

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: P510068

Luminaire Tested: **VERD-M-CA4-200-727-U-T2-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510068
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-3)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA4-200-727-U-T2-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 2700K, 910mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22288 lumens
Efficiency: N/A
Efficacy: 110.4 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

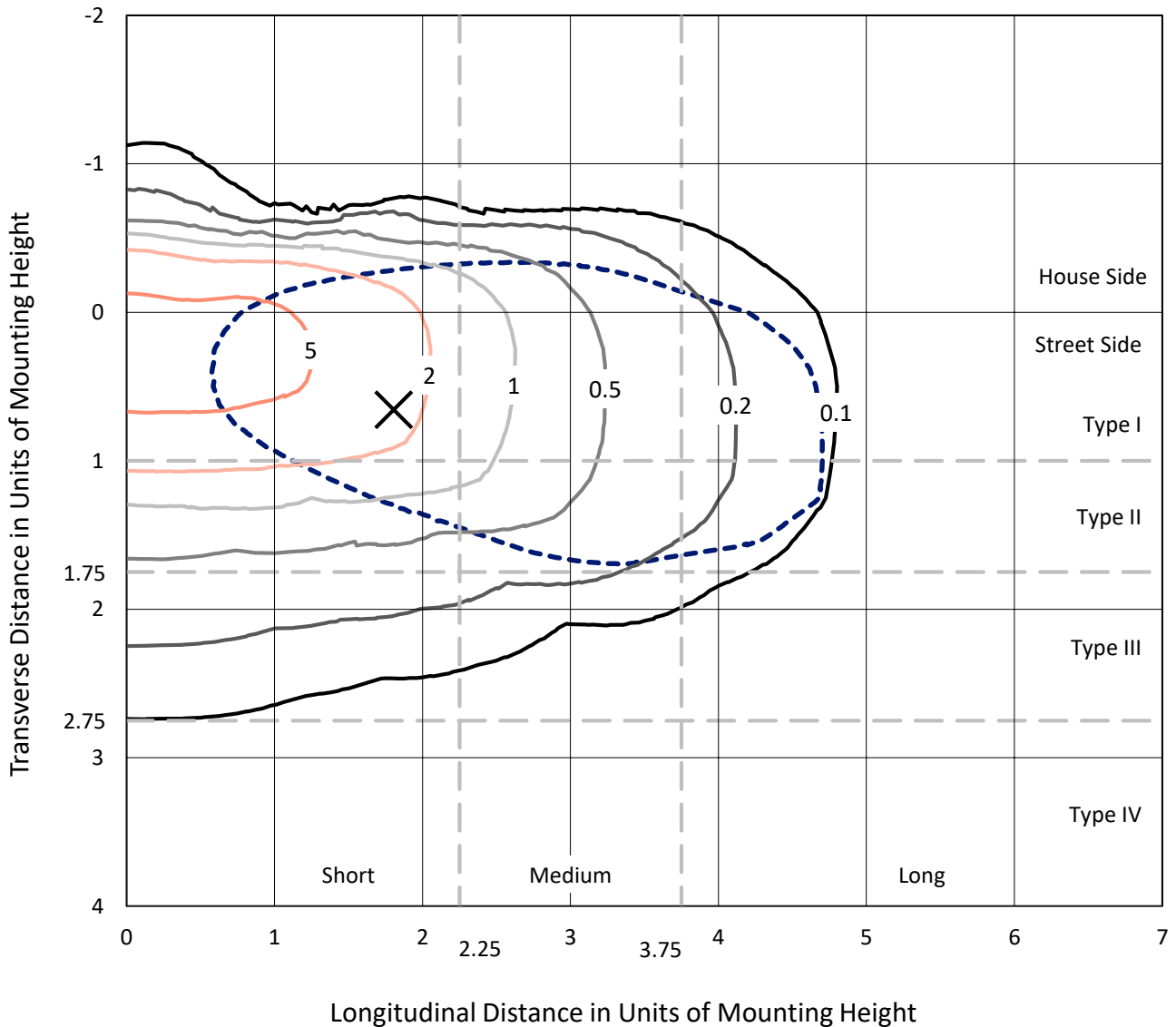
Input Watts (W): 201.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P510068
 CATALOG NUMBER: VERD-M-CA4-200-727-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

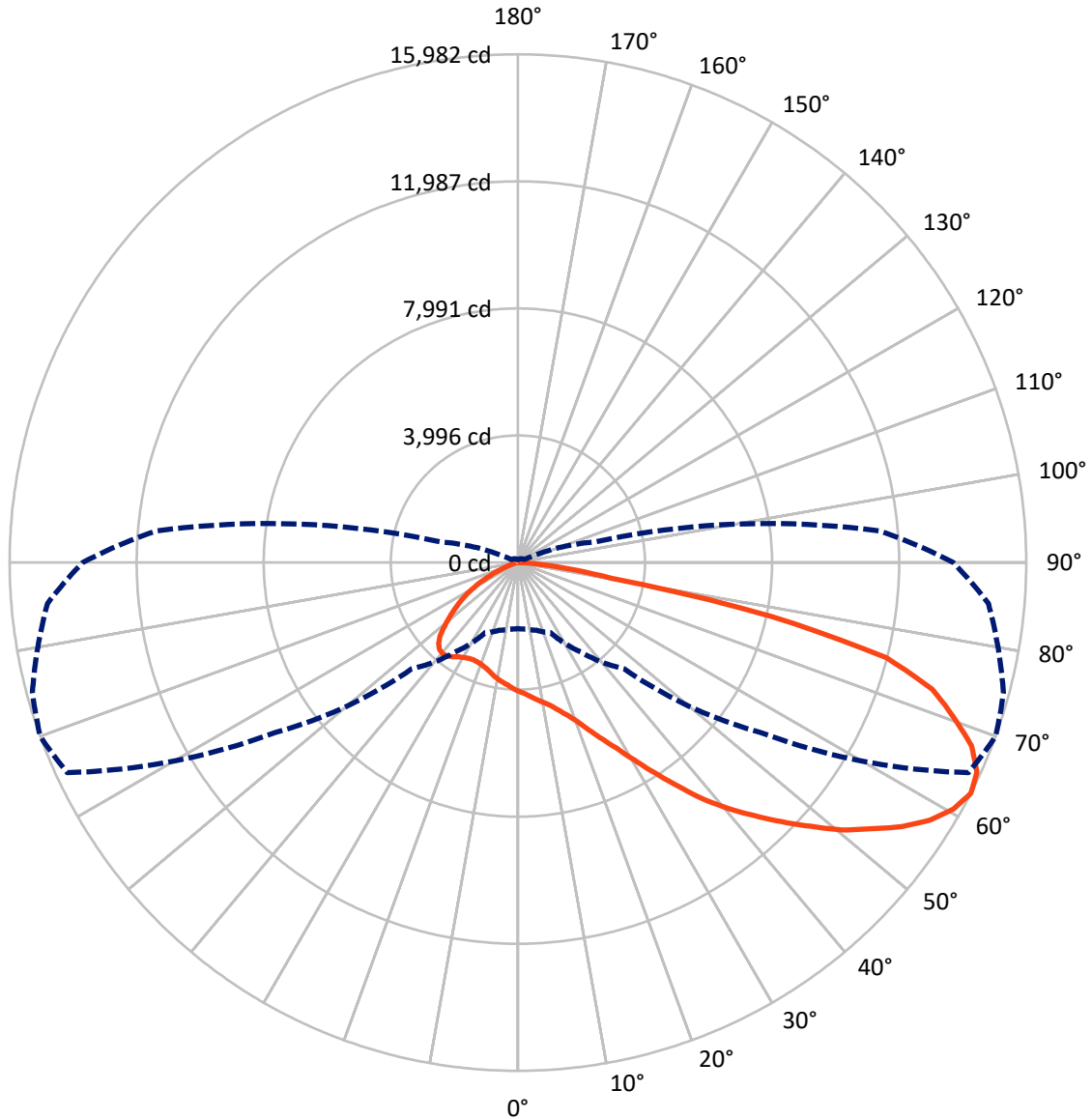
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Short - N/A

REPORT NUMBER: P510068
CATALOG NUMBER: VERD-M-CA4-200-727-U-T2-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P510068
 CATALOG NUMBER: VERD-M-CA4-200-727-U-T2-HSS

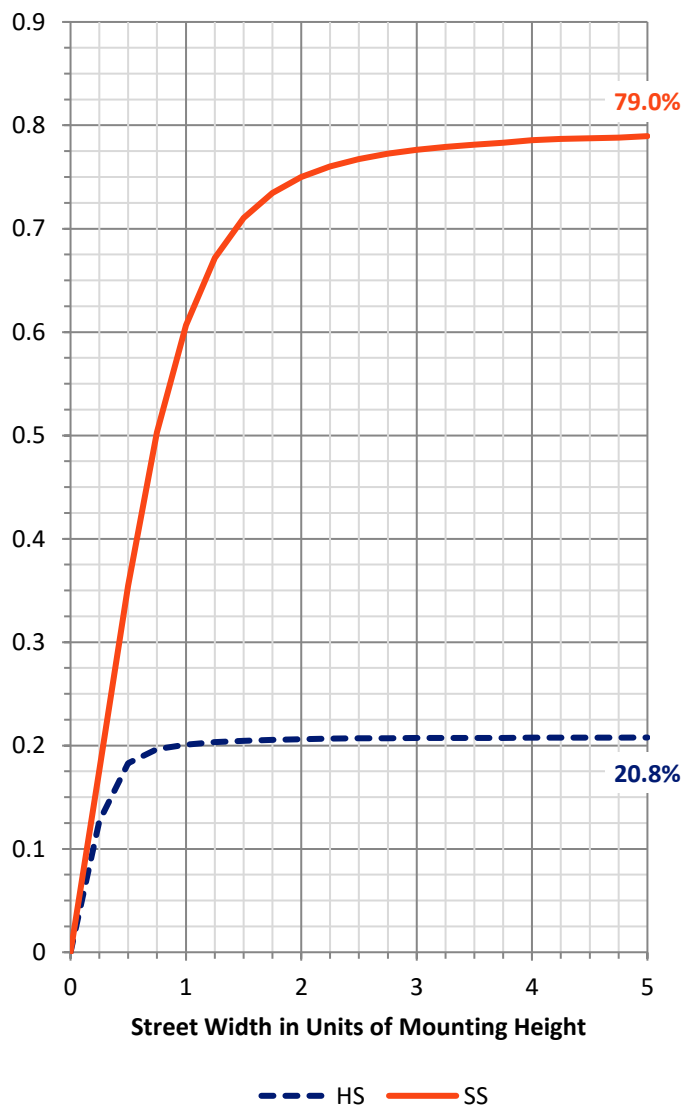
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4686.9	0.0	4686.9
	% Fixture	21.0	0.0	21.0
Street Side	Lumens	17601.1	0.0	17601.1
	% Fixture	79.0	0.0	79.0
Total	Lumens	22288.0	0.0	22288.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.7	1.7
10°-20°	1148.1	5.2
20°-30°	1946.3	8.7
30°-40°	2862.1	12.8
40°-50°	3811.5	17.1
50°-60°	4458.6	20.0
60°-70°	4484.3	20.1
70°-80°	2838.7	12.7
80°-90°	353.7	1.6
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°	22288.0	100.0
0°-180°	22288.0	100.0

Coefficient of Utilization



REPORT NUMBER: P510068

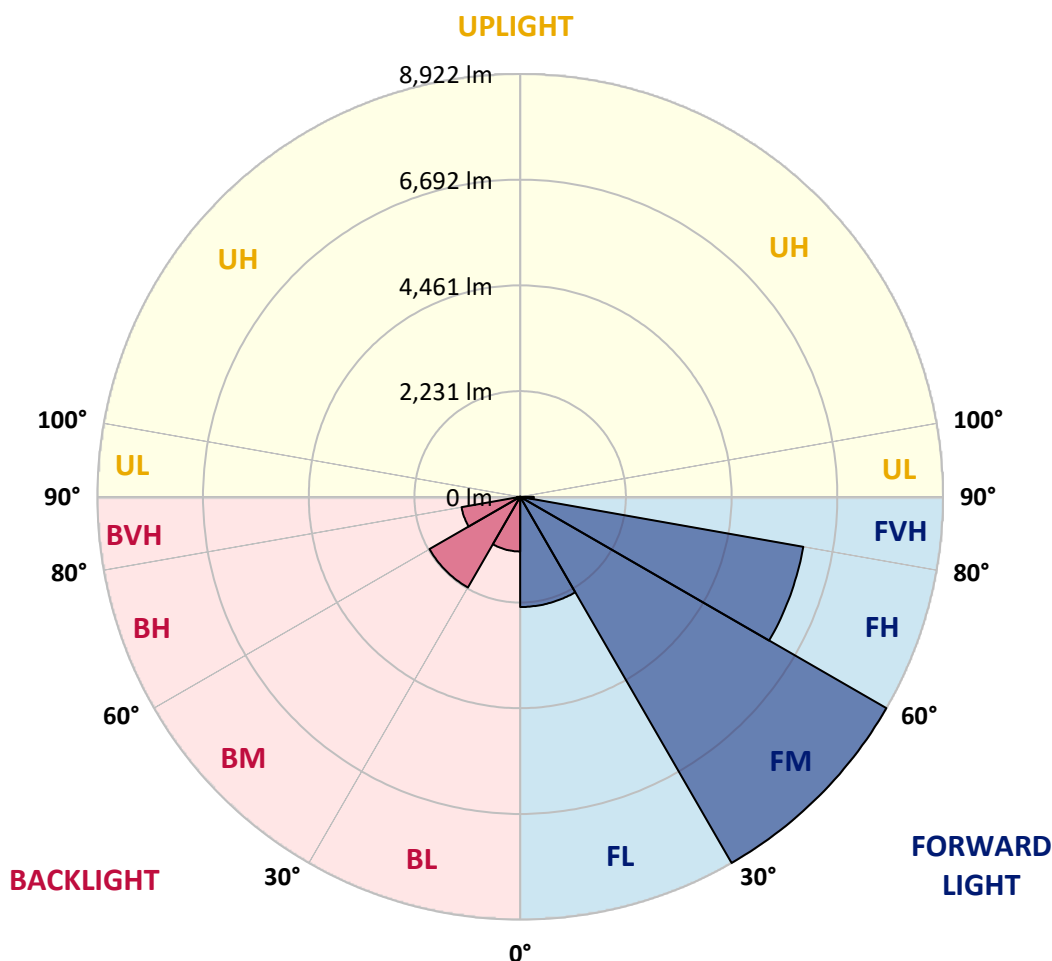
CATALOG NUMBER: VERD-M-CA4-200-727-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2325.1	10.4			
FM	(30°-60°)	8922.3	40.0			
FH	(60°-80°)	6066.8	27.2			G3/7500
FVH	(80°-90°)	286.8	1.3			G3/500
BL	(0°-30°)	1153.9	5.2	B3/2500		
BM	(30°-60°)	2209.9	9.9	B2/2500		
BH	(60°-80°)	1256.2	5.6	B3/2500		G3/2500
BVH	(80°-90°)	66.9	0.3			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





REPORT NUMBER: P510068

CATALOG NUMBER: VERD-M-CA4-200-727-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	4051.9	4051.9	4051.9	4051.9	4051.9	4051.9	4051.9	4051.9	4051.9	4051.9	4051.9
2.5°	4274.3	4311.7	4283.1	4272.1	4280.9	4236.8	4201.6	4151.0	4126.8	4109.1	4080.5
5°	4491.1	4552.8	4515.3	4492.2	4488.9	4408.6	4361.2	4291.9	4237.9	4190.6	4118.0
7.5°	4720.1	4756.4	4742.1	4715.7	4698.1	4600.1	4516.4	4418.5	4359.0	4296.3	4174.1
10°	4920.4	4964.4	4950.1	4902.8	4886.3	4786.1	4690.3	4557.2	4475.7	4397.5	4229.1
12.5°	5127.4	5176.9	5147.2	5099.8	5085.5	4984.3	4885.2	4723.4	4622.1	4534.0	4300.7
15°	5317.8	5362.9	5342.0	5288.1	5273.8	5187.9	5078.9	4928.1	4818.0	4701.4	4402.0
17.5°	5469.7	5514.8	5488.4	5463.1	5458.7	5373.9	5309.0	5154.9	5050.3	4891.8	4557.2
20°	5580.9	5627.1	5613.9	5626.0	5672.2	5609.5	5569.9	5440.0	5333.2	5161.5	4780.6
22.5°	5668.9	5728.4	5781.2	5805.4	5891.3	5886.9	5878.1	5801.0	5717.4	5539.0	5047.0
25°	5677.7	5746.0	5850.6	5963.9	6120.2	6195.1	6250.1	6238.0	6140.1	5963.9	5415.8
27.5°	5690.9	5761.4	5869.3	6064.1	6343.7	6518.7	6610.1	6666.2	6609.0	6491.2	5835.1
30°	5662.3	5735.0	5870.4	6119.1	6496.7	6821.4	6984.3	7192.4	7199.0	7099.9	6468.1
32.5°	5532.4	5628.2	5792.2	6125.7	6645.3	7137.3	7388.3	7787.9	7874.9	7801.1	7120.8
35°	5315.6	5402.5	5637.0	6067.4	6735.6	7400.4	7859.4	8482.5	8611.3	8606.9	7889.2
37.5°	5075.6	5163.7	5427.9	5929.8	6793.9	7634.9	8274.4	9171.6	9428.0	9374.1	8614.6
40°	4810.3	4902.8	5207.7	5757.0	6765.3	7844.0	8713.6	9839.7	10157.8	10164.4	9308.0
42.5°	4502.1	4578.1	4884.1	5518.1	6670.6	7998.1	9122.0	10543.1	10877.7	10859.0	9961.9
45°	4207.1	4286.4	4553.9	5148.3	6451.6	8084.0	9522.7	11255.3	11621.9	11562.4	10688.4
47.5°	3850.5	3963.8	4268.8	4837.9	6113.6	8077.4	9872.7	11984.0	12395.7	12347.3	11315.8
50°	2963.3	3030.4	3720.6	4517.5	5655.7	7923.3	10215.1	12699.5	13220.2	13125.5	11985.1
52.5°	2669.3	2729.9	2952.2	4133.4	5239.6	7589.8	10500.2	13518.5	13908.1	13834.4	12668.7
55°	2522.9	2556.0	2691.4	3409.1	4833.4	7048.2	10690.6	14246.1	14651.2	14488.2	13308.2
57.5°	2339.1	2379.8	2537.3	2911.5	4333.7	6217.1	10646.6	14902.1	15276.4	15026.5	13871.8
60°	2198.2	2229.0	2376.5	2620.9	3817.4	5356.3	10196.4	15546.1	15734.3	15487.7	14433.2
62.5°	2079.3	2097.0	2200.4	2432.7	3424.5	4727.8	9318.0	15631.9	15982.0	15803.7	14851.5
65°	1931.8	1936.2	2058.4	2240.1	3061.2	4350.2	8563.9	15191.6	15858.7	15799.2	15002.3
67.5°	1759.0	1767.8	1891.1	2029.8	2624.2	3948.4	7389.4	14955.0	15379.9	15342.4	14704.0
70°	1542.2	1559.8	1673.2	1778.8	2222.4	3466.3	5881.4	14019.3	14523.5	14468.4	13721.0
72.5°	1333.0	1323.1	1428.8	1533.4	1851.5	2893.9	4458.1	12408.9	13623.0	13570.2	12444.1
75°	1095.3	1088.7	1197.6	1296.7	1518.0	2338.0	3136.1	9177.1	11969.7	12132.6	10730.2
77.5°	674.8	680.3	743.0	809.1	1028.1	1746.9	2001.2	5105.3	8131.3	9642.7	8420.8
80°	488.7	488.7	535.0	574.6	680.3	1064.4	996.2	2128.9	2972.1	4654.0	5251.7
82.5°	317.0	303.8	332.4	366.6	378.7	461.2	455.7	1067.7	1514.6	1822.9	2187.2
85°	165.1	182.7	110.1	155.2	164.0	153.0	157.4	500.8	672.6	861.9	948.9
87.5°	25.3	19.8	26.4	36.3	41.8	35.2	30.8	58.3	90.3	120.0	142.0
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: P510068

CATALOG NUMBER: VERD-M-CA4-200-727-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4051.9	4051.9	4051.9	4051.9	4051.9	4051.9	4051.9	4051.9	4051.9	4051.9	4051.9
2.5°	4061.8	4056.3	4005.7	3931.9	3871.4	3820.7	3787.7	3765.7	3789.9	3745.9	3740.4
5°	4072.8	4035.4	3925.3	3819.6	3738.2	3629.2	3555.5	3505.9	3525.7	3487.2	3471.8
7.5°	4102.5	4034.3	3882.4	3714.0	3559.9	3443.2	3329.8	3220.8	3204.3	3180.1	3181.2
10°	4129.0	4031.0	3832.9	3612.7	3433.3	3227.4	3090.9	2978.7	2953.3	2924.7	2910.4
12.5°	4170.8	4038.7	3771.2	3504.8	3264.9	3027.1	2879.6	2747.5	2722.2	2666.0	2653.9
15°	4254.4	4066.2	3710.7	3371.6	3075.5	2835.6	2645.1	2529.6	2483.3	2420.6	2419.5
17.5°	4363.4	4146.6	3679.8	3246.1	2914.8	2646.2	2444.8	2328.1	2250.0	2212.5	2202.6
20°	4518.6	4251.1	3678.7	3132.8	2747.5	2443.7	2212.5	2080.4	2014.4	1983.6	1964.9
22.5°	4757.5	4405.3	3698.6	3053.5	2579.1	2247.8	2017.7	1836.1	1727.1	1642.3	1654.4
25°	5054.7	4636.4	3743.7	2980.9	2432.7	2060.6	1772.2	1520.2	1325.3	1240.6	1247.2
27.5°	5432.3	4912.7	3860.4	2907.1	2266.5	1859.2	1451.9	1131.6	984.1	885.0	892.7
30°	5915.5	5256.1	4013.4	2849.9	2112.4	1577.4	1093.1	834.4	704.5	623.0	615.3
32.5°	6493.4	5753.7	4180.7	2811.3	1943.9	1225.1	788.1	612.0	485.4	439.2	445.8
35°	7208.9	6312.9	4436.1	2755.2	1655.5	871.8	562.5	413.9	348.9	340.1	341.2
37.5°	7861.6	6885.3	4689.2	2660.5	1306.6	619.7	382.0	314.8	300.5	297.2	301.6
40°	8501.2	7407.0	4918.2	2522.9	898.2	424.9	280.7	284.0	271.9	263.1	258.7
42.5°	9100.0	7910.1	5097.6	2269.8	614.2	280.7	248.8	258.7	256.5	238.9	231.2
45°	9746.2	8441.7	5196.7	1915.3	386.4	238.9	223.5	241.1	252.1	232.3	223.5
47.5°	10297.6	8960.2	5192.3	1467.3	262.0	225.7	210.2	225.7	238.9	224.6	216.9
50°	10933.9	9389.5	5051.4	931.2	232.3	209.1	201.4	206.9	224.6	214.6	206.9
52.5°	11640.6	9977.3	4837.9	519.6	220.2	198.1	187.1	193.7	209.1	197.0	201.4
55°	12226.2	10465.0	4335.9	354.4	214.6	184.9	178.3	182.7	189.3	177.2	183.8
57.5°	12749.0	10867.8	3828.5	290.6	206.9	176.1	175.0	166.2	165.1	157.4	150.8
60°	13278.5	11186.0	3143.8	263.1	199.2	177.2	158.5	146.4	136.5	128.8	125.5
62.5°	13684.7	11406.1	2486.6	237.8	188.2	166.2	145.3	125.5	109.0	99.1	99.1
65°	13803.6	11308.1	1750.2	215.7	176.1	156.3	129.9	102.4	82.6	76.0	72.7
67.5°	13422.7	10745.6	1218.5	199.2	164.0	145.3	114.5	83.7	66.0	57.2	55.0
70°	12452.9	9804.5	718.8	176.1	148.6	126.6	104.6	68.2	53.9	45.1	42.9
72.5°	11019.7	8393.3	448.0	149.7	127.7	103.5	78.2	56.1	42.9	35.2	34.1
75°	9102.2	6542.9	292.8	115.6	101.3	81.5	59.4	45.1	37.4	29.7	27.5
77.5°	7299.2	4628.7	262.0	88.1	74.9	58.3	45.1	37.4	30.8	26.4	26.4
80°	4200.5	2641.8	214.6	60.5	46.2	44.0	35.2	30.8	28.6	25.3	24.2
82.5°	2063.9	1269.2	138.7	37.4	26.4	28.6	29.7	27.5	24.2	22.0	22.0
85°	711.1	422.7	56.1	24.2	17.6	17.6	18.7	19.8	18.7	17.6	17.6
87.5°	110.1	80.4	15.4	14.3	11.0	9.9	11.0	12.1	12.1	11.0	11.0
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)