

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: P509613

Luminaire Tested: **VERD-G-CA2-130-750-U-T2**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509613  
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-CA2-130-750-U-T2  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5000K, 1200mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19252 lumens  
Efficiency: N/A  
Efficacy: 143.8 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

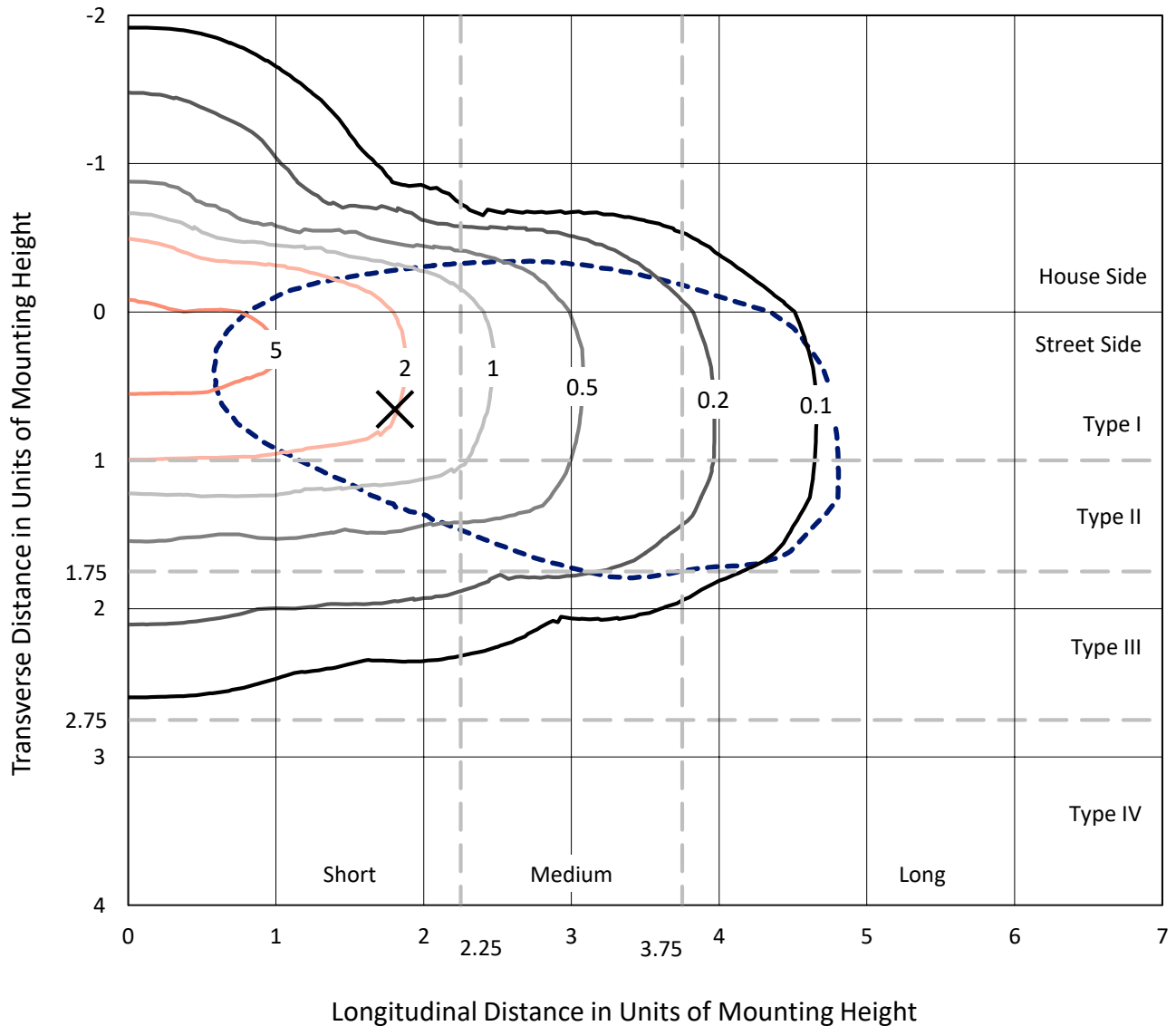
Input Watts (W): 133.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

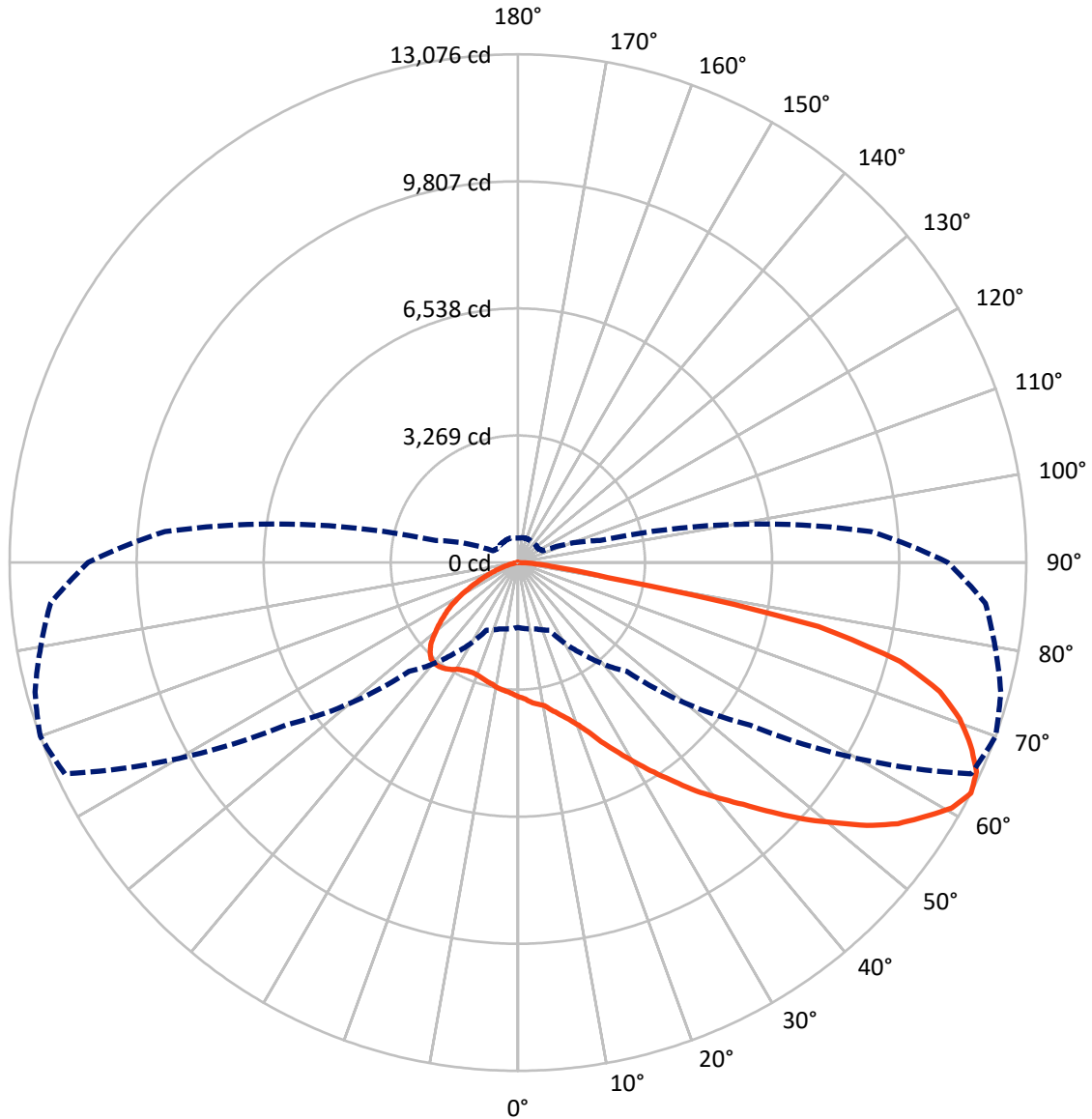
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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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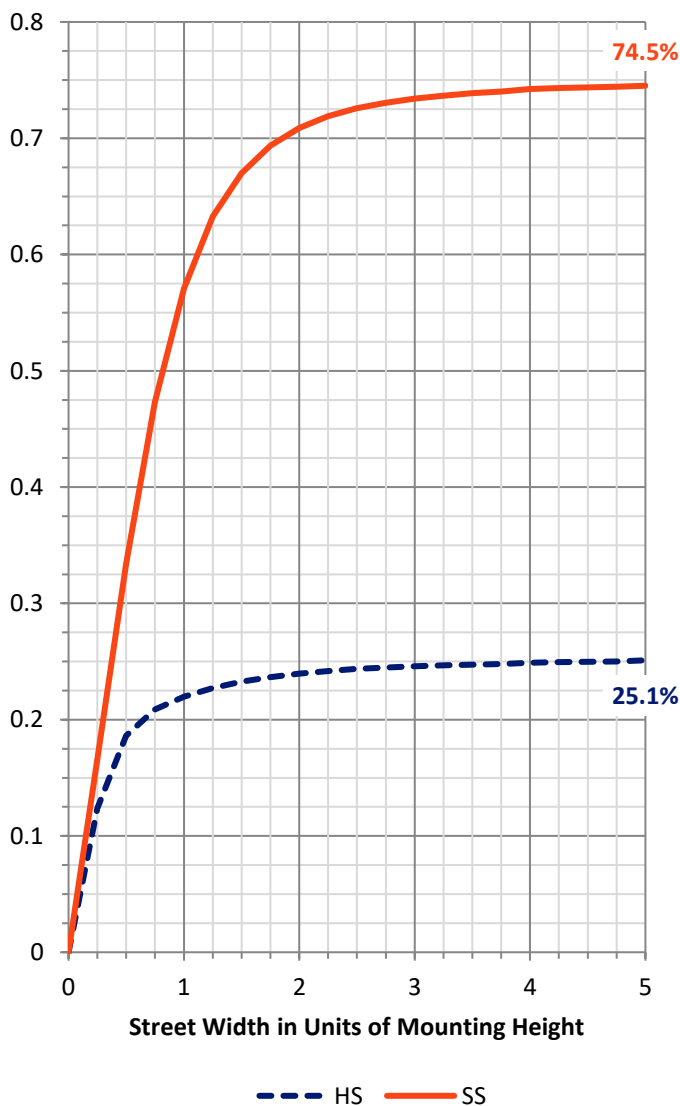
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4919.5	0.0	4919.5
	% Fixture	25.6	0.0	25.6
<b>Street Side</b>	Lumens	14332.4	0.0	14332.4
	% Fixture	74.4	0.0	74.4
<b>Total</b>	Lumens	19252.0	0.0	19252.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	333.6	1.7
10°-20°	1015.0	5.3
20°-30°	1725.2	9.0
30°-40°	2482.6	12.9
40°-50°	3221.6	16.7
50°-60°	3776.6	19.6
60°-70°	3872.9	20.1
70°-80°	2541.4	13.2
80°-90°	283.1	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°	19252.0	100.0
0°-180°	19252.0	100.0

**Coefficient of Utilization**



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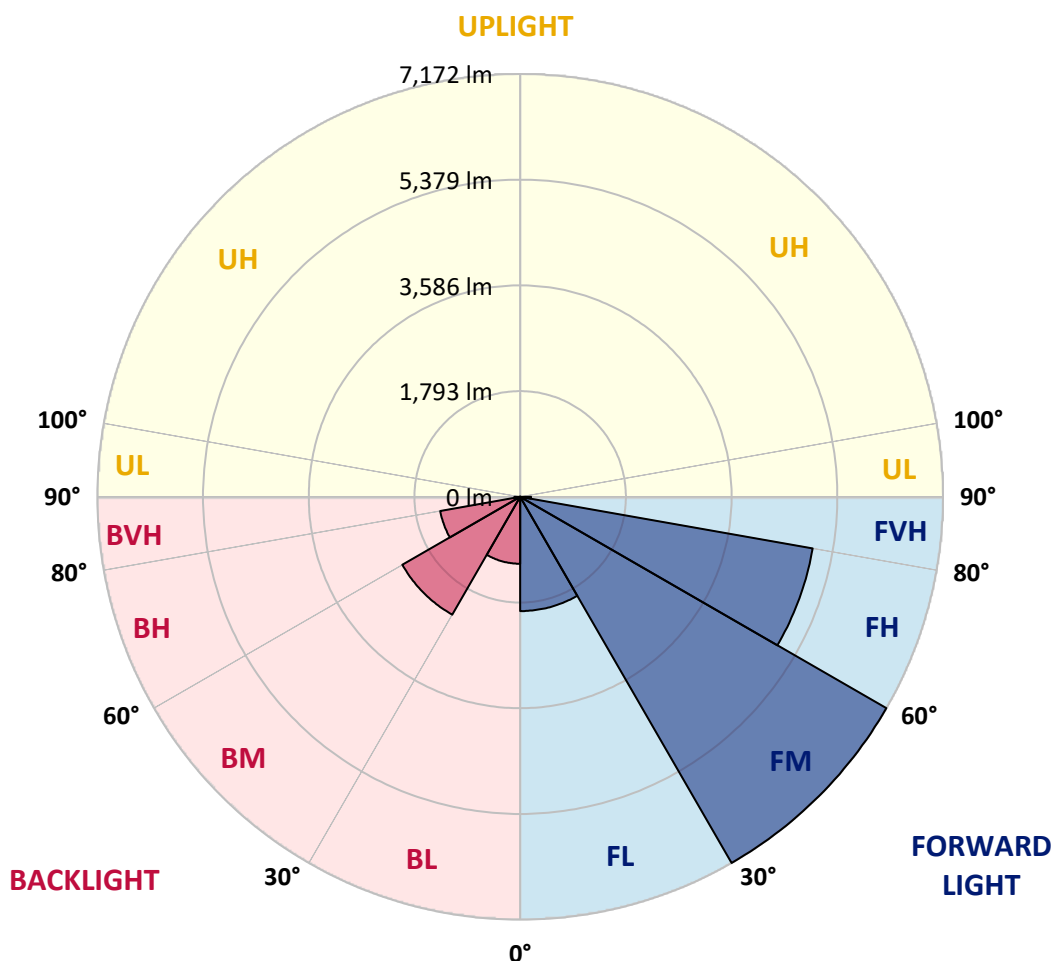
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1937.8	10.1			
FM	(30°-60°)	7171.9	37.3			
FH	(60°-80°)	5038.1	26.2			G3/7500
FVH	(80°-90°)	184.6	1.0			G2/225
BL	(0°-30°)	1136.0	5.9	B3/2500		
BM	(30°-60°)	2308.9	12.0	B2/2500		
BH	(60°-80°)	1376.2	7.1	B3/2500		G3/2500
BVH	(80°-90°)	98.5	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°	3455.2	3455.2	3455.2	3455.2	3455.2	3455.2	3455.2	3455.2	3455.2	3455.2	3455.2
2.5°	3677.4	3691.3	3668.6	3647.1	3625.7	3613.0	3591.6	3531.0	3509.5	3490.6	3452.7
5°	3868.1	3887.0	3854.2	3786.0	3769.6	3716.6	3687.5	3635.8	3614.3	3581.5	3518.4
7.5°	4091.5	4094.0	4047.3	4025.9	3971.6	3899.6	3807.5	3712.8	3681.2	3647.1	3567.6
10°	4221.5	4248.0	4202.6	4135.7	4097.8	4033.4	3936.2	3811.2	3741.8	3681.2	3592.8
12.5°	4404.6	4410.9	4337.7	4299.8	4249.3	4168.5	4073.8	3965.3	3897.1	3784.7	3624.4
15°	4538.4	4542.2	4476.5	4436.1	4388.2	4340.2	4237.9	4124.3	4057.4	3945.1	3701.4
17.5°	4634.3	4650.8	4610.4	4581.3	4530.8	4496.7	4415.9	4326.3	4239.2	4138.2	3861.7
20°	4739.1	4748.0	4673.5	4686.1	4677.3	4662.1	4624.2	4539.7	4469.0	4335.1	3990.5
22.5°	4768.2	4753.0	4773.2	4822.4	4846.4	4864.1	4852.7	4833.8	4769.4	4602.8	4234.2
25°	4725.2	4744.2	4792.1	4899.5	5033.3	5112.8	5169.6	5183.5	5164.6	5005.5	4559.9
27.5°	4713.9	4705.0	4783.3	4966.4	5191.1	5376.6	5489.0	5595.0	5547.1	5447.3	4927.2
30°	4665.9	4662.1	4799.7	4987.8	5276.9	5621.6	5822.3	6001.5	5978.8	5877.8	5357.7
32.5°	4548.5	4573.7	4679.8	5005.5	5408.2	5858.9	6103.8	6397.9	6432.0	6357.5	5793.2
35°	4397.0	4405.8	4575.0	4958.8	5510.5	6067.2	6423.2	6832.2	6911.7	6909.2	6283.1
37.5°	4205.1	4255.6	4436.1	4842.6	5554.6	6257.8	6730.0	7294.3	7453.3	7429.3	6772.9
40°	4013.2	4044.8	4258.1	4694.9	5558.4	6385.3	6990.0	7787.9	7964.6	7968.4	7330.9
42.5°	3725.4	3778.4	4001.9	4500.5	5473.9	6493.9	7248.8	8305.5	8506.2	8535.2	7848.5
45°	3485.5	3503.2	3701.4	4198.8	5290.8	6552.0	7536.6	8835.7	9160.1	9136.1	8297.9
47.5°	3175.0	3244.4	3454.0	3913.5	5004.2	6562.1	7786.6	9451.7	9853.2	9797.6	8910.2
50°	2456.7	2533.7	3104.3	3656.0	4641.9	6447.2	7987.3	10183.9	10510.9	10451.6	9431.5
52.5°	2166.3	2204.2	2435.2	3355.5	4265.7	6173.2	8147.7	10878.3	11235.5	11052.5	10041.3
55°	2042.6	2060.3	2165.0	2744.5	3933.7	5723.8	8239.8	11657.2	11857.9	11586.5	10609.4
57.5°	1908.8	1950.4	2003.5	2312.8	3563.8	5101.4	8183.0	12303.5	12336.4	12066.2	11094.1
60°	1782.5	1800.2	1910.0	2072.9	3138.4	4458.9	7862.3	12706.3	12822.4	12490.4	11677.4
62.5°	1670.2	1701.7	1766.1	1918.9	2854.3	3958.9	7291.7	12861.5	13076.1	12860.3	12071.3
65°	1564.1	1574.2	1647.5	1786.3	2540.0	3712.8	6962.2	12616.6	12965.0	12931.0	12244.2
67.5°	1439.2	1450.5	1514.9	1610.8	2147.4	3438.8	6103.8	12270.7	12563.6	12679.7	12145.7
70°	1276.3	1285.1	1360.9	1417.7	1800.2	3034.9	5125.4	11740.5	12057.4	11950.1	11484.2
72.5°	1089.5	1103.4	1164.0	1234.6	1497.2	2558.9	4014.5	10630.8	11356.7	11286.0	10502.1
75°	879.9	901.4	950.6	1035.2	1217.0	2032.5	2841.7	8602.1	10152.4	10258.4	9062.9
77.5°	416.6	438.1	482.2	552.9	737.3	1417.7	1555.3	4849.0	7906.5	8563.0	7296.8
80°	136.3	138.9	327.0	373.7	468.4	873.6	635.0	1581.8	2341.8	3960.2	3924.9
82.5°	73.2	79.5	176.7	217.1	234.8	234.8	185.6	698.1	985.9	1205.6	1396.2
85°	39.1	40.4	61.9	74.5	80.8	64.4	48.0	287.8	462.0	576.9	571.9
87.5°	16.4	17.7	18.9	16.4	13.9	8.8	6.3	5.0	5.0	5.0	5.0
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°	3455.2	3455.2	3455.2	3455.2	3455.2	3455.2	3455.2	3455.2	3455.2	3455.2	3455.2
2.5°	3433.8	3416.1	3407.3	3370.7	3330.3	3287.3	3253.3	3254.5	3281.0	3301.2	3300.0
5°	3472.9	3428.7	3374.4	3288.6	3253.3	3221.7	3183.8	3133.3	3149.7	3169.9	3185.1
7.5°	3494.4	3437.6	3364.3	3236.8	3178.8	3110.6	3075.3	3009.6	2981.8	3002.0	3002.0
10°	3486.8	3428.7	3302.5	3209.1	3095.5	2988.1	2917.5	2901.0	2877.1	2873.3	2872.0
12.5°	3537.3	3451.5	3264.6	3127.0	3023.5	2885.9	2810.1	2795.0	2800.0	2768.5	2773.5
15°	3586.5	3489.3	3231.8	3089.1	2928.8	2767.2	2706.6	2651.1	2676.3	2649.8	2656.1
17.5°	3674.9	3557.5	3214.1	3013.4	2807.6	2667.5	2558.9	2495.8	2493.3	2489.5	2479.4
20°	3775.9	3613.0	3211.6	2947.7	2709.2	2542.5	2387.2	2317.8	2267.3	2285.0	2286.2
22.5°	3958.9	3717.8	3238.1	2887.2	2571.5	2384.7	2225.6	2119.6	2059.0	2069.1	2070.4
25°	4219.0	3937.5	3307.5	2835.4	2456.7	2201.7	2045.1	1911.3	1838.1	1839.3	1859.5
27.5°	4596.5	4200.1	3418.6	2791.2	2334.2	2028.7	1816.6	1685.3	1605.8	1604.5	1618.4
30°	4970.1	4528.3	3577.7	2728.1	2178.9	1796.4	1556.6	1451.8	1402.5	1369.7	1377.3
32.5°	5340.0	4880.5	3784.7	2695.3	1997.1	1522.5	1321.8	1249.8	1187.9	1127.3	1133.7
35°	5759.2	5211.3	3993.0	2629.6	1778.7	1295.2	1155.1	1056.6	977.1	945.6	939.2
37.5°	6251.5	5596.3	4136.9	2574.1	1520.0	1142.5	972.1	898.8	847.1	813.0	807.9
40°	6685.8	5919.5	4296.0	2444.0	1271.3	1004.9	811.7	772.6	766.3	739.8	736.0
42.5°	7125.1	6315.9	4404.6	2273.6	1100.8	829.4	694.3	717.1	752.4	736.0	736.0
45°	7573.3	6730.0	4426.0	2018.6	938.0	701.9	665.3	708.2	757.5	761.2	760.0
47.5°	8064.3	7097.3	4467.7	1653.8	821.8	669.1	660.2	695.6	758.7	781.4	776.4
50°	8621.1	7495.0	4351.6	1261.2	752.4	672.9	665.3	681.7	749.9	775.1	766.3
52.5°	9162.6	7877.5	4159.7	962.0	708.2	676.7	691.8	679.2	728.4	753.7	763.8
55°	9665.1	8299.1	3753.2	855.9	677.9	671.6	713.3	690.5	708.2	715.8	729.7
57.5°	10173.8	8609.7	3321.4	802.9	661.5	665.3	700.6	690.5	701.9	693.1	681.7
60°	10651.0	8936.7	2764.7	753.7	643.8	661.5	675.4	672.9	680.4	664.0	656.5
62.5°	11056.3	9113.4	2182.7	710.7	628.7	643.8	641.3	653.9	655.2	636.3	631.2
65°	11241.8	9189.2	1666.4	671.6	606.0	621.1	608.5	611.0	612.3	587.0	585.8
67.5°	11053.7	8772.6	1142.5	613.5	582.0	600.9	576.9	573.1	564.3	539.1	540.3
70°	10504.6	8077.0	762.5	530.2	530.2	563.0	549.2	540.3	518.9	494.9	502.4
72.5°	9277.5	6895.3	494.9	428.0	465.8	518.9	512.5	499.9	449.4	381.3	383.8
75°	7935.6	5472.6	329.5	311.8	356.0	449.4	426.7	396.4	376.2	397.7	424.2
77.5°	6179.5	3489.3	184.3	179.3	210.8	315.6	356.0	362.3	512.5	608.5	602.2
80°	3207.8	1772.4	107.3	88.4	125.0	212.1	280.3	381.3	636.3	479.7	464.6
82.5°	1261.2	664.0	65.6	46.7	55.5	87.1	185.6	547.9	482.2	242.4	232.3
85°	431.7	150.2	26.5	24.0	26.5	36.6	73.2	491.1	250.0	154.0	146.4
87.5°	5.0	5.0	6.3	7.6	8.8	8.8	20.2	233.5	116.1	72.0	69.4
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)