

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: P510005

Luminaire Tested: **VERD-M-CA3-180-760-U-T2**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510005  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-M-CA3-180-760-U-T2  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5700K, 1120mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25432 lumens  
Efficiency: N/A  
Efficacy: 138.9 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

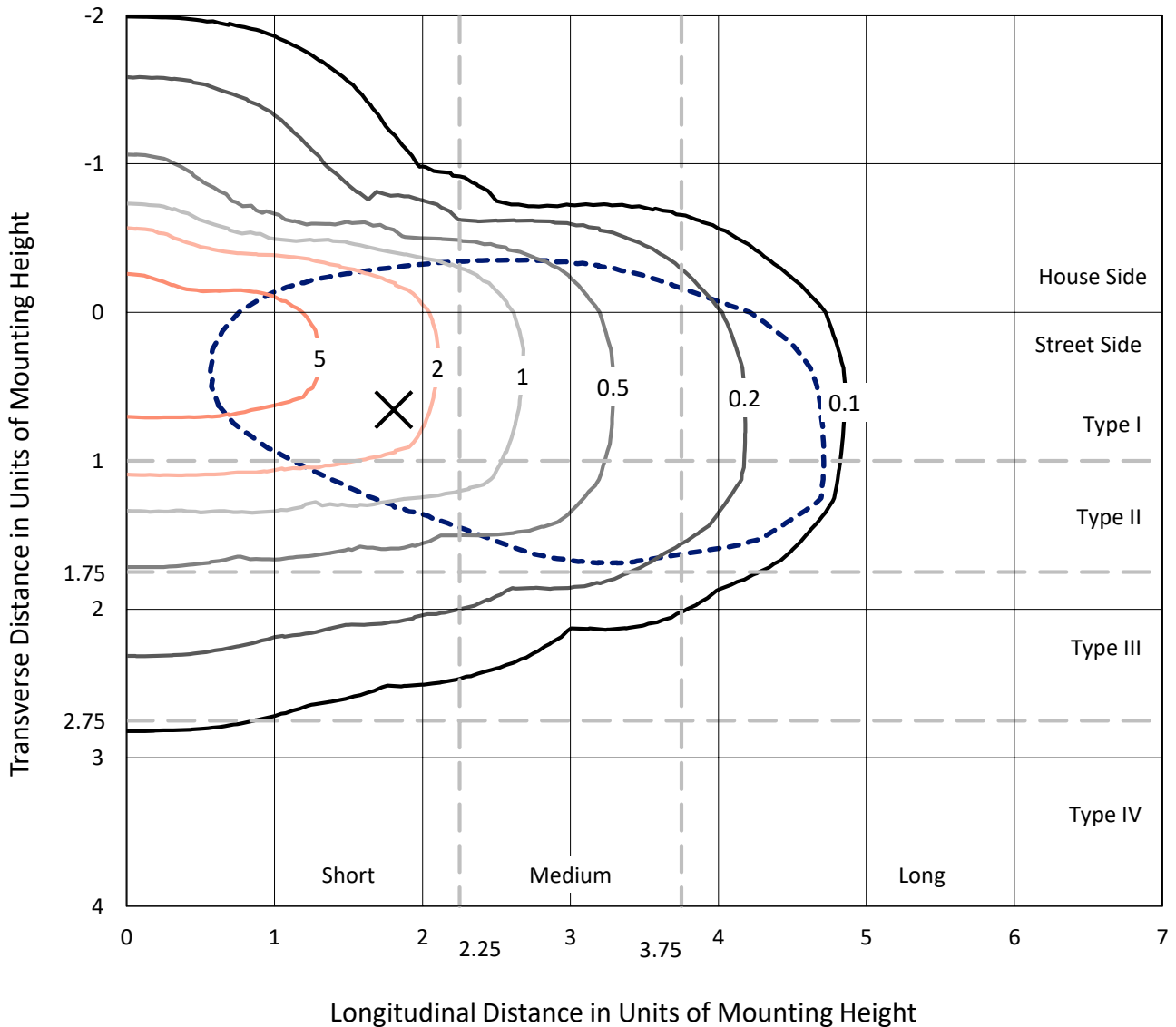
Input Watts (W): 183.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

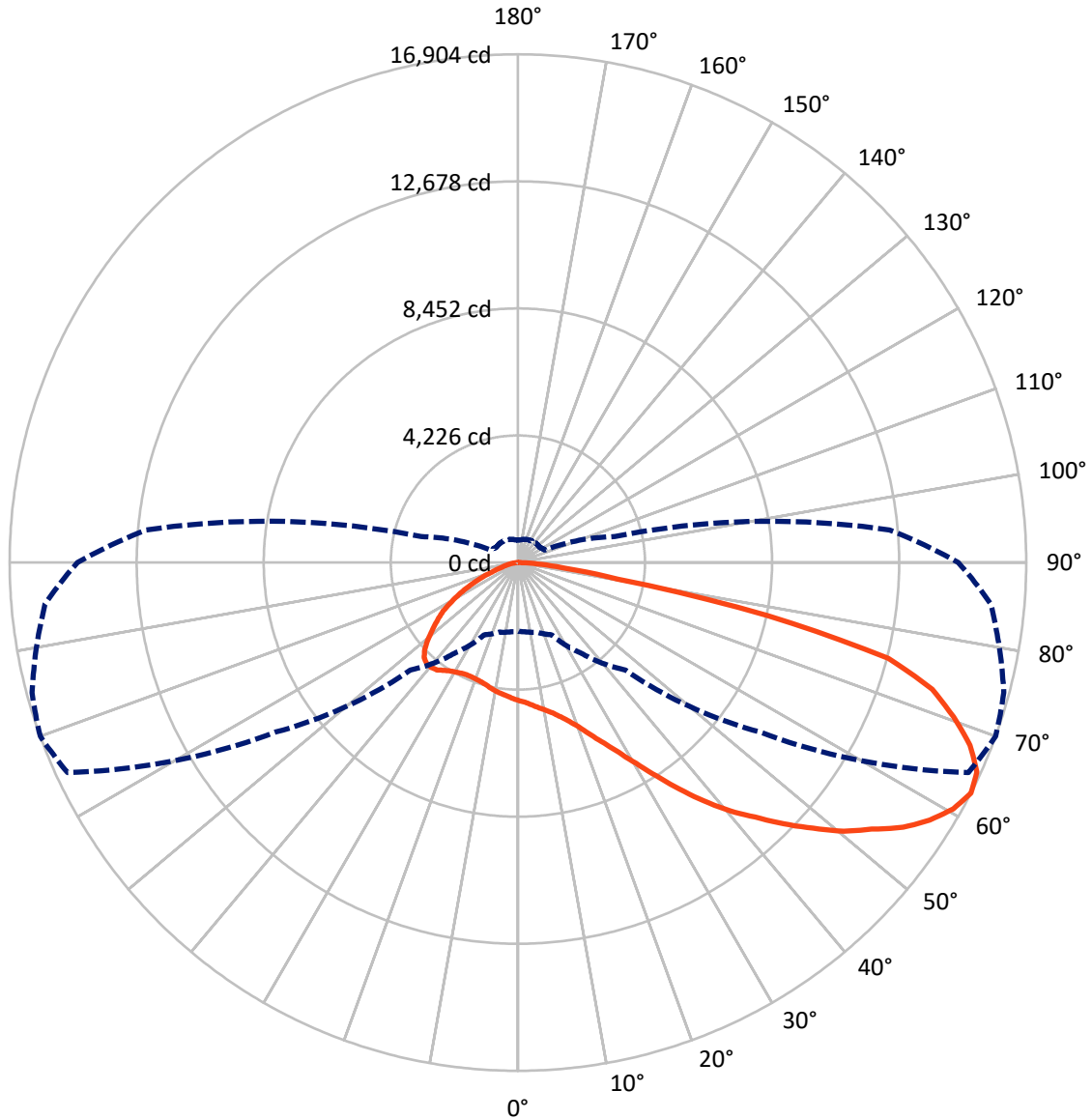
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc  
 Type II - Short - N/A

REPORT NUMBER: P510005  
CATALOG NUMBER: VERD-M-CA3-180-760-U-T2

### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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CATALOG NUMBER: VERD-M-CA3-180-760-U-T2

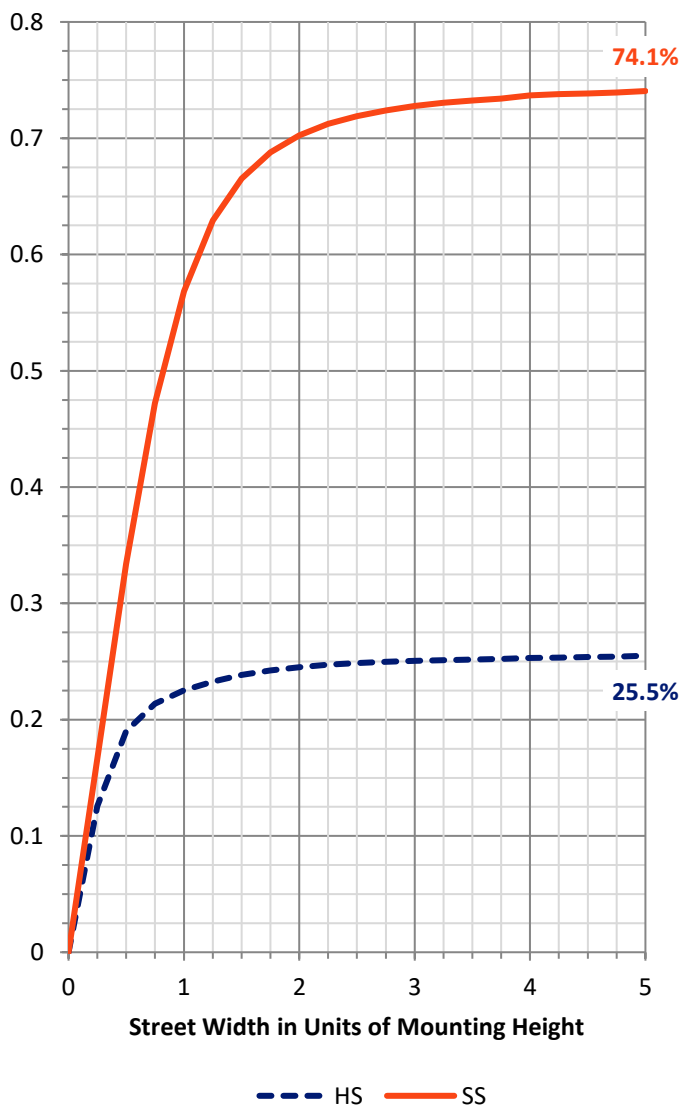
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6584.5	0.0	6584.5
	% Fixture	25.9	0.0	25.9
<b>Street Side</b>	Lumens	18847.5	0.0	18847.5
	% Fixture	74.1	0.0	74.1
<b>Total</b>	Lumens	25432.0	0.0	25432.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	440.9	1.7
10°-20°	1338.9	5.3
20°-30°	2272.3	8.9
30°-40°	3287.9	12.9
40°-50°	4314.5	17.0
50°-60°	5041.4	19.8
60°-70°	5059.3	19.9
70°-80°	3223.8	12.7
80°-90°	453.1	1.8
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°	25432.0	100.0
0°-180°	25432.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P510005

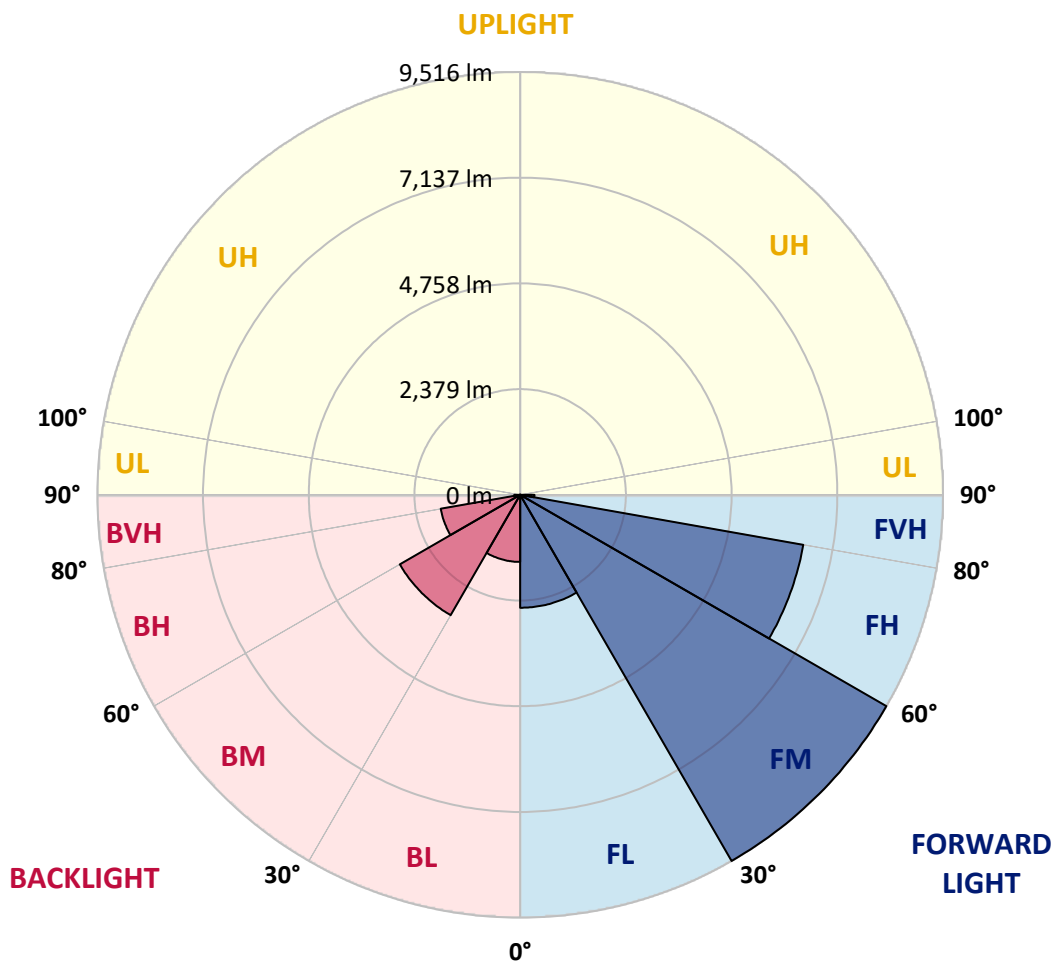
CATALOG NUMBER: VERD-M-CA3-180-760-U-T2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2541.9	10.0			
FM (30°-60°)	9516.4	37.4			
FH (60°-80°)	6469.6	25.4			G3/7500
FVH (80°-90°)	319.6	1.3			G3/500
BL (0°-30°)	1510.1	5.9	B3/2500		
BM (30°-60°)	3127.4	12.3	B3/5000		
BH (60°-80°)	1813.4	7.1	B3/2500		G3/2500
BVH (80°-90°)	133.5	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°	4590.1	4590.1	4590.1	4590.1	4590.1	4590.1	4590.1	4590.1	4590.1	4590.1	4590.1
2.5°	4766.0	4816.5	4809.6	4778.6	4800.4	4740.7	4718.8	4685.5	4651.0	4639.5	4620.0
5°	4991.2	5057.9	5045.2	5003.9	5002.7	4917.7	4869.4	4806.2	4753.3	4711.9	4651.0
7.5°	5201.5	5278.5	5267.0	5226.8	5224.5	5126.8	5026.8	4928.0	4867.1	4814.2	4702.8
10°	5424.5	5483.1	5472.8	5421.0	5410.7	5315.3	5198.1	5074.0	4984.3	4910.8	4752.2
12.5°	5630.2	5692.3	5696.9	5632.5	5616.4	5514.1	5411.8	5247.5	5131.4	5047.5	4814.2
15°	5822.1	5895.7	5881.9	5817.5	5800.3	5696.9	5596.9	5445.2	5324.5	5207.3	4915.4
17.5°	5976.1	6046.2	6029.0	6000.3	5991.1	5910.6	5827.9	5663.5	5556.6	5406.1	5071.7
20°	6081.9	6147.4	6154.3	6146.2	6199.1	6123.2	6077.3	5961.2	5844.0	5708.4	5285.4
22.5°	6123.2	6201.4	6268.0	6319.8	6428.9	6417.4	6409.4	6342.7	6227.8	6030.1	5568.1
25°	6135.9	6214.0	6317.5	6445.0	6640.4	6710.5	6761.1	6777.2	6651.9	6495.6	5919.8
27.5°	6138.2	6222.1	6327.8	6533.5	6831.2	7042.6	7163.3	7219.6	7149.5	7025.4	6397.9
30°	6089.9	6176.1	6311.7	6586.4	6980.6	7327.7	7527.6	7777.0	7747.1	7642.5	6996.7
32.5°	5950.8	6029.0	6216.3	6577.2	7128.8	7619.6	7931.0	8363.1	8464.3	8396.5	7687.4
35°	5701.5	5796.8	6039.3	6501.3	7209.3	7903.4	8405.7	9078.0	9260.7	9265.3	8534.4
37.5°	5449.8	5522.2	5807.2	6358.8	7254.1	8155.1	8856.2	9794.0	10059.4	10065.2	9238.9
40°	5182.0	5248.6	5562.4	6168.1	7208.1	8352.8	9275.6	10482.4	10862.8	10827.1	9930.7
42.5°	4834.9	4908.5	5219.9	5908.3	7093.2	8505.6	9702.0	11205.2	11570.7	11610.9	10652.4
45°	4538.4	4597.0	4869.4	5502.6	6882.9	8588.4	10102.0	11976.4	12394.7	12352.2	11422.4
47.5°	4172.9	4260.3	4551.1	5172.8	6504.8	8567.7	10484.7	12739.5	13204.9	13165.9	12090.2
50°	3219.1	3320.2	3996.0	4826.9	6022.1	8405.7	10831.7	13469.3	14047.3	13945.1	12797.0
52.5°	2923.7	2952.4	3221.4	4429.2	5546.3	8037.9	11086.9	14391.0	14733.5	14693.2	13512.9
55°	2743.3	2798.4	2921.4	3648.9	5118.8	7440.3	11263.8	15161.0	15547.1	15358.6	14161.1
57.5°	2584.7	2623.7	2769.7	3123.7	4626.9	6617.4	11212.1	15810.3	16155.1	15891.9	14794.4
60°	2415.7	2441.0	2587.0	2851.3	4095.9	5708.4	10686.9	16480.3	16633.2	16391.8	15329.9
62.5°	2284.7	2308.9	2396.2	2650.2	3682.2	5057.9	9827.3	16527.4	16904.4	16728.6	15785.0
65°	2116.9	2133.0	2242.2	2442.2	3298.4	4670.6	9069.9	16085.0	16773.4	16729.7	15959.7
67.5°	1931.9	1951.4	2054.9	2196.2	2807.6	4214.3	7803.4	15845.9	16219.4	16262.0	15632.2
70°	1714.7	1728.5	1835.4	1937.6	2401.9	3699.5	6203.7	14930.0	15365.5	15364.4	14620.8
72.5°	1480.2	1479.1	1584.8	1692.9	2012.3	3107.6	4856.8	13255.5	14408.2	14322.0	13182.0
75°	1220.5	1237.7	1340.0	1425.1	1674.5	2519.2	3382.3	9602.0	12720.0	12838.3	11376.5
77.5°	780.3	791.8	849.3	936.6	1171.1	1925.0	2206.6	5336.0	8493.0	10244.5	8955.0
80°	570.0	575.8	626.3	676.9	779.2	1172.2	1121.7	2319.2	3366.2	5029.1	5493.4
82.5°	388.4	389.6	429.8	441.3	447.1	528.7	532.1	1128.6	1603.2	1888.2	2426.1
85°	257.4	213.8	166.6	220.7	226.4	194.2	189.6	509.1	795.3	953.9	898.7
87.5°	57.5	56.3	65.5	66.7	64.4	55.2	46.0	78.1	119.5	118.4	151.7
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°	4590.1	4590.1	4590.1	4590.1	4590.1	4590.1	4590.1	4590.1	4590.1	4590.1	4590.1
2.5°	4601.6	4595.9	4563.7	4495.9	4449.9	4402.8	4376.4	4360.3	4366.0	4339.6	4328.1
5°	4613.1	4584.4	4493.6	4413.1	4340.7	4259.1	4191.3	4182.1	4195.9	4171.8	4158.0
7.5°	4643.0	4582.1	4466.0	4328.1	4207.4	4130.4	4032.7	3983.3	3979.9	3955.7	3960.3
10°	4660.2	4580.9	4425.8	4259.1	4117.8	3981.0	3876.4	3821.3	3817.8	3783.3	3775.3
12.5°	4707.3	4593.6	4378.7	4175.2	4017.8	3835.1	3724.7	3674.2	3668.4	3620.2	3601.8
15°	4779.8	4622.3	4329.2	4077.6	3874.1	3702.9	3570.7	3502.9	3492.6	3436.3	3416.7
17.5°	4894.7	4703.9	4314.3	3989.1	3748.9	3561.5	3406.4	3332.8	3273.1	3242.0	3215.6
20°	5049.8	4805.0	4331.5	3906.3	3591.4	3375.4	3182.3	3085.7	3044.4	2993.8	2997.3
22.5°	5270.5	4963.6	4361.4	3842.0	3448.9	3176.5	2959.3	2851.3	2776.6	2734.1	2736.4
25°	5580.8	5202.7	4420.0	3781.0	3293.8	2959.3	2703.0	2552.5	2476.6	2449.1	2420.3
27.5°	5972.7	5488.8	4559.1	3706.3	3109.9	2713.4	2429.5	2253.7	2176.7	2135.3	2129.6
30°	6476.1	5864.6	4722.3	3651.2	2916.8	2406.5	2090.5	1951.4	1883.6	1825.0	1797.4
32.5°	7089.8	6395.6	4903.9	3596.0	2677.8	2062.9	1776.7	1669.9	1561.8	1487.1	1490.6
35°	7802.3	6973.7	5173.9	3525.9	2397.3	1742.3	1544.6	1406.7	1305.6	1256.1	1233.2
37.5°	8474.6	7566.7	5491.1	3454.7	2083.6	1534.3	1315.9	1188.3	1110.2	1072.3	1080.3
40°	9155.0	8178.1	5764.7	3280.0	1731.9	1345.8	1089.5	1017.1	986.1	956.2	959.6
42.5°	9764.1	8665.4	5964.6	3085.7	1486.0	1129.7	928.6	944.7	963.1	945.8	941.2
45°	10398.5	9235.4	6140.5	2754.8	1280.3	959.6	888.4	933.2	973.4	971.1	965.4
47.5°	11035.1	9764.1	6157.7	2315.7	1092.9	902.2	887.2	920.6	973.4	982.6	975.7
50°	11691.4	10318.0	6056.6	1798.6	1013.6	909.1	888.4	894.1	952.7	963.1	959.6
52.5°	12418.9	10916.8	5807.2	1367.6	982.6	920.6	891.8	883.8	917.1	935.5	938.9
55°	13087.7	11392.6	5339.4	1207.9	959.6	921.7	917.1	890.7	891.8	882.6	905.6
57.5°	13649.7	11846.5	4808.5	1120.5	938.9	911.4	928.6	879.2	865.4	827.5	818.3
60°	14231.2	12215.4	4061.5	1060.8	914.8	898.7	899.9	859.6	825.2	770.0	753.9
62.5°	14643.8	12410.8	3336.3	990.7	881.5	879.2	861.9	832.1	801.0	752.8	745.9
65°	14763.3	12307.4	2562.8	917.1	837.8	847.0	816.0	774.6	645.9	586.1	586.1
67.5°	14368.0	11670.7	1897.4	832.1	784.9	803.3	742.4	610.3	543.6	508.0	513.7
70°	13284.2	10642.1	1235.4	707.9	709.1	724.0	612.6	549.3	486.1	464.3	475.8
72.5°	11836.2	9117.0	814.8	564.3	597.6	572.3	559.7	505.7	449.4	424.1	432.1
75°	9753.7	7198.9	565.4	443.6	387.3	488.4	497.6	425.2	381.6	463.1	481.5
77.5°	7705.8	5003.9	466.6	310.3	286.2	360.9	398.8	394.2	630.9	741.3	733.2
80°	4582.1	2881.2	380.4	214.9	202.3	232.1	313.7	452.8	706.8	531.0	505.7
82.5°	2077.9	1310.2	202.3	112.6	132.2	154.0	234.4	563.1	463.1	340.2	320.6
85°	811.4	427.5	80.4	49.4	46.0	57.5	106.9	271.2	186.2	150.6	150.6
87.5°	104.6	77.0	23.0	17.2	14.9	18.4	34.5	150.6	87.3	73.6	71.3
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)