

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: P553553

Luminaire Tested: **VERD-G-CA2-150-727-U-T2**

Issue Date: 7/12/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P553553  
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-CA2-150-727-U-T2  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 1380mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18483 lumens  
Efficiency: N/A  
Efficacy: 121.4 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

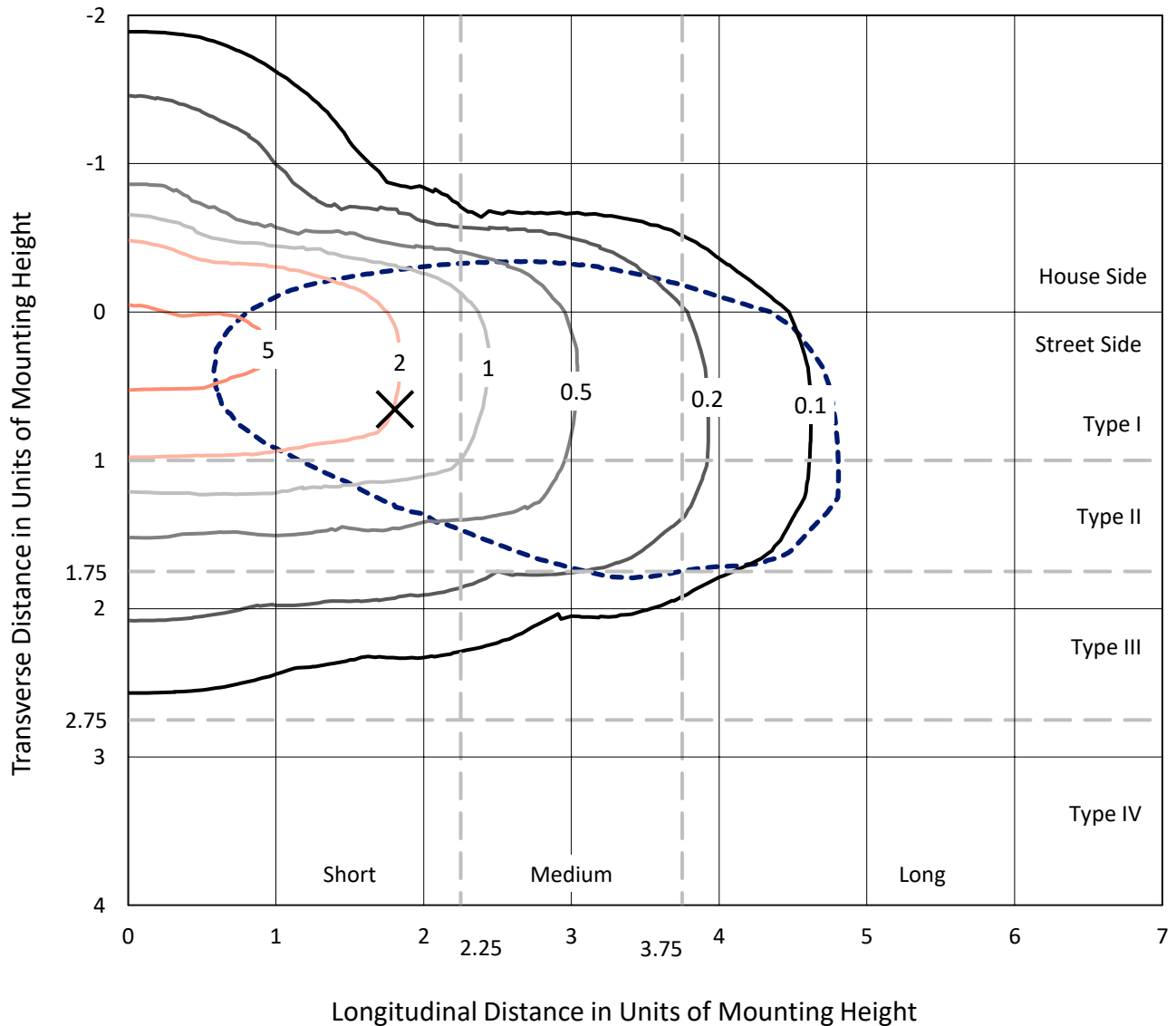
Input Watts (W): 152.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

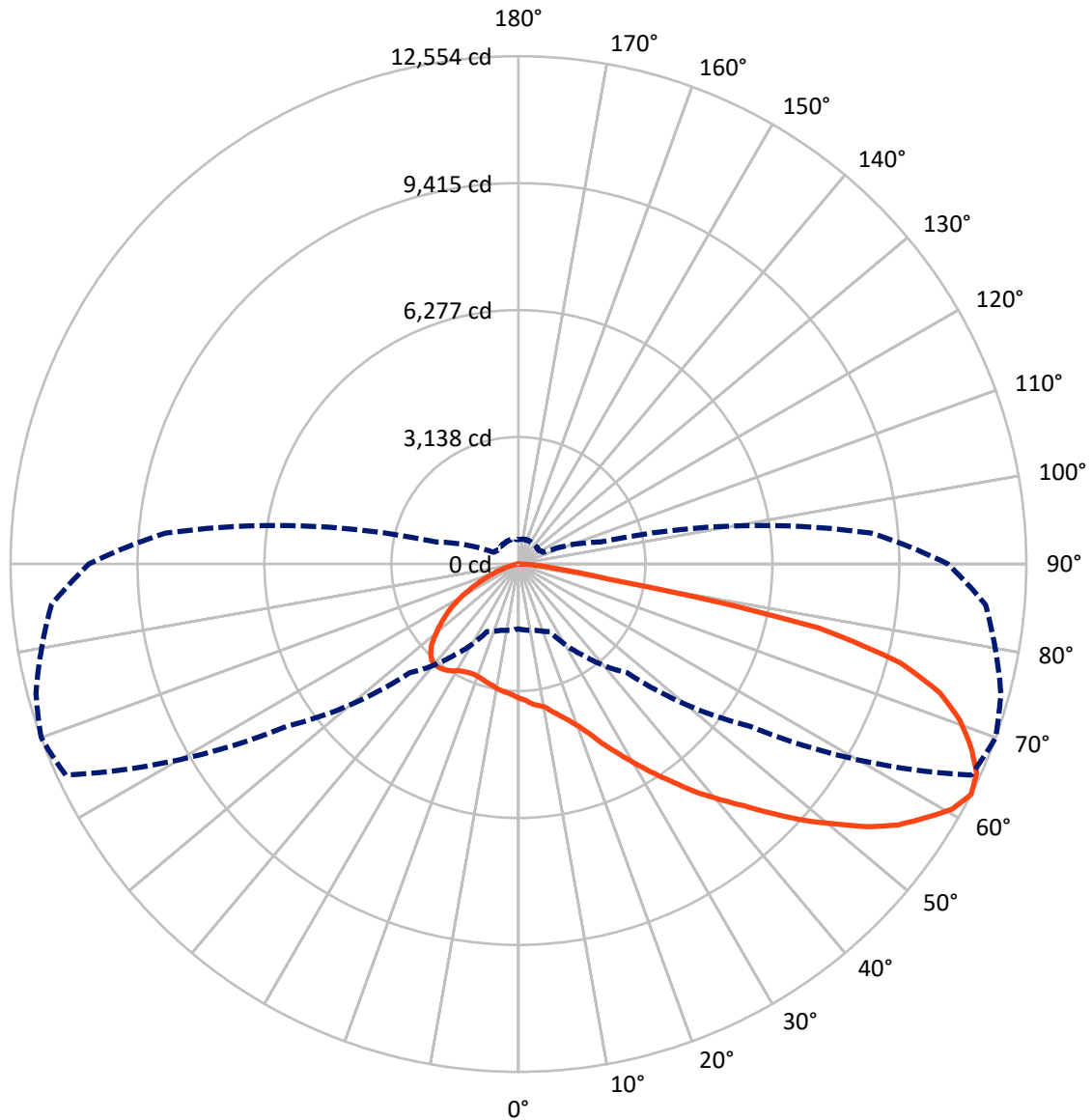
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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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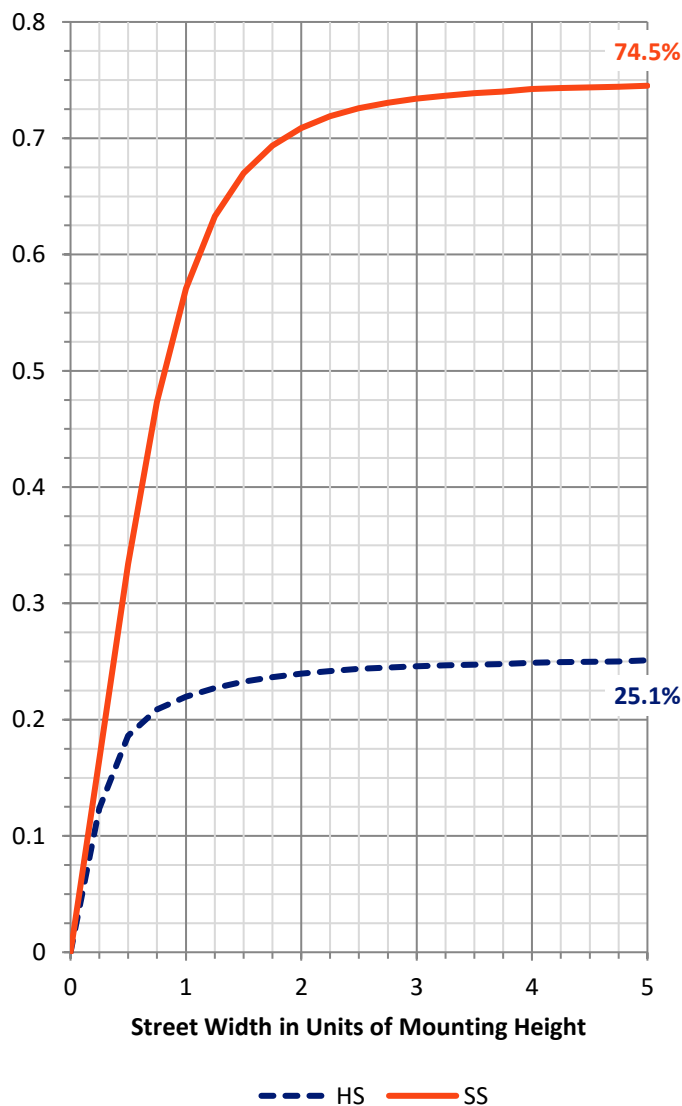
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4723.0	0.0	4723.0
	% Fixture	25.6	0.0	25.6
<b>Street Side</b>	Lumens	13760.0	0.0	13760.0
	% Fixture	74.4	0.0	74.4
<b>Total</b>	Lumens	18483.0	0.0	18483.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	320.3	1.7
10°-20°	974.4	5.3
20°-30°	1656.3	9.0
30°-40°	2383.4	12.9
40°-50°	3093.0	16.7
50°-60°	3625.7	19.6
60°-70°	3718.2	20.1
70°-80°	2439.8	13.2
80°-90°	271.8	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°	18483.0	100.0
0°-180°	18483.0	100.0

**Coefficient of Utilization**



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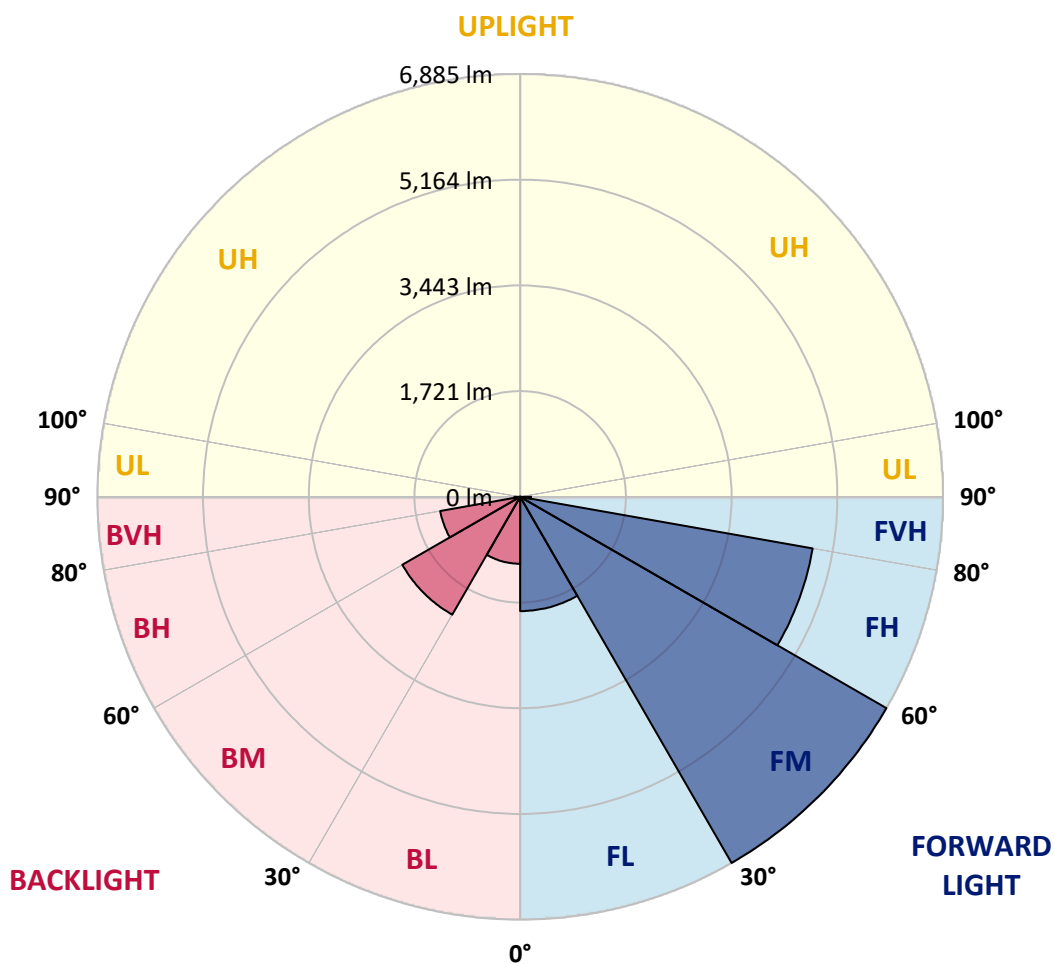
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1860.4	10.1			
FM (30°-60°)	6885.4	37.3			
FH (60°-80°)	4836.9	26.2			G2/5000
FVH (80°-90°)	177.2	1.0			G2/225
BL (0°-30°)	1090.6	5.9	B3/2500		
BM (30°-60°)	2216.7	12.0	B2/2500		
BH (60°-80°)	1321.2	7.1	B3/2500		G3/2500
BVH (80°-90°)	94.6	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°	3317.2	3317.2	3317.2	3317.2	3317.2	3317.2	3317.2	3317.2	3317.2	3317.2	3317.2
2.5°	3530.5	3543.9	3522.1	3501.4	3480.8	3468.7	3448.1	3389.9	3369.3	3351.2	3314.8
5°	3713.5	3731.7	3700.2	3634.8	3619.0	3568.1	3540.2	3490.5	3469.9	3438.4	3377.8
7.5°	3928.1	3930.5	3885.7	3865.0	3812.9	3743.8	3655.4	3564.5	3534.2	3501.4	3425.1
10°	4052.9	4078.4	4034.7	3970.5	3934.1	3872.3	3779.0	3659.0	3592.3	3534.2	3449.3
12.5°	4228.6	4234.7	4164.4	4128.1	4079.6	4002.0	3911.1	3806.9	3741.4	3633.6	3479.6
15°	4357.1	4360.8	4297.7	4258.9	4212.9	4166.8	4068.7	3959.6	3895.3	3787.5	3553.6
17.5°	4449.2	4465.0	4426.2	4398.3	4349.8	4317.1	4239.6	4153.5	4069.9	3972.9	3707.5
20°	4549.8	4558.3	4486.8	4498.9	4490.4	4475.9	4439.5	4358.3	4290.5	4162.0	3831.1
22.5°	4577.7	4563.2	4582.5	4629.8	4652.8	4669.8	4658.9	4640.7	4578.9	4418.9	4065.0
25°	4536.5	4554.7	4600.7	4703.7	4832.2	4908.6	4963.1	4976.4	4958.3	4805.6	4377.7
27.5°	4525.6	4517.1	4592.2	4768.0	4983.7	5161.9	5269.7	5371.6	5325.5	5229.8	4730.4
30°	4479.5	4475.9	4608.0	4788.6	5066.1	5397.0	5589.7	5761.8	5740.0	5643.0	5143.7
32.5°	4366.8	4391.1	4492.9	4805.6	5192.2	5624.9	5860.0	6142.4	6175.1	6103.6	5561.8
35°	4221.4	4229.9	4392.3	4760.7	5290.4	5824.8	6166.6	6559.3	6635.7	6633.2	6032.1
37.5°	4037.2	4085.6	4258.9	4649.2	5332.8	6007.9	6461.1	7002.9	7155.6	7132.6	6502.3
40°	3852.9	3883.2	4088.1	4507.4	5336.4	6130.3	6710.8	7476.8	7646.5	7650.1	7038.0
42.5°	3576.6	3627.5	3842.0	4320.8	5255.2	6234.5	6959.3	7973.7	8166.4	8194.3	7535.0
45°	3346.3	3363.3	3553.6	4031.1	5079.5	6290.2	7235.6	8482.7	8794.2	8771.2	7966.4
47.5°	3048.2	3114.8	3316.0	3757.2	4804.3	6299.9	7475.6	9074.2	9459.6	9406.3	8554.3
50°	2358.5	2432.5	2980.3	3509.9	4456.5	6189.7	7668.3	9777.2	10091.1	10034.1	9054.8
52.5°	2079.8	2116.1	2337.9	3221.5	4095.3	5926.6	7822.2	10443.7	10786.7	10611.0	9640.2
55°	1961.0	1978.0	2078.6	2634.9	3776.6	5495.2	7910.7	11191.5	11384.3	11123.7	10185.6
57.5°	1832.5	1872.5	1923.4	2220.4	3421.5	4897.7	7856.1	11812.1	11843.6	11584.2	10651.0
60°	1711.3	1728.3	1833.7	1990.1	3013.0	4280.8	7548.3	12198.7	12310.2	11991.5	11210.9
62.5°	1603.5	1633.8	1695.6	1842.2	2740.3	3800.8	7000.5	12347.8	12553.8	12346.6	11589.1
65°	1501.7	1511.4	1581.7	1715.0	2438.5	3564.5	6684.1	12112.7	12447.2	12414.5	11755.1
67.5°	1381.7	1392.6	1454.4	1546.5	2061.6	3301.5	5860.0	11780.6	12061.8	12173.3	11660.6
70°	1225.3	1233.8	1306.5	1361.1	1728.3	2913.6	4920.7	11271.5	11575.8	11472.7	11025.5
72.5°	1046.0	1059.3	1117.5	1185.3	1437.4	2456.7	3854.1	10206.2	10903.1	10835.2	10082.6
75°	844.8	865.4	912.6	993.8	1168.4	1951.3	2728.2	8258.5	9746.9	9848.7	8700.9
77.5°	400.0	420.6	463.0	530.9	707.8	1361.1	1493.2	4655.3	7590.7	8221.0	7005.3
80°	130.9	133.3	313.9	358.8	449.6	838.7	609.6	1518.6	2248.2	3802.0	3768.1
82.5°	70.3	76.4	169.7	208.5	225.4	225.4	178.2	670.2	946.6	1157.5	1340.5
85°	37.6	38.8	59.4	71.5	77.6	61.8	46.1	276.3	443.6	553.9	549.0
87.5°	15.8	17.0	18.2	15.8	13.3	8.5	6.1	4.8	4.8	4.8	4.8
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°	3317.2	3317.2	3317.2	3317.2	3317.2	3317.2	3317.2	3317.2	3317.2	3317.2	3317.2
2.5°	3296.6	3279.7	3271.2	3236.0	3197.2	3156.0	3123.3	3124.5	3150.0	3169.4	3168.2
5°	3334.2	3291.8	3239.7	3157.2	3123.3	3093.0	3056.6	3008.2	3023.9	3043.3	3057.9
7.5°	3354.8	3300.3	3230.0	3107.6	3051.8	2986.4	2952.4	2889.4	2862.7	2882.1	2882.1
10°	3347.5	3291.8	3170.6	3080.9	2971.8	2868.8	2800.9	2785.2	2762.1	2758.5	2757.3
12.5°	3396.0	3313.6	3134.2	3002.1	2902.7	2770.6	2697.9	2683.4	2688.2	2657.9	2662.8
15°	3443.3	3350.0	3102.7	2965.7	2811.8	2656.7	2598.5	2545.2	2569.4	2544.0	2550.0
17.5°	3528.1	3415.4	3085.7	2893.0	2695.5	2560.9	2456.7	2396.1	2393.7	2390.1	2380.4
20°	3625.1	3468.7	3083.3	2830.0	2600.9	2441.0	2291.9	2225.2	2176.7	2193.7	2194.9
22.5°	3800.8	3569.3	3108.8	2771.8	2468.8	2289.5	2136.7	2034.9	1976.8	1986.5	1987.7
25°	4050.5	3780.2	3175.4	2722.1	2358.5	2113.7	1963.4	1835.0	1764.7	1765.9	1785.3
27.5°	4412.9	4032.3	3282.1	2679.7	2241.0	1947.7	1744.1	1618.0	1541.7	1540.4	1553.8
30°	4771.6	4347.4	3434.8	2619.1	2091.9	1724.7	1494.4	1393.8	1346.5	1315.0	1322.3
32.5°	5126.7	4685.6	3633.6	2587.6	1917.4	1461.7	1269.0	1199.9	1140.5	1082.3	1088.4
35°	5529.1	5003.1	3833.5	2524.6	1707.7	1243.5	1109.0	1014.4	938.1	907.8	901.7
37.5°	6001.8	5372.8	3971.7	2471.3	1459.2	1096.9	933.2	862.9	813.2	780.5	775.7
40°	6418.7	5683.0	4124.4	2346.4	1220.5	964.7	779.3	741.7	735.7	710.2	706.6
42.5°	6840.5	6063.6	4228.6	2182.8	1056.9	796.3	666.6	688.4	722.3	706.6	706.6
45°	7270.7	6461.1	4249.2	1938.0	900.5	673.9	638.7	679.9	727.2	730.8	729.6
47.5°	7742.2	6813.8	4289.2	1587.7	789.0	642.4	633.9	667.8	728.4	750.2	745.4
50°	8276.7	7195.6	4177.7	1210.8	722.3	646.0	638.7	654.5	719.9	744.2	735.7
52.5°	8796.6	7562.8	3993.5	923.5	679.9	649.6	664.2	652.1	699.3	723.6	733.3
55°	9279.0	7967.6	3603.3	821.7	650.8	644.8	684.8	663.0	679.9	687.2	700.5
57.5°	9767.5	8265.8	3188.8	770.8	635.1	638.7	672.7	663.0	673.9	665.4	654.5
60°	10225.6	8579.7	2654.3	723.6	618.1	635.1	648.4	646.0	653.3	637.5	630.2
62.5°	10614.6	8749.4	2095.5	682.4	603.6	618.1	615.7	627.8	629.0	610.8	606.0
65°	10792.8	8822.1	1599.8	644.8	581.8	596.3	584.2	586.6	587.8	563.6	562.4
67.5°	10612.2	8422.1	1096.9	589.0	558.7	576.9	553.9	550.2	541.8	517.5	518.7
70°	10085.0	7754.3	732.0	509.0	509.0	540.5	527.2	518.7	498.1	475.1	482.4
72.5°	8906.9	6619.9	475.1	410.9	447.2	498.1	492.1	479.9	431.5	366.0	368.4
75°	7618.6	5254.0	316.3	299.4	341.8	431.5	409.7	380.6	361.2	381.8	407.2
77.5°	5932.7	3350.0	177.0	172.1	202.4	303.0	341.8	347.8	492.1	584.2	578.1
80°	3079.7	1701.6	103.0	84.8	120.0	203.6	269.1	366.0	610.8	460.6	446.0
82.5°	1210.8	637.5	63.0	44.8	53.3	83.6	178.2	526.0	463.0	232.7	223.0
85°	414.5	144.2	25.5	23.0	25.5	35.1	70.3	471.5	240.0	147.9	140.6
87.5°	4.8	4.8	6.1	7.3	8.5	8.5	19.4	224.2	111.5	69.1	66.7
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)