

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: P553635

Luminaire Tested: **VERD-G-CA2-160-760-U-T3**

Issue Date: 7/12/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P553635  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/12/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-G-CA2-160-760-U-T3  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5700K, 1460mA LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22642 lumens  
Efficiency: N/A  
Efficacy: 139.2 lumens/watt  
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

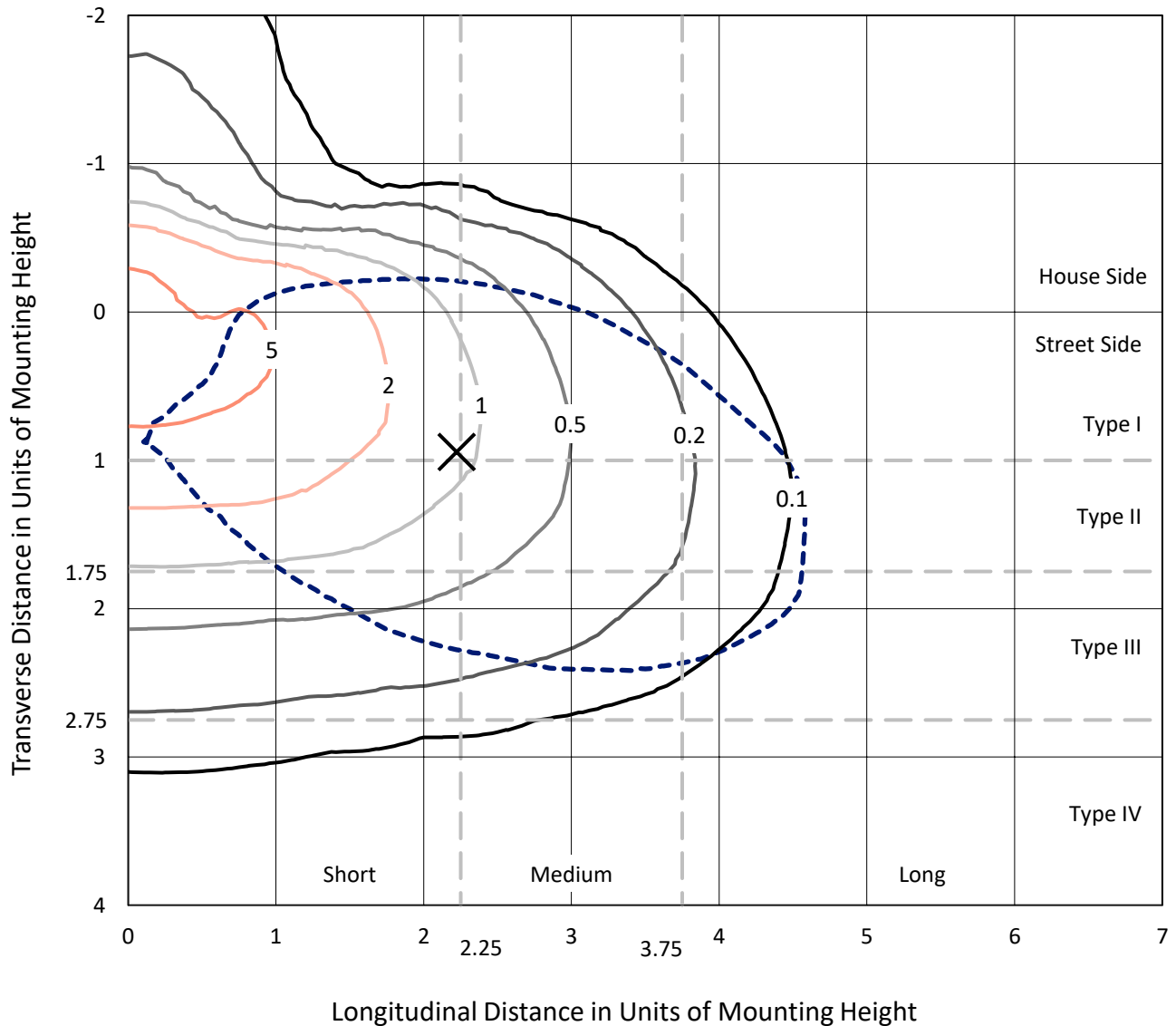
Input Watts (W): 162.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

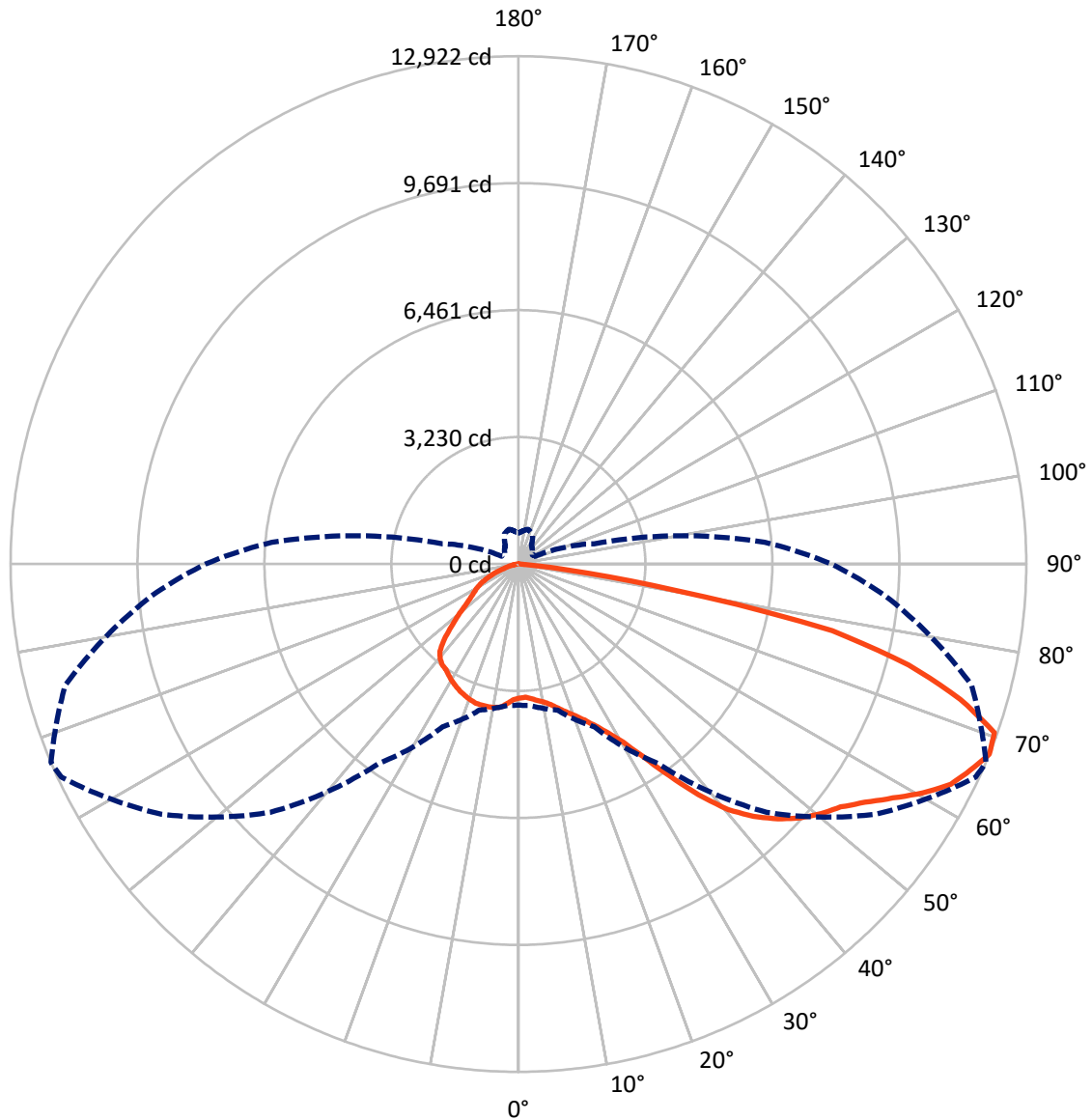
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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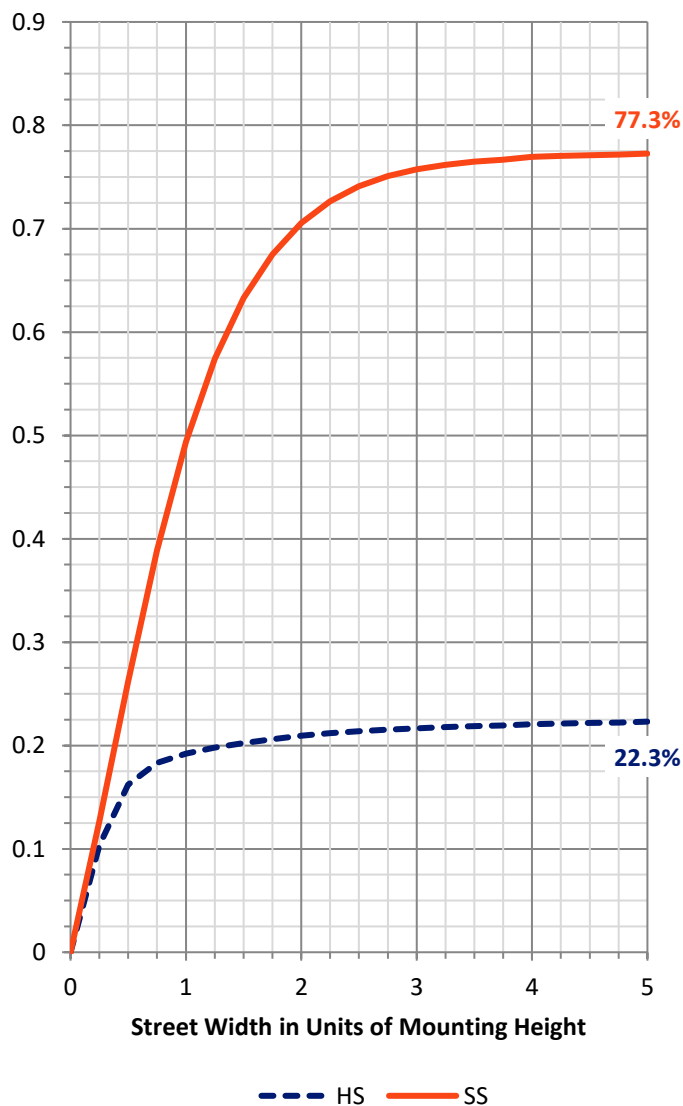
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5137.6	0.0	5137.6
	% Fixture	22.7	0.0	22.7
<b>Street Side</b>	Lumens	17504.4	0.0	17504.4
	% Fixture	77.3	0.0	77.3
<b>Total</b>	Lumens	22642.0	0.0	22642.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	345.8	1.5
10°-20°	1094.4	4.8
20°-30°	1877.0	8.3
30°-40°	2793.4	12.3
40°-50°	3819.2	16.9
50°-60°	4587.6	20.3
60°-70°	4866.8	21.5
70°-80°	2973.1	13.1
80°-90°	284.7	1.3
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°	22642.0	100.0
0°-180°	22642.0	100.0

**Coefficient of Utilization**



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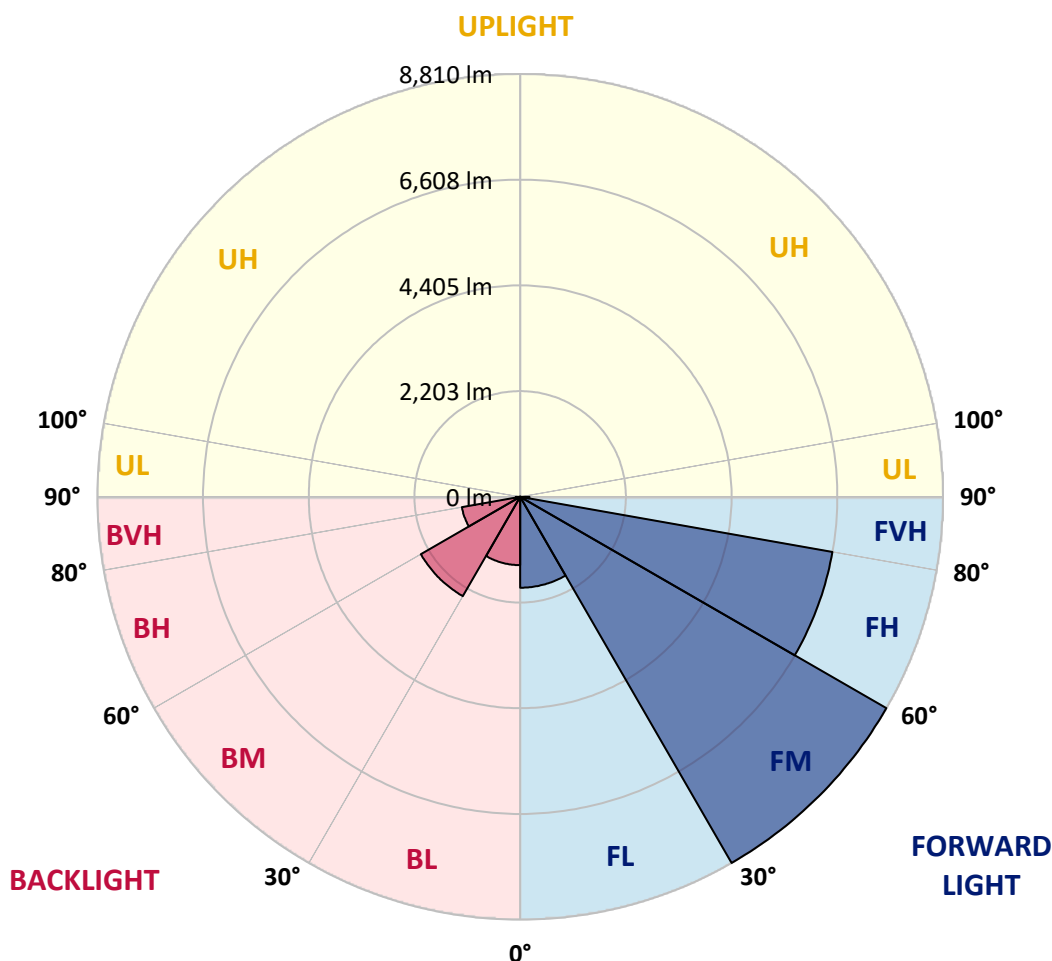
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1893.8	8.4			
FM (30°-60°)	8810.5	38.9			
FH (60°-80°)	6606.3	29.2			G3/7500
FVH (80°-90°)	193.9	0.9			G2/225
BL (0°-30°)	1423.4	6.3	B3/2500		
BM (30°-60°)	2389.8	10.6	B2/2500		
BH (60°-80°)	1233.6	5.4	B3/2500		G3/2500
BVH (80°-90°)	90.8	0.4			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3413.8	3413.8	3413.8	3413.8	3413.8	3413.8	3413.8	3413.8	3413.8	3413.8	3413.8
2.5°	3467.8	3484.3	3457.3	3439.3	3419.8	3430.3	3404.8	3404.8	3392.8	3412.3	3400.3
5°	3580.3	3595.3	3548.8	3511.3	3508.3	3476.8	3473.8	3458.8	3440.8	3457.3	3473.8
7.5°	3730.3	3724.3	3691.3	3647.8	3604.3	3586.3	3556.3	3533.8	3506.8	3521.8	3526.3
10°	3913.3	3902.8	3859.3	3790.3	3755.8	3706.3	3631.3	3589.3	3569.8	3584.8	3589.3
12.5°	4108.3	4094.8	4052.8	3976.3	3916.3	3838.3	3752.8	3685.3	3671.8	3656.8	3682.3
15°	4327.2	4303.2	4267.2	4205.7	4112.8	4010.8	3893.8	3829.3	3809.8	3784.3	3772.3
17.5°	4564.2	4561.2	4514.7	4447.2	4352.7	4211.7	4061.8	3961.3	3961.3	3950.8	3886.3
20°	4819.2	4807.2	4760.7	4723.2	4589.7	4441.2	4258.2	4130.8	4117.3	4096.3	3989.8
22.5°	5075.7	5077.2	5017.2	4988.7	4889.7	4699.2	4468.2	4340.7	4313.7	4285.2	4100.8
25°	5308.2	5311.2	5293.2	5240.7	5159.7	4984.2	4742.7	4573.2	4558.2	4519.2	4295.7
27.5°	5543.7	5581.2	5528.7	5534.7	5498.7	5297.7	5056.2	4850.7	4865.7	4780.2	4474.2
30°	5822.7	5836.2	5810.7	5818.2	5795.7	5663.7	5429.7	5263.2	5263.2	5165.7	4777.2
32.5°	6046.1	6034.1	6035.6	6113.6	6124.1	6052.1	5860.2	5806.2	5852.7	5840.7	5491.2
35°	6157.1	6178.1	6236.6	6415.1	6502.1	6458.6	6436.1	6508.1	6625.1	6700.1	6271.1
37.5°	6299.6	6364.1	6437.6	6637.1	6797.6	6917.6	7040.6	7277.6	7445.6	7543.1	7012.1
40°	6446.6	6452.6	6599.6	6847.1	7160.6	7351.1	7643.5	8051.5	8216.5	8143.0	7423.1
42.5°	6332.6	6347.6	6551.6	6992.6	7385.6	7873.0	8189.5	8660.5	8774.5	8551.0	7847.5
45°	6185.6	6214.1	6472.1	6992.6	7633.0	8351.5	8713.0	9237.9	9251.4	8950.0	8104.0
47.5°	6055.1	6079.1	6350.6	6938.6	7865.5	8771.5	9134.5	9561.9	9653.4	9275.4	8444.5
50°	5881.1	5941.1	6208.1	6890.6	7973.5	9064.0	9507.9	9951.9	9983.4	9582.9	8699.5
52.5°	5692.2	5744.7	6073.1	6800.6	8111.5	9305.4	9755.4	10326.9	10268.4	9993.9	8986.0
55°	5437.2	5483.7	5863.2	6656.6	8128.0	9435.9	9933.9	10674.9	10697.4	10335.9	9263.4
57.5°	5144.7	5222.7	5567.7	6389.6	7976.5	9474.9	10241.4	11145.8	11232.8	10758.9	9485.4
60°	4828.2	4889.7	5281.2	6106.1	7775.5	9621.9	10662.9	11756.3	11825.3	11127.8	9575.4
62.5°	4504.2	4555.2	4879.2	5680.2	7406.6	9650.4	11030.3	12369.8	12347.3	11456.3	9699.9
65°	4100.8	4105.3	4411.2	5165.7	6893.6	9446.4	11219.3	12618.7	12641.2	11754.8	9557.4
67.5°	3587.8	3616.3	3848.8	4565.7	6194.6	8933.5	11099.3	12833.2	12921.7	11939.3	9375.9
70°	2857.3	2873.8	3116.8	3784.3	5266.2	8140.0	10871.4	12866.2	12846.7	11700.8	8876.5
72.5°	2032.4	2095.4	2258.9	2660.8	4040.8	6662.6	9840.9	11847.8	11757.8	10779.9	7918.0
75°	1306.4	1312.4	1475.9	1738.4	2365.4	4723.2	8203.0	10212.9	10250.4	9350.4	6446.6
77.5°	432.0	487.5	541.5	733.5	980.9	1966.4	5537.7	8050.0	8164.0	7366.1	4399.2
80°	190.5	190.5	322.5	415.5	529.5	842.9	2209.4	3643.3	3992.8	3434.8	1694.9
82.5°	139.5	142.5	216.0	247.5	208.5	351.0	793.5	1166.9	1237.4	1111.4	673.5
85°	79.5	82.5	93.0	106.5	88.5	142.5	175.5	180.0	181.5	157.5	123.0
87.5°	36.0	36.0	33.0	28.5	16.5	10.5	10.5	7.5	9.0	7.5	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°	3413.8	3413.8	3413.8	3413.8	3413.8	3413.8	3413.8	3413.8	3413.8	3413.8	3413.8
2.5°	3395.8	3410.8	3443.8	3449.8	3464.8	3487.3	3515.8	3529.3	3574.3	3595.3	3601.3
5°	3476.8	3484.3	3541.3	3560.8	3628.3	3662.8	3692.8	3713.8	3769.3	3782.8	3806.8
7.5°	3538.3	3563.8	3632.8	3676.3	3718.3	3754.3	3751.3	3800.8	3829.3	3851.8	3860.8
10°	3601.3	3614.8	3685.3	3704.8	3736.3	3763.3	3770.8	3784.3	3791.8	3823.3	3833.8
12.5°	3698.8	3689.8	3698.8	3715.3	3740.8	3734.8	3751.3	3731.8	3742.3	3782.8	3767.8
15°	3770.8	3749.8	3710.8	3712.3	3695.8	3688.3	3664.3	3647.8	3646.3	3655.3	3670.3
17.5°	3851.8	3790.3	3718.3	3698.8	3637.3	3577.3	3535.3	3490.3	3482.8	3491.8	3481.3
20°	3922.3	3839.8	3715.3	3653.8	3533.8	3425.8	3364.3	3296.8	3293.8	3287.8	3275.8
22.5°	4007.8	3904.3	3713.8	3589.3	3446.8	3272.8	3145.3	3094.3	3032.8	3056.8	3053.8
25°	4135.3	4006.3	3727.3	3520.3	3289.3	3082.3	2918.8	2806.3	2744.8	2731.3	2737.3
27.5°	4292.7	4121.8	3734.8	3433.3	3145.3	2849.8	2590.3	2420.9	2383.4	2333.9	2338.4
30°	4522.2	4279.2	3770.8	3337.3	2933.8	2552.8	2243.9	2023.4	1960.4	1970.9	1973.9
32.5°	5063.7	4603.2	3796.3	3226.3	2701.3	2224.4	1820.9	1600.4	1550.9	1568.9	1579.4
35°	5774.7	5224.2	3935.8	3083.8	2437.4	1840.4	1396.4	1271.9	1282.4	1316.9	1325.9
37.5°	6479.6	5882.6	4243.2	2959.3	2099.9	1408.4	1114.4	1040.9	1102.4	1135.4	1145.9
40°	6913.1	6320.6	4582.2	2767.3	1670.9	1034.9	848.9	807.0	877.4	953.9	991.4
42.5°	7351.1	6679.1	4802.7	2533.3	1195.4	753.0	631.5	666.0	781.5	857.9	875.9
45°	7630.0	6863.6	4823.7	2161.4	796.5	583.5	576.0	649.5	768.0	829.5	839.9
47.5°	7901.5	7111.1	4735.2	1730.9	600.0	555.0	571.5	657.0	774.0	842.9	841.4
50°	8171.5	7354.1	4543.2	1373.9	567.0	537.0	580.5	672.0	784.5	837.0	837.0
52.5°	8336.5	7474.1	4157.8	1093.4	546.0	526.5	585.0	678.0	774.0	804.0	799.5
55°	8534.5	7502.6	3898.3	910.4	523.5	519.0	594.0	694.5	772.5	775.5	765.0
57.5°	8638.0	7432.1	3686.8	774.0	504.0	522.0	604.5	699.0	816.0	851.9	857.9
60°	8593.0	7346.6	3446.8	688.5	486.0	517.5	601.5	733.5	950.9	1025.9	1012.4
62.5°	8549.5	7186.1	3043.3	618.0	466.5	520.5	598.5	813.0	1117.4	1039.4	997.4
65°	8392.0	6853.1	2518.3	550.5	442.5	522.0	592.5	898.4	1144.4	1049.9	977.9
67.5°	7960.0	6298.1	1991.9	478.5	414.0	501.0	579.0	844.4	916.4	825.0	786.0
70°	7316.6	5494.2	1366.4	414.0	379.5	475.5	570.0	799.5	860.9	796.5	747.0
72.5°	6278.6	4316.7	757.5	346.5	333.0	444.0	568.5	789.0	866.9	682.5	628.5
75°	4774.2	2863.3	492.0	271.5	273.0	396.0	541.5	753.0	839.9	642.0	568.5
77.5°	2812.3	1205.9	343.5	193.5	213.0	307.5	481.5	721.5	795.0	628.5	568.5
80°	955.4	531.0	223.5	130.5	130.5	196.5	343.5	589.5	708.0	612.0	606.0
82.5°	496.5	337.5	142.5	81.0	75.0	94.5	211.5	405.0	568.5	519.0	591.0
85°	99.0	70.5	45.0	33.0	36.0	48.0	75.0	205.5	360.0	400.5	480.0
87.5°	7.5	6.0	9.0	9.0	9.0	9.0	10.5	51.0	144.0	177.0	219.0
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)