

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: P509573

Luminaire Tested: **VERD-G-CA2-120-760-U-T2**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509573  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-G-CA2-120-760-U-T2  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5700K, 1120mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17820 lumens  
Efficiency: N/A  
Efficacy: 142.9 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

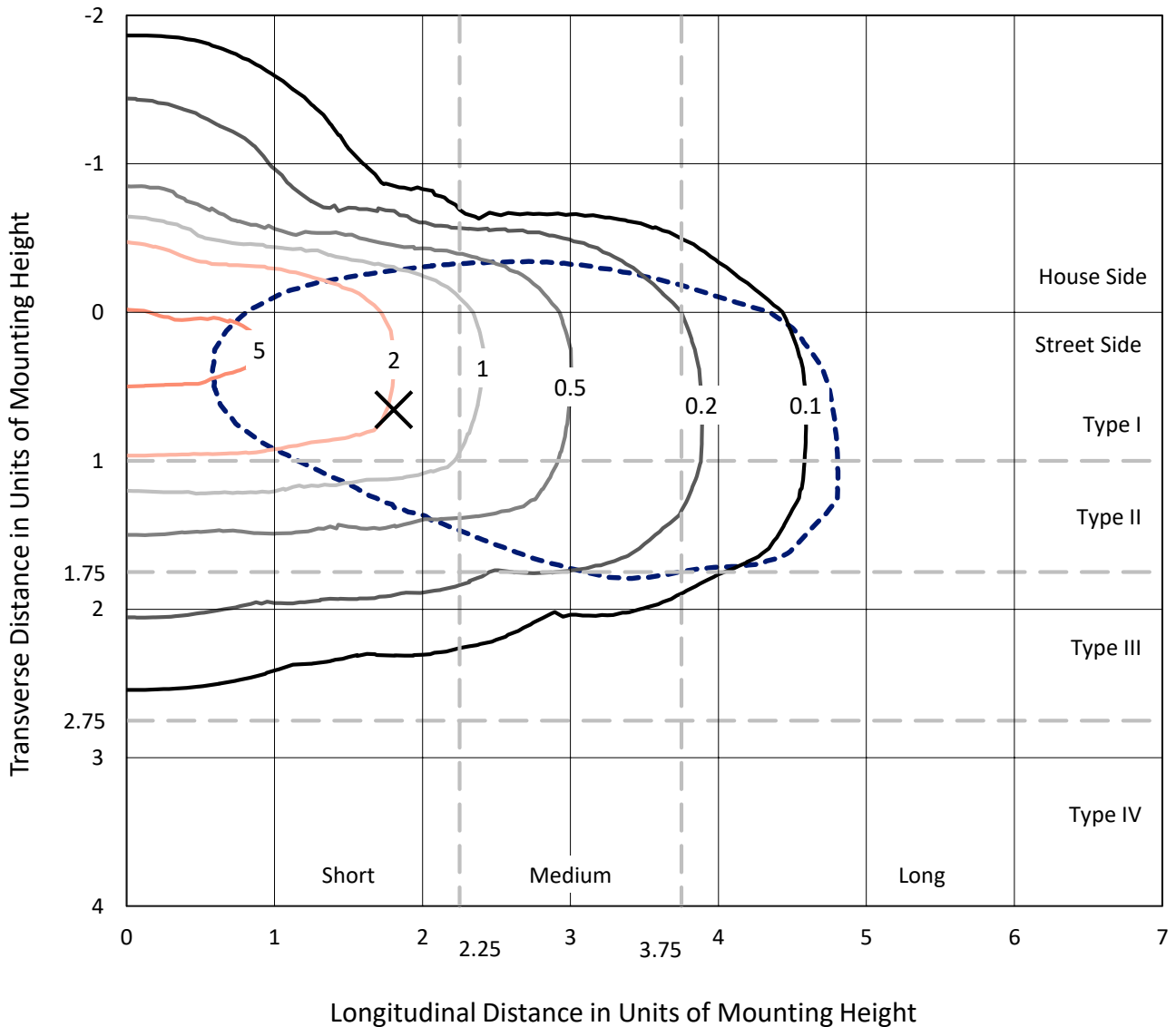
Input Watts (W): 124.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

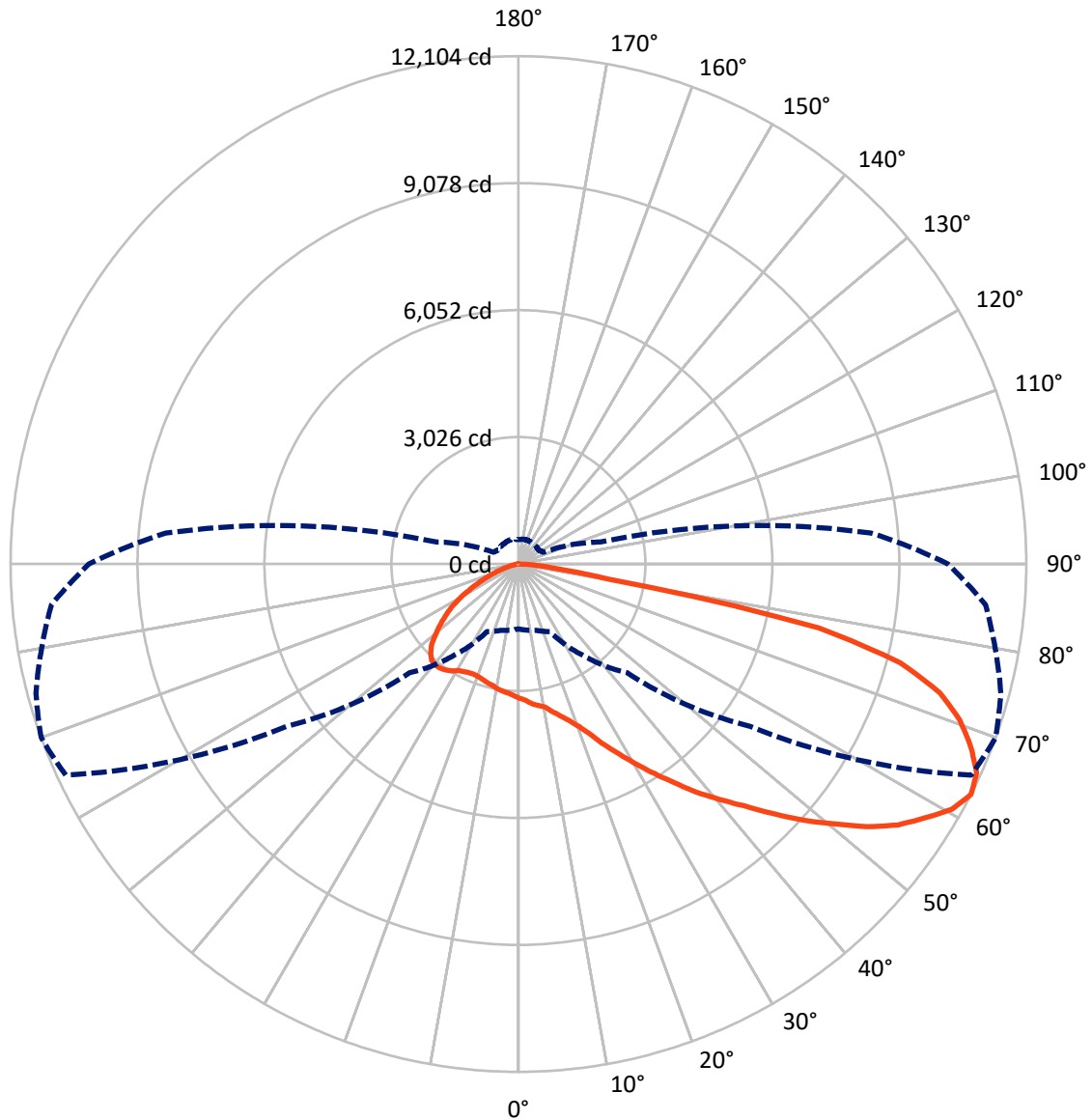
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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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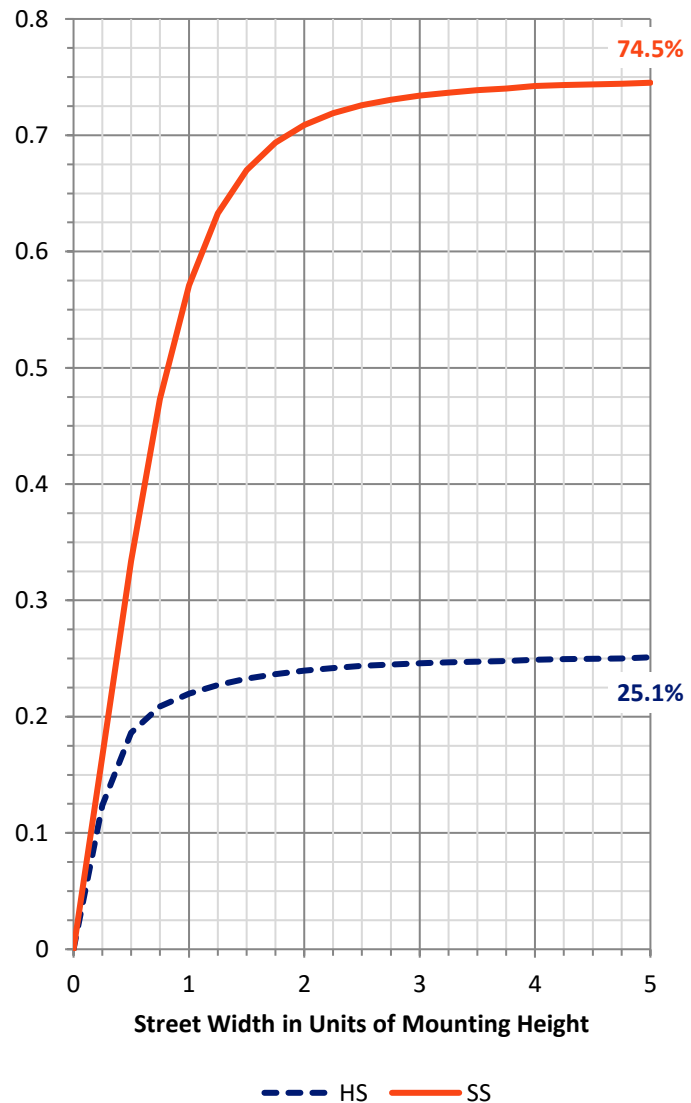
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4553.6	0.0	4553.6
	% Fixture	25.6	0.0	25.6
<b>Street Side</b>	Lumens	13266.4	0.0	13266.4
	% Fixture	74.4	0.0	74.4
<b>Total</b>	Lumens	17820.0	0.0	17820.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	308.8	1.7
10°-20°	939.5	5.3
20°-30°	1596.9	9.0
30°-40°	2297.9	12.9
40°-50°	2982.0	16.7
50°-60°	3495.7	19.6
60°-70°	3584.8	20.1
70°-80°	2352.3	13.2
80°-90°	262.1	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°	17820.0	100.0
0°-180°	17820.0	100.0



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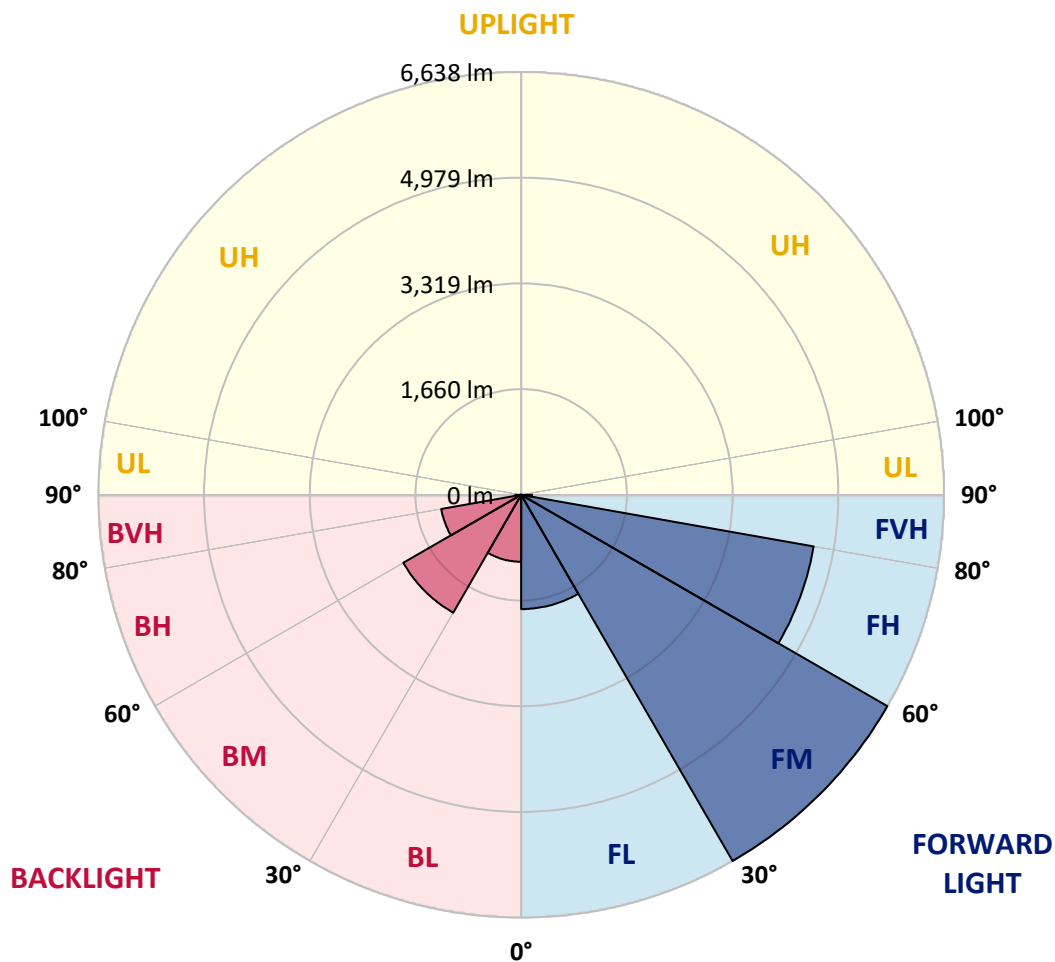
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1793.7	10.1			
FM (30°-60°)	6638.4	37.3			
FH (60°-80°)	4663.3	26.2			G2/5000
FVH (80°-90°)	170.9	1.0			G2/225
BL (0°-30°)	1051.5	5.9	B3/2500		
BM (30°-60°)	2137.2	12.0	B2/2500		
BH (60°-80°)	1273.8	7.1	B3/2500		G3/2500
BVH (80°-90°)	91.2	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3198.2	3198.2	3198.2	3198.2	3198.2	3198.2	3198.2	3198.2	3198.2	3198.2	3198.2
2.5°	3403.9	3416.7	3395.7	3375.8	3356.0	3344.3	3324.4	3268.3	3248.5	3231.0	3195.9
5°	3580.3	3597.9	3567.5	3504.4	3489.2	3440.1	3413.2	3365.3	3345.5	3315.1	3256.7
7.5°	3787.2	3789.5	3746.3	3726.4	3676.2	3609.6	3524.3	3436.6	3407.4	3375.8	3302.2
10°	3907.5	3932.1	3890.0	3828.1	3793.0	3733.4	3643.4	3527.8	3463.5	3407.4	3325.6
12.5°	4077.0	4082.8	4015.0	3980.0	3933.2	3858.4	3770.8	3670.3	3607.2	3503.2	3354.8
15°	4200.8	4204.3	4143.6	4106.2	4061.8	4017.4	3922.7	3817.5	3755.6	3651.6	3426.1
17.5°	4289.6	4304.8	4267.4	4240.6	4193.8	4162.3	4087.5	4004.5	3923.9	3830.4	3574.5
20°	4386.6	4394.8	4325.9	4337.5	4329.4	4315.3	4280.3	4202.0	4136.6	4012.7	3693.7
22.5°	4413.5	4399.5	4418.2	4463.7	4485.9	4502.3	4491.8	4474.3	4414.7	4260.4	3919.2
25°	4373.8	4391.3	4435.7	4535.0	4658.9	4732.5	4785.1	4797.9	4780.4	4633.2	4220.7
27.5°	4363.2	4355.1	4427.5	4597.0	4804.9	4976.7	5080.7	5178.9	5134.5	5042.2	4560.7
30°	4318.8	4315.3	4442.7	4616.8	4884.4	5203.4	5389.2	5555.1	5534.1	5440.6	4959.2
32.5°	4210.2	4233.5	4331.7	4633.2	5005.9	5423.1	5649.8	5922.1	5953.6	5884.7	5362.3
35°	4069.9	4078.1	4234.7	4589.9	5100.6	5615.9	5945.4	6324.0	6397.6	6395.3	5815.7
37.5°	3892.3	3939.1	4106.2	4482.4	5141.5	5792.3	6229.4	6751.7	6898.9	6876.7	6269.1
40°	3714.7	3743.9	3941.4	4345.7	5145.0	5910.4	6470.1	7208.6	7372.2	7375.7	6785.6
42.5°	3448.3	3497.4	3704.2	4165.8	5066.7	6010.9	6709.6	7687.7	7873.5	7900.4	7264.7
45°	3226.3	3242.6	3426.1	3886.5	4897.3	6064.6	6976.1	8178.5	8478.8	8456.6	7680.7
47.5°	2938.8	3003.1	3197.1	3622.4	4632.0	6074.0	7207.4	8748.7	9120.3	9068.9	8247.4
50°	2273.9	2345.2	2873.4	3384.0	4296.6	5967.6	7393.2	9426.4	9729.1	9674.2	8730.0
52.5°	2005.2	2040.2	2254.1	3105.9	3948.4	5714.1	7541.6	10069.1	10399.8	10230.4	9294.4
55°	1890.7	1907.0	2004.0	2540.4	3641.1	5298.1	7626.9	10790.1	10975.9	10724.7	9820.2
57.5°	1766.8	1805.4	1854.4	2140.7	3298.7	4722.0	7574.3	11388.4	11418.8	11168.7	10268.9
60°	1649.9	1666.3	1768.0	1918.7	2904.9	4127.2	7277.5	11761.1	11868.6	11561.3	10808.8
62.5°	1545.9	1575.2	1634.8	1776.1	2642.0	3664.5	6749.4	11904.9	12103.5	11903.7	11173.4
65°	1447.8	1457.1	1524.9	1653.5	2351.1	3436.6	6444.4	11678.2	12000.7	11969.1	11333.5
67.5°	1332.1	1342.6	1402.2	1491.0	1987.6	3183.0	5649.8	11358.0	11629.1	11736.6	11242.3
70°	1181.4	1189.6	1259.7	1312.2	1666.3	2809.1	4744.2	10867.2	11160.5	11061.2	10630.0
72.5°	1008.4	1021.3	1077.4	1142.8	1385.9	2368.6	3715.9	9840.1	10512.0	10446.6	9720.9
75°	814.5	834.3	879.9	958.2	1126.5	1881.3	2630.3	7962.3	9397.2	9495.4	8388.8
77.5°	385.6	405.5	446.4	511.8	682.4	1312.2	1439.6	4488.3	7318.4	7926.1	6754.0
80°	126.2	128.5	302.6	345.9	433.5	808.6	587.8	1464.2	2167.6	3665.6	3632.9
82.5°	67.8	73.6	163.6	201.0	217.3	217.3	171.8	646.2	912.6	1115.9	1292.4
85°	36.2	37.4	57.3	68.9	74.8	59.6	44.4	266.4	427.7	534.0	529.3
87.5°	15.2	16.4	17.5	15.2	12.9	8.2	5.8	4.7	4.7	4.7	4.7
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°	3198.2	3198.2	3198.2	3198.2	3198.2	3198.2	3198.2	3198.2	3198.2	3198.2	3198.2
2.5°	3178.4	3162.0	3153.8	3119.9	3082.6	3042.8	3011.3	3012.4	3037.0	3055.7	3054.5
5°	3214.6	3173.7	3123.4	3044.0	3011.3	2982.1	2947.0	2900.3	2915.5	2934.1	2948.2
7.5°	3234.5	3181.9	3114.1	2996.1	2942.3	2879.2	2846.5	2785.7	2760.0	2778.7	2778.7
10°	3227.4	3173.7	3056.8	2970.4	2865.2	2765.9	2700.4	2685.3	2663.1	2659.5	2658.4
12.5°	3274.2	3194.7	3021.8	2894.4	2798.6	2671.2	2601.1	2587.1	2591.8	2562.6	2567.2
15°	3319.8	3229.8	2991.4	2859.4	2711.0	2561.4	2505.3	2453.9	2477.3	2452.7	2458.6
17.5°	3401.6	3292.9	2975.0	2789.3	2598.8	2469.1	2368.6	2310.2	2307.8	2304.3	2295.0
20°	3495.0	3344.3	2972.7	2728.5	2507.6	2353.4	2209.7	2145.4	2098.7	2115.0	2116.2
22.5°	3664.5	3441.3	2997.2	2672.4	2380.3	2207.3	2060.1	1961.9	1905.9	1915.2	1916.4
25°	3905.2	3644.6	3061.5	2624.5	2273.9	2037.9	1893.0	1769.1	1701.4	1702.5	1721.2
27.5°	4254.6	3887.7	3164.3	2583.6	2160.6	1877.8	1681.5	1560.0	1486.4	1485.2	1498.0
30°	4600.5	4191.5	3311.6	2525.2	2016.9	1662.8	1440.8	1343.8	1298.2	1267.8	1274.9
32.5°	4942.8	4517.5	3503.2	2494.8	1848.6	1409.2	1223.4	1156.8	1099.6	1043.5	1049.3
35°	5330.8	4823.6	3696.0	2434.0	1646.4	1198.9	1069.2	978.0	904.4	875.2	869.4
37.5°	5786.5	5180.0	3829.2	2382.6	1406.9	1057.5	899.8	832.0	784.1	752.5	747.9
40°	6188.5	5479.2	3976.5	2262.3	1176.7	930.1	751.4	715.1	709.3	684.8	681.2
42.5°	6595.1	5846.1	4077.0	2104.5	1018.9	767.7	642.7	663.7	696.4	681.2	681.2
45°	7009.9	6229.4	4096.8	1868.5	868.2	649.7	615.8	655.5	701.1	704.6	703.4
47.5°	7464.5	6569.4	4135.4	1530.8	760.7	619.3	611.1	643.9	702.3	723.3	718.6
50°	7979.8	6937.5	4027.9	1167.3	696.4	622.8	615.8	631.0	694.1	717.5	709.3
52.5°	8481.1	7291.6	3850.3	890.4	655.5	626.3	640.3	628.7	674.2	697.6	707.0
55°	8946.2	7681.8	3474.0	792.3	627.5	621.7	660.2	639.2	655.5	662.5	675.4
57.5°	9417.1	7969.3	3074.4	743.2	612.3	615.8	648.5	639.2	649.7	641.5	631.0
60°	9858.8	8271.9	2559.1	697.6	595.9	612.3	625.2	622.8	629.8	614.6	607.6
62.5°	10233.9	8435.5	2020.4	657.9	581.9	595.9	593.6	605.3	606.5	588.9	584.3
65°	10405.7	8505.6	1542.4	621.7	560.9	574.9	563.2	565.6	566.7	543.4	542.2
67.5°	10231.5	8120.0	1057.5	567.9	538.7	556.2	534.0	530.5	522.3	499.0	500.1
70°	9723.2	7476.2	705.8	490.8	490.8	521.2	508.3	500.1	480.3	458.1	465.1
72.5°	8587.4	6382.4	458.1	396.1	431.2	480.3	474.4	462.7	416.0	352.9	355.2
75°	7345.3	5065.5	305.0	288.6	329.5	416.0	395.0	366.9	348.2	368.1	392.6
77.5°	5719.9	3229.8	170.6	165.9	195.1	292.1	329.5	335.4	474.4	563.2	557.4
80°	2969.2	1640.6	99.3	81.8	115.7	196.3	259.4	352.9	588.9	444.0	430.0
82.5°	1167.3	614.6	60.8	43.2	51.4	80.6	171.8	507.1	446.4	224.4	215.0
85°	399.6	139.1	24.5	22.2	24.5	33.9	67.8	454.6	231.4	142.6	135.5
87.5°	4.7	4.7	5.8	7.0	8.2	8.2	18.7	216.2	107.5	66.6	64.3
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)