

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: P553617

Luminaire Tested: **VERD-G-CA2-160-740-U-T2**

Issue Date: 7/12/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P553617  
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-CA2-160-740-U-T2  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 1460mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22948 lumens  
Efficiency: N/A  
Efficacy: 141.1 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

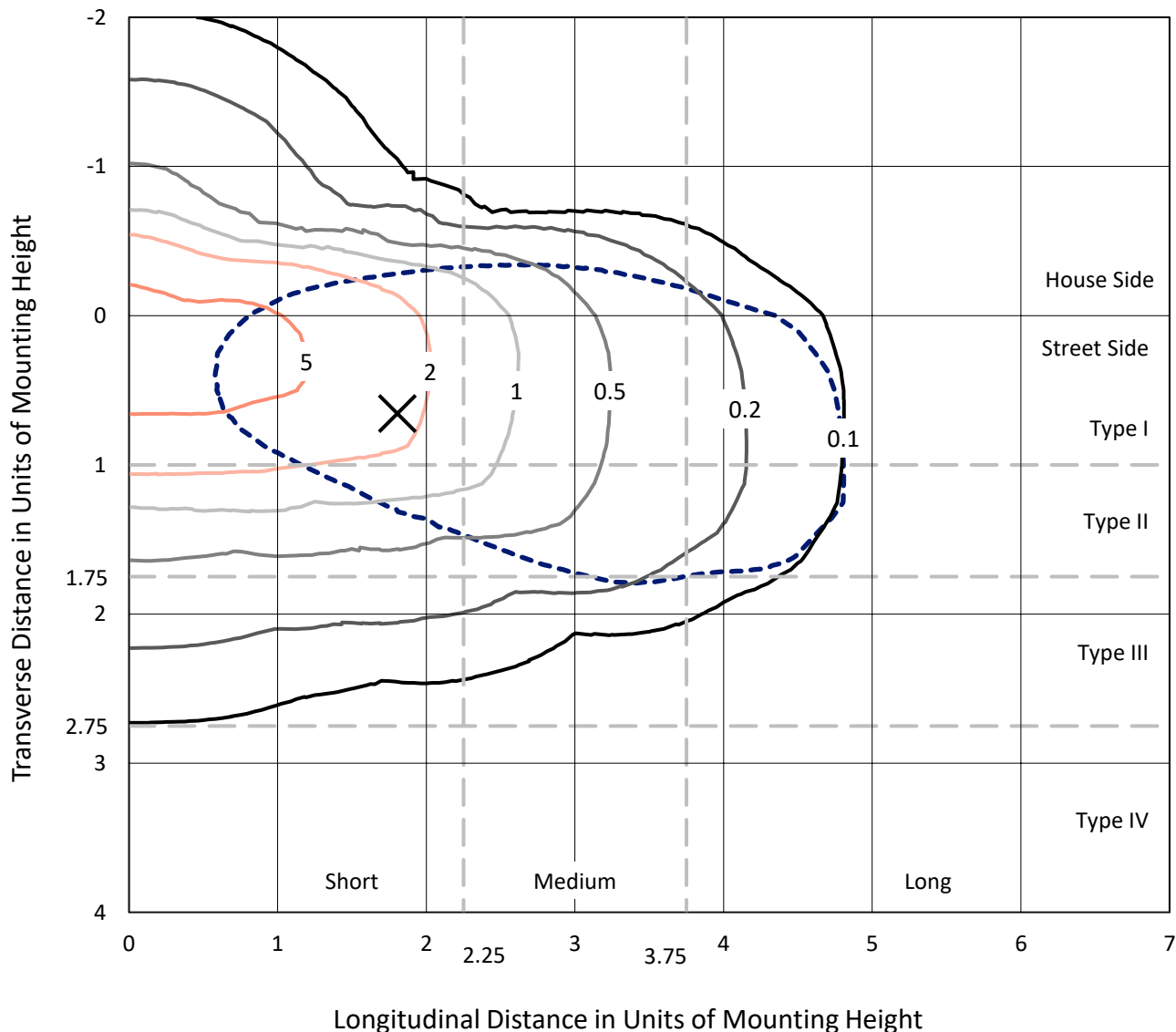
Input Watts (W): 162.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

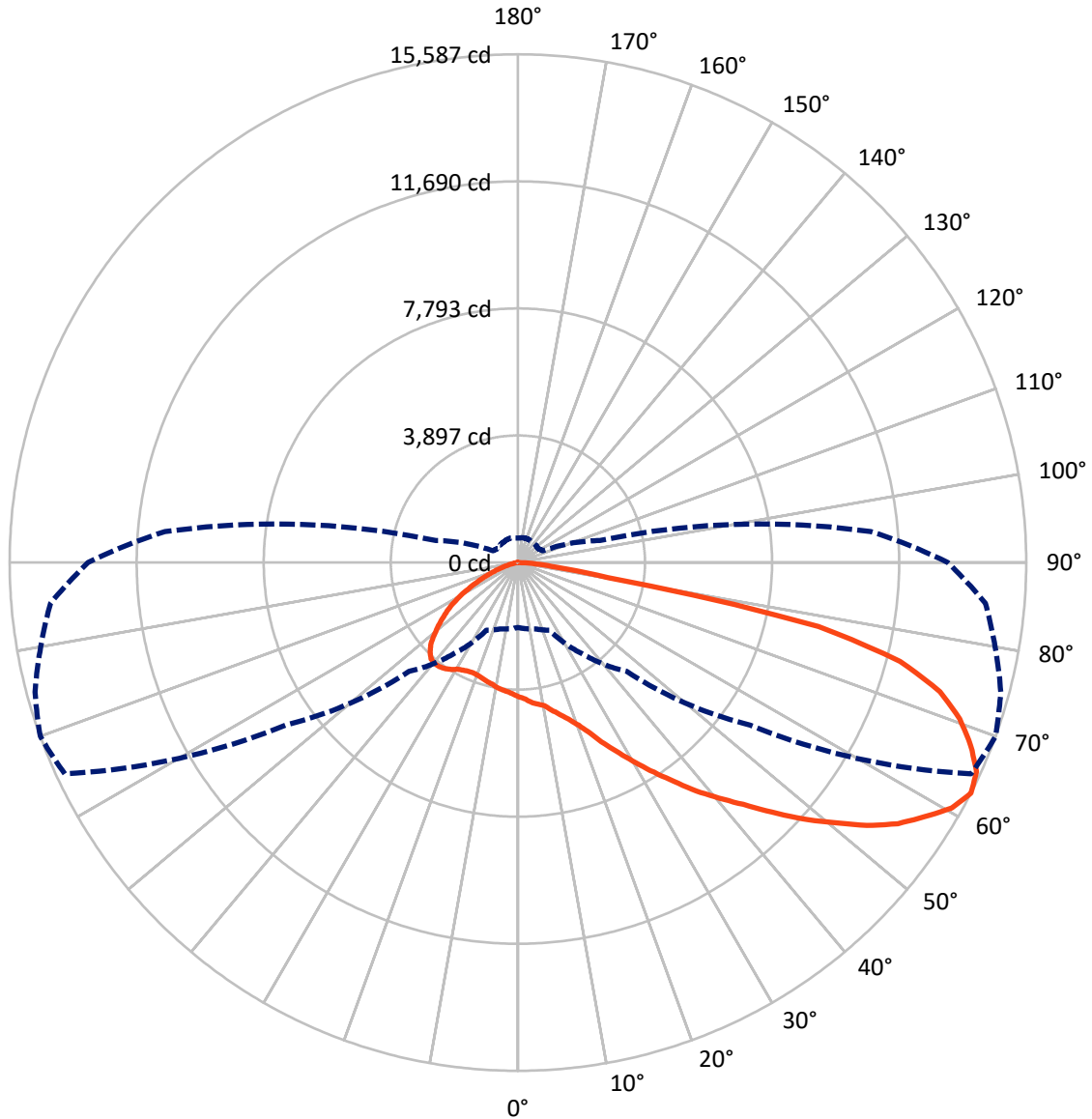
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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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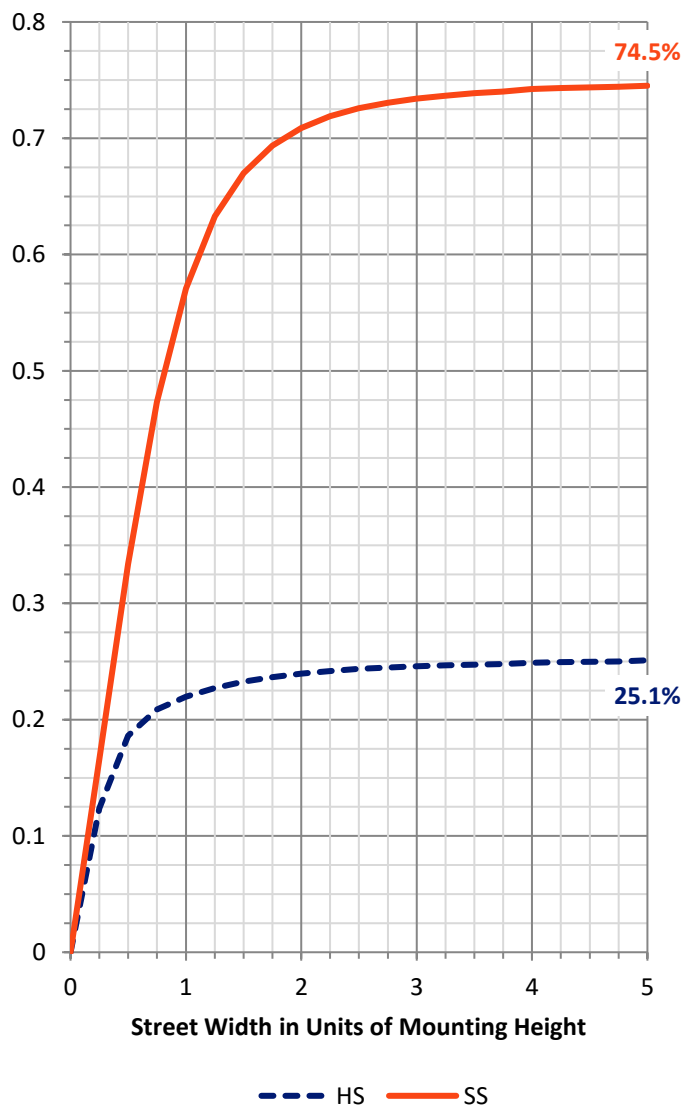
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5864.0	0.0	5864.0
	% Fixture	25.6	0.0	25.6
<b>Street Side</b>	Lumens	17084.0	0.0	17084.0
	% Fixture	74.4	0.0	74.4
<b>Total</b>	Lumens	22948.0	0.0	22948.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	397.7	1.7
10°-20°	1209.8	5.3
20°-30°	2056.4	9.0
30°-40°	2959.2	12.9
40°-50°	3840.1	16.7
50°-60°	4501.6	19.6
60°-70°	4616.4	20.1
70°-80°	3029.2	13.2
80°-90°	337.5	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°	22948.0	100.0
0°-180°	22948.0	100.0

**Coefficient of Utilization**



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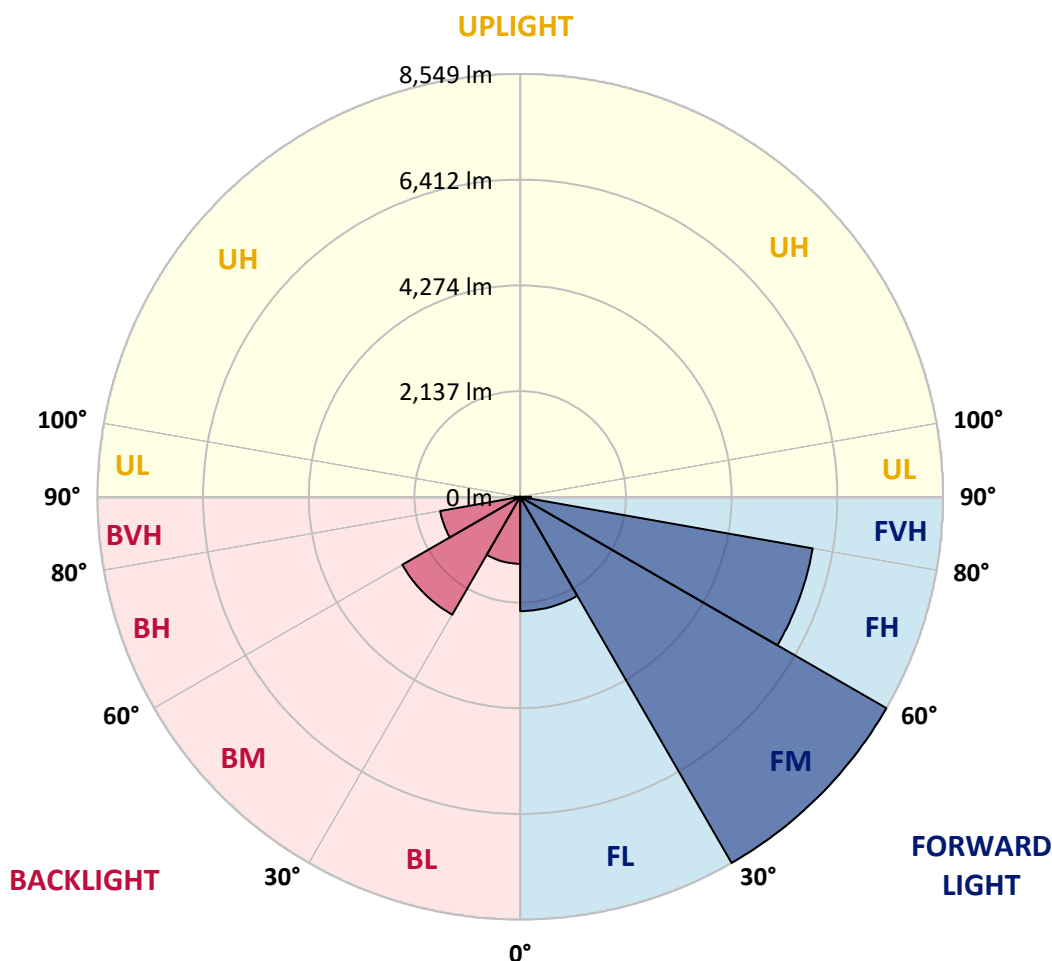
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2309.9	10.1			
FM	(30°-60°)	8548.8	37.3			
FH	(60°-80°)	6005.3	26.2			G3/7500
FVH	(80°-90°)	220.1	1.0			G2/225
BL	(0°-30°)	1354.1	5.9	B3/2500		
BM	(30°-60°)	2752.2	12.0	B3/5000		
BH	(60°-80°)	1640.4	7.1	B3/2500		G3/2500
BVH	(80°-90°)	117.4	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°	4118.6	4118.6	4118.6	4118.6	4118.6	4118.6	4118.6	4118.6	4118.6	4118.6	4118.6
2.5°	4383.4	4400.0	4372.9	4347.3	4321.7	4306.7	4281.1	4208.9	4183.3	4160.7	4115.6
5°	4610.6	4633.2	4594.1	4512.8	4493.3	4430.1	4395.5	4333.8	4308.2	4269.1	4193.8
7.5°	4877.0	4880.0	4824.3	4798.7	4734.0	4648.3	4538.4	4425.6	4387.9	4347.3	4252.5
10°	5032.0	5063.6	5009.4	4929.7	4884.5	4807.8	4691.9	4542.9	4460.2	4387.9	4282.6
12.5°	5250.2	5257.7	5170.4	5125.3	5065.1	4968.8	4855.9	4726.5	4645.3	4511.3	4320.2
15°	5409.7	5414.2	5335.9	5287.8	5230.6	5173.4	5051.5	4916.1	4836.4	4702.4	4412.0
17.5°	5524.0	5543.6	5495.5	5460.8	5400.7	5360.0	5263.7	5156.9	5053.0	4932.7	4603.1
20°	5648.9	5659.5	5570.7	5585.7	5575.2	5557.1	5512.0	5411.2	5326.9	5167.4	4756.6
22.5°	5683.6	5665.5	5689.6	5748.3	5776.8	5797.9	5784.4	5761.8	5685.1	5486.4	5047.0
25°	5632.4	5655.0	5712.1	5840.0	5999.6	6094.4	6162.1	6178.6	6156.1	5966.4	5435.3
27.5°	5618.8	5608.3	5701.6	5919.8	6187.7	6408.9	6542.8	6669.2	6612.0	6493.1	5873.2
30°	5561.7	5557.1	5721.2	5945.4	6290.0	6700.8	6940.0	7153.7	7126.6	7006.3	6386.3
32.5°	5421.7	5451.8	5578.2	5966.4	6446.5	6983.7	7275.6	7626.2	7666.8	7578.1	6905.4
35°	5241.1	5251.7	5453.3	5910.8	6568.4	7232.0	7656.3	8143.9	8238.7	8235.7	7489.3
37.5°	5012.4	5072.6	5287.8	5772.3	6621.0	7459.2	8022.0	8694.6	8884.2	8855.6	8073.1
40°	4783.7	4821.3	5075.6	5596.3	6625.5	7611.2	8332.0	9283.0	9493.7	9498.2	8738.3
42.5°	4440.6	4503.8	4770.1	5364.5	6524.7	7740.6	8640.4	9899.9	10139.2	10173.8	9355.2
45°	4154.7	4175.8	4412.0	5004.9	6306.5	7809.8	8983.5	10531.9	10918.7	10890.1	9890.9
47.5°	3784.5	3867.3	4117.1	4664.8	5964.9	7821.8	9281.5	11266.3	11744.8	11678.6	10620.7
50°	2928.3	3020.1	3700.3	4357.8	5533.1	7684.9	9520.7	12139.1	12528.8	12458.1	11242.2
52.5°	2582.2	2627.3	2902.7	3999.7	5084.6	7358.4	9711.8	12966.7	13392.5	13174.3	11969.0
55°	2434.7	2455.8	2580.7	3271.4	4688.9	6822.7	9821.7	13895.1	14134.4	13810.9	12646.2
57.5°	2275.2	2324.9	2388.1	2756.8	4248.0	6080.8	9754.0	14665.6	14704.7	14382.7	13224.0
60°	2124.7	2145.8	2276.7	2470.8	3740.9	5314.9	9371.8	15145.6	15284.0	14888.3	13919.2
62.5°	1990.8	2028.4	2105.2	2287.3	3402.3	4719.0	8691.6	15330.7	15586.5	15329.2	14388.7
65°	1864.4	1876.5	1963.7	2129.3	3027.6	4425.6	8298.9	15038.8	15454.1	15413.5	14594.9
67.5°	1715.4	1729.0	1805.7	1920.1	2559.6	4099.0	7275.6	14626.5	14975.6	15114.0	14477.5
70°	1521.3	1531.9	1622.2	1689.9	2145.8	3617.5	6109.4	13994.4	14372.1	14244.2	13689.0
72.5°	1298.6	1315.2	1387.4	1471.7	1784.7	3050.2	4785.2	12671.7	13537.0	13452.7	12518.3
75°	1048.8	1074.4	1133.1	1233.9	1450.6	2422.7	3387.3	10253.6	12101.4	12227.8	10802.8
77.5°	496.6	522.2	574.8	659.1	878.8	1689.9	1853.9	5779.9	9424.4	10206.9	8697.6
80°	162.5	165.5	389.7	445.4	558.3	1041.3	756.9	1885.5	2791.4	4720.5	4678.4
82.5°	87.3	94.8	210.7	258.8	279.9	279.9	221.2	832.1	1175.2	1437.1	1664.3
85°	46.6	48.2	73.7	88.8	96.3	76.7	57.2	343.1	550.7	687.7	681.7
87.5°	19.6	21.1	22.6	19.6	16.6	10.5	7.5	6.0	6.0	6.0	6.0
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°	4118.6	4118.6	4118.6	4118.6	4118.6	4118.6	4118.6	4118.6	4118.6	4118.6	4118.6
2.5°	4093.0	4071.9	4061.4	4017.8	3969.6	3918.4	3877.8	3879.3	3910.9	3935.0	3933.5
5°	4139.6	4087.0	4022.3	3919.9	3877.8	3840.2	3795.1	3734.9	3754.4	3778.5	3796.6
7.5°	4165.2	4097.5	4010.2	3858.3	3789.0	3707.8	3665.6	3587.4	3554.3	3578.4	3578.4
10°	4156.2	4087.0	3936.5	3825.1	3689.7	3561.8	3477.5	3458.0	3429.4	3424.9	3423.4
12.5°	4216.4	4114.1	3891.4	3727.3	3603.9	3439.9	3349.6	3331.6	3337.6	3300.0	3306.0
15°	4275.1	4159.2	3852.2	3682.2	3491.1	3298.5	3226.2	3160.0	3190.1	3158.5	3166.1
17.5°	4380.4	4240.5	3831.2	3591.9	3346.6	3179.6	3050.2	2974.9	2971.9	2967.4	2955.4
20°	4500.8	4306.7	3828.2	3513.7	3229.3	3030.6	2845.5	2762.8	2702.6	2723.7	2725.2
22.5°	4719.0	4431.6	3859.8	3441.4	3065.2	2842.5	2652.9	2526.5	2454.3	2466.3	2467.8
25°	5029.0	4693.4	3942.5	3379.7	2928.3	2624.3	2437.7	2278.2	2191.0	2192.5	2216.5
27.5°	5478.9	5006.4	4074.9	3327.1	2782.3	2418.2	2165.4	2008.9	1914.1	1912.6	1929.1
30°	5924.3	5397.6	4264.5	3251.8	2597.2	2141.3	1855.4	1730.5	1671.8	1632.7	1641.7
32.5°	6365.2	5817.5	4511.3	3212.7	2380.6	1814.8	1575.5	1489.7	1416.0	1343.8	1351.3
35°	6864.8	6211.7	4759.6	3134.5	2120.2	1543.9	1376.9	1259.5	1164.7	1127.1	1119.6
37.5°	7451.7	6670.7	4931.2	3068.2	1811.8	1361.8	1158.7	1071.4	1009.7	969.1	963.1
40°	7969.3	7055.9	5120.8	2913.3	1515.3	1197.8	967.6	920.9	913.4	881.8	877.3
42.5°	8493.0	7528.4	5250.2	2710.1	1312.2	988.6	827.6	854.7	896.8	877.3	877.3
45°	9027.2	8022.0	5275.8	2406.1	1118.1	836.7	793.0	844.2	902.9	907.4	905.9
47.5°	9612.5	8459.9	5325.4	1971.3	979.6	797.5	787.0	829.1	904.4	931.5	925.4
50°	10276.1	8933.9	5187.0	1503.3	896.8	802.0	793.0	812.6	893.8	923.9	913.4
52.5°	10921.7	9389.8	4958.2	1146.6	844.2	806.6	824.6	809.6	868.3	898.4	910.4
55°	11520.6	9892.4	4473.7	1020.2	808.1	800.5	850.2	823.1	844.2	853.2	869.8
57.5°	12127.0	10262.6	3959.1	957.0	788.5	793.0	835.2	823.1	836.7	826.1	812.6
60°	12695.8	10652.3	3295.5	898.4	767.4	788.5	805.1	802.0	811.1	791.5	782.5
62.5°	13178.9	10863.0	2601.8	847.2	749.4	767.4	764.4	779.5	781.0	758.4	752.4
65°	13400.1	10953.3	1986.3	800.5	722.3	740.4	725.3	728.3	729.8	699.7	698.2
67.5°	13175.8	10456.7	1361.8	731.3	693.7	716.3	687.7	683.2	672.6	642.5	644.0
70°	12521.3	9627.6	908.9	632.0	632.0	671.1	654.6	644.0	618.5	589.9	598.9
72.5°	11058.6	8219.1	589.9	510.1	555.3	618.5	610.9	595.9	535.7	454.4	457.5
75°	9459.0	6523.2	392.7	371.7	424.3	535.7	508.6	472.5	448.4	474.0	505.6
77.5°	7365.9	4159.2	219.7	213.7	251.3	376.2	424.3	431.9	610.9	725.3	717.8
80°	3823.6	2112.7	127.9	105.3	149.0	252.8	334.1	454.4	758.4	571.8	553.8
82.5°	1503.3	791.5	78.2	55.7	66.2	103.8	221.2	653.1	574.8	288.9	276.9
85°	514.6	179.1	31.6	28.6	31.6	43.6	87.3	585.4	297.9	183.6	174.6
87.5°	6.0	6.0	7.5	9.0	10.5	10.5	24.1	278.4	138.4	85.8	82.8
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)