

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: P509972

Luminaire Tested: **VERD-M-CA3-180-727-U-T2-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509972
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-CA3-180-727-U-T2-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 1120mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19769 lumens
Efficiency: N/A
Efficacy: 108.0 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

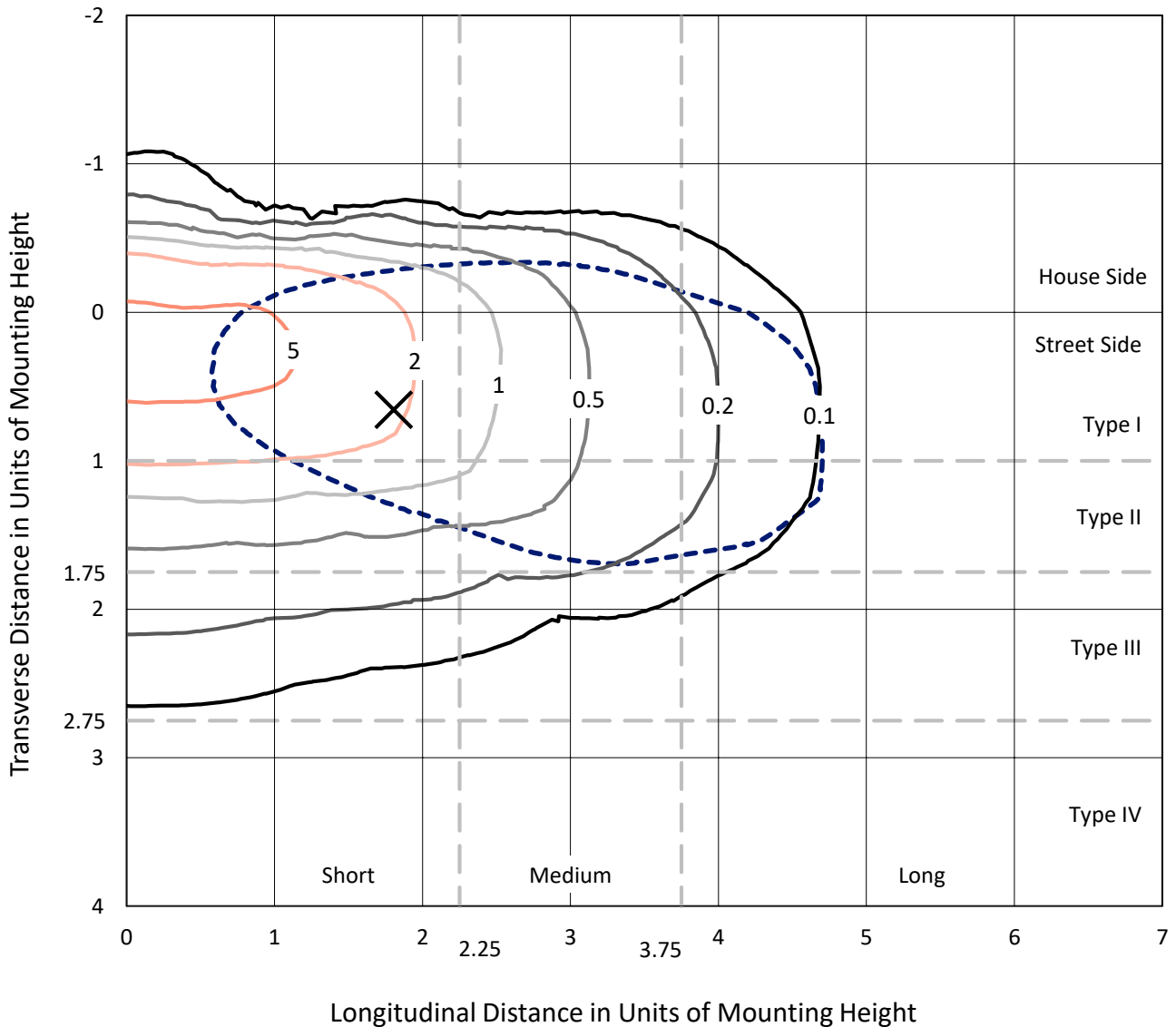
Input Watts (W): 183.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509972
 CATALOG NUMBER: VERD-M-CA3-180-727-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

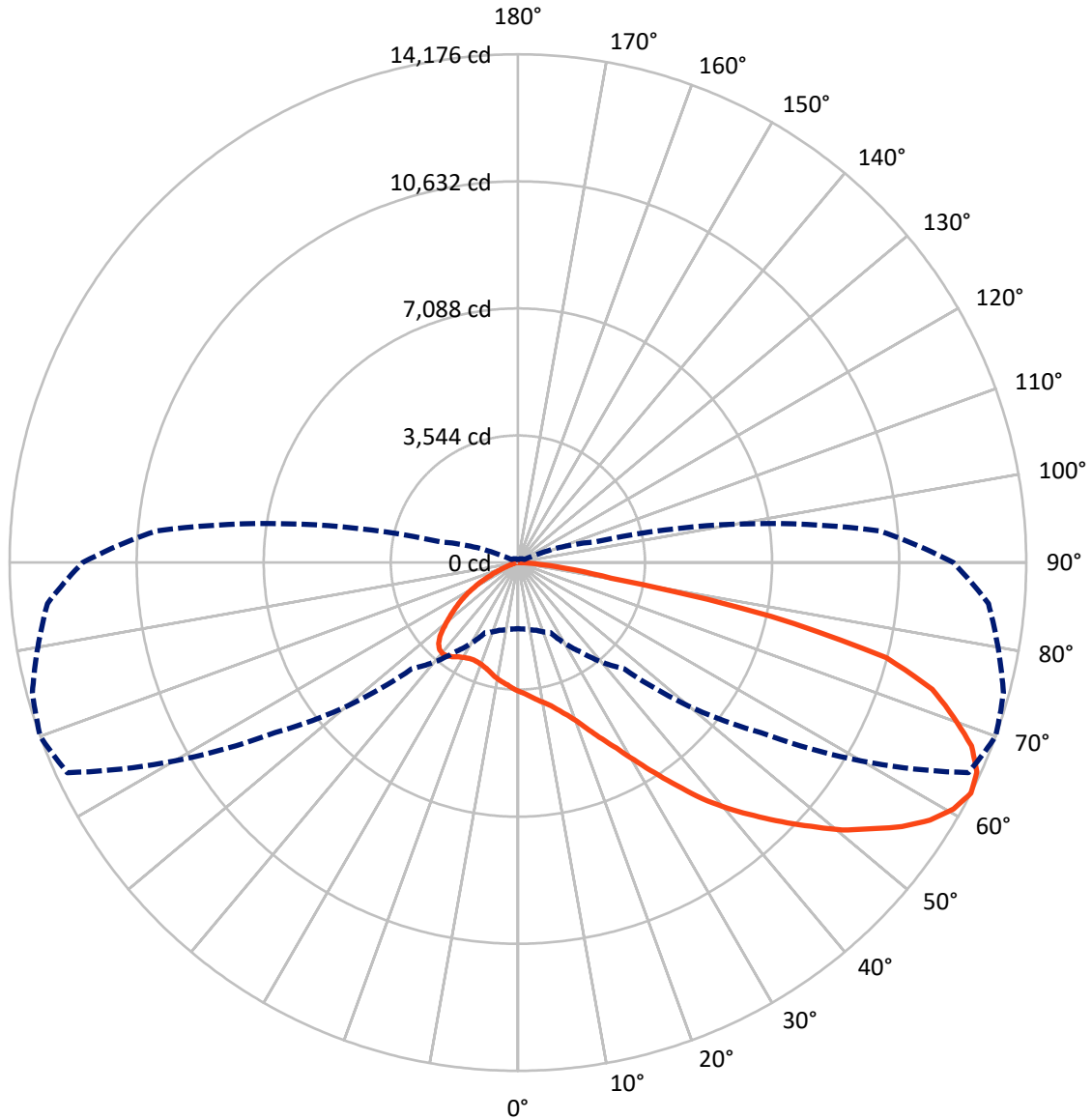
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Short - N/A

REPORT NUMBER: P509972
CATALOG NUMBER: VERD-M-CA3-180-727-U-T2-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P509972
 CATALOG NUMBER: VERD-M-CA3-180-727-U-T2-HSS

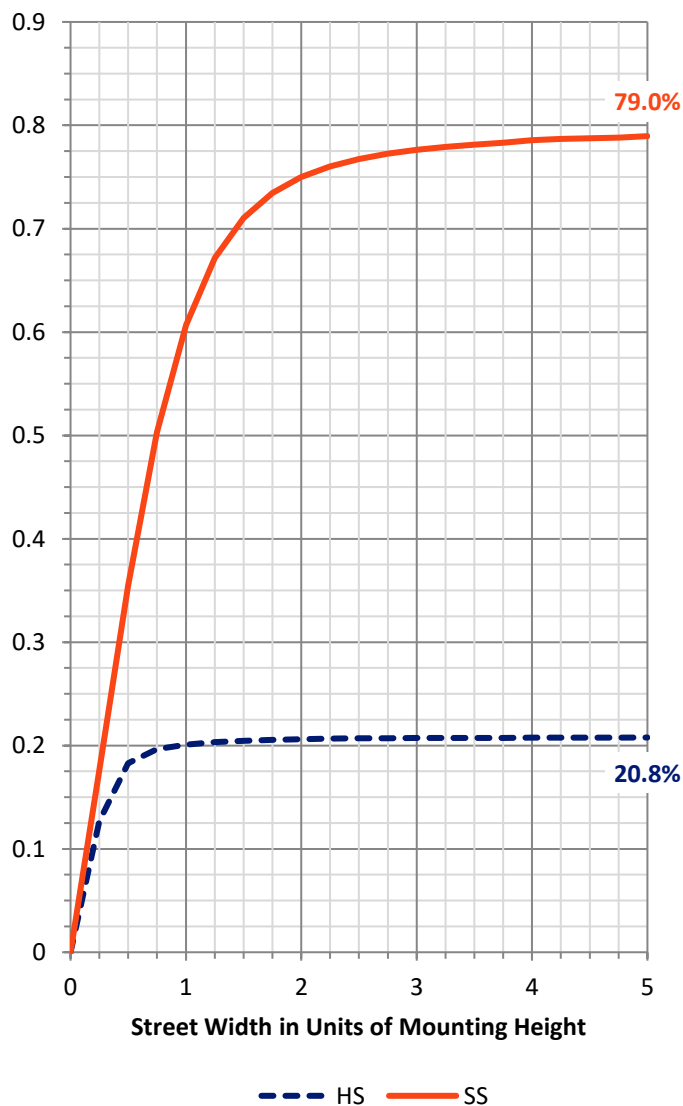
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4157.2	0.0	4157.2
	% Fixture	21.0	0.0	21.0
Street Side	Lumens	15611.8	0.0	15611.8
	% Fixture	79.0	0.0	79.0
Total	Lumens	19769.0	0.0	19769.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.2	1.7
10°-20°	1018.3	5.2
20°-30°	1726.3	8.7
30°-40°	2538.7	12.8
40°-50°	3380.7	17.1
50°-60°	3954.7	20.0
60°-70°	3977.5	20.1
70°-80°	2517.8	12.7
80°-90°	313.7	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°	19769.0	100.0
0°-180°	19769.0	100.0



REPORT NUMBER: P509972

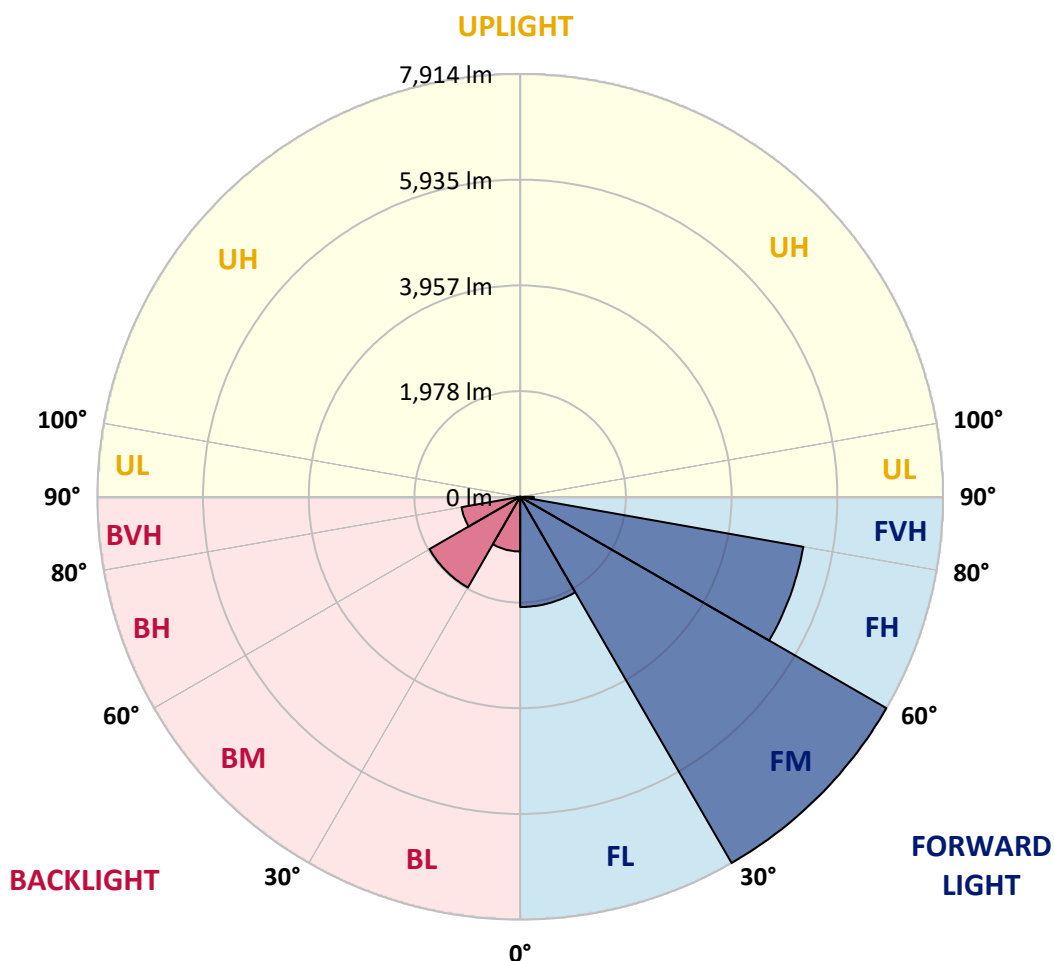
CATALOG NUMBER: VERD-M-CA3-180-727-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2062.3	10.4			
FM (30°-60°)	7913.9	40.0			
FH (60°-80°)	5381.1	27.2			G3/7500
FVH (80°-90°)	254.4	1.3			G3/500
BL (0°-30°)	1023.5	5.2	B3/2500		
BM (30°-60°)	1960.2	9.9	B2/2500		
BH (60°-80°)	1114.2	5.6	B3/2500		G3/2500
BVH (80°-90°)	59.3	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: P509972

CATALOG NUMBER: VERD-M-CA3-180-727-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3594.0	3594.0	3594.0	3594.0	3594.0	3594.0	3594.0	3594.0	3594.0	3594.0	3594.0
2.5°	3791.2	3824.4	3799.0	3789.2	3797.0	3758.0	3726.7	3681.8	3660.4	3644.7	3619.3
5°	3983.5	4038.2	4005.0	3984.5	3981.6	3910.3	3868.3	3806.8	3759.0	3717.0	3652.5
7.5°	4186.6	4218.8	4206.1	4182.7	4167.1	4080.2	4006.0	3919.1	3866.4	3810.7	3702.3
10°	4364.3	4403.4	4390.7	4348.7	4334.0	4245.2	4160.2	4042.1	3969.9	3900.5	3751.2
12.5°	4547.9	4591.8	4565.4	4523.4	4510.8	4420.9	4333.1	4189.5	4099.7	4021.6	3814.6
15°	4716.8	4756.8	4738.2	4690.4	4677.7	4601.6	4504.9	4371.1	4273.5	4170.0	3904.4
17.5°	4851.5	4891.5	4868.1	4845.6	4841.7	4766.6	4709.0	4572.3	4479.5	4338.9	4042.1
20°	4950.1	4991.1	4979.4	4990.1	5031.2	4975.5	4940.4	4825.1	4730.4	4578.1	4240.3
22.5°	5028.2	5080.9	5127.8	5149.3	5225.4	5221.5	5213.7	5145.4	5071.2	4913.0	4476.6
25°	5036.0	5096.6	5189.3	5289.9	5428.5	5494.9	5543.7	5533.0	5446.1	5289.9	4803.7
27.5°	5047.8	5110.2	5205.9	5378.7	5626.7	5782.0	5863.0	5912.8	5862.0	5757.6	5175.7
30°	5022.4	5086.8	5206.9	5427.6	5762.4	6050.5	6195.0	6379.5	6385.4	6297.5	5737.1
32.5°	4907.2	4992.1	5137.6	5433.4	5894.2	6330.7	6553.3	6907.7	6984.8	6919.4	6316.0
35°	4714.8	4791.9	4999.9	5381.7	5974.3	6564.0	6971.2	7523.8	7638.0	7634.1	6997.5
37.5°	4502.0	4580.1	4814.4	5259.6	6026.1	6772.0	7339.3	8135.0	8362.5	8314.6	7640.9
40°	4266.7	4348.7	4619.1	5106.3	6000.7	6957.5	7728.8	8727.6	9009.8	9015.7	8256.0
42.5°	3993.3	4060.7	4332.1	4894.5	5916.7	7094.2	8091.0	9351.5	9648.3	9631.7	8836.0
45°	3731.6	3801.9	4039.2	4566.4	5722.4	7170.3	8446.4	9983.2	10308.3	10255.6	9480.4
47.5°	3415.3	3515.9	3786.3	4291.1	5422.7	7164.5	8756.9	10629.6	10994.7	10951.8	10036.9
50°	2628.3	2687.9	3300.1	4007.0	5016.5	7027.8	9060.6	11264.2	11726.0	11642.0	10630.5
52.5°	2367.7	2421.4	2618.6	3666.2	4647.4	6732.0	9313.4	11990.6	12336.2	12270.8	11236.9
55°	2237.8	2267.1	2387.2	3023.8	4287.2	6251.6	9482.3	12636.0	12995.3	12850.8	11804.1
57.5°	2074.8	2110.9	2250.5	2582.5	3843.9	5514.4	9443.3	13217.9	13549.8	13328.2	12304.0
60°	1949.8	1977.1	2107.9	2324.7	3386.0	4750.9	9044.0	13789.0	13956.0	13737.3	12802.0
62.5°	1844.3	1860.0	1951.7	2157.7	3037.4	4193.4	8264.8	13865.2	14175.7	14017.5	13173.0
65°	1713.5	1717.4	1825.8	1986.9	2715.2	3858.6	7596.0	13474.7	14066.3	14013.6	13306.7
67.5°	1560.2	1568.0	1677.4	1800.4	2327.6	3502.2	6554.3	13264.7	13641.6	13608.4	13042.1
70°	1367.9	1383.5	1484.1	1577.8	1971.3	3074.5	5216.7	12434.8	12882.0	12833.2	12170.3
72.5°	1182.4	1173.6	1267.3	1360.1	1642.2	2566.8	3954.2	11006.4	12083.4	12036.5	11037.7
75°	971.5	965.6	1062.3	1150.1	1346.4	2073.8	2781.6	8139.9	10616.9	10761.4	9517.5
77.5°	598.5	603.4	659.0	717.6	911.9	1549.5	1775.0	4528.3	7212.3	8552.9	7469.1
80°	433.5	433.5	474.5	509.7	603.4	944.1	883.6	1888.3	2636.2	4128.0	4658.2
82.5°	281.2	269.5	294.9	325.1	335.9	409.1	404.2	947.1	1343.5	1616.8	1940.0
85°	146.5	162.1	97.6	137.7	145.5	135.7	139.6	444.2	596.6	764.5	841.6
87.5°	22.5	17.6	23.4	32.2	37.1	31.2	27.3	51.7	80.1	106.4	125.9
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: P509972
 CATALOG NUMBER: VERD-M-CA3-180-727-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3594.0	3594.0	3594.0	3594.0	3594.0	3594.0	3594.0	3594.0	3594.0	3594.0	3594.0
2.5°	3602.7	3597.9	3553.0	3487.5	3433.8	3388.9	3359.6	3340.1	3361.6	3322.5	3317.7
5°	3612.5	3579.3	3481.7	3387.9	3315.7	3219.0	3153.6	3109.7	3127.3	3093.1	3079.4
7.5°	3638.9	3578.3	3443.6	3294.2	3157.5	3054.0	2953.5	2856.8	2842.2	2820.7	2821.7
10°	3662.3	3575.4	3399.7	3204.4	3045.2	2862.7	2741.6	2642.0	2619.6	2594.2	2581.5
12.5°	3699.4	3582.2	3345.0	3108.7	2895.9	2685.0	2554.1	2437.0	2414.5	2364.7	2354.0
15°	3773.6	3606.7	3291.3	2990.6	2727.9	2515.1	2346.2	2243.7	2202.7	2147.0	2146.0
17.5°	3870.3	3677.9	3264.0	2879.3	2585.4	2347.2	2168.5	2065.0	1995.7	1962.5	1953.7
20°	4007.9	3770.7	3263.0	2778.7	2437.0	2167.5	1962.5	1845.3	1786.7	1759.4	1742.8
22.5°	4219.8	3907.4	3280.5	2708.4	2287.6	1993.7	1789.7	1628.6	1531.9	1456.7	1467.5
25°	4483.4	4112.4	3320.6	2644.0	2157.7	1827.7	1571.9	1348.3	1175.5	1100.4	1106.2
27.5°	4818.3	4357.5	3424.1	2578.6	2010.3	1649.1	1287.8	1003.7	872.9	785.0	791.8
30°	5246.9	4662.1	3559.8	2527.8	1873.6	1399.1	969.5	740.1	624.9	552.6	545.8
32.5°	5759.5	5103.4	3708.2	2493.6	1724.2	1086.7	699.1	542.9	430.6	389.6	395.4
35°	6394.1	5599.4	3934.7	2443.8	1468.4	773.3	498.9	367.1	309.5	301.7	302.7
37.5°	6973.1	6107.1	4159.3	2359.8	1158.9	549.7	338.8	279.2	266.5	263.6	267.5
40°	7540.4	6569.9	4362.3	2237.8	796.7	376.9	249.0	251.9	241.2	233.3	229.4
42.5°	8071.5	7016.1	4521.5	2013.2	544.8	249.0	220.7	229.4	227.5	211.9	205.0
45°	8644.6	7487.7	4609.4	1698.9	342.7	211.9	198.2	213.8	223.6	206.0	198.2
47.5°	9133.8	7947.5	4605.5	1301.5	232.4	200.2	186.5	200.2	211.9	199.2	192.3
50°	9698.1	8328.3	4480.5	826.0	206.0	185.5	178.7	183.6	199.2	190.4	183.6
52.5°	10324.9	8849.7	4291.1	460.8	195.3	175.7	166.0	171.8	185.5	174.8	178.7
55°	10844.4	9282.2	3845.9	314.4	190.4	164.0	158.2	162.1	167.9	157.2	163.1
57.5°	11308.1	9639.5	3395.8	257.8	183.6	156.2	155.2	147.4	146.5	139.6	133.8
60°	11777.8	9921.7	2788.5	233.3	176.7	157.2	140.6	129.9	121.1	114.2	111.3
62.5°	12138.0	10117.0	2205.6	210.9	167.0	147.4	128.9	111.3	96.7	87.9	87.9
65°	12243.5	10030.1	1552.4	191.4	156.2	138.6	115.2	90.8	73.2	67.4	64.4
67.5°	11905.7	9531.2	1080.8	176.7	145.5	128.9	101.5	74.2	58.6	50.8	48.8
70°	11045.5	8696.4	637.6	156.2	131.8	112.3	92.8	60.5	47.8	40.0	38.1
72.5°	9774.3	7444.7	397.4	132.8	113.3	91.8	69.3	49.8	38.1	31.2	30.3
75°	8073.5	5803.4	259.7	102.5	89.8	72.3	52.7	40.0	33.2	26.4	24.4
77.5°	6474.2	4105.6	232.4	78.1	66.4	51.7	40.0	33.2	27.3	23.4	23.4
80°	3725.8	2343.2	190.4	53.7	41.0	39.1	31.2	27.3	25.4	22.5	21.5
82.5°	1830.7	1125.7	123.0	33.2	23.4	25.4	26.4	24.4	21.5	19.5	19.5
85°	630.7	374.9	49.8	21.5	15.6	15.6	16.6	17.6	16.6	15.6	15.6
87.5°	97.6	71.3	13.7	12.7	9.8	8.8	9.8	10.7	10.7	9.8	9.8
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)