4	577.8	651.6	770.5	832.2	842.7
47.5°	7927.4	7134.3	4750.7	1736.6	601.9	556.8	573.3	659.1	776.5	845.7	844.2
50°	8198.2	7378.1	4558.1	1378.4	568.8	538.7	582.4	674.2	787.0	839.7	839.7
52.5°	8363.7	7498.5	4171.3	1097.0	547.8	528.2	586.9	680.2	776.5	806.6	802.1
55°	8562.4	7527.1	3911.0	913.4	525.2	520.7	595.9	696.7	775.0	778.0	767.5
57.5°	8666.2	7456.3	3698.8	776.5	505.6	523.7	606.4	701.2	818.6	854.7	860.8
60°	8621.1	7370.6	3458.1	690.7	487.6	519.2	603.4	735.9	954.1	1029.3	1015.7
62.5°	8577.4	7209.6	3053.3	620.0	468.0	522.2	600.4	815.6	1121.1	1042.8	1000.7
65°	8419.4	6875.5	2526.6	552.3	443.9	523.7	594.4	901.4	1148.2	1053.4	981.1
67.5°	7986.0	6318.7	1998.4	480.0	415.3	502.6	580.9	847.2	919.4	827.6	788.5
70°	7340.5	5512.1	1370.9	415.3	380.7	477.0	571.8	802.1	863.8	799.1	749.4
72.5°	6299.1	4330.9	759.9	347.6	334.1	445.4	570.3	791.5	869.8	684.7	630.5
75°	4789.8	2872.7	493.6	272.4	273.9	397.3	543.2	755.4	842.7	644.1	570.3
77.5°	2821.5	1209.9	344.6	194.1	213.7	308.5	483.0	723.8	797.6	630.5	570.3
80°	958.6	532.7	224.2	130.9	130.9	197.1	344.6	591.4	710.3	614.0	607.9
82.5°	498.1	338.6	143.0	81.3	75.2	94.8	212.2	406.3	570.3	520.7	592.9
85°	99.3	70.7	45.1	33.1	36.1	48.2	75.2	206.2	361.2	401.8	481.5
87.5°	7.5	6.0	9.0	9.0	9.0	9.0	10.5	51.2	144.5	177.6	219.7
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)