

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: P553529

Luminaire Tested: **VERD-G-CA2-140-750-U-T2**

Issue Date: 7/12/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P553529  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/12/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-G-CA2-140-750-U-T2  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5000K, 1290mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21075 lumens  
Efficiency: N/A  
Efficacy: 148.0 lumens/watt  
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

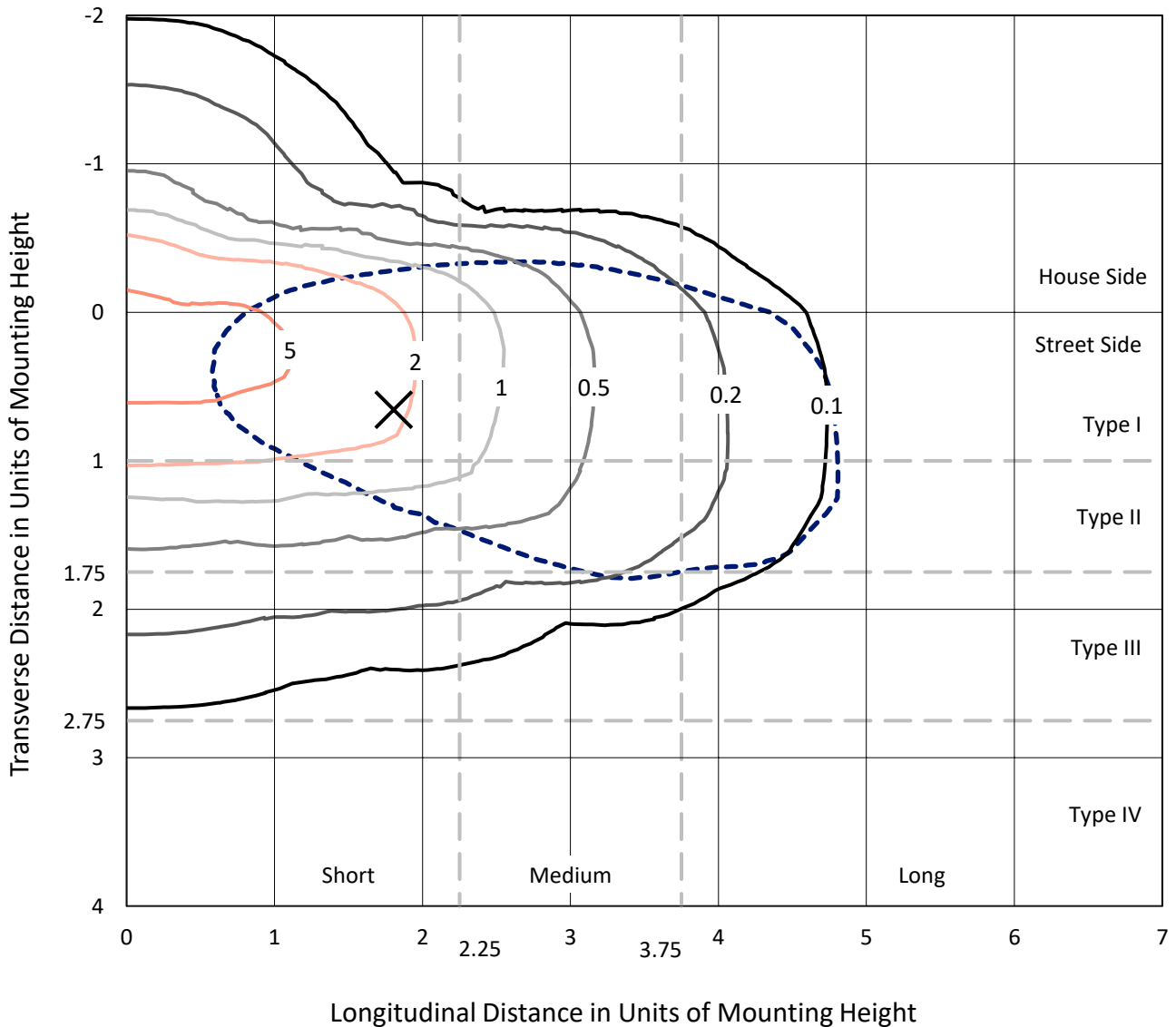
Input Watts (W): 142.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

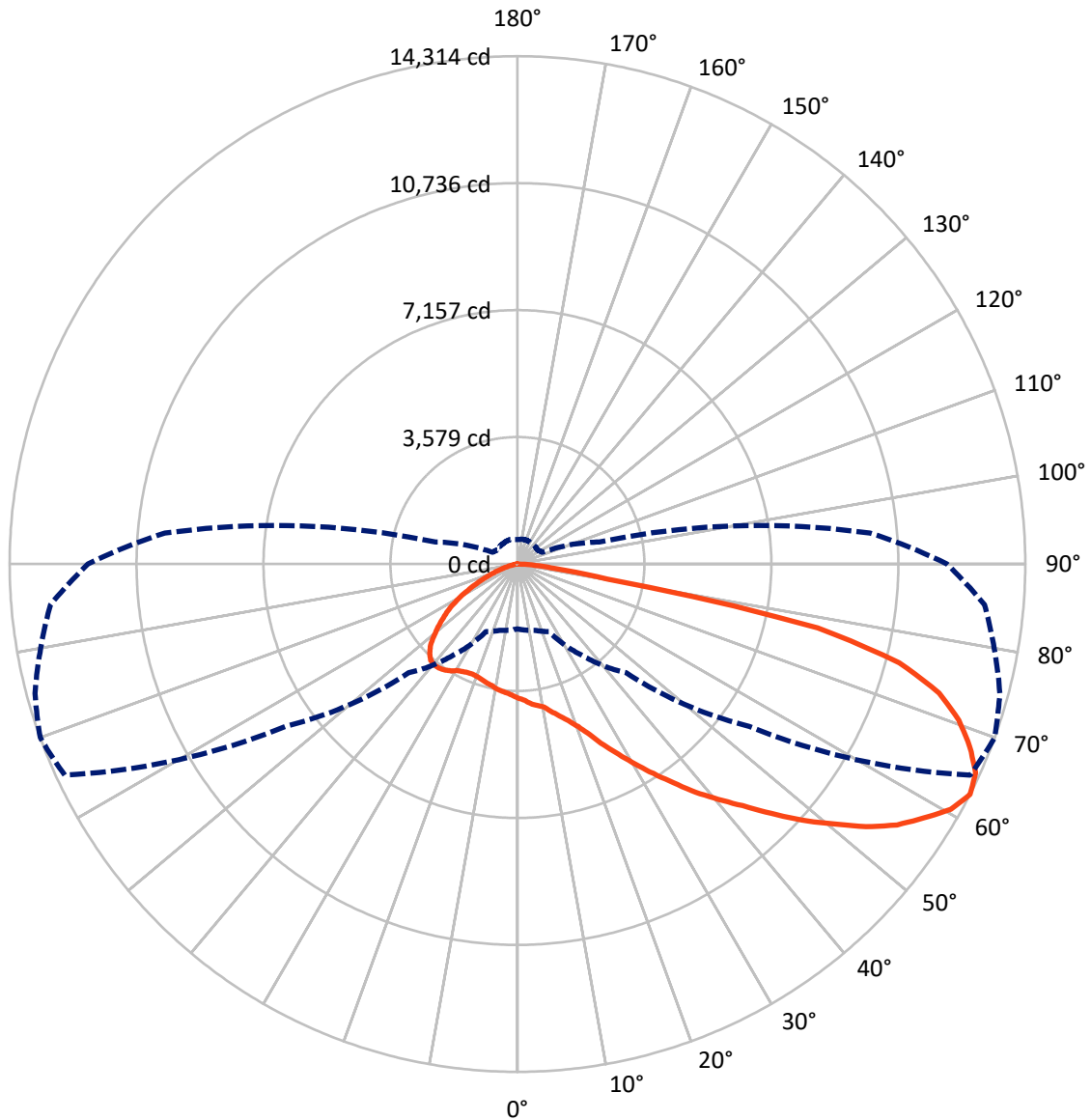
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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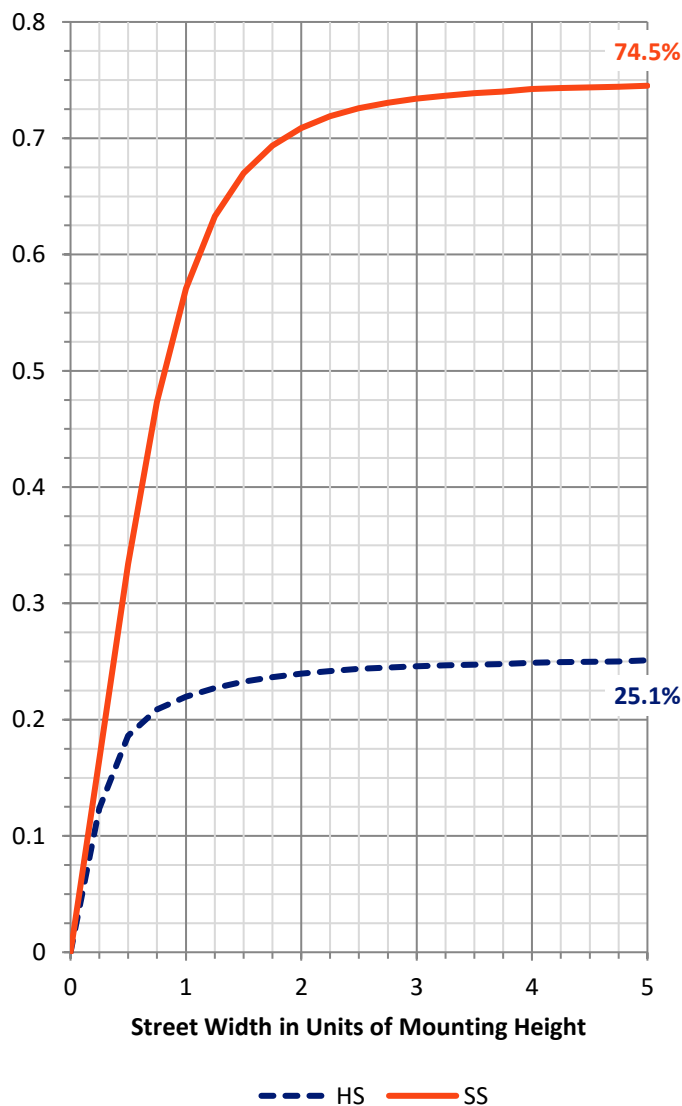
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5385.4	0.0	5385.4
	% Fixture	25.6	0.0	25.6
<b>Street Side</b>	Lumens	15689.6	0.0	15689.6
	% Fixture	74.4	0.0	74.4
<b>Total</b>	Lumens	21075.0	0.0	21075.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	365.2	1.7
10°-20°	1111.1	5.3
20°-30°	1888.6	9.0
30°-40°	2717.7	12.9
40°-50°	3526.7	16.7
50°-60°	4134.2	19.6
60°-70°	4239.6	20.1
70°-80°	2782.0	13.2
80°-90°	309.9	1.5
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°	21075.0	100.0
0°-180°	21075.0	100.0

**Coefficient of Utilization**



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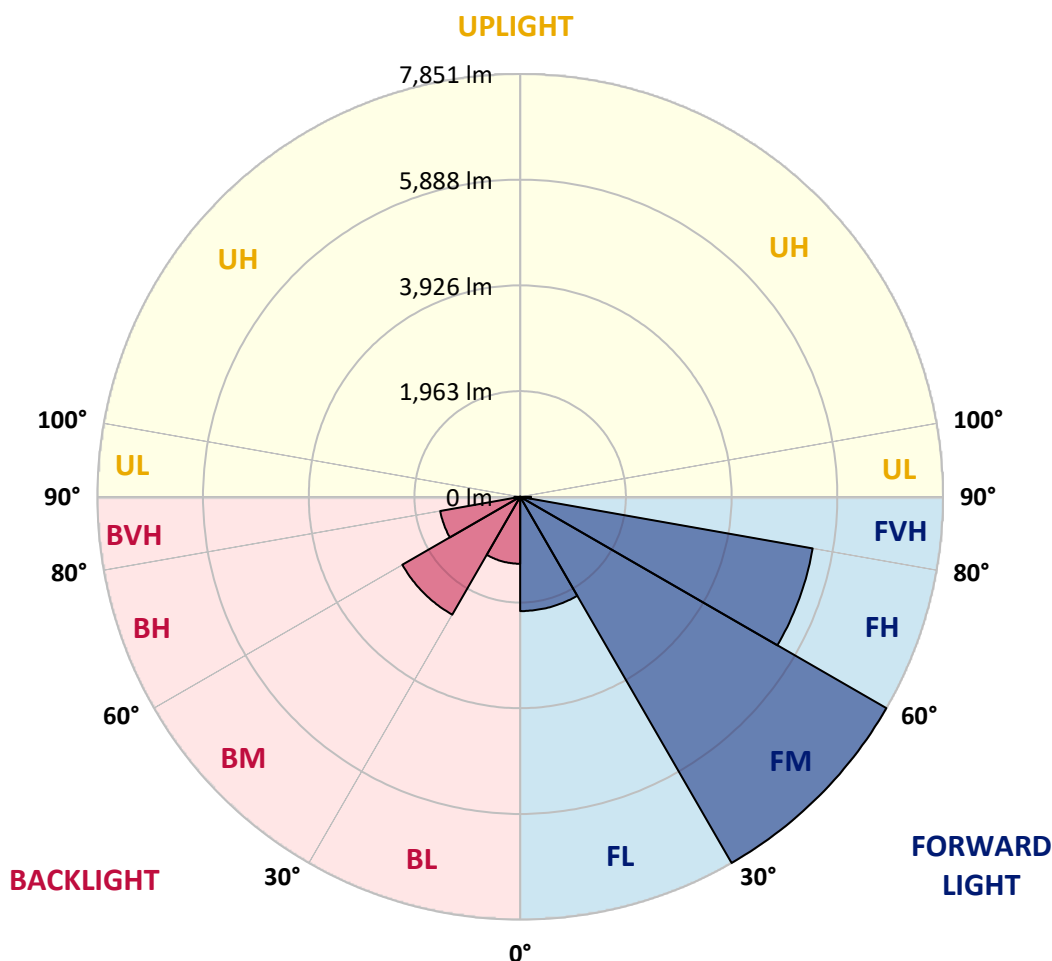
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2121.3	10.1			
FM (30°-60°)	7851.0	37.3			
FH (60°-80°)	5515.2	26.2			G3/7500
FVH (80°-90°)	202.1	1.0			G2/225
BL (0°-30°)	1243.6	5.9	B3/2500		
BM (30°-60°)	2527.5	12.0	B3/5000		
BH (60°-80°)	1506.5	7.1	B3/2500		G3/2500
BVH (80°-90°)	107.8	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3782.4	3782.4	3782.4	3782.4	3782.4	3782.4	3782.4	3782.4	3782.4	3782.4	3782.4
2.5°	4025.6	4040.9	4016.0	3992.5	3969.0	3955.2	3931.7	3865.3	3841.8	3821.1	3779.7
5°	4234.3	4255.1	4219.1	4144.5	4126.5	4068.5	4036.7	3980.0	3956.6	3920.6	3851.5
7.5°	4478.9	4481.7	4430.6	4407.1	4347.6	4268.9	4168.0	4064.3	4029.8	3992.5	3905.4
10°	4621.3	4650.3	4600.5	4527.3	4485.8	4415.4	4309.0	4172.1	4096.1	4029.8	3933.1
12.5°	4821.7	4828.6	4748.4	4707.0	4651.7	4563.2	4459.6	4340.7	4266.1	4143.1	3967.6
15°	4968.1	4972.3	4900.4	4856.2	4803.7	4751.2	4639.2	4514.9	4441.6	4318.6	4051.9
17.5°	5073.2	5091.1	5046.9	5015.1	4959.9	4922.5	4834.1	4736.0	4640.6	4530.1	4227.4
20°	5187.9	5197.6	5116.0	5129.8	5120.2	5103.6	5062.1	4969.5	4892.1	4745.7	4368.4
22.5°	5219.7	5203.1	5225.2	5279.1	5305.3	5324.7	5312.3	5291.5	5221.0	5038.6	4635.1
25°	5172.7	5193.4	5245.9	5363.4	5509.9	5596.9	5659.1	5674.3	5653.6	5479.5	4991.6
27.5°	5160.2	5150.6	5236.2	5436.6	5682.6	5885.8	6008.8	6124.8	6072.3	5963.2	5393.8
30°	5107.7	5103.6	5254.2	5460.1	5776.6	6153.9	6373.6	6569.8	6545.0	6434.4	5865.0
32.5°	4979.2	5006.8	5122.9	5479.5	5920.3	6413.7	6681.8	7003.8	7041.1	6959.6	6341.8
35°	4813.4	4823.0	5008.2	5428.3	6032.3	6641.7	7031.4	7479.2	7566.2	7563.5	6878.0
37.5°	4603.3	4658.6	4856.2	5301.2	6080.6	6850.4	7367.2	7985.0	8159.1	8132.8	7414.2
40°	4393.3	4427.8	4661.4	5139.5	6084.8	6990.0	7651.9	8525.3	8718.8	8722.9	8025.0
42.5°	4078.2	4136.2	4380.8	4926.7	5992.2	7108.8	7935.2	9091.9	9311.6	9343.4	8591.6
45°	3815.6	3834.9	4051.9	4596.4	5791.8	7172.4	8250.3	9672.3	10027.5	10001.2	9083.6
47.5°	3475.6	3551.6	3781.0	4284.1	5478.1	7183.4	8523.9	10346.7	10786.2	10725.4	9753.9
50°	2689.3	2773.6	3398.2	4002.2	5081.5	7057.7	8743.7	11148.3	11506.2	11441.2	10324.6
52.5°	2371.4	2412.9	2665.8	3673.2	4669.6	6757.8	8919.2	11908.3	12299.4	12099.1	10992.1
55°	2236.0	2255.4	2370.1	3004.4	4306.2	6265.8	9020.1	12761.0	12980.8	12683.6	11614.0
57.5°	2089.5	2135.1	2193.2	2531.8	3901.3	5584.5	8957.9	13468.6	13504.5	13208.8	12144.7
60°	1951.3	1970.7	2090.9	2269.2	3435.6	4881.1	8606.8	13909.4	14036.6	13673.1	12783.1
62.5°	1828.3	1862.9	1933.4	2100.6	3124.6	4333.8	7982.2	14079.4	14314.3	14078.0	13214.3
65°	1712.2	1723.3	1803.5	1955.5	2780.5	4064.3	7621.5	13811.3	14192.7	14155.4	13403.6
67.5°	1575.4	1587.9	1658.4	1763.4	2350.7	3764.5	6681.8	13432.7	13753.3	13880.4	13295.8
70°	1397.2	1406.8	1489.8	1551.9	1970.7	3322.2	5610.8	12852.2	13199.1	13081.6	12571.7
72.5°	1192.6	1207.8	1274.2	1351.6	1639.0	2801.2	4394.6	11637.5	12432.1	12354.7	11496.5
75°	963.2	986.7	1040.6	1133.2	1332.2	2225.0	3110.8	9416.7	11113.7	11229.8	9921.1
77.5°	456.0	479.5	527.9	605.3	807.1	1551.9	1702.6	5308.1	8655.2	9373.8	7987.7
80°	149.3	152.0	357.9	409.1	512.7	956.3	695.1	1731.6	2563.5	4335.2	4296.5
82.5°	80.2	87.1	193.5	237.7	257.0	257.0	203.1	764.2	1079.3	1319.8	1528.4
85°	42.8	44.2	67.7	81.5	88.4	70.5	52.5	315.1	505.8	631.6	626.0
87.5°	18.0	19.3	20.7	18.0	15.2	9.7	6.9	5.5	5.5	5.5	5.5
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°	3782.4	3782.4	3782.4	3782.4	3782.4	3782.4	3782.4	3782.4	3782.4	3782.4	3782.4
2.5°	3758.9	3739.6	3729.9	3689.8	3645.6	3598.6	3561.3	3562.7	3591.7	3613.8	3612.4
5°	3801.8	3753.4	3694.0	3600.0	3561.3	3526.8	3485.3	3430.0	3448.0	3470.1	3486.7
7.5°	3825.3	3763.1	3682.9	3543.3	3479.8	3405.1	3366.5	3294.6	3264.2	3286.3	3286.3
10°	3817.0	3753.4	3615.2	3512.9	3388.6	3271.1	3193.7	3175.7	3149.5	3145.3	3144.0
12.5°	3872.3	3778.3	3573.7	3423.1	3309.8	3159.2	3076.2	3059.7	3065.2	3030.6	3036.2
15°	3926.1	3819.7	3537.8	3381.7	3206.1	3029.3	2962.9	2902.1	2929.8	2900.7	2907.6
17.5°	4022.9	3894.4	3518.5	3298.7	3073.5	2920.1	2801.2	2732.1	2729.4	2725.2	2714.2
20°	4133.4	3955.2	3515.7	3226.9	2965.7	2783.3	2613.3	2537.3	2482.0	2501.3	2502.7
22.5°	4333.8	4069.9	3544.7	3160.5	2815.1	2610.5	2436.4	2320.3	2254.0	2265.0	2266.4
25°	4618.5	4310.3	3620.7	3103.9	2689.3	2410.1	2238.8	2092.3	2012.1	2013.5	2035.6
27.5°	5031.7	4597.8	3742.3	3055.5	2555.2	2220.8	1988.6	1844.9	1757.9	1756.5	1771.7
30°	5440.8	4957.1	3916.5	2986.4	2385.3	1966.5	1704.0	1589.3	1535.4	1499.4	1507.7
32.5°	5845.7	5342.7	4143.1	2950.5	2186.3	1666.6	1446.9	1368.1	1300.4	1234.1	1241.0
35°	6304.5	5704.7	4371.1	2878.6	1947.2	1417.9	1264.5	1156.7	1069.6	1035.1	1028.2
37.5°	6843.5	6126.2	4528.7	2817.8	1663.9	1250.7	1064.1	984.0	927.3	890.0	884.5
40°	7318.9	6480.0	4702.8	2675.5	1391.6	1100.0	888.6	845.8	838.8	809.8	805.7
42.5°	7799.8	6913.9	4821.7	2488.9	1205.1	907.9	760.1	785.0	823.6	805.7	805.7
45°	8290.4	7367.2	4845.2	2209.8	1026.8	768.4	728.3	775.3	829.2	833.3	831.9
47.5°	8828.0	7769.4	4890.8	1810.4	899.7	732.4	722.8	761.5	830.6	855.4	849.9
50°	9437.4	8204.7	4763.6	1380.6	823.6	736.6	728.3	746.3	820.9	848.5	838.8
52.5°	10030.3	8623.4	4553.6	1053.1	775.3	740.7	757.3	743.5	797.4	825.0	836.1
55°	10580.3	9085.0	4108.6	937.0	742.1	735.2	780.8	755.9	775.3	783.6	798.8
57.5°	11137.2	9425.0	3635.9	878.9	724.1	728.3	767.0	755.9	768.4	758.7	746.3
60°	11659.6	9782.9	3026.5	825.0	704.8	724.1	739.3	736.6	744.9	726.9	718.6
62.5°	12103.2	9976.4	2389.4	778.0	688.2	704.8	702.0	715.9	717.2	696.5	691.0
65°	12306.4	10059.3	1824.2	735.2	663.3	679.9	666.1	668.9	670.3	642.6	641.2
67.5°	12100.4	9603.2	1250.7	671.6	637.1	657.8	631.6	627.4	617.7	590.1	591.5
70°	11499.3	8841.8	834.7	580.4	580.4	616.4	601.2	591.5	568.0	541.7	550.0
72.5°	10156.0	7548.3	541.7	468.5	509.9	568.0	561.1	547.3	492.0	417.4	420.1
75°	8687.0	5990.8	360.7	341.3	389.7	492.0	467.1	433.9	411.8	435.3	464.3
77.5°	6764.7	3819.7	201.8	196.2	230.8	345.5	389.7	396.6	561.1	666.1	659.2
80°	3511.6	1940.3	117.5	96.7	136.8	232.2	306.8	417.4	696.5	525.1	508.6
82.5°	1380.6	726.9	71.9	51.1	60.8	95.4	203.1	599.8	527.9	265.3	254.3
85°	472.6	164.5	29.0	26.3	29.0	40.1	80.2	537.6	273.6	168.6	160.3
87.5°	5.5	5.5	6.9	8.3	9.7	9.7	22.1	255.7	127.1	78.8	76.0
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)