

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: P553521

Luminaire Tested: **VERD-G-CA2-140-740-U-T2**

Issue Date: 7/12/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P553521  
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-CA2-140-740-U-T2  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 1290mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20695 lumens  
Efficiency: N/A  
Efficacy: 145.3 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

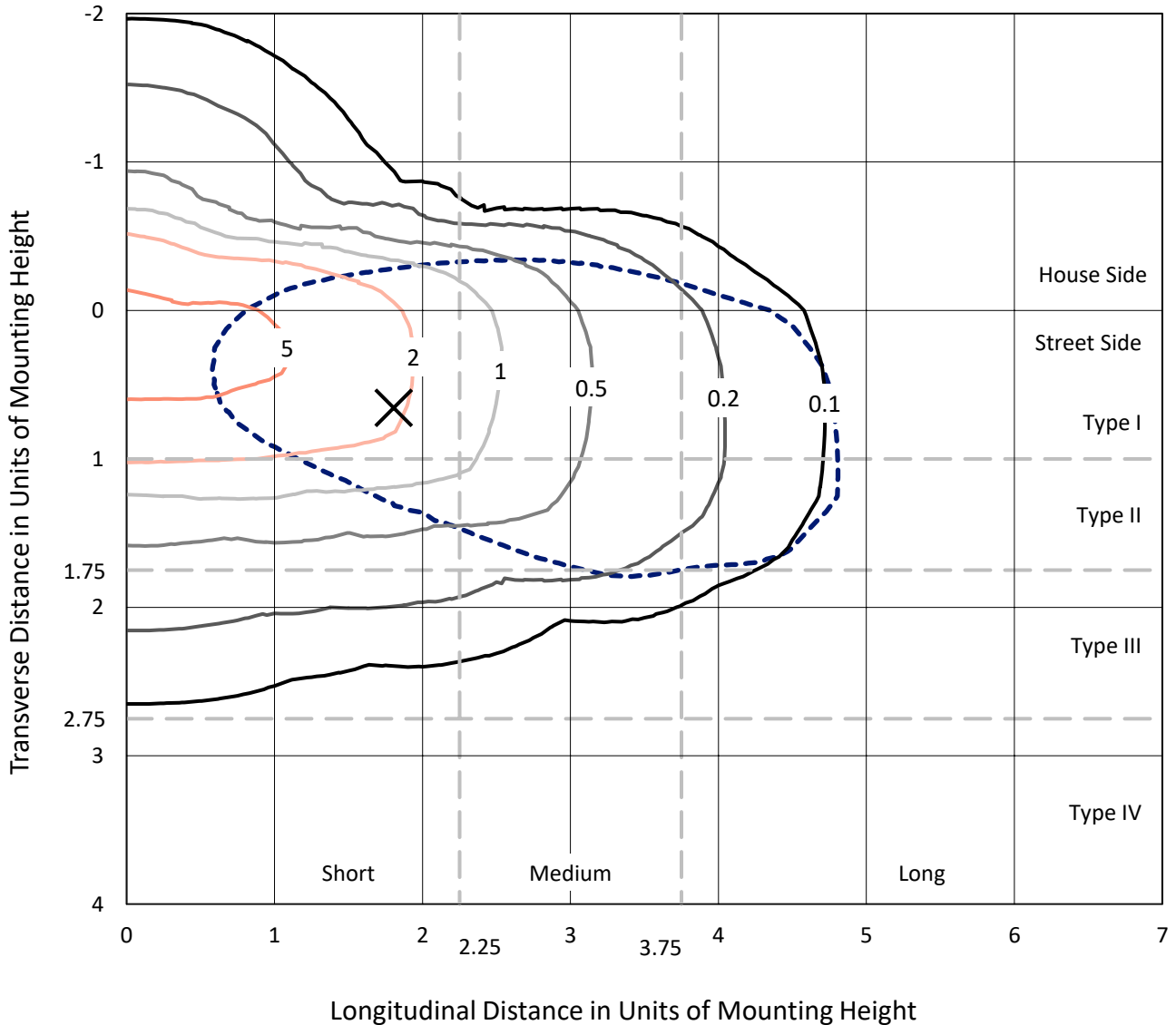
Input Watts (W): 142.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

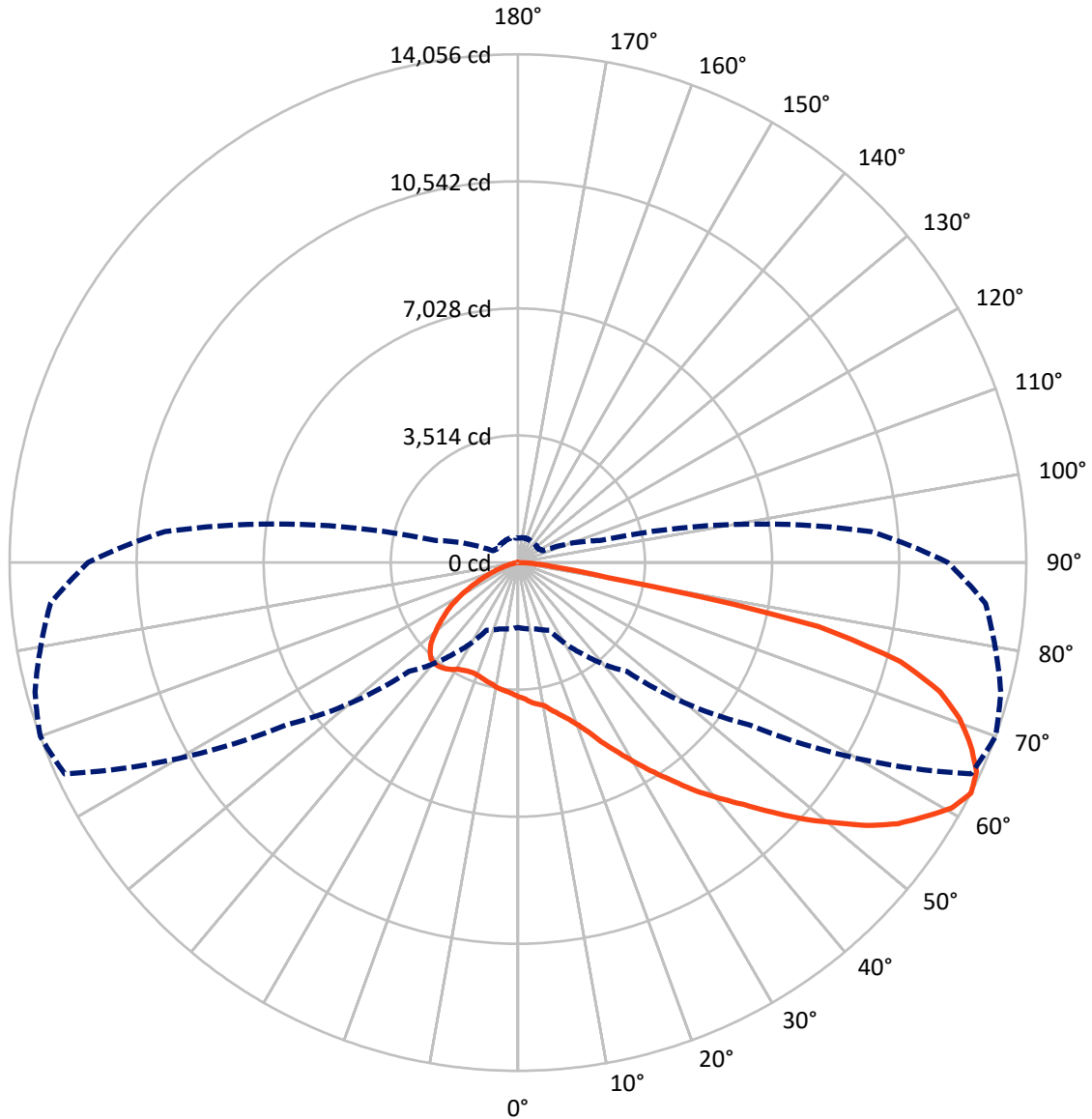
× Max cd  
 - - - 1/2 Max cd



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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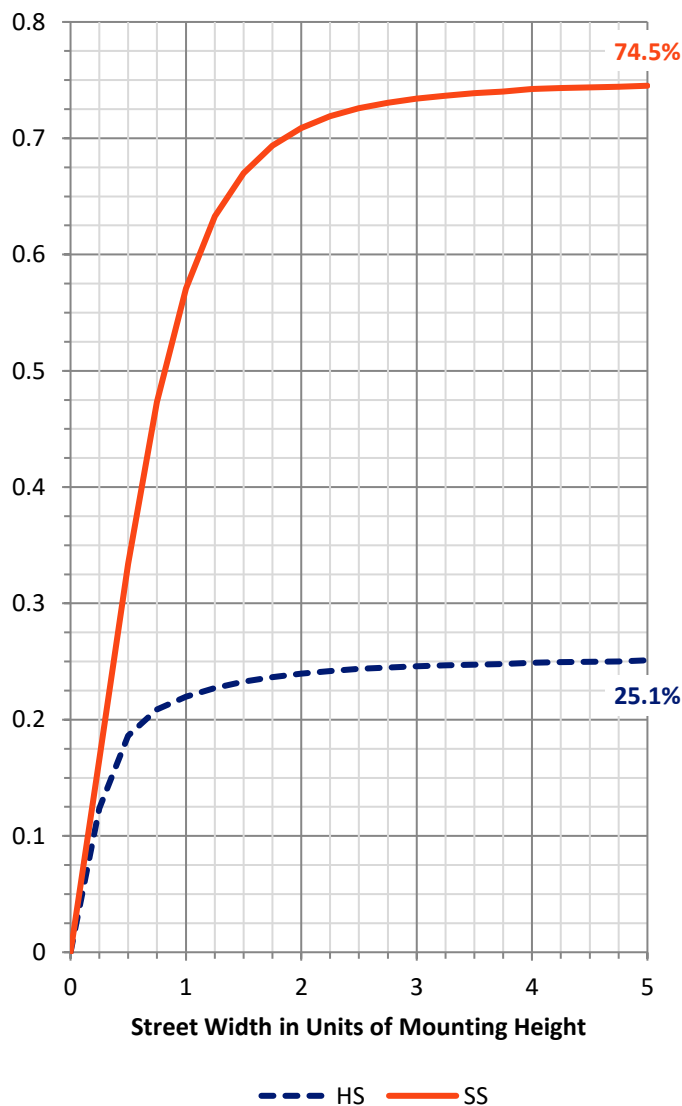
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5288.3	0.0	5288.3
	% Fixture	25.6	0.0	25.6
<b>Street Side</b>	Lumens	15406.7	0.0	15406.7
	% Fixture	74.4	0.0	74.4
<b>Total</b>	Lumens	20695.0	0.0	20695.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	358.7	1.7
10°-20°	1091.0	5.3
20°-30°	1854.5	9.0
30°-40°	2668.7	12.9
40°-50°	3463.1	16.7
50°-60°	4059.6	19.6
60°-70°	4163.2	20.1
70°-80°	2731.8	13.2
80°-90°	304.3	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°	20695.0	100.0
0°-180°	20695.0	100.0

**Coefficient of Utilization**



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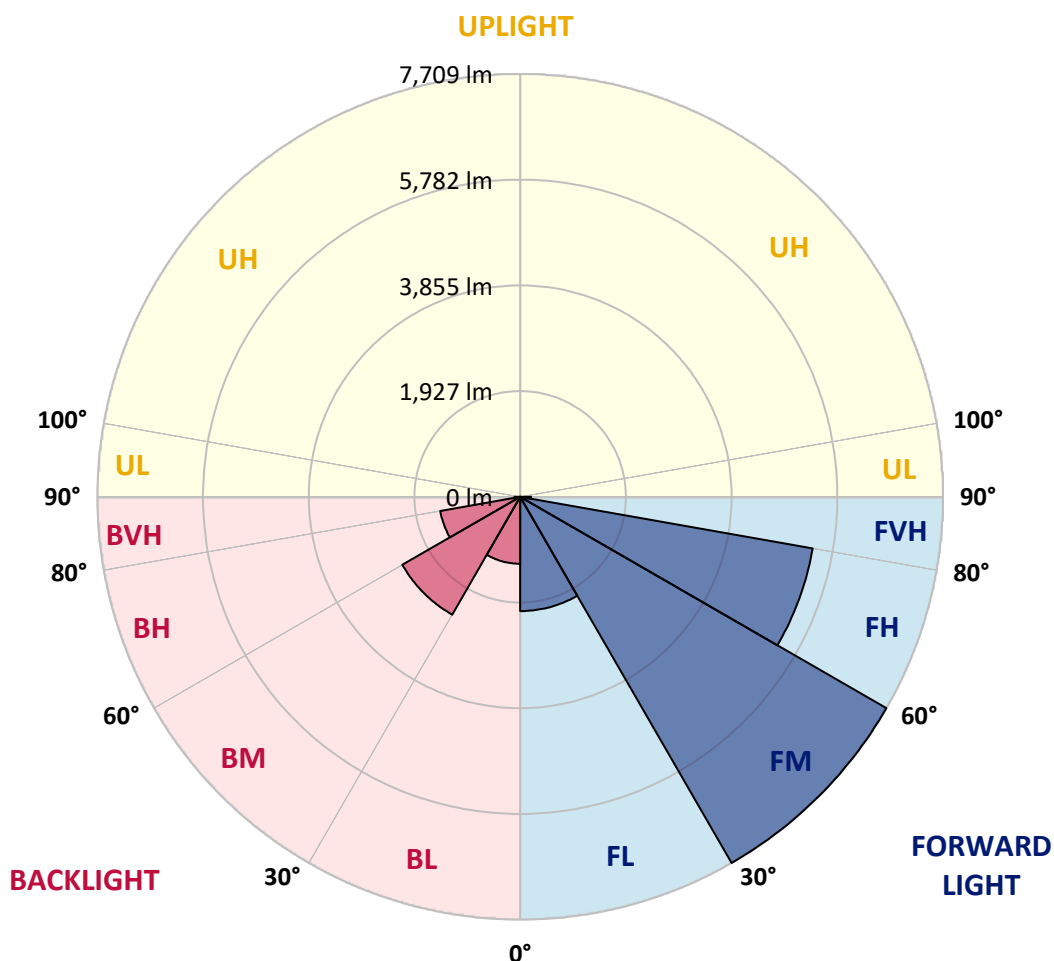
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2083.1	10.1			
FM (30°-60°)	7709.5	37.3			
FH (60°-80°)	5415.7	26.2			G3/7500
FVH (80°-90°)	198.5	1.0			G2/225
BL (0°-30°)	1221.1	5.9	B3/2500		
BM (30°-60°)	2482.0	12.0	B2/2500		
BH (60°-80°)	1479.3	7.1	B3/2500		G3/2500
BVH (80°-90°)	105.9	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°	3714.2	3714.2	3714.2	3714.2	3714.2	3714.2	3714.2	3714.2	3714.2	3714.2	3714.2
2.5°	3953.1	3968.0	3943.6	3920.5	3897.4	3883.9	3860.8	3795.6	3772.6	3752.2	3711.5
5°	4158.0	4178.3	4143.0	4069.8	4052.1	3995.1	3963.9	3908.3	3885.2	3849.9	3782.1
7.5°	4398.2	4400.9	4350.7	4327.6	4269.3	4191.9	4092.8	3991.1	3957.1	3920.5	3835.0
10°	4537.9	4566.4	4517.6	4445.7	4405.0	4335.7	4231.3	4096.9	4022.3	3957.1	3862.1
12.5°	4734.7	4741.5	4662.8	4622.1	4567.8	4481.0	4379.2	4262.5	4189.2	4068.4	3896.1
15°	4878.6	4882.6	4812.1	4768.6	4717.1	4665.5	4555.6	4433.5	4361.5	4240.8	3978.8
17.5°	4981.7	4999.3	4955.9	4924.7	4870.4	4833.8	4746.9	4650.6	4556.9	4448.4	4151.2
20°	5094.3	5103.8	5023.8	5037.3	5027.8	5011.6	4970.8	4879.9	4803.9	4660.1	4289.6
22.5°	5125.5	5109.3	5131.0	5183.9	5209.7	5228.7	5216.5	5196.1	5126.9	4947.8	4551.5
25°	5079.4	5099.8	5151.3	5266.7	5410.5	5496.0	5557.1	5572.0	5551.7	5380.7	4901.6
27.5°	5067.2	5057.7	5141.8	5338.6	5580.2	5779.6	5900.4	6014.4	5962.8	5855.6	5296.5
30°	5015.6	5011.6	5159.5	5361.7	5672.4	6042.9	6258.7	6451.4	6427.0	6318.4	5759.3
32.5°	4889.4	4916.6	5030.6	5380.7	5813.6	6298.0	6561.3	6877.5	6914.1	6834.1	6227.5
35°	4726.6	4736.1	4917.9	5330.5	5923.5	6521.9	6904.6	7344.3	7429.8	7427.1	6754.0
37.5°	4520.3	4574.6	4768.6	5205.6	5971.0	6726.9	7234.4	7841.0	8012.0	7986.2	7280.5
40°	4314.0	4348.0	4577.3	5046.8	5975.1	6863.9	7513.9	8371.6	8561.6	8565.6	7880.3
42.5°	4004.6	4061.6	4301.8	4837.9	5884.1	6980.6	7792.1	8928.0	9143.7	9175.0	8436.7
45°	3746.8	3765.8	3978.8	4513.5	5687.4	7043.0	8101.5	9497.9	9846.7	9820.9	8919.8
47.5°	3413.0	3487.6	3712.9	4206.8	5379.3	7053.9	8370.2	10160.2	10591.7	10532.0	9578.0
50°	2640.8	2723.6	3337.0	3930.0	4989.8	6930.4	8586.0	10947.3	11298.7	11235.0	10138.5
52.5°	2328.7	2369.4	2617.7	3607.0	4585.4	6635.9	8758.3	11693.6	12077.7	11880.9	10793.9
55°	2195.7	2214.7	2327.3	2950.2	4228.5	6152.8	8857.4	12530.9	12746.7	12454.9	11404.6
57.5°	2051.8	2096.6	2153.6	2486.1	3830.9	5483.8	8796.3	13225.7	13261.0	12970.6	11925.7
60°	1916.1	1935.1	2053.2	2228.3	3373.6	4793.1	8451.7	13658.6	13783.5	13426.6	12552.6
62.5°	1795.4	1829.3	1898.5	2062.7	3068.3	4255.7	7838.3	13825.5	14056.2	13824.2	12976.0
65°	1681.4	1692.2	1770.9	1920.2	2730.4	3991.1	7484.1	13562.3	13936.8	13900.2	13162.0
67.5°	1547.0	1559.2	1628.5	1731.6	2308.3	3696.6	6561.3	13190.4	13505.3	13630.1	13056.1
70°	1372.0	1381.5	1462.9	1524.0	1935.1	3262.3	5509.6	12620.5	12961.1	12845.8	12345.0
72.5°	1171.1	1186.1	1251.2	1327.2	1609.5	2750.7	4315.4	11427.7	12208.0	12132.0	11289.2
75°	945.9	968.9	1021.9	1112.8	1308.2	2184.8	3054.7	9246.9	10913.3	11027.3	9742.2
77.5°	447.8	470.9	518.4	594.4	792.5	1524.0	1671.9	5212.4	8499.2	9204.8	7843.7
80°	146.6	149.3	351.5	401.7	503.5	939.1	682.6	1700.4	2517.3	4257.0	4219.0
82.5°	78.7	85.5	190.0	233.4	252.4	252.4	199.5	750.4	1059.8	1296.0	1500.9
85°	42.1	43.4	66.5	80.1	86.9	69.2	51.6	309.4	496.7	620.2	614.7
87.5°	17.6	19.0	20.4	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°	3714.2	3714.2	3714.2	3714.2	3714.2	3714.2	3714.2	3714.2	3714.2	3714.2	3714.2
2.5°	3691.2	3672.2	3662.7	3623.3	3579.9	3533.7	3497.1	3498.5	3527.0	3548.7	3547.3
5°	3733.2	3685.7	3627.4	3535.1	3497.1	3463.2	3422.5	3368.2	3385.8	3407.5	3423.8
7.5°	3756.3	3695.2	3616.5	3479.5	3417.0	3343.8	3305.8	3235.2	3205.3	3227.0	3227.0
10°	3748.2	3685.7	3550.0	3449.6	3327.5	3212.1	3136.1	3118.5	3092.7	3088.6	3087.3
12.5°	3802.4	3710.2	3509.3	3361.4	3250.1	3102.2	3020.8	3004.5	3009.9	2976.0	2981.4
15°	3855.4	3750.9	3474.0	3320.7	3148.3	2974.6	2909.5	2849.8	2876.9	2848.4	2855.2
17.5°	3950.3	3824.1	3455.0	3239.3	3018.1	2867.4	2750.7	2682.9	2680.2	2676.1	2665.2
20°	4058.9	3883.9	3452.3	3168.7	2912.2	2733.1	2566.2	2491.5	2437.2	2456.2	2457.6
22.5°	4255.7	3996.5	3480.8	3103.6	2764.3	2563.5	2392.5	2278.5	2213.3	2224.2	2225.5
25°	4535.2	4232.6	3555.5	3047.9	2640.8	2366.7	2198.4	2054.6	1975.9	1977.2	1998.9
27.5°	4941.0	4514.9	3674.9	3000.4	2509.2	2180.8	1952.8	1811.7	1726.2	1724.8	1739.7
30°	5342.7	4867.7	3845.9	2932.6	2342.3	1931.1	1673.2	1560.6	1507.7	1472.4	1480.5
32.5°	5740.3	5246.3	4068.4	2897.3	2146.8	1636.6	1420.8	1343.5	1277.0	1211.8	1218.6
35°	6190.8	5601.9	4292.3	2826.7	1912.1	1392.3	1241.7	1135.8	1050.4	1016.4	1009.6
37.5°	6720.1	6015.8	4447.0	2767.0	1633.9	1228.1	1044.9	966.2	910.6	873.9	868.5
40°	7186.9	6363.2	4618.0	2627.2	1366.5	1080.2	872.6	830.5	823.7	795.2	791.2
42.5°	7659.1	6789.3	4734.7	2444.0	1183.3	891.6	746.4	770.8	808.8	791.2	791.2
45°	8140.9	7234.4	4757.8	2169.9	1008.3	754.5	715.2	761.3	814.2	818.3	816.9
47.5°	8668.8	7629.3	4802.6	1777.7	883.4	719.2	709.7	747.7	815.6	840.0	834.6
50°	9267.2	8056.8	4677.7	1355.7	808.8	723.3	715.2	732.8	806.1	833.2	823.7
52.5°	9849.4	8467.9	4471.5	1034.1	761.3	727.4	743.7	730.1	783.0	810.2	821.0
55°	10389.5	8921.2	4034.5	920.1	728.7	721.9	766.7	742.3	761.3	769.4	784.4
57.5°	10936.4	9255.0	3570.4	863.1	711.1	715.2	753.2	742.3	754.5	745.0	732.8
60°	11449.4	9606.5	2971.9	810.2	692.1	711.1	726.0	723.3	731.4	713.8	705.7
62.5°	11885.0	9796.5	2346.3	764.0	675.8	692.1	689.4	702.9	704.3	683.9	678.5
65°	12084.5	9877.9	1791.3	721.9	651.4	667.7	654.1	656.8	658.2	631.0	629.7
67.5°	11882.3	9430.1	1228.1	659.5	625.6	646.0	620.2	616.1	606.6	579.5	580.8
70°	11291.9	8682.4	819.7	570.0	570.0	605.2	590.3	580.8	557.7	532.0	540.1
72.5°	9972.9	7412.2	532.0	460.0	500.7	557.7	551.0	537.4	483.1	409.8	412.5
75°	8530.4	5882.8	354.2	335.2	382.7	483.1	458.7	426.1	404.4	427.5	456.0
77.5°	6642.7	3750.9	198.1	192.7	226.6	339.3	382.7	389.5	551.0	654.1	647.3
80°	3448.2	1905.3	115.3	95.0	134.3	228.0	301.3	409.8	683.9	515.7	499.4
82.5°	1355.7	713.8	70.6	50.2	59.7	93.6	199.5	589.0	518.4	260.6	249.7
85°	464.1	161.5	28.5	25.8	28.5	39.4	78.7	527.9	268.7	165.6	157.4
87.5°	5.4	5.4	6.8	8.1	9.5	9.5	21.7	251.1	124.8	77.4	74.6
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)