

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: P509911

Luminaire Tested: **VERD-M-CA3-160-760-U-T3**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509911  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-M-CA3-160-760-U-T3  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5700K, 1000mA LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23294 lumens  
Efficiency: N/A  
Efficacy: 143.2 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G3

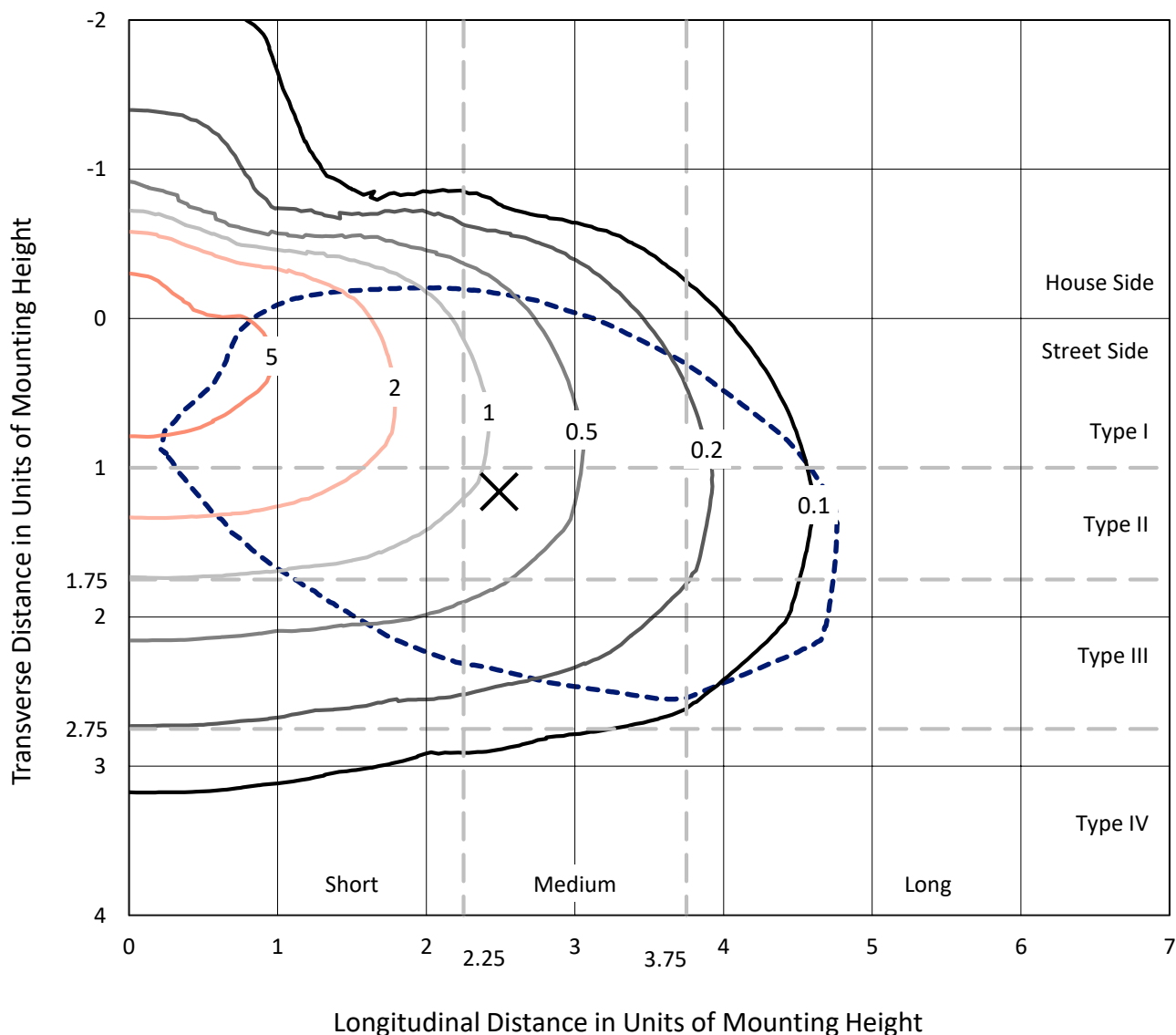
Input Watts (W): 162.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

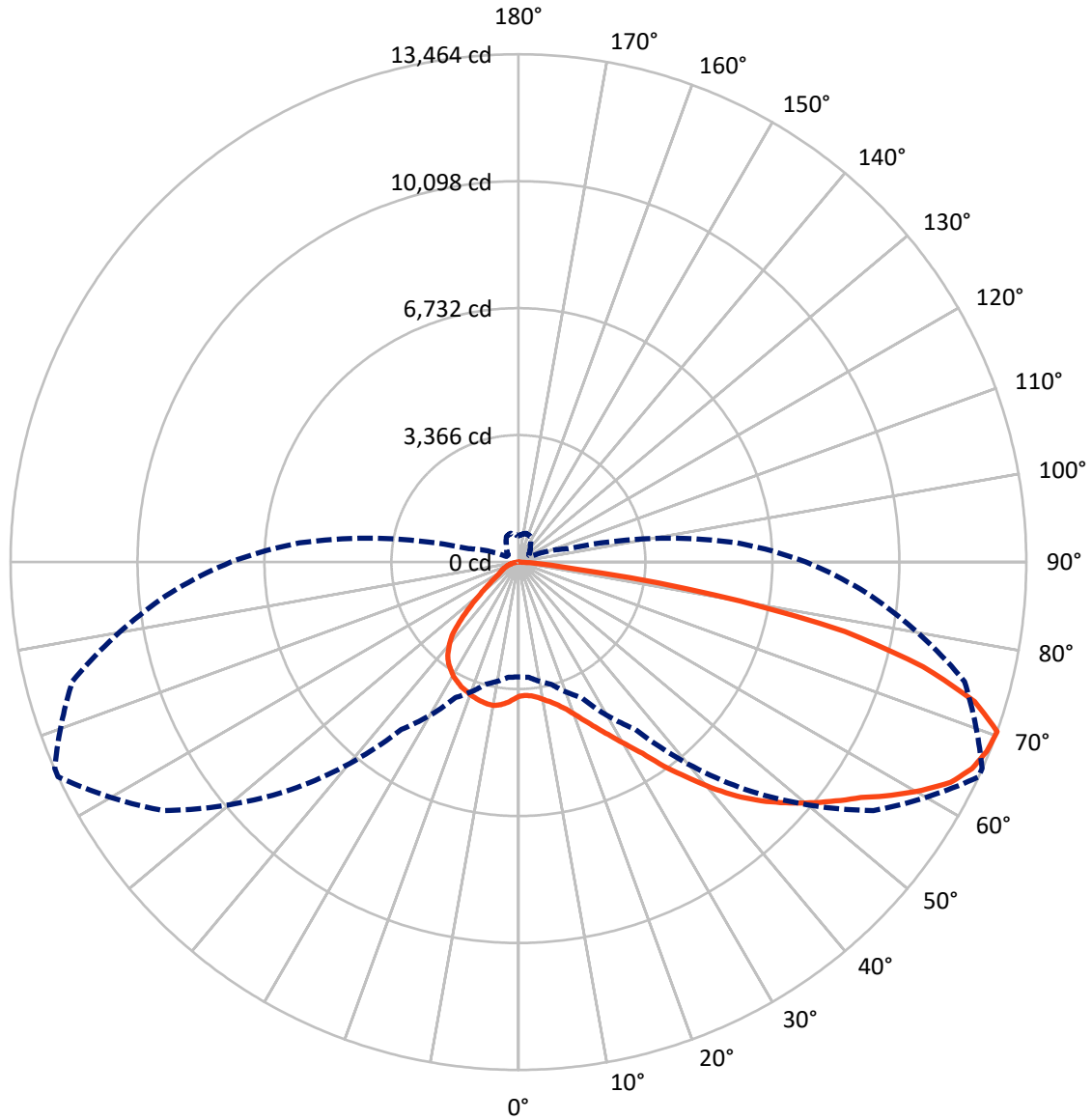
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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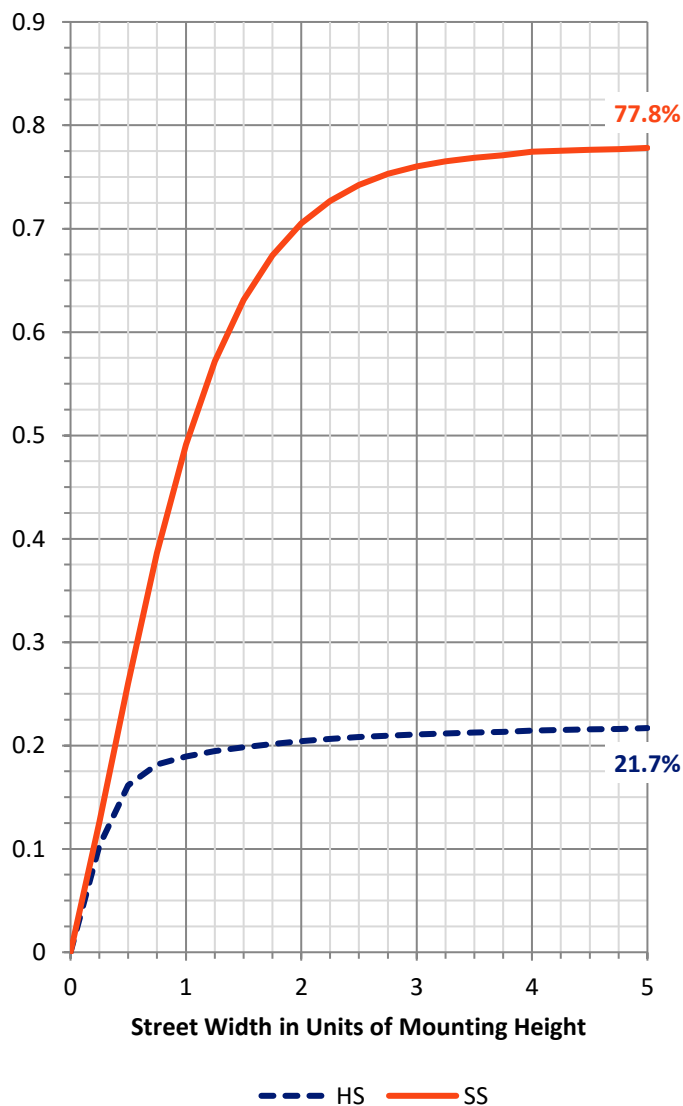
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5138.4	0.0	5138.4
	% Fixture	22.1	0.0	22.1
<b>Street Side</b>	Lumens	18155.6	0.0	18155.6
	% Fixture	77.9	0.0	77.9
<b>Total</b>	Lumens	23294.0	0.0	23294.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	356.8	1.5
10°-20°	1127.6	4.8
20°-30°	1956.1	8.4
30°-40°	2844.1	12.2
40°-50°	3799.8	16.3
50°-60°	4628.5	19.9
60°-70°	4989.6	21.4
70°-80°	3234.9	13.9
80°-90°	356.8	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°	23294.0	100.0
0°-180°	23294.0	100.0

**Coefficient of Utilization**



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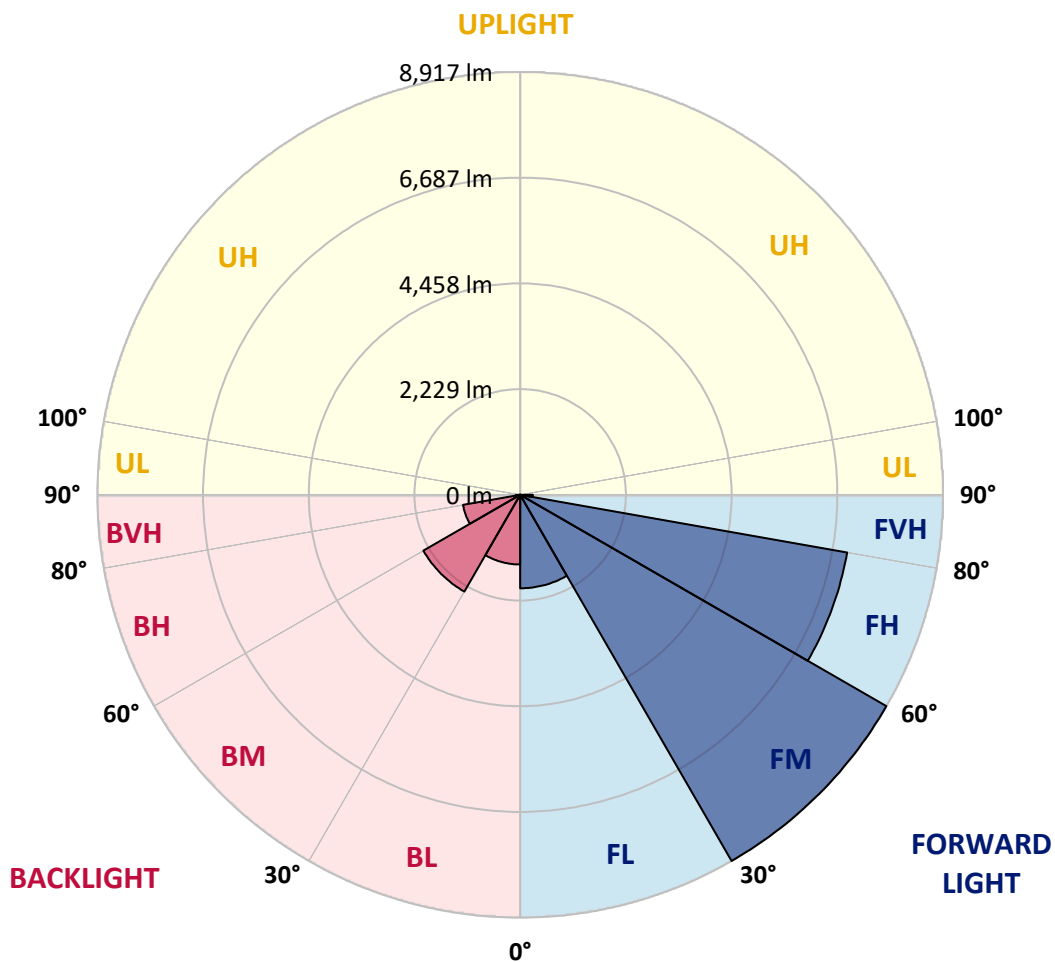
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1971.3	8.5			
FM (30°-60°)	8916.5	38.3			
FH (60°-80°)	7001.6	30.1			G3/7500
FVH (80°-90°)	266.1	1.1			G3/500
BL (0°-30°)	1469.1	6.3	B3/2500		
BM (30°-60°)	2355.8	10.1	B2/2500		
BH (60°-80°)	1222.9	5.2	B3/2500		G3/2500
BVH (80°-90°)	90.7	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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3556.3	3556.3	3556.3	3556.3	3556.3	3556.3	3556.3	3556.3	3556.3	3556.3	3556.3
2.5°	3503.8	3535.3	3518.5	3519.6	3543.7	3523.8	3537.4	3537.4	3536.4	3543.7	3565.8
5°	3589.9	3623.5	3603.6	3591.0	3596.2	3571.0	3565.8	3561.6	3558.4	3566.8	3603.6
7.5°	3716.0	3754.8	3732.8	3721.2	3714.9	3657.2	3646.7	3618.3	3615.1	3622.5	3656.1
10°	3883.0	3935.5	3909.2	3876.7	3854.6	3787.4	3733.8	3708.6	3701.3	3697.1	3731.7
12.5°	4123.5	4169.7	4139.2	4078.3	4048.9	3940.7	3876.7	3805.3	3804.2	3789.5	3815.8
15°	4351.4	4399.7	4360.9	4301.0	4262.1	4116.1	4021.6	3933.4	3922.9	3906.1	3914.5
17.5°	4572.0	4630.8	4603.5	4548.9	4501.6	4338.8	4214.9	4101.4	4089.9	4063.6	4024.8
20°	4846.1	4899.7	4892.3	4843.0	4790.4	4605.6	4470.1	4324.1	4311.5	4264.2	4177.1
22.5°	5120.2	5186.4	5145.4	5137.0	5107.6	4923.8	4734.8	4586.7	4574.1	4512.1	4352.5
25°	5378.6	5437.4	5452.1	5438.5	5441.6	5259.9	5071.9	4886.0	4873.4	4789.4	4558.3
27.5°	5684.2	5739.9	5744.1	5747.3	5784.0	5632.8	5412.2	5221.1	5212.7	5118.1	4825.1
30°	5918.5	6010.9	6029.8	6047.6	6066.6	5985.7	5785.1	5606.5	5589.7	5486.8	5125.5
32.5°	6132.7	6202.0	6269.3	6306.0	6391.1	6318.6	6153.7	6043.4	6044.5	5996.2	5604.4
35°	6298.7	6375.3	6460.4	6594.9	6718.8	6688.3	6636.9	6643.2	6644.2	6665.2	6250.4
37.5°	6457.3	6526.6	6633.7	6794.4	7012.9	7052.8	7087.5	7218.7	7265.0	7363.7	6846.9
40°	6552.8	6626.4	6765.0	6987.7	7271.3	7415.1	7520.2	7857.3	7937.1	7938.2	7308.0
42.5°	6413.2	6494.0	6741.9	7137.9	7504.4	7773.3	8049.5	8474.9	8532.7	8403.5	7701.9
45°	6288.2	6362.7	6629.5	7161.0	7687.2	8155.6	8540.0	9032.6	9074.6	8814.1	8065.3
47.5°	6167.4	6226.2	6535.0	7112.7	7874.1	8539.0	8958.0	9536.8	9567.2	9263.7	8420.3
50°	6000.4	6070.8	6398.5	7055.9	7986.5	8867.7	9367.7	10034.6	10030.4	9668.0	8741.7
52.5°	5817.6	5887.0	6238.8	6952.0	8060.0	9122.9	9834.0	10521.9	10525.1	10132.3	9059.9
55°	5587.6	5672.7	6043.4	6811.2	8077.9	9323.5	10238.4	11021.9	11073.4	10606.0	9366.6
57.5°	5312.4	5397.5	5802.9	6605.4	7971.8	9491.6	10670.0	11660.5	11687.8	11090.2	9595.6
60°	4992.1	5095.0	5482.6	6330.2	7769.1	9687.0	11193.1	12286.5	12295.9	11522.9	9786.7
62.5°	4621.3	4694.9	5102.4	5931.1	7445.6	9764.7	11625.8	12861.0	12863.1	11849.5	9872.9
65°	4220.1	4248.5	4589.8	5388.1	6974.0	9637.6	11791.8	13210.7	13201.3	12136.3	9829.8
67.5°	3742.2	3728.6	4093.0	4716.9	6377.4	9214.3	11710.9	13390.3	13418.7	12356.8	9691.2
70°	3042.7	3062.7	3352.6	3965.9	5414.3	8534.8	11488.2	13463.8	13456.5	12246.5	9244.8
72.5°	2309.6	2345.3	2555.4	3015.4	4202.3	7177.8	10534.5	12650.9	12665.6	11469.3	8441.3
75°	1428.4	1531.3	1708.8	1989.3	2633.1	5142.3	8966.4	11081.8	11156.3	10119.7	6950.9
77.5°	626.0	650.1	739.4	958.9	1376.9	2581.6	6628.5	8849.9	9070.4	8184.0	5014.2
80°	387.6	387.6	412.8	481.0	614.4	960.0	2656.2	5284.1	5060.4	4681.2	2211.9
82.5°	322.4	322.4	335.0	346.6	315.1	406.5	888.6	1480.9	1587.0	1284.5	679.5
85°	175.4	179.6	180.7	183.8	180.7	219.5	349.8	438.0	443.2	401.2	241.6
87.5°	64.1	68.3	66.2	62.0	55.7	52.5	67.2	68.3	70.4	65.1	35.7
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°	3556.3	3556.3	3556.3	3556.3	3556.3	3556.3	3556.3	3556.3	3556.3	3556.3	3556.3
2.5°	3580.5	3595.2	3634.1	3637.2	3651.9	3657.2	3669.8	3687.6	3719.1	3703.4	3685.5
5°	3621.4	3640.4	3702.3	3733.8	3774.8	3798.9	3838.9	3858.8	3907.1	3891.4	3889.3
7.5°	3683.4	3723.3	3779.0	3809.5	3863.0	3878.8	3908.2	3908.2	3948.1	3928.1	3922.9
10°	3767.4	3793.7	3852.5	3854.6	3885.1	3885.1	3919.7	3897.7	3936.5	3913.4	3912.4
12.5°	3834.7	3849.4	3871.4	3853.6	3869.3	3851.5	3869.3	3843.1	3867.2	3837.8	3831.5
15°	3910.3	3890.3	3868.3	3826.3	3812.6	3784.2	3769.5	3742.2	3744.3	3710.7	3705.5
17.5°	3995.4	3943.9	3879.8	3788.4	3738.0	3665.6	3635.1	3596.2	3574.2	3543.7	3557.4
20°	4098.3	4021.6	3888.2	3746.4	3639.3	3529.0	3457.6	3394.6	3389.3	3362.0	3347.3
22.5°	4231.7	4108.8	3925.0	3686.6	3514.3	3356.8	3250.7	3145.7	3135.2	3079.5	3058.5
25°	4396.6	4224.3	3943.9	3640.4	3368.3	3152.0	2985.0	2839.0	2768.6	2709.8	2696.1
27.5°	4618.2	4394.5	3981.7	3557.4	3196.1	2897.8	2658.3	2465.1	2381.0	2351.6	2321.2
30°	4877.6	4602.4	4052.1	3488.1	2992.3	2573.2	2281.3	2051.2	1959.9	1913.7	1898.9
32.5°	5259.9	4865.0	4117.2	3373.6	2745.5	2216.1	1835.9	1581.8	1526.1	1517.7	1537.6
35°	5816.6	5358.6	4211.7	3267.5	2455.6	1819.1	1399.0	1233.1	1221.5	1223.6	1223.6
37.5°	6396.4	5829.2	4492.1	3111.0	2100.6	1369.6	1065.0	974.7	978.9	978.9	977.8
40°	6774.5	6207.3	4695.9	2889.4	1659.5	982.0	789.8	721.6	751.0	790.9	811.9
42.5°	7191.4	6550.7	4836.6	2634.2	1154.3	694.3	574.5	598.7	684.8	745.7	754.1
45°	7546.4	6842.7	4852.4	2237.1	743.6	527.3	524.1	593.4	693.2	759.4	764.6
47.5°	7851.0	7108.5	4753.7	1783.4	542.0	492.6	524.1	611.3	701.6	742.6	746.8
50°	8146.2	7319.6	4521.6	1370.6	493.6	480.0	530.4	614.4	671.1	699.5	695.3
52.5°	8408.7	7511.8	4185.5	1069.2	474.7	471.6	535.7	611.3	647.0	644.9	641.7
55°	8608.3	7568.5	3922.9	833.9	459.0	466.3	538.8	614.4	640.7	621.8	617.6
57.5°	8711.2	7498.1	3702.3	662.7	442.2	461.1	547.2	613.4	659.6	695.3	693.2
60°	8709.1	7418.3	3430.3	571.4	425.4	456.9	560.9	665.9	832.9	866.5	867.6
62.5°	8675.5	7281.8	3057.4	516.7	406.5	459.0	570.3	756.2	948.4	921.1	899.1
65°	8564.2	7025.5	2557.5	457.9	382.3	461.1	566.1	818.2	869.7	772.0	758.3
67.5°	8254.3	6529.7	2008.2	409.6	360.3	449.5	573.5	760.4	799.3	737.3	717.4
70°	7625.2	5831.3	1361.2	352.9	335.0	432.7	556.7	747.8	788.8	725.8	696.4
72.5°	6628.5	4680.2	796.1	303.5	298.3	398.1	548.3	756.2	801.4	731.0	693.2
75°	5159.1	3281.1	460.0	245.8	248.9	367.6	503.1	713.2	794.0	739.4	690.0
77.5°	3330.5	1593.3	324.5	196.4	194.3	289.9	408.6	623.9	764.6	746.8	705.8
80°	1192.1	581.9	227.9	146.0	141.8	196.4	314.0	502.0	647.0	670.1	670.1
82.5°	428.5	292.0	146.0	89.3	88.2	125.0	234.2	381.3	469.5	529.4	544.1
85°	179.6	127.1	71.4	45.2	36.8	48.3	120.8	236.3	318.2	342.4	372.9
87.5°	26.3	23.1	18.9	14.7	12.6	12.6	15.8	68.3	113.4	162.8	201.7
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)