

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: P510281

Luminaire Tested: **VERD-M-CA4-240-740-U-T4**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510281
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-6)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA4-240-740-U-T4
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 4000K, 1090mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33390 lumens
Efficiency: N/A
Efficacy: 137.8 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

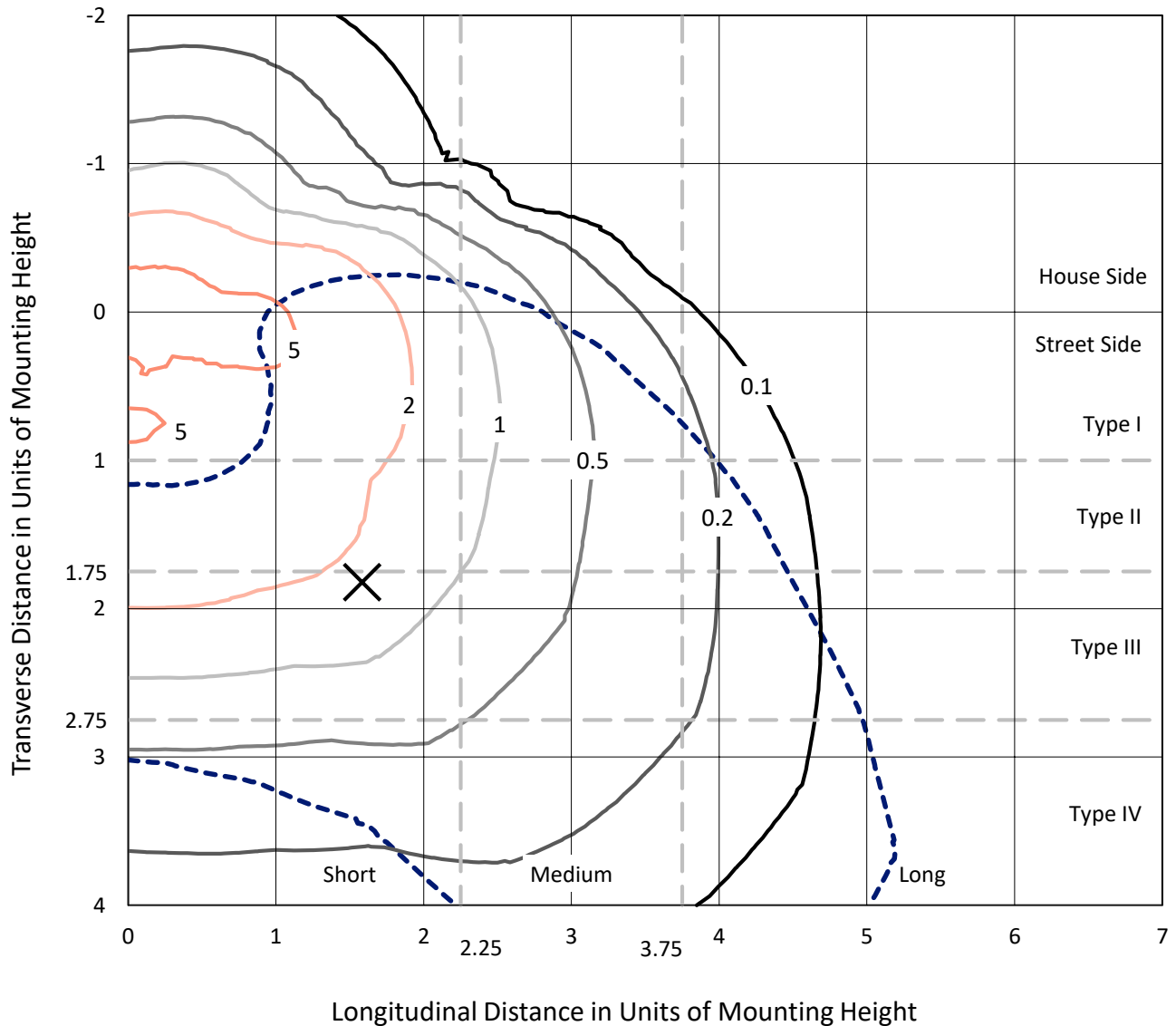
Input Watts (W): 242.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

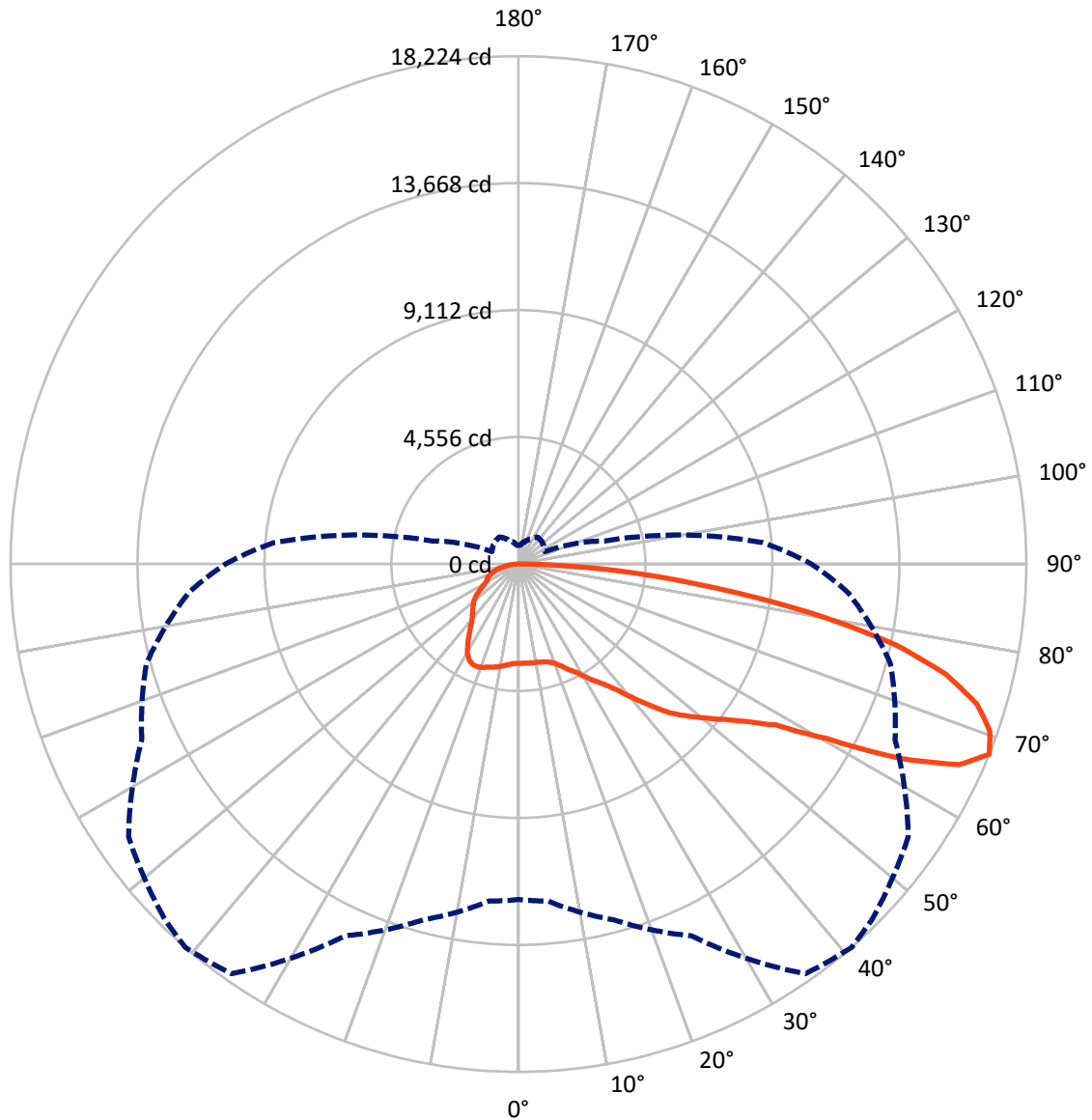
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 41-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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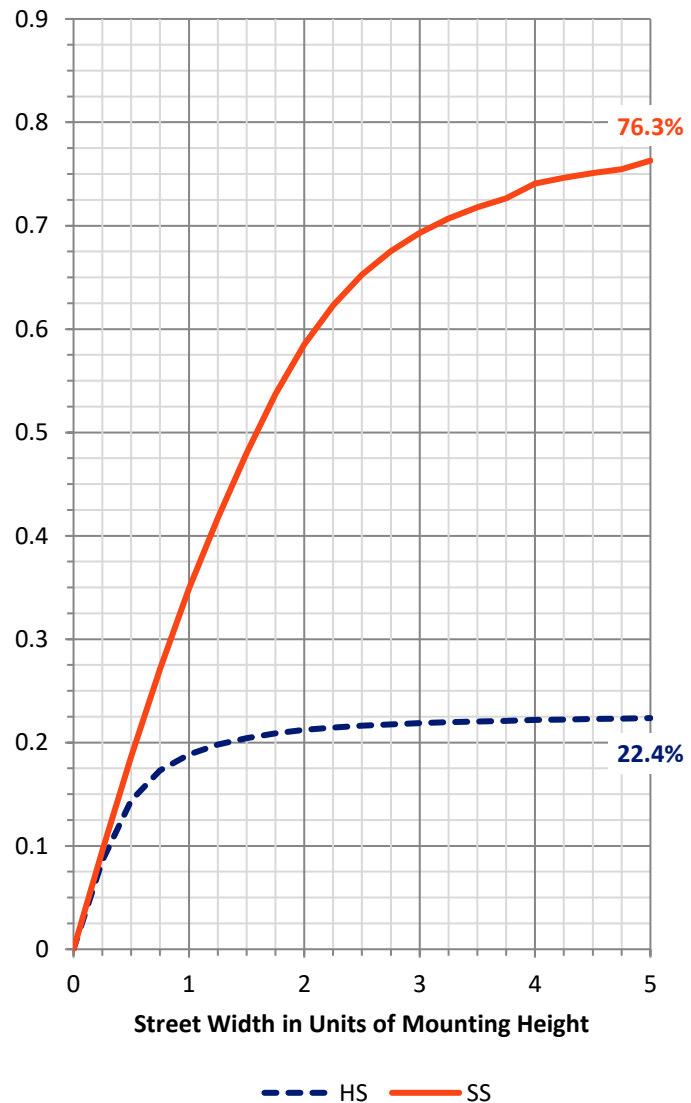
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7556.0	0.0	7556.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	25834.0	0.0	25834.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	33390.0	0.0	33390.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.5	1.0
10°-20°	1068.4	3.2
20°-30°	1910.6	5.7
30°-40°	2995.8	9.0
40°-50°	4645.7	13.9
50°-60°	6549.2	19.6
60°-70°	8348.7	25.0
70°-80°	6247.6	18.7
80°-90°	1279.6	3.8
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°	33390.0	100.0
0°-180°	33390.0	100.0



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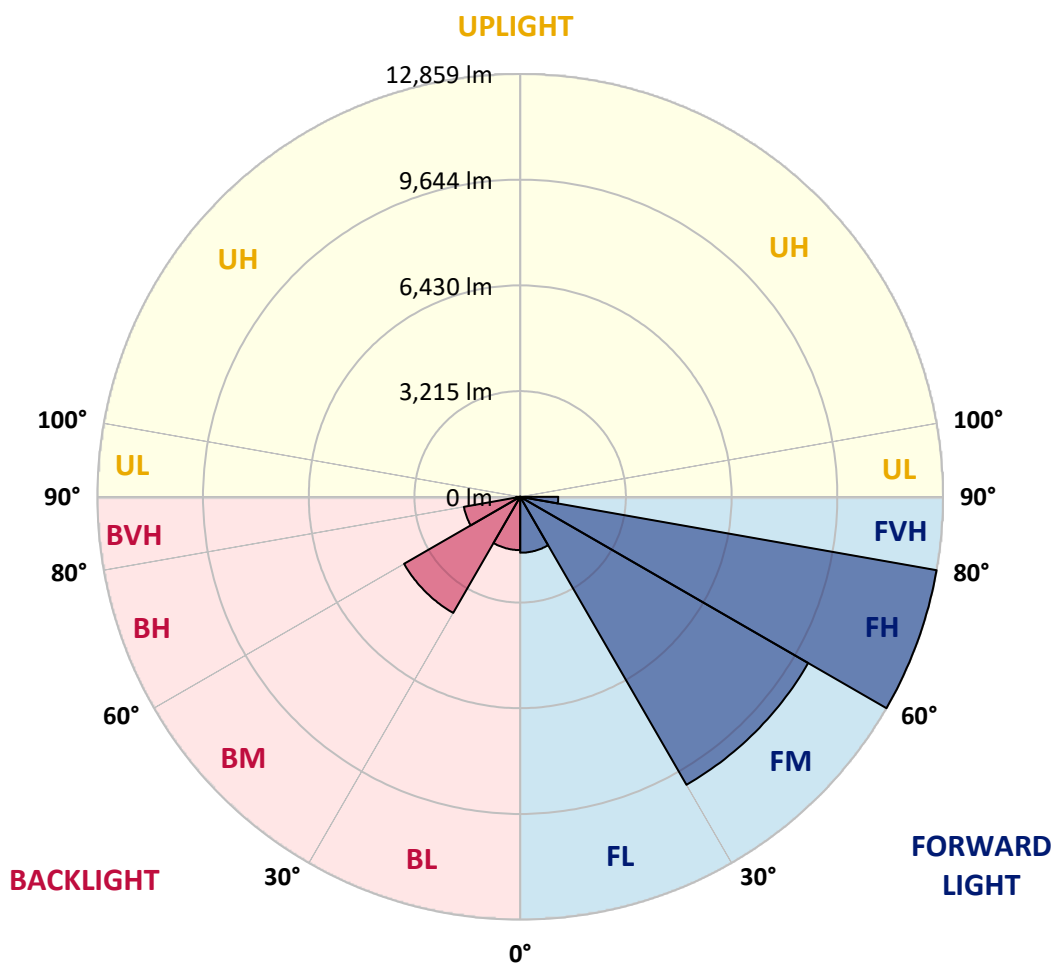
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1701.2	5.1			
FM	(30°-60°)	10113.6	30.3			
FH	(60°-80°)	12859.2	38.5			G5
FVH	(80°-90°)	1160.0	3.5			G5
BL	(0°-30°)	1622.2	4.9	B3/2500		
BM	(30°-60°)	4077.1	12.2	B3/5000		
BH	(60°-80°)	1737.1	5.2	B3/2500		G3/2500
BVH	(80°-90°)	119.5	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0
2.5°	3521.1	3561.9	3555.9	3548.3	3560.4	3561.9	3527.2	3540.8	3548.3	3560.4	3580.1
5°	3530.2	3571.0	3568.0	3554.4	3563.4	3568.0	3536.2	3560.4	3560.4	3565.0	3587.6
7.5°	3510.6	3549.8	3549.8	3545.3	3565.0	3583.1	3554.4	3575.5	3587.6	3599.7	3614.8
10°	3492.4	3525.7	3537.8	3534.7	3580.1	3584.6	3565.0	3616.3	3636.0	3648.1	3666.2
12.5°	3472.8	3513.6	3530.2	3546.8	3595.2	3611.8	3601.2	3654.1	3694.9	3716.1	3735.7
15°	3463.7	3509.0	3536.2	3560.4	3613.3	3643.5	3643.5	3723.6	3772.0	3799.2	3834.0
17.5°	3527.2	3574.0	3595.2	3614.8	3663.2	3704.0	3701.0	3794.7	3865.7	3908.0	3971.5
20°	3684.3	3740.3	3752.3	3759.9	3790.1	3805.2	3800.7	3902.0	4000.2	4080.3	4151.3
22.5°	3957.9	3991.1	3997.2	3966.9	3974.5	3986.6	3979.0	4034.9	4146.8	4240.5	4367.4
25°	4181.5	4234.4	4219.3	4175.5	4181.5	4198.2	4175.5	4261.6	4341.7	4464.1	4592.6
27.5°	4417.3	4456.6	4440.0	4412.8	4406.7	4394.6	4390.1	4500.4	4618.3	4715.0	4905.4
30°	4704.4	4725.6	4677.2	4665.1	4675.7	4683.3	4654.5	4795.1	4902.4	5041.4	5298.3
32.5°	5188.0	5207.6	5138.1	4952.3	4956.8	4991.5	4967.4	5144.2	5346.7	5515.9	5777.4
35°	5804.6	5804.6	5750.2	5488.7	5290.8	5292.3	5298.3	5547.7	5924.0	6303.3	6572.3
37.5°	6428.7	6449.9	6347.1	6108.3	5857.5	5724.5	5612.7	5933.0	6425.7	7272.0	7672.4
40°	7078.5	7111.8	6957.6	6738.5	6449.9	6298.7	6168.8	6363.7	7028.7	8231.6	8548.9
42.5°	7646.8	7693.6	7534.9	7303.7	7102.7	6931.9	6735.5	6814.1	7692.1	9142.9	9322.7
45°	8175.7	8201.4	8066.9	7876.5	7710.2	7616.5	7479.0	7569.7	8450.7	10034.5	10001.2
47.5°	8565.6	8603.4	8480.9	8378.2	8207.4	8151.5	8150.0	8399.3	9304.6	10744.7	10590.6
50°	9198.8	9170.1	8895.0	8769.6	8665.3	8683.4	8727.3	9158.0	10308.0	11429.3	11086.3
52.5°	10261.2	10208.3	9597.7	9336.3	9207.8	9266.8	9289.4	9845.6	11320.5	12020.2	11495.8
55°	11634.9	11465.6	11021.3	10320.1	9916.6	9972.5	9946.8	10584.6	12130.5	12583.9	11799.6
57.5°	12543.1	12701.8	12488.7	12088.2	11086.3	10903.4	10843.0	11316.0	12880.1	13123.4	12113.9
60°	13331.9	13594.9	13933.4	13676.5	13406.0	12721.4	12157.7	12147.2	13540.5	13483.1	12240.8
62.5°	14164.6	14303.7	14825.0	14983.7	15485.4	15360.0	14604.4	13199.0	14200.9	13746.0	12314.9
65°	13322.9	13508.8	14457.8	15323.7	17181.0	17362.4	17116.0	15154.5	14658.8	13880.5	12209.1
67.5°	12041.4	12144.1	13218.6	14720.8	17948.7	18223.8	17975.9	17073.7	14912.7	13821.6	11882.7
70°	10398.7	10519.6	11545.7	13594.9	17909.4	17945.7	17849.0	17250.5	14811.4	13545.0	11060.6
72.5°	8431.1	8583.7	9485.9	11613.7	17051.0	17208.2	17055.6	16899.9	14527.3	12771.3	9644.6
75°	6378.8	6581.3	7386.8	9259.2	15068.3	15860.2	15879.9	16360.4	13424.1	10948.8	7000.0
77.5°	4350.8	4544.2	5307.4	7054.4	12508.3	13773.2	14102.7	14628.6	11216.2	8091.0	3818.8
80°	2449.7	2431.5	3400.2	5039.9	9540.3	10651.0	11065.1	11044.0	7876.5	4154.3	778.3
82.5°	1131.9	1134.9	1739.4	3217.4	6458.9	7191.9	7359.6	6406.0	2764.0	704.2	247.8
85°	563.7	569.7	837.2	1614.0	3646.6	4213.3	4004.7	2665.8	592.4	205.5	148.1
87.5°	223.7	214.6	331.0	663.4	1316.3	1394.9	1218.0	533.5	107.3	72.5	49.9
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°	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0
2.5°	3575.5	3578.6	3592.2	3565.0	3572.5	3566.5	3561.9	3586.1	3584.6	3589.1	3581.6
5°	3586.1	3593.7	3607.3	3595.2	3607.3	3601.2	3605.8	3639.0	3643.5	3642.0	3642.0
7.5°	3614.8	3622.4	3648.1	3633.0	3660.2	3652.6	3654.1	3685.9	3691.9	3682.8	3679.8
10°	3675.3	3681.3	3717.6	3714.6	3725.1	3719.1	3713.1	3726.7	3723.6	3710.0	3704.0
12.5°	3744.8	3761.4	3802.2	3803.7	3817.3	3787.1	3755.4	3750.8	3741.8	3720.6	3716.1
15°	3849.1	3868.7	3930.7	3915.6	3906.5	3841.5	3788.6	3746.3	3710.0	3691.9	3675.3
17.5°	3998.7	4031.9	4118.1	4071.2	4004.7	3909.5	3817.3	3725.1	3648.1	3583.1	3557.4
20°	4189.1	4226.9	4299.4	4237.4	4136.2	3994.1	3844.5	3678.3	3510.6	3367.0	3345.8
22.5°	4415.8	4476.2	4529.1	4387.1	4237.4	4057.6	3844.5	3605.8	3327.7	3113.1	3060.2
25°	4680.2	4727.1	4710.5	4511.0	4294.9	4068.2	3802.2	3477.3	3084.4	2835.0	2792.7
27.5°	4967.4	4988.5	4860.1	4569.9	4300.9	4006.2	3682.8	3249.1	2800.3	2603.8	2563.0
30°	5321.0	5257.5	5012.7	4606.2	4240.5	3868.7	3469.8	2915.1	2569.1	2396.8	2349.9
32.5°	5701.8	5585.5	5121.5	4580.5	4107.5	3639.0	3140.3	2679.4	2414.9	2204.9	2165.6
35°	6427.2	6096.2	5280.2	4503.4	3876.3	3332.2	2821.4	2498.0	2251.7	2026.5	1990.3
37.5°	7406.5	6830.7	5502.3	4396.1	3602.7	3034.5	2584.2	2304.6	2091.5	1858.8	1801.4
40°	8168.1	7572.7	5859.0	4281.3	3350.4	2751.9	2411.9	2203.4	1985.7	1737.9	1688.0
42.5°	8893.5	8251.2	6297.2	4152.8	3090.4	2555.5	2336.3	2180.7	1957.0	1704.7	1657.8
45°	9534.3	8799.8	6675.0	4024.4	2797.3	2374.1	2280.4	2136.9	1916.2	1662.3	1617.0
47.5°	10052.6	9271.3	7003.0	3885.3	2531.3	2236.6	2207.9	2056.8	1837.6	1576.2	1521.8
50°	10521.1	9670.3	7229.7	3737.2	2271.4	2124.8	2088.5	1910.2	1682.0	1450.8	1416.0
52.5°	10809.7	9940.8	7365.7	3761.4	2025.0	1999.3	1940.4	1757.5	1546.0	1348.0	1302.7
55°	11112.0	10196.2	7364.2	3625.4	1819.5	1810.4	1754.5	1614.0	1447.7	1281.5	1254.3
57.5°	11235.9	10218.8	7226.6	2986.2	1638.2	1580.7	1568.6	1494.6	1349.5	1192.3	1162.1
60°	11319.0	10119.1	6966.7	2038.6	1410.0	1369.2	1428.1	1378.2	1246.8	1082.0	1051.8
62.5°	11237.4	10010.3	6285.1	1471.9	1236.2	1258.8	1314.8	1260.4	1122.8	973.2	947.5
65°	11042.5	9594.7	4962.8	1147.0	1159.1	1209.0	1252.8	1162.1	909.8	761.7	746.5
67.5°	10510.5	8804.3	3193.2	1051.8	1115.3	1166.7	1181.8	983.8	823.6	681.6	664.9
70°	9390.7	7068.0	1230.1	991.4	1071.5	1094.1	1032.2	902.2	757.1	634.7	619.6
72.5°	7346.0	4640.9	710.3	906.7	977.8	956.6	958.1	810.0	683.1	566.7	554.6
75°	4565.4	1680.5	631.7	807.0	828.1	867.4	817.6	702.7	587.9	518.3	503.2
77.5°	1509.7	477.5	584.8	695.2	742.0	713.3	684.6	600.0	503.2	448.8	441.3
80°	365.7	358.2	524.4	544.0	581.8	533.5	530.4	498.7	424.7	392.9	385.4
82.5°	225.2	256.9	417.1	338.5	388.4	392.9	447.3	411.1	309.8	321.9	311.3
85°	139.0	198.0	219.1	163.2	164.7	220.6	267.5	247.8	185.9	175.3	173.8
87.5°	46.8	40.8	46.8	34.8	46.8	80.1	120.9	114.9	77.1	52.9	49.9
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)