

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: P553537

Luminaire Tested: **VERD-G-CA2-140-760-U-T2**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553537
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-CA2-140-760-U-T2
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K, 1290mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20628 lumens
Efficiency: N/A
Efficacy: 144.9 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

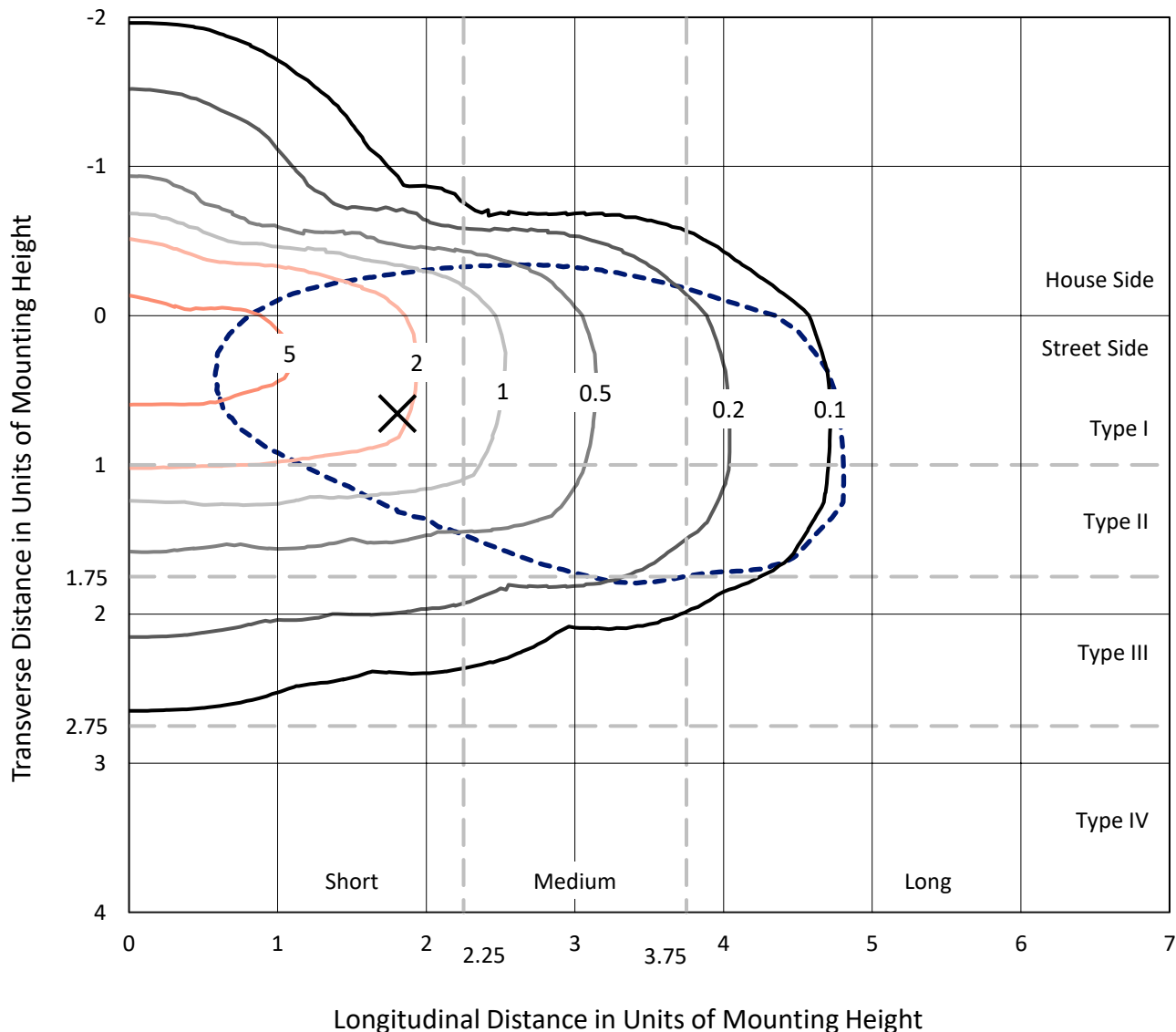
Input Watts (W): 142.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

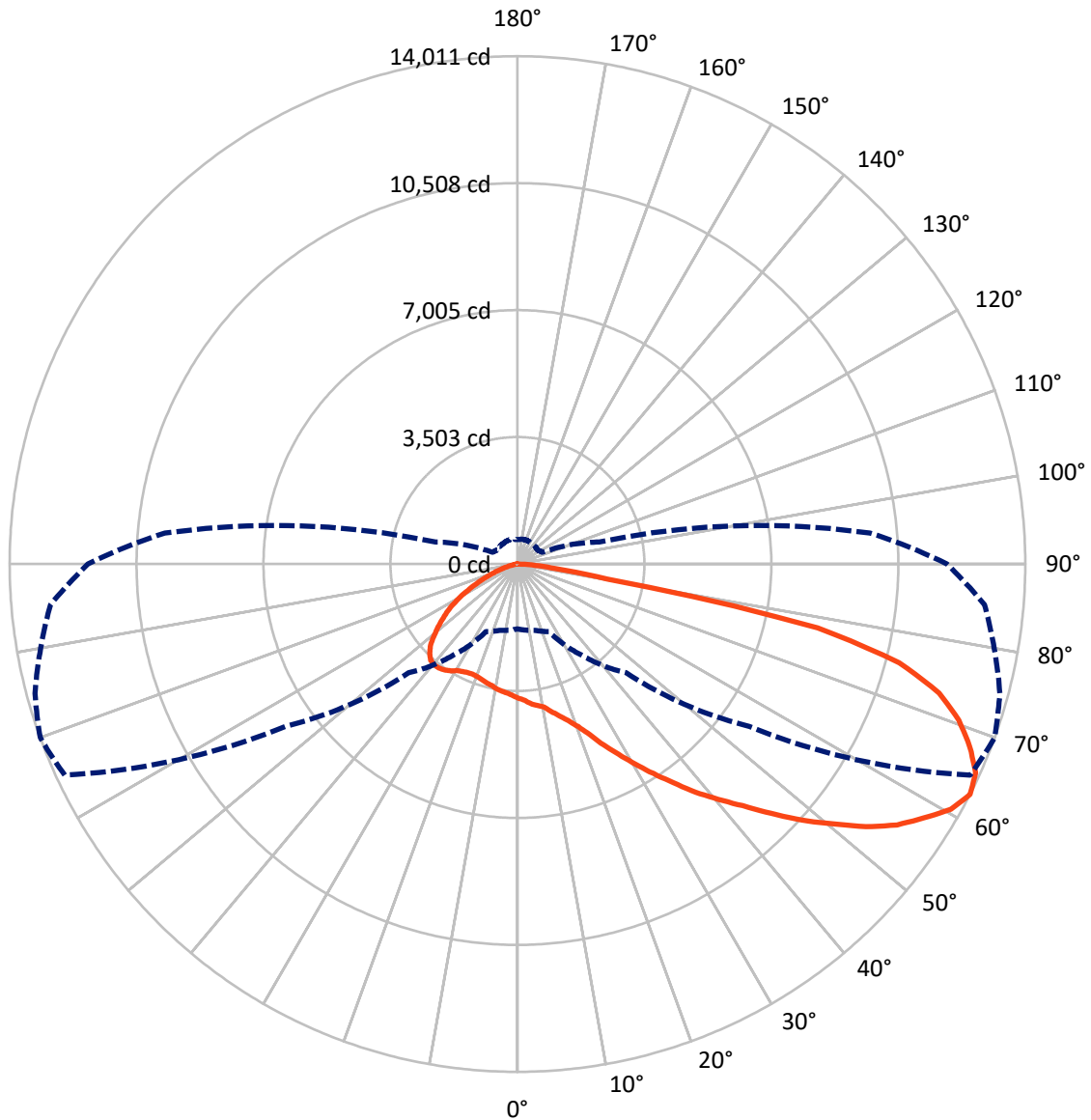
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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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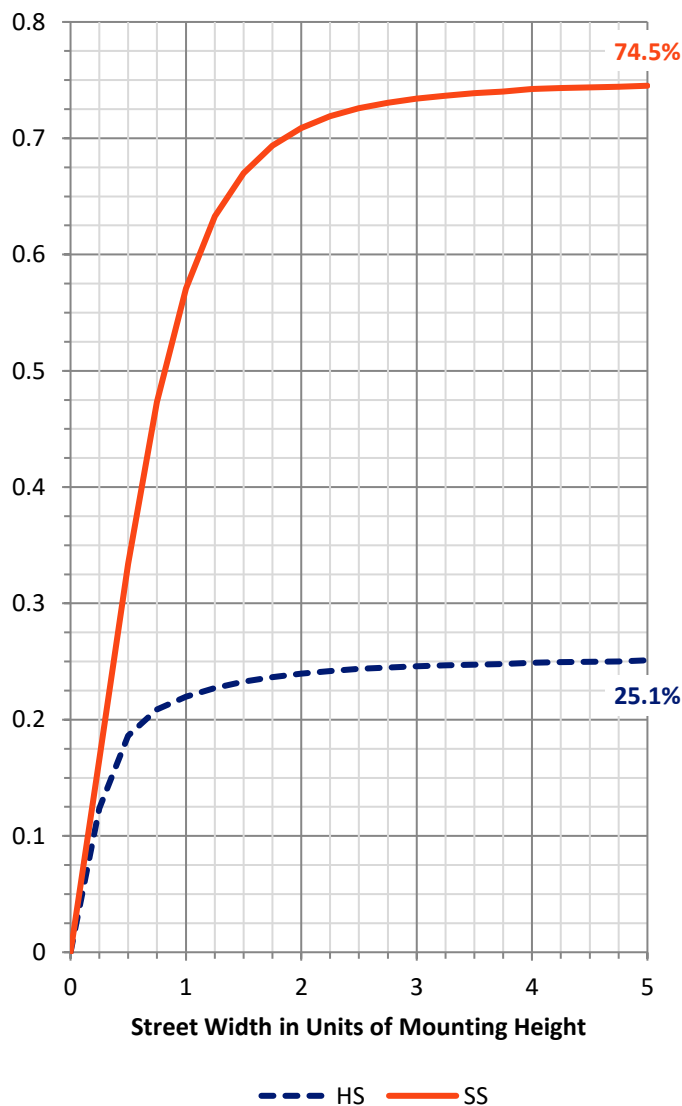
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5271.2	0.0	5271.2
	% Fixture	25.6	0.0	25.6
Street Side	Lumens	15356.8	0.0	15356.8
	% Fixture	74.4	0.0	74.4
Total	Lumens	20628.0	0.0	20628.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.5	1.7
10°-20°	1087.5	5.3
20°-30°	1848.5	9.0
30°-40°	2660.0	12.9
40°-50°	3451.9	16.7
50°-60°	4046.5	19.6
60°-70°	4149.7	20.1
70°-80°	2723.0	13.2
80°-90°	303.3	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°	20628.0	100.0
0°-180°	20628.0	100.0

Coefficient of Utilization



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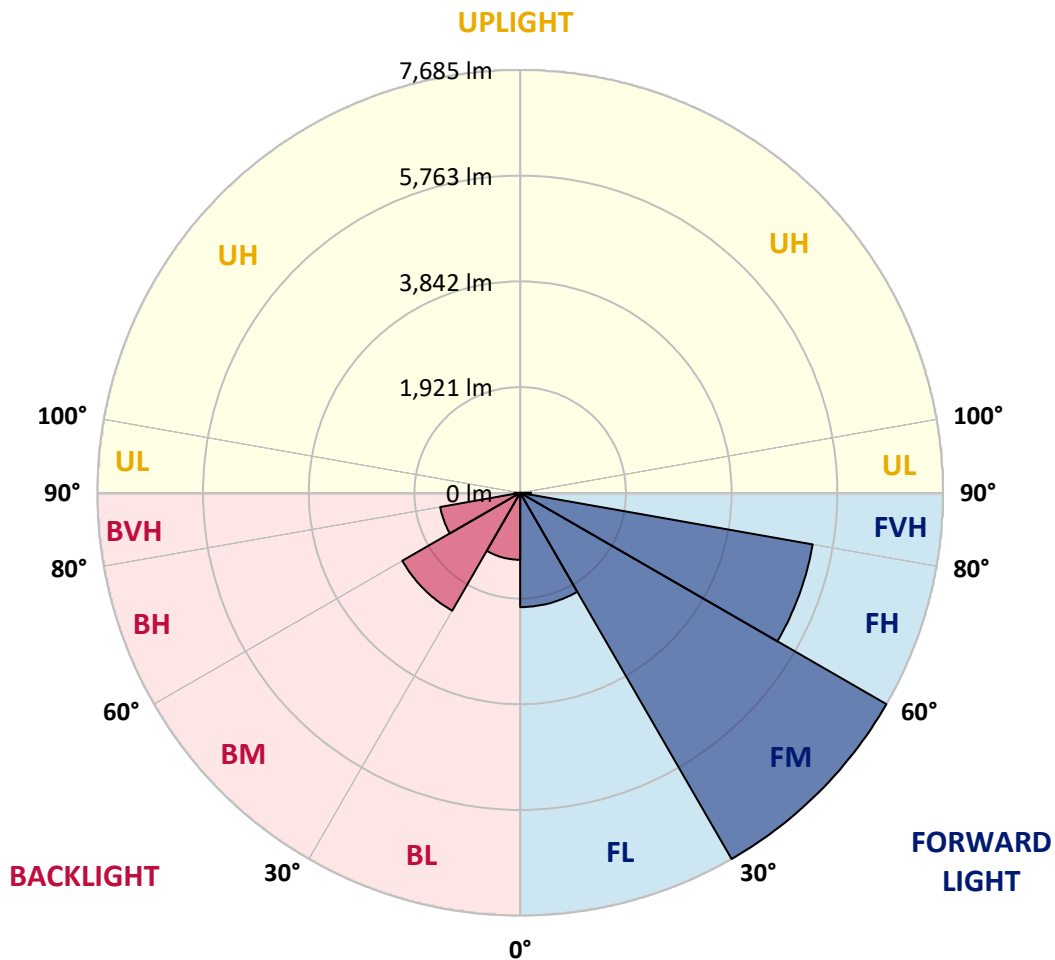
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2076.3	10.1			
FM (30°-60°)	7684.5	37.3			
FH (60°-80°)	5398.2	26.2			G3/7500
FVH (80°-90°)	197.8	1.0			G2/225
BL (0°-30°)	1217.2	5.9	B3/2500		
BM (30°-60°)	2473.9	12.0	B2/2500		
BH (60°-80°)	1474.5	7.1	B3/2500		G3/2500
BVH (80°-90°)	105.5	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°	3702.2	3702.2	3702.2	3702.2	3702.2	3702.2	3702.2	3702.2	3702.2	3702.2	3702.2
2.5°	3940.3	3955.1	3930.8	3907.8	3884.8	3871.3	3848.3	3783.4	3760.4	3740.1	3699.5
5°	4144.5	4164.8	4129.6	4056.6	4039.0	3982.2	3951.1	3895.6	3872.6	3837.5	3769.8
7.5°	4383.9	4386.6	4336.6	4313.6	4255.4	4178.3	4079.6	3978.1	3944.3	3907.8	3822.6
10°	4523.3	4551.7	4503.0	4431.3	4390.7	4321.7	4217.6	4083.6	4009.3	3944.3	3849.6
12.5°	4719.4	4726.2	4647.7	4607.1	4553.0	4466.4	4365.0	4248.7	4175.6	4055.2	3883.5
15°	4862.8	4866.8	4796.5	4753.2	4701.8	4650.4	4540.8	4419.1	4347.4	4227.0	3966.0
17.5°	4965.6	4983.2	4939.9	4908.8	4854.7	4818.1	4731.6	4635.5	4542.2	4434.0	4137.8
20°	5077.8	5087.3	5007.5	5021.0	5011.6	4995.3	4954.8	4864.1	4788.4	4645.0	4275.7
22.5°	5109.0	5092.7	5114.4	5167.1	5192.8	5211.8	5199.6	5179.3	5110.3	4931.8	4536.8
25°	5063.0	5083.3	5134.7	5249.6	5393.0	5478.2	5539.1	5554.0	5533.7	5363.3	4885.8
27.5°	5050.8	5041.3	5125.2	5321.3	5562.1	5760.9	5881.3	5994.9	5943.5	5836.7	5279.4
30°	4999.4	4995.3	5142.8	5344.3	5654.1	6023.3	6238.4	6430.5	6406.1	6297.9	5740.6
32.5°	4873.6	4900.6	5014.3	5363.3	5794.7	6277.6	6540.1	6855.2	6891.7	6811.9	6207.3
35°	4711.3	4720.7	4902.0	5313.2	5904.3	6500.8	6882.3	7320.5	7405.8	7403.0	6732.1
37.5°	4505.7	4559.8	4753.2	5188.8	5951.7	6705.1	7211.0	7815.6	7986.0	7960.3	7257.0
40°	4300.1	4333.9	4562.5	5030.5	5955.7	6841.7	7489.6	8344.5	8533.9	8537.9	7854.8
42.5°	3991.7	4048.5	4287.9	4822.2	5865.1	6958.0	7766.9	8899.1	9114.1	9145.3	8409.4
45°	3734.7	3753.6	3966.0	4498.9	5669.0	7020.2	8075.3	9467.2	9814.8	9789.1	8891.0
47.5°	3401.9	3476.3	3700.8	4193.2	5361.9	7031.1	8343.1	10127.3	10557.4	10497.9	9547.0
50°	2632.3	2714.8	3326.2	3917.3	4973.7	6908.0	8558.2	10911.8	11262.2	11198.6	10105.6
52.5°	2321.1	2361.7	2609.3	3595.3	4570.6	6614.5	8730.0	11655.8	12038.6	11842.4	10759.0
55°	2188.6	2207.5	2319.8	2940.7	4214.9	6132.9	8828.7	12490.4	12705.4	12414.6	11367.7
57.5°	2045.2	2089.8	2146.7	2478.1	3818.5	5466.1	8767.9	13182.9	13218.1	12928.6	11887.1
60°	1909.9	1928.9	2046.6	2221.0	3362.7	4777.6	8424.3	13614.4	13738.9	13383.1	12512.0
62.5°	1789.6	1823.4	1892.4	2056.0	3058.3	4241.9	7812.9	13780.8	14010.7	13779.4	12934.0
65°	1675.9	1686.8	1765.2	1914.0	2721.5	3978.1	7459.9	13518.4	13891.7	13855.2	13119.3
67.5°	1542.0	1554.2	1623.2	1726.0	2300.9	3684.6	6540.1	13147.7	13461.6	13586.0	13013.8
70°	1367.5	1377.0	1458.2	1519.0	1928.9	3251.8	5491.8	12579.6	12919.1	12804.2	12305.0
72.5°	1167.3	1182.2	1247.1	1322.9	1604.2	2741.8	4301.4	11390.7	12168.4	12092.7	11252.7
75°	942.8	965.8	1018.5	1109.2	1304.0	2177.8	3044.8	9216.9	10878.0	10991.6	9710.7
77.5°	446.4	469.4	516.7	592.5	789.9	1519.0	1666.5	5195.5	8471.6	9175.0	7818.3
80°	146.1	148.8	350.3	400.4	501.8	936.0	680.4	1694.9	2509.2	4243.3	4205.4
82.5°	78.5	85.2	189.4	232.7	251.6	251.6	198.8	748.0	1056.4	1291.8	1496.0
85°	41.9	43.3	66.3	79.8	86.6	69.0	51.4	308.4	495.1	618.2	612.7
87.5°	17.6	18.9	20.3	17.6	14.9	9.5	6.8	5.4	5.4	5.4	5.4
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°	3702.2	3702.2	3702.2	3702.2	3702.2	3702.2	3702.2	3702.2	3702.2	3702.2	3702.2
2.5°	3679.2	3660.3	3650.8	3611.6	3568.3	3522.3	3485.8	3487.1	3515.5	3537.2	3535.8
5°	3721.1	3673.8	3615.6	3523.6	3485.8	3452.0	3411.4	3357.3	3374.9	3396.5	3412.7
7.5°	3744.1	3683.3	3604.8	3468.2	3406.0	3332.9	3295.1	3224.7	3195.0	3216.6	3216.6
10°	3736.0	3673.8	3538.5	3438.4	3316.7	3201.7	3126.0	3108.4	3082.7	3078.6	3077.3
12.5°	3790.1	3698.1	3497.9	3350.5	3239.6	3092.2	3011.0	2994.8	3000.2	2966.4	2971.8
15°	3842.9	3738.7	3462.8	3309.9	3138.1	2965.0	2900.1	2840.6	2867.6	2839.2	2846.0
17.5°	3937.6	3811.8	3443.8	3228.8	3008.3	2858.1	2741.8	2674.2	2671.5	2667.4	2656.6
20°	4045.8	3871.3	3441.1	3158.4	2902.8	2724.2	2557.9	2483.5	2429.4	2448.3	2449.6
22.5°	4241.9	3983.6	3469.5	3093.5	2755.3	2555.2	2384.7	2271.1	2206.2	2217.0	2218.3
25°	4520.6	4218.9	3543.9	3038.0	2632.3	2359.0	2191.3	2047.9	1969.5	1970.8	1992.5
27.5°	4925.0	4500.3	3663.0	2990.7	2501.0	2173.7	1946.5	1805.8	1720.6	1719.2	1734.1
30°	5325.4	4852.0	3833.4	2923.1	2334.7	1924.8	1667.8	1555.5	1502.8	1467.6	1475.7
32.5°	5721.7	5229.3	4055.2	2887.9	2139.9	1631.3	1416.2	1339.1	1272.8	1207.9	1214.7
35°	6170.8	5583.7	4278.4	2817.6	1905.9	1387.8	1237.7	1132.2	1047.0	1013.1	1006.4
37.5°	6698.3	5996.3	4432.6	2758.1	1628.6	1224.1	1041.5	963.1	907.6	871.1	865.7
40°	7163.6	6342.6	4603.1	2618.7	1362.1	1076.7	869.8	827.8	821.1	792.7	788.6
42.5°	7634.3	6767.3	4719.4	2436.1	1179.5	888.7	744.0	768.3	806.2	788.6	788.6
45°	8114.5	7211.0	4742.4	2162.9	1005.0	752.1	712.8	758.8	811.6	815.6	814.3
47.5°	8640.7	7604.6	4787.0	1772.0	880.6	716.9	707.4	745.3	812.9	837.3	831.9
50°	9237.2	8030.7	4662.6	1351.3	806.2	721.0	712.8	730.4	803.5	830.5	821.1
52.5°	9817.5	8440.5	4457.0	1030.7	758.8	725.0	741.3	727.7	780.5	807.5	818.4
55°	10355.9	8892.3	4021.4	917.1	726.4	719.6	764.2	739.9	758.8	767.0	781.8
57.5°	10901.0	9225.1	3558.8	860.3	708.8	712.8	750.7	739.9	752.1	742.6	730.4
60°	11412.3	9575.4	2962.3	807.5	689.9	708.8	723.7	721.0	729.1	711.5	703.4
62.5°	11846.5	9764.8	2338.7	761.5	673.6	689.9	687.1	700.7	702.0	681.7	676.3
65°	12045.3	9845.9	1785.5	719.6	649.3	665.5	652.0	654.7	656.0	629.0	627.6
67.5°	11843.8	9399.6	1224.1	657.4	623.6	643.9	618.2	614.1	604.6	577.6	578.9
70°	11255.4	8654.2	817.0	568.1	568.1	603.3	588.4	578.9	555.9	530.2	538.4
72.5°	9940.6	7388.2	530.2	458.5	499.1	555.9	549.2	535.6	481.5	408.5	411.2
75°	8502.7	5863.7	353.0	334.1	381.4	481.5	457.2	424.7	403.1	426.1	454.5
77.5°	6621.2	3738.7	197.5	192.1	225.9	338.2	381.4	388.2	549.2	652.0	645.2
80°	3437.1	1899.1	115.0	94.7	133.9	227.2	300.3	408.5	681.7	514.0	497.8
82.5°	1351.3	711.5	70.3	50.0	59.5	93.3	198.8	587.0	516.7	259.7	248.9
85°	462.6	161.0	28.4	25.7	28.4	39.2	78.5	526.2	267.8	165.0	156.9
87.5°	5.4	5.4	6.8	8.1	9.5	9.5	21.6	250.2	124.4	77.1	74.4
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)