

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: P553593

Luminaire Tested: **VERD-G-CA2-160-722-U-T2**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553593
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-CA2-160-722-U-T2
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1460mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18703 lumens
Efficiency: N/A
Efficacy: 115.0 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

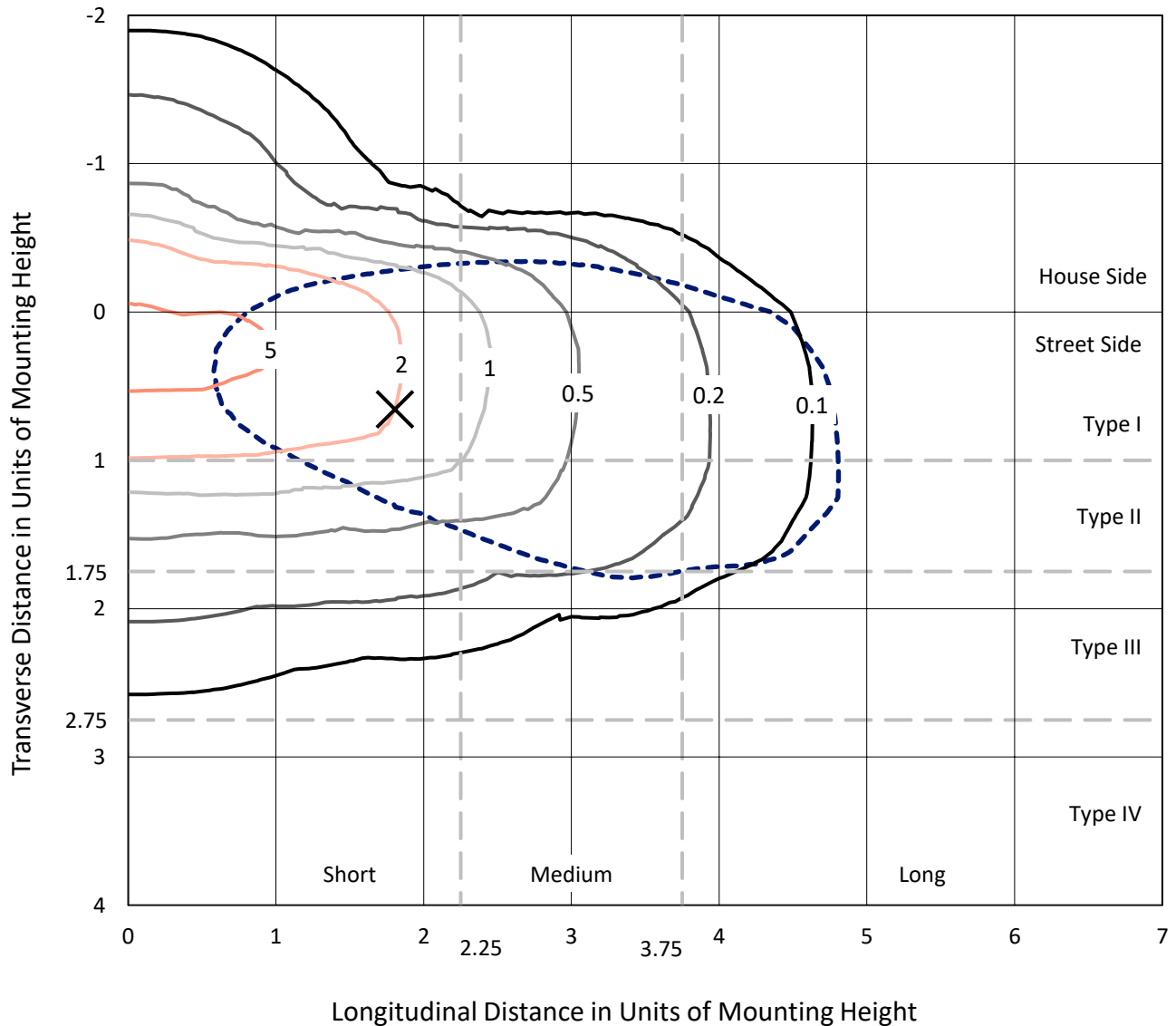
Input Watts (W): 162.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P553593
 CATALOG NUMBER: VERD-G-CA2-160-722-U-T2

Iso-Footcandle Lines of Horizontal Illumination

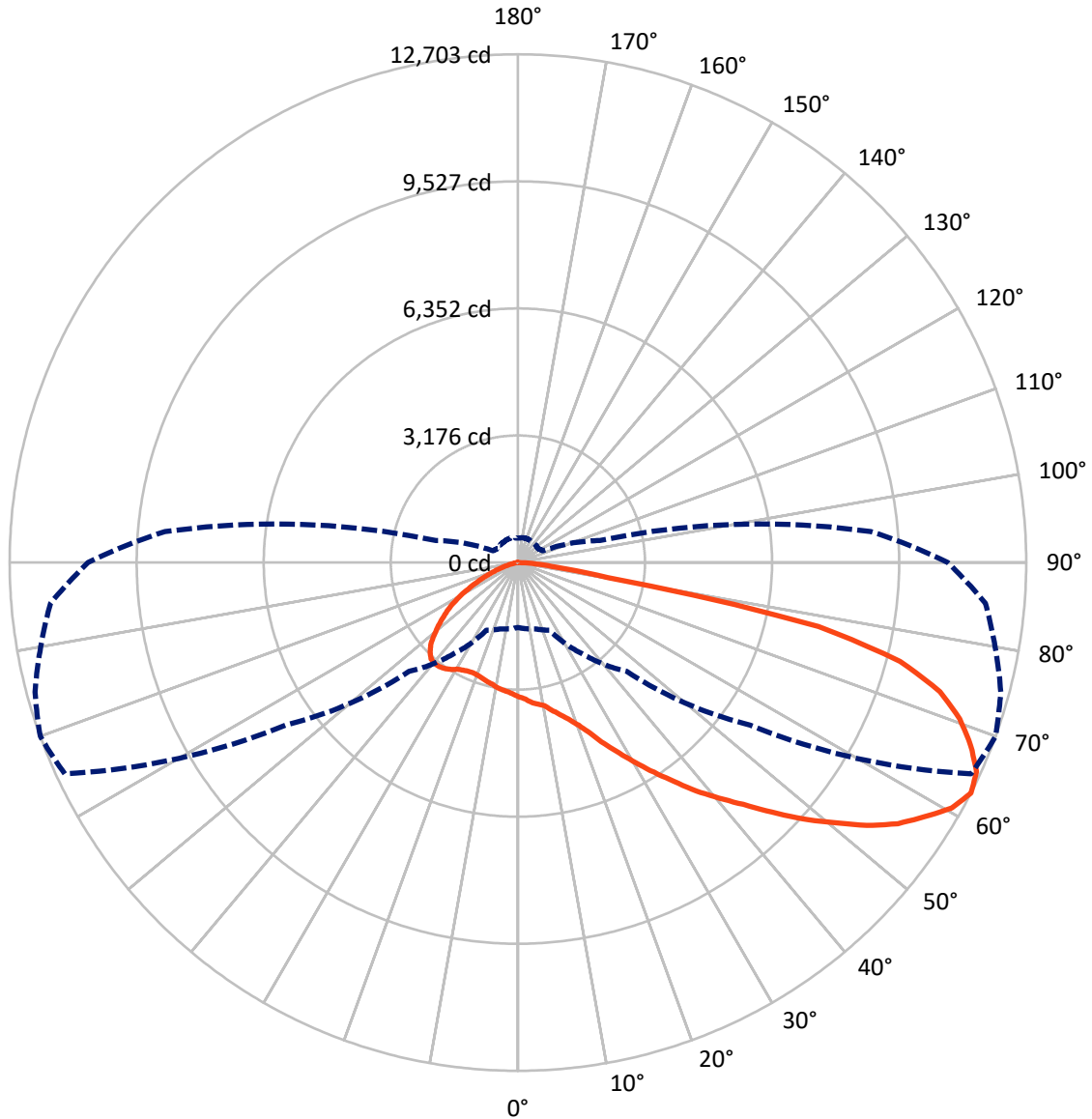
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Short - N/A

REPORT NUMBER: P553593
CATALOG NUMBER: VERD-G-CA2-160-722-U-T2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P553593

CATALOG NUMBER: VERD-G-CA2-160-722-U-T2

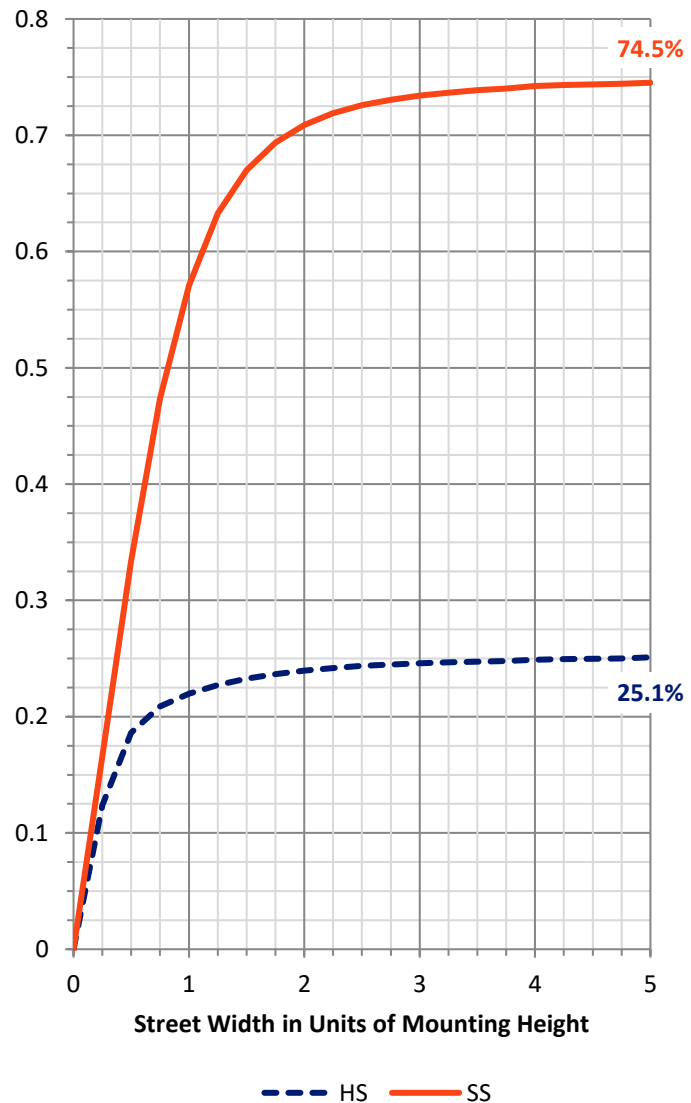
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4779.3	0.0	4779.3
	% Fixture	25.6	0.0	25.6
Street Side	Lumens	13923.7	0.0	13923.7
	% Fixture	74.4	0.0	74.4
Total	Lumens	18703.0	0.0	18703.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.1	1.7
10°-20°	986.0	5.3
20°-30°	1676.0	9.0
30°-40°	2411.8	12.9
40°-50°	3129.8	16.7
50°-60°	3668.9	19.6
60°-70°	3762.5	20.1
70°-80°	2468.9	13.2
80°-90°	275.0	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°	18703.0	100.0
0°-180°	18703.0	100.0



REPORT NUMBER: P553593

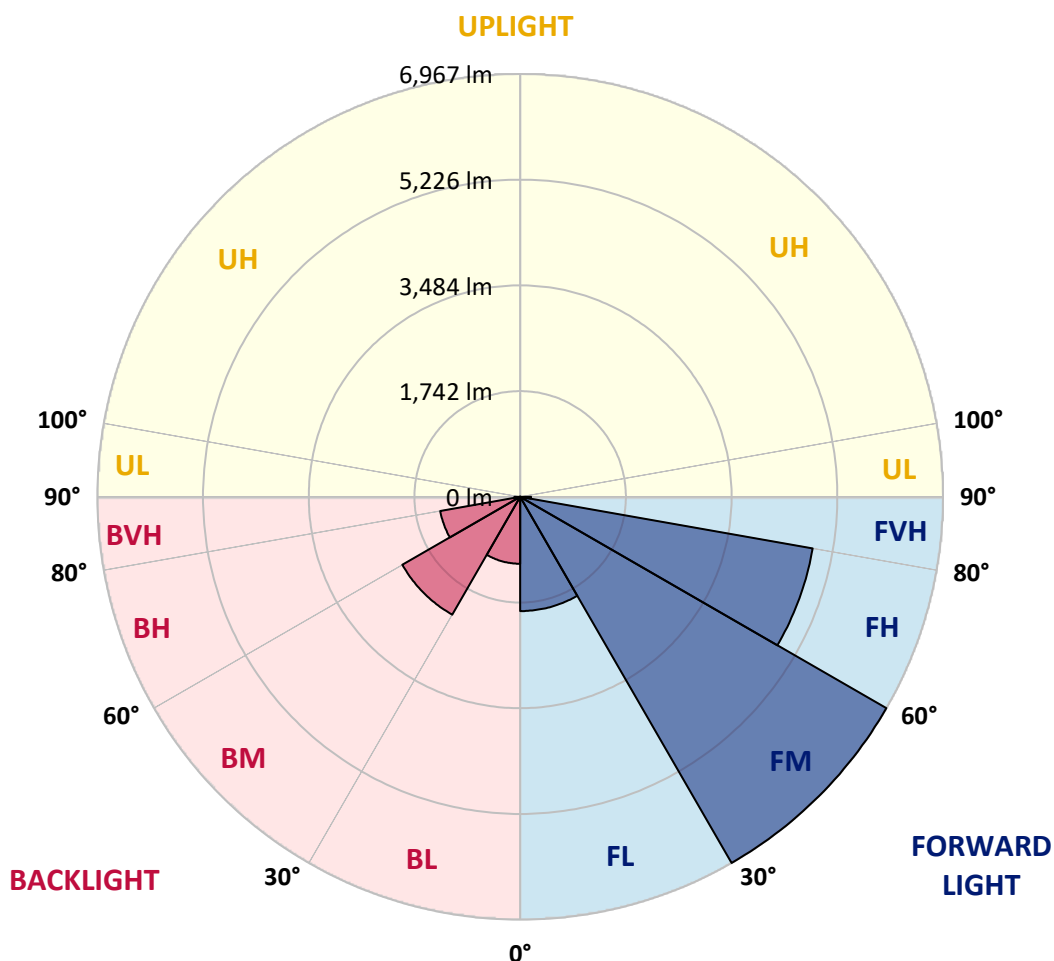
CATALOG NUMBER: VERD-G-CA2-160-722-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1882.6	10.1			
FM (30°-60°)	6967.4	37.3			
FH (60°-80°)	4894.4	26.2			G2/5000
FVH (80°-90°)	179.4	1.0			G2/225
BL (0°-30°)	1103.6	5.9	B3/2500		
BM (30°-60°)	2243.1	12.0	B2/2500		
BH (60°-80°)	1336.9	7.1	B3/2500		G3/2500
BVH (80°-90°)	95.7	0.5			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 II Short





REPORT NUMBER: P553593

CATALOG NUMBER: VERD-G-CA2-160-722-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3356.7	3356.7	3356.7	3356.7	3356.7	3356.7	3356.7	3356.7	3356.7	3356.7	3356.7
2.5°	3572.6	3586.1	3564.0	3543.1	3522.3	3510.0	3489.2	3430.3	3409.4	3391.1	3354.3
5°	3757.8	3776.1	3744.3	3678.0	3662.1	3610.6	3582.4	3532.1	3511.2	3479.4	3418.0
7.5°	3974.8	3977.3	3931.9	3911.1	3858.3	3788.4	3698.9	3606.9	3576.2	3543.1	3465.9
10°	4101.1	4126.9	4082.8	4017.8	3981.0	3918.4	3824.0	3702.6	3635.1	3576.2	3490.4
12.5°	4279.0	4285.1	4214.0	4177.2	4128.1	4049.6	3957.7	3852.2	3786.0	3676.8	3521.1
15°	4409.0	4412.7	4348.9	4309.6	4263.0	4216.4	4117.1	4006.7	3941.7	3832.6	3595.9
17.5°	4502.2	4518.1	4478.9	4450.7	4401.6	4368.5	4290.0	4202.9	4118.3	4020.2	3751.6
20°	4604.0	4612.6	4540.2	4552.5	4543.9	4529.2	4492.4	4410.2	4341.5	4211.5	3876.7
22.5°	4632.2	4617.5	4637.1	4684.9	4708.2	4725.4	4714.4	4696.0	4633.4	4471.5	4113.4
25°	4590.5	4608.9	4655.5	4759.7	4889.7	4967.0	5022.2	5035.7	5017.3	4862.8	4429.8
27.5°	4579.5	4570.9	4646.9	4824.7	5043.0	5223.3	5332.5	5435.5	5388.9	5292.0	4786.7
30°	4532.8	4529.2	4662.8	4845.6	5126.4	5461.2	5656.2	5830.4	5808.3	5710.2	5204.9
32.5°	4418.8	4443.3	4546.3	4862.8	5254.0	5691.8	5929.7	6215.5	6248.6	6176.3	5628.0
35°	4271.6	4280.2	4444.5	4817.4	5353.3	5894.2	6240.0	6637.4	6714.6	6712.2	6103.9
37.5°	4085.2	4134.3	4309.6	4704.5	5396.2	6079.4	6538.0	7086.3	7240.8	7217.5	6579.7
40°	3898.8	3929.4	4136.7	4561.1	5399.9	6203.2	6790.7	7565.8	7737.5	7741.2	7121.8
42.5°	3619.2	3670.7	3887.8	4372.2	5317.8	6308.7	7042.1	8068.6	8263.6	8291.8	7624.7
45°	3386.1	3403.3	3595.9	4079.1	5139.9	6365.1	7321.7	8583.7	8898.9	8875.6	8061.3
47.5°	3084.4	3151.9	3355.5	3801.9	4861.5	6374.9	7564.6	9182.2	9572.2	9518.2	8656.1
50°	2386.6	2461.4	3015.8	3551.7	4509.5	6263.3	7759.6	9893.5	10211.2	10153.5	9162.6
52.5°	2104.5	2141.3	2365.8	3259.8	4144.1	5997.2	7915.3	10568.1	10915.1	10737.3	9754.9
55°	1984.3	2001.5	2103.3	2666.2	3821.5	5560.6	8004.8	11324.8	11519.8	11256.1	10306.8
57.5°	1854.3	1894.8	1946.3	2246.8	3462.2	4956.0	7949.7	11952.7	11984.6	11722.1	10777.8
60°	1731.7	1748.9	1855.6	2013.8	3048.9	4331.7	7638.1	12343.9	12456.7	12134.2	11344.4
62.5°	1622.6	1653.2	1715.8	1864.2	2772.9	3846.1	7083.8	12494.8	12703.3	12493.5	11727.0
65°	1519.5	1529.3	1600.5	1735.4	2467.6	3606.9	6763.7	12256.8	12595.3	12562.2	11895.0
67.5°	1398.1	1409.2	1471.7	1564.9	2086.1	3340.8	5929.7	11920.8	12205.3	12318.2	11799.4
70°	1239.9	1248.5	1322.1	1377.3	1748.9	2948.3	4979.3	11405.7	11713.5	11609.3	11156.7
72.5°	1058.4	1071.9	1130.8	1199.4	1454.5	2486.0	3900.0	10327.7	11032.9	10964.2	10202.6
75°	854.8	875.7	923.5	1005.7	1182.3	1974.5	2760.7	8356.8	9862.9	9965.9	8804.5
77.5°	404.7	425.6	468.5	537.2	716.2	1377.3	1510.9	4710.7	7681.1	8318.8	7088.7
80°	132.5	134.9	317.6	363.0	455.0	848.7	616.9	1536.7	2275.0	3847.3	3812.9
82.5°	71.1	77.3	171.7	210.9	228.1	228.1	180.3	678.2	957.8	1171.2	1356.4
85°	38.0	39.2	60.1	72.4	78.5	62.5	46.6	279.6	448.9	560.5	555.6
87.5°	15.9	17.2	18.4	15.9	13.5	8.6	6.1	4.9	4.9	4.9	4.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P553593

CATALOG NUMBER: VERD-G-CA2-160-722-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3356.7	3356.7	3356.7	3356.7	3356.7	3356.7	3356.7	3356.7	3356.7	3356.7	3356.7
2.5°	3335.9	3318.7	3310.1	3274.5	3235.3	3193.6	3160.5	3161.7	3187.5	3207.1	3205.9
5°	3373.9	3331.0	3278.2	3194.8	3160.5	3129.8	3093.0	3044.0	3059.9	3079.5	3094.3
7.5°	3394.7	3339.5	3268.4	3144.5	3088.1	3021.9	2987.6	2923.8	2896.8	2916.4	2916.4
10°	3387.4	3331.0	3208.3	3117.6	3007.2	2902.9	2834.3	2818.3	2795.0	2791.3	2790.1
12.5°	3436.4	3353.0	3171.5	3037.8	2937.3	2803.6	2730.0	2715.3	2720.2	2689.5	2694.4
15°	3484.3	3389.8	3139.6	3001.0	2845.3	2688.3	2629.4	2575.5	2600.0	2574.3	2580.4
17.5°	3570.1	3456.1	3122.5	2927.5	2727.6	2591.4	2486.0	2424.6	2422.2	2418.5	2408.7
20°	3668.2	3510.0	3120.0	2863.7	2631.9	2470.0	2319.2	2251.7	2202.6	2219.8	2221.0
22.5°	3846.1	3611.8	3145.8	2804.8	2498.2	2316.7	2162.2	2059.2	2000.3	2010.1	2011.3
25°	4098.7	3825.2	3213.2	2754.5	2386.6	2138.9	1986.8	1856.8	1785.7	1786.9	1806.5
27.5°	4465.4	4080.3	3321.1	2711.6	2267.7	1970.9	1764.8	1637.3	1560.0	1558.8	1572.3
30°	4828.4	4399.2	3475.7	2650.3	2116.8	1745.2	1512.2	1410.4	1362.6	1330.7	1338.0
32.5°	5187.8	4741.3	3676.8	2618.4	1940.2	1479.1	1284.1	1214.2	1154.1	1095.2	1101.3
35°	5594.9	5062.7	3879.2	2554.6	1728.0	1258.3	1122.2	1026.5	949.2	918.6	912.5
37.5°	6073.2	5436.7	4019.0	2500.7	1476.6	1109.9	944.3	873.2	822.9	789.8	784.9
40°	6495.1	5750.7	4173.5	2374.3	1235.0	976.2	788.6	750.6	744.4	718.7	715.0
42.5°	6921.9	6135.8	4279.0	2208.8	1069.4	805.8	674.5	696.6	730.9	715.0	715.0
45°	7357.3	6538.0	4299.8	1961.0	911.2	681.9	646.3	688.0	735.9	739.5	738.3
47.5°	7834.4	6894.9	4340.3	1606.6	798.4	650.0	641.4	675.8	737.1	759.2	754.2
50°	8375.2	7281.3	4227.5	1225.2	730.9	653.7	646.3	662.3	728.5	753.0	744.4
52.5°	8901.4	7652.9	4041.1	934.5	688.0	657.4	672.1	659.8	707.6	732.2	742.0
55°	9389.5	8062.5	3646.1	831.5	658.6	652.5	692.9	670.9	688.0	695.4	708.9
57.5°	9883.7	8364.2	3226.7	780.0	642.6	646.3	680.7	670.9	681.9	673.3	662.3
60°	10347.3	8681.8	2685.9	732.2	625.5	642.6	656.1	653.7	661.0	645.1	637.7
62.5°	10741.0	8853.5	2120.5	690.5	610.8	625.5	623.0	635.3	636.5	618.1	613.2
65°	10921.3	8927.1	1618.9	652.5	588.7	603.4	591.1	593.6	594.8	570.3	569.1
67.5°	10738.5	8522.4	1109.9	596.0	565.4	583.8	560.5	556.8	548.2	523.7	524.9
70°	10205.0	7846.6	740.8	515.1	515.1	547.0	533.5	524.9	504.1	480.8	488.1
72.5°	9013.0	6698.7	480.8	415.8	452.5	504.1	497.9	485.7	436.6	370.4	372.8
75°	7709.3	5316.5	320.1	302.9	345.9	436.6	414.5	385.1	365.5	386.3	412.1
77.5°	6003.3	3389.8	179.1	174.2	204.8	306.6	345.9	352.0	497.9	591.1	585.0
80°	3116.3	1721.9	104.2	85.8	121.4	206.0	272.3	370.4	618.1	466.0	451.3
82.5°	1225.2	645.1	63.8	45.4	54.0	84.6	180.3	532.3	468.5	235.5	225.7
85°	419.4	145.9	25.8	23.3	25.8	35.6	71.1	477.1	242.8	149.6	142.3
87.5°	4.9	4.9	6.1	7.4	8.6	8.6	19.6	226.9	112.8	69.9	67.5
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)