

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: P510031

Luminaire Tested: **VERD-M-CA4-190-730-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510031
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-CA4-190-730-U-T3
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 3000K, 870mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27207 lumens
Efficiency: N/A
Efficacy: 140.9 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

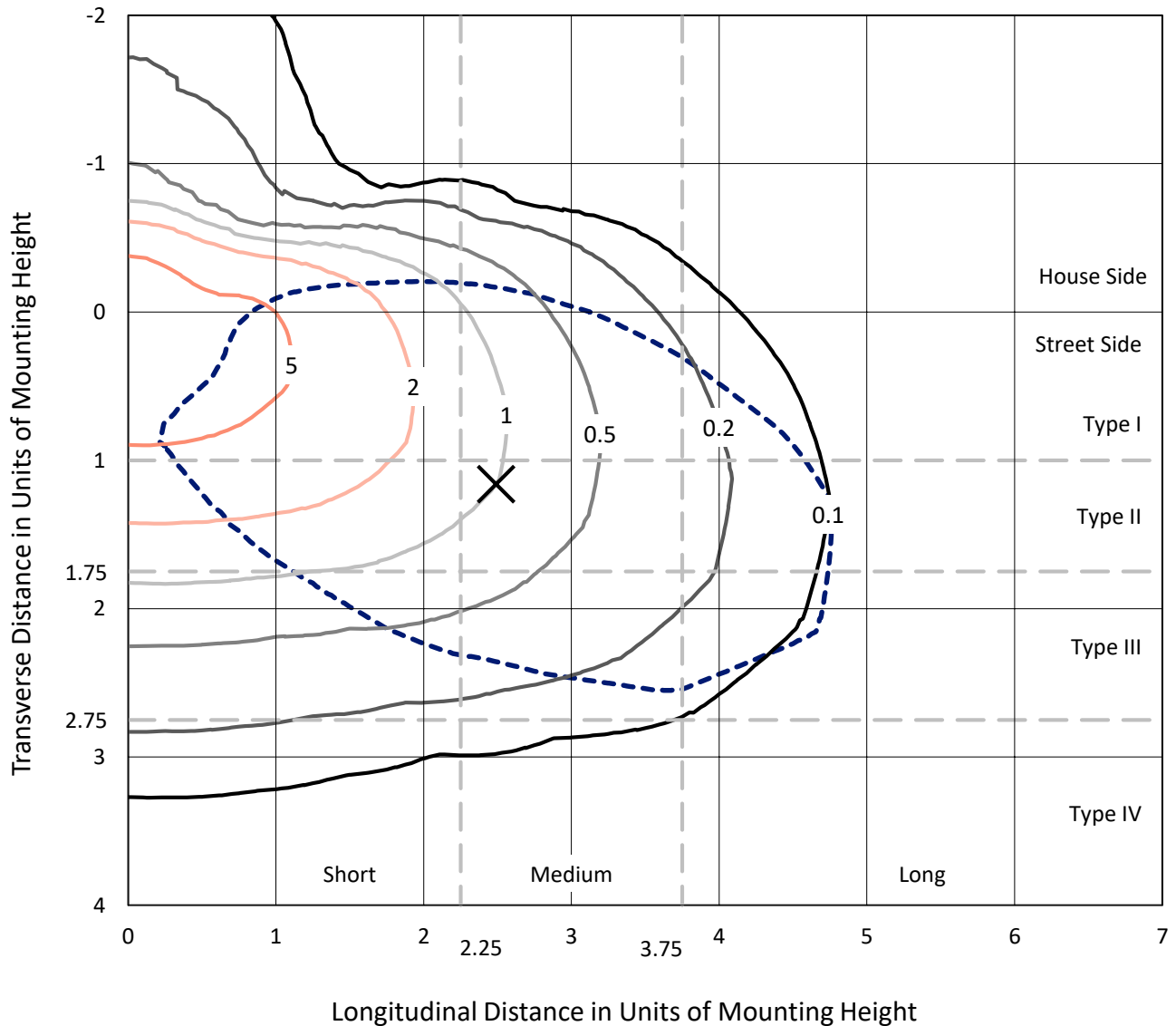
Input Watts (W): 193.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P510031
 CATALOG NUMBER: VERD-M-CA4-190-730-U-T3

Iso-Footcandle Lines of Horizontal Illumination

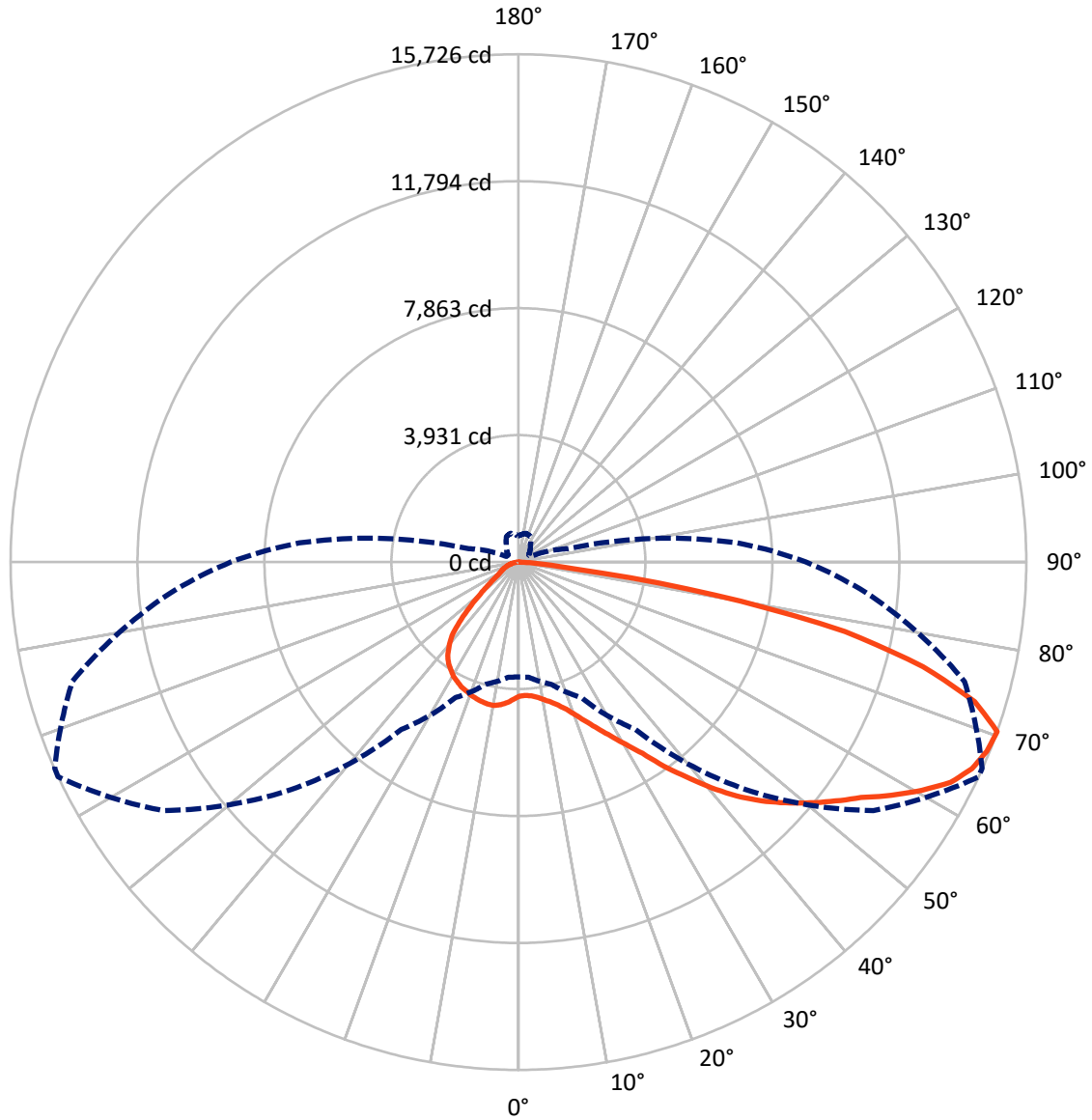
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type III - Medium - N/A

REPORT NUMBER: P510031
CATALOG NUMBER: VERD-M-CA4-190-730-U-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P510031

CATALOG NUMBER: VERD-M-CA4-190-730-U-T3

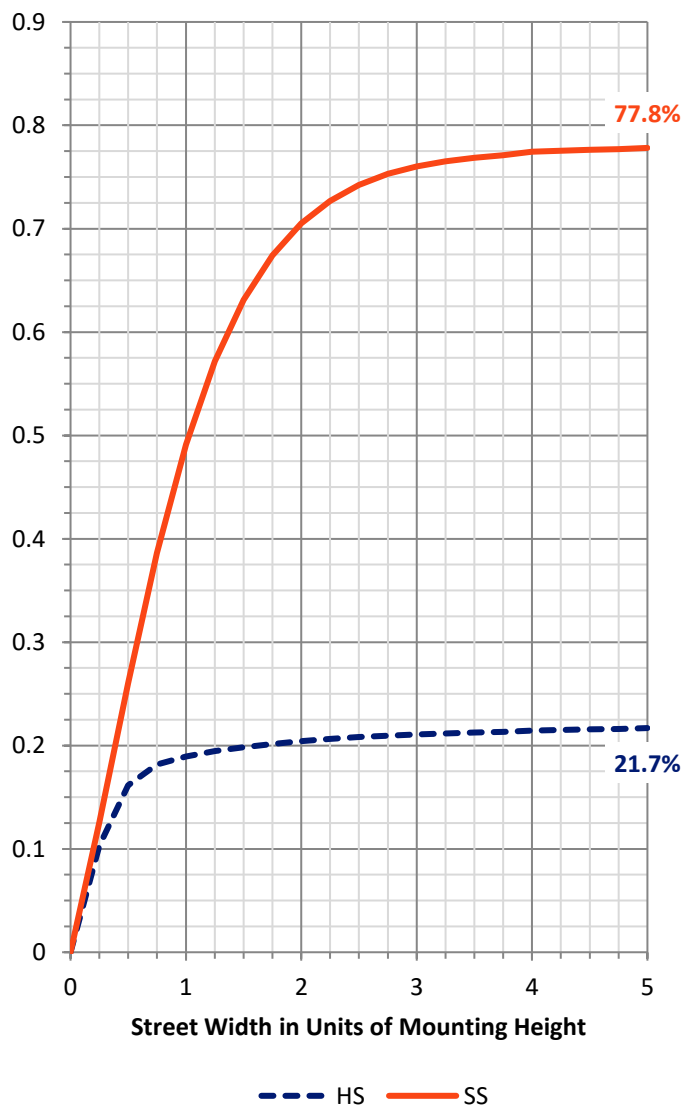
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6001.6	0.0	6001.6
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	21205.4	0.0	21205.4
	% Fixture	77.9	0.0	77.9
Total	Lumens	27207.0	0.0	27207.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	416.7	1.5
10°-20°	1317.0	4.8
20°-30°	2284.7	8.4
30°-40°	3321.9	12.2
40°-50°	4438.1	16.3
50°-60°	5405.9	19.9
60°-70°	5827.7	21.4
70°-80°	3778.3	13.9
80°-90°	416.7	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°	27207.0	100.0
0°-180°	27207.0	100.0

Coefficient of Utilization



REPORT NUMBER: P510031

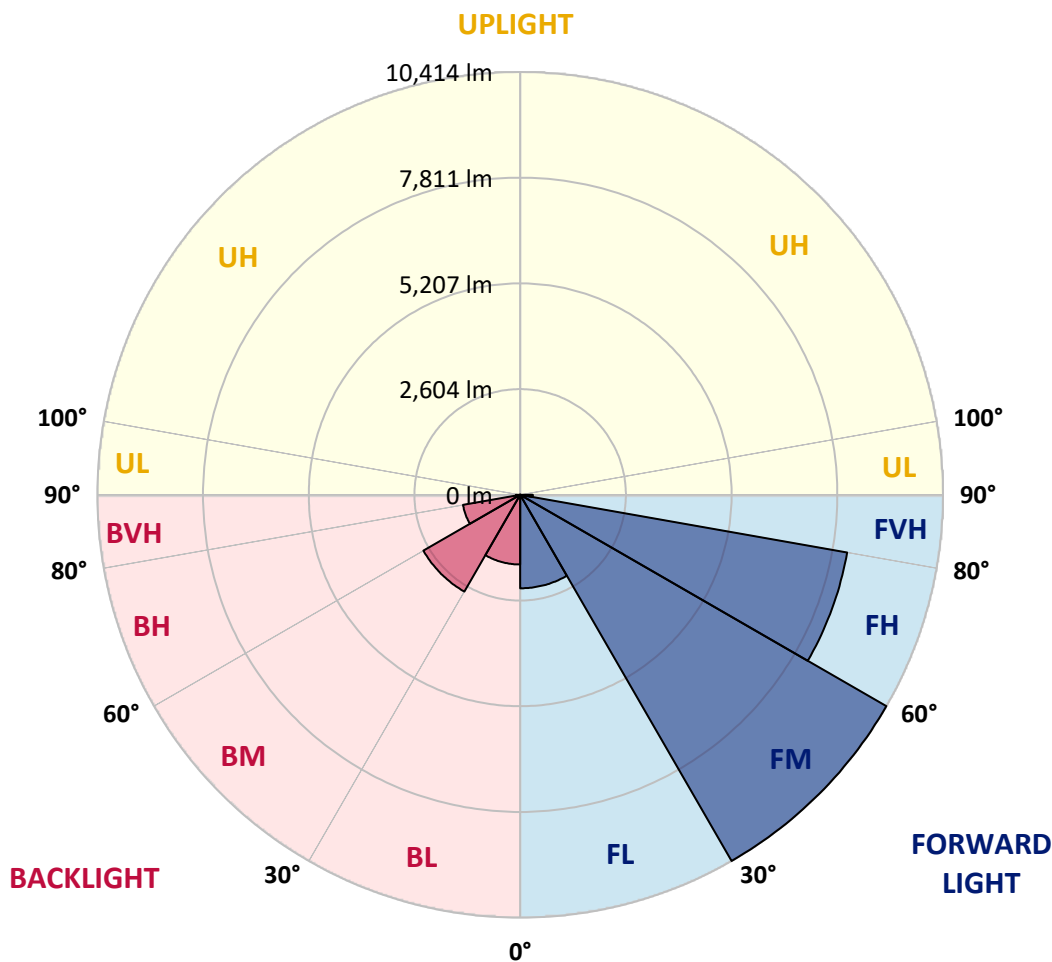
CATALOG NUMBER: VERD-M-CA4-190-730-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2302.5	8.5			
FM (30°-60°)	10414.3	38.3			
FH (60°-80°)	8177.8	30.1			G4/12000
FVH (80°-90°)	310.8	1.1			G3/500
BL (0°-30°)	1715.8	6.3	B3/2500		
BM (30°-60°)	2751.5	10.1	B3/5000		
BH (60°-80°)	1428.3	5.2	B3/2500		G3/2500
BVH (80°-90°)	105.9	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





REPORT NUMBER: P510031

CATALOG NUMBER: VERD-M-CA4-190-730-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4153.7	4153.7	4153.7	4153.7	4153.7	4153.7	4153.7	4153.7	4153.7	4153.7	4153.7
2.5°	4092.4	4129.2	4109.6	4110.8	4139.0	4115.7	4131.7	4131.7	4130.4	4139.0	4164.8
5°	4193.0	4232.2	4208.9	4194.2	4200.3	4170.9	4164.8	4159.9	4156.2	4166.0	4208.9
7.5°	4340.2	4385.6	4359.8	4346.3	4339.0	4271.5	4259.2	4226.1	4222.4	4231.0	4270.3
10°	4535.2	4596.6	4565.9	4527.9	4502.1	4423.6	4361.1	4331.6	4323.0	4318.1	4358.6
12.5°	4816.2	4870.1	4834.6	4763.4	4729.1	4602.7	4527.9	4444.5	4443.2	4426.1	4456.7
15°	5082.4	5138.8	5093.4	5023.5	4978.1	4807.6	4697.2	4594.1	4581.9	4562.2	4572.0
17.5°	5340.0	5408.7	5376.8	5313.0	5257.8	5067.7	4922.9	4790.4	4776.9	4746.2	4700.9
20°	5660.2	5722.7	5714.1	5656.5	5595.1	5379.2	5221.0	5050.5	5035.8	4980.6	4878.7
22.5°	5980.3	6057.6	6009.8	6000.0	5965.6	5750.9	5530.1	5357.2	5342.4	5270.1	5083.6
25°	6282.1	6350.8	6368.0	6352.0	6355.7	6143.5	5923.9	5706.8	5692.1	5593.9	5324.0
27.5°	6639.1	6704.1	6709.0	6712.7	6755.6	6579.0	6321.4	6098.1	6088.3	5977.9	5635.6
30°	6912.7	7020.6	7042.7	7063.6	7085.6	6991.2	6756.9	6548.3	6528.7	6408.5	5986.5
32.5°	7162.9	7243.9	7322.4	7365.3	7464.7	7380.1	7187.5	7058.6	7059.9	7003.4	6545.9
35°	7356.7	7446.3	7545.7	7702.7	7847.4	7811.9	7751.8	7759.1	7760.3	7784.9	7300.3
37.5°	7542.0	7622.9	7748.1	7935.8	8190.9	8237.5	8278.0	8431.4	8485.3	8600.7	7997.1
40°	7653.6	7739.5	7901.4	8161.5	8492.7	8660.8	8783.4	9177.2	9270.5	9271.7	8535.6
42.5°	7490.5	7584.9	7874.4	8336.9	8765.0	9079.1	9401.7	9898.5	9966.0	9815.1	8995.7
45°	7344.5	7431.6	7743.2	8363.9	8978.5	9525.6	9974.6	10549.9	10599.0	10294.8	9420.1
47.5°	7203.4	7272.1	7632.8	8307.5	9196.8	9973.4	10462.8	11138.8	11174.3	10819.8	9834.8
50°	7008.3	7090.5	7473.3	8241.2	9328.1	10357.3	10941.3	11720.2	11715.3	11292.1	10210.1
52.5°	6794.9	6875.9	7286.8	8119.8	9414.0	10655.4	11485.9	12289.5	12293.1	11834.3	10581.8
55°	6526.2	6625.6	7058.6	7955.4	9434.8	10889.7	11958.2	12873.4	12933.5	12387.6	10940.0
57.5°	6204.8	6304.2	6777.7	7715.0	9310.9	11086.0	12462.4	13619.2	13651.1	12953.1	11207.5
60°	5830.7	5950.9	6403.6	7393.5	9074.2	11314.2	13073.3	14350.4	14361.4	13458.5	11430.7
62.5°	5397.6	5483.5	5959.5	6927.4	8696.3	11405.0	13578.8	15021.4	15023.9	13840.0	11531.3
65°	4929.0	4962.2	5360.8	6293.2	8145.5	11256.5	13772.6	15429.9	15418.9	14174.9	11481.0
67.5°	4370.9	4354.9	4780.6	5509.3	7448.7	10762.2	13678.1	15639.7	15672.8	14432.6	11319.1
70°	3553.9	3577.2	3915.7	4632.2	6323.8	9968.5	13418.1	15725.5	15717.0	14303.8	10797.7
72.5°	2697.6	2739.3	2984.7	3522.0	4908.2	8383.5	12304.2	14776.0	14793.2	13396.0	9859.3
75°	1668.4	1788.6	1995.9	2323.4	3075.4	6006.1	10472.7	12943.3	13030.4	11819.6	8118.5
77.5°	731.1	759.4	863.6	1120.0	1608.3	3015.3	7741.9	10336.5	10594.1	9558.7	5856.4
80°	452.7	452.7	482.1	561.8	717.6	1121.2	3102.4	6171.7	5910.4	5467.6	2583.5
82.5°	376.6	376.6	391.3	404.8	368.0	474.7	1037.8	1729.7	1853.6	1500.3	793.7
85°	204.9	209.8	211.0	214.7	211.0	256.4	408.5	511.5	517.7	468.6	282.1
87.5°	74.8	79.7	77.3	72.4	65.0	61.3	78.5	79.7	82.2	76.1	41.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P510031

CATALOG NUMBER: VERD-M-CA4-190-730-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4153.7	4153.7	4153.7	4153.7	4153.7	4153.7	4153.7	4153.7	4153.7	4153.7	4153.7
2.5°	4181.9	4199.1	4244.5	4248.2	4265.4	4271.5	4286.2	4307.1	4343.9	4325.5	4304.6
5°	4229.8	4251.9	4324.2	4361.1	4408.9	4437.1	4483.7	4507.0	4563.5	4545.1	4542.6
7.5°	4302.2	4348.8	4413.8	4449.4	4511.9	4530.3	4564.7	4564.7	4611.3	4588.0	4581.9
10°	4400.3	4431.0	4499.7	4502.1	4537.7	4537.7	4578.2	4552.4	4597.8	4570.8	4569.6
12.5°	4478.8	4496.0	4521.8	4500.9	4519.3	4498.4	4519.3	4488.6	4516.8	4482.5	4475.1
15°	4567.1	4543.8	4518.1	4469.0	4453.1	4419.9	4402.8	4370.9	4373.3	4334.1	4327.9
17.5°	4666.5	4606.4	4531.6	4424.8	4366.0	4281.3	4245.7	4200.3	4174.6	4139.0	4155.0
20°	4786.7	4697.2	4541.4	4375.8	4250.6	4121.8	4038.4	3964.8	3958.7	3926.8	3909.6
22.5°	4942.5	4799.0	4584.3	4305.8	4104.7	3920.7	3796.8	3674.1	3661.8	3596.8	3572.3
25°	5135.1	4933.9	4606.4	4251.9	3934.1	3681.4	3486.4	3315.9	3233.7	3165.0	3149.0
27.5°	5394.0	5132.7	4650.6	4155.0	3733.0	3384.6	3104.9	2879.2	2781.0	2746.7	2711.1
30°	5697.0	5375.6	4732.8	4074.0	3495.0	3005.5	2664.5	2395.8	2289.1	2235.1	2217.9
32.5°	6143.5	5682.2	4808.8	3940.3	3206.7	2588.4	2144.3	1847.5	1782.4	1772.6	1795.9
35°	6793.7	6258.8	4919.2	3816.4	2868.1	2124.7	1634.0	1440.2	1426.7	1429.1	1429.1
37.5°	7470.8	6808.4	5246.8	3633.6	2453.5	1599.7	1243.9	1138.4	1143.3	1143.3	1142.1
40°	7912.5	7250.0	5484.7	3374.8	1938.2	1147.0	922.5	842.8	877.1	923.7	948.3
42.5°	8399.5	7651.2	5649.1	3076.7	1348.2	810.9	671.0	699.2	799.8	871.0	880.8
45°	8814.1	7992.2	5667.5	2613.0	868.5	615.8	612.1	693.1	809.6	886.9	893.1
47.5°	9169.9	8302.6	5552.2	2083.0	633.0	575.3	612.1	714.0	819.5	867.3	872.2
50°	9514.6	8549.1	5281.1	1600.9	576.6	560.6	619.5	717.6	783.9	817.0	812.1
52.5°	9821.3	8773.6	4888.5	1248.8	554.5	550.8	625.6	714.0	755.7	753.2	749.5
55°	10054.3	8839.9	4581.9	974.0	536.1	544.7	629.3	717.6	748.3	726.2	721.3
57.5°	10174.6	8757.7	4324.2	774.1	516.5	538.5	639.1	716.4	770.4	812.1	809.6
60°	10172.1	8664.4	4006.5	667.3	496.8	533.6	655.1	777.8	972.8	1012.1	1013.3
62.5°	10132.8	8505.0	3571.0	603.6	474.7	536.1	666.1	883.3	1107.7	1075.8	1050.1
65°	10002.8	8205.6	2987.1	534.9	446.5	538.5	661.2	955.6	1015.7	901.7	885.7
67.5°	9640.9	7626.6	2345.5	478.4	420.8	525.0	669.8	888.2	933.5	861.2	837.9
70°	8906.1	6810.8	1589.9	412.2	391.3	505.4	650.2	873.4	921.3	847.7	813.3
72.5°	7741.9	5466.3	929.9	354.5	348.4	464.9	640.4	883.3	936.0	853.8	809.6
75°	6025.7	3832.3	537.3	287.1	290.7	429.4	587.6	833.0	927.4	863.6	806.0
77.5°	3890.0	1861.0	379.1	229.4	226.9	338.6	477.2	728.7	893.1	872.2	824.4
80°	1392.3	679.6	266.2	170.5	165.6	229.4	366.8	586.4	755.7	782.7	782.7
82.5°	500.5	341.0	170.5	104.3	103.0	146.0	273.6	445.3	548.4	618.3	635.4
85°	209.8	148.4	83.4	52.7	42.9	56.4	141.1	276.0	371.7	399.9	435.5
87.5°	30.7	27.0	22.1	17.2	14.7	14.7	18.4	79.7	132.5	190.1	235.5
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)