

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: P510289

Luminaire Tested: **VERD-M-CA4-240-750-U-T4**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510289
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-CA4-240-750-U-T4
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 5000K, 1090mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34002 lumens
Efficiency: N/A
Efficacy: 140.3 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

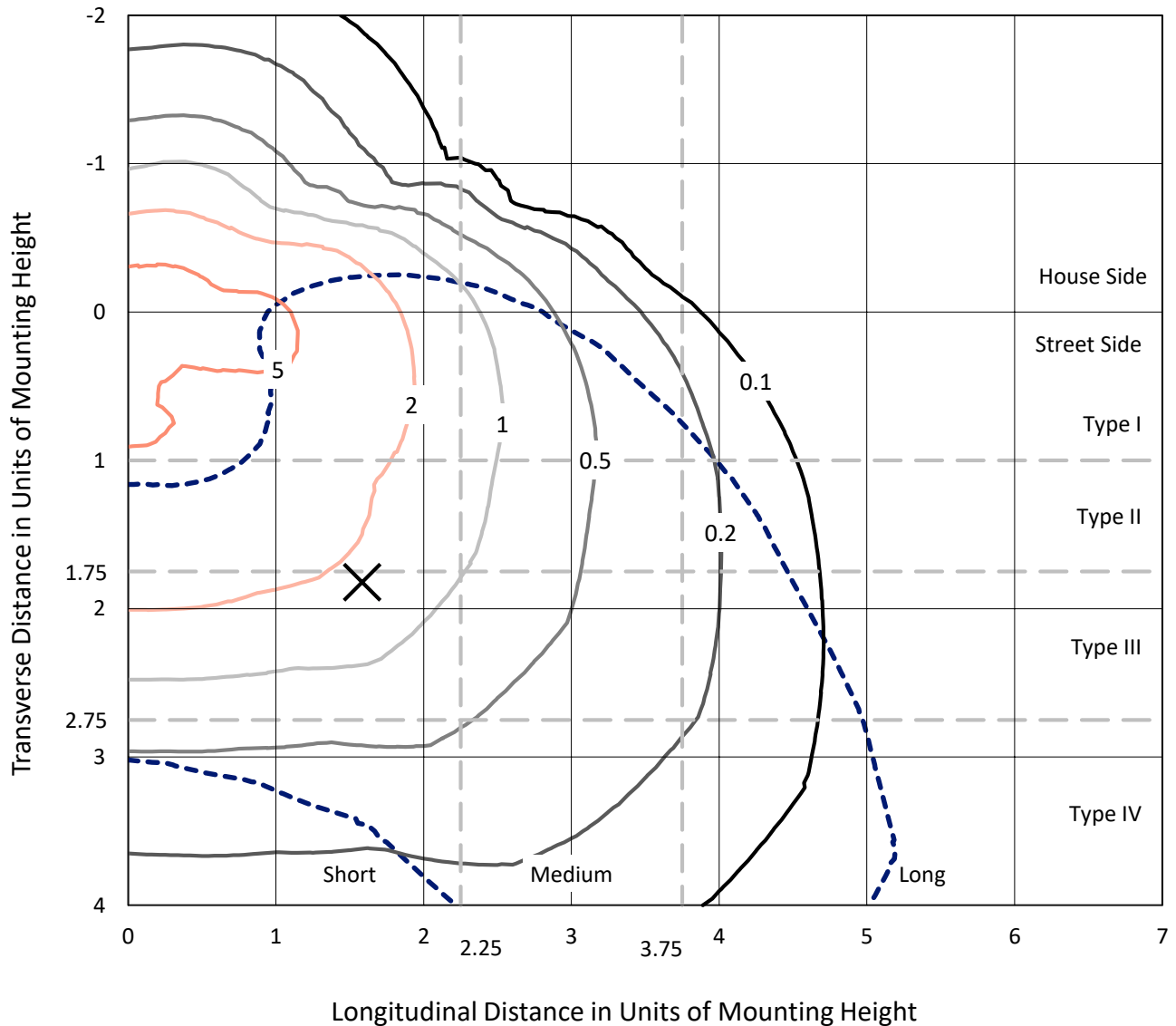
Input Watts (W): 242.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

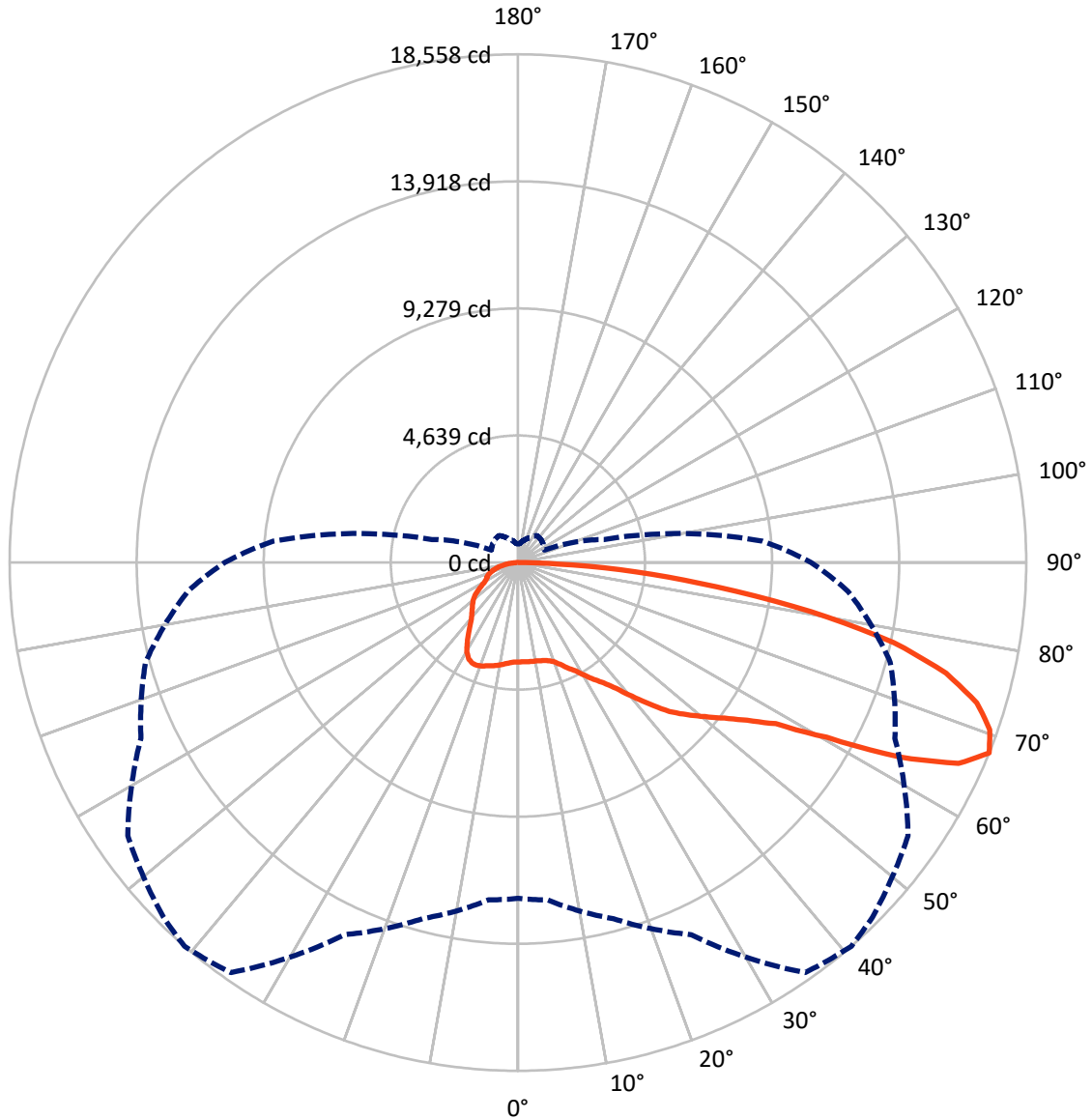
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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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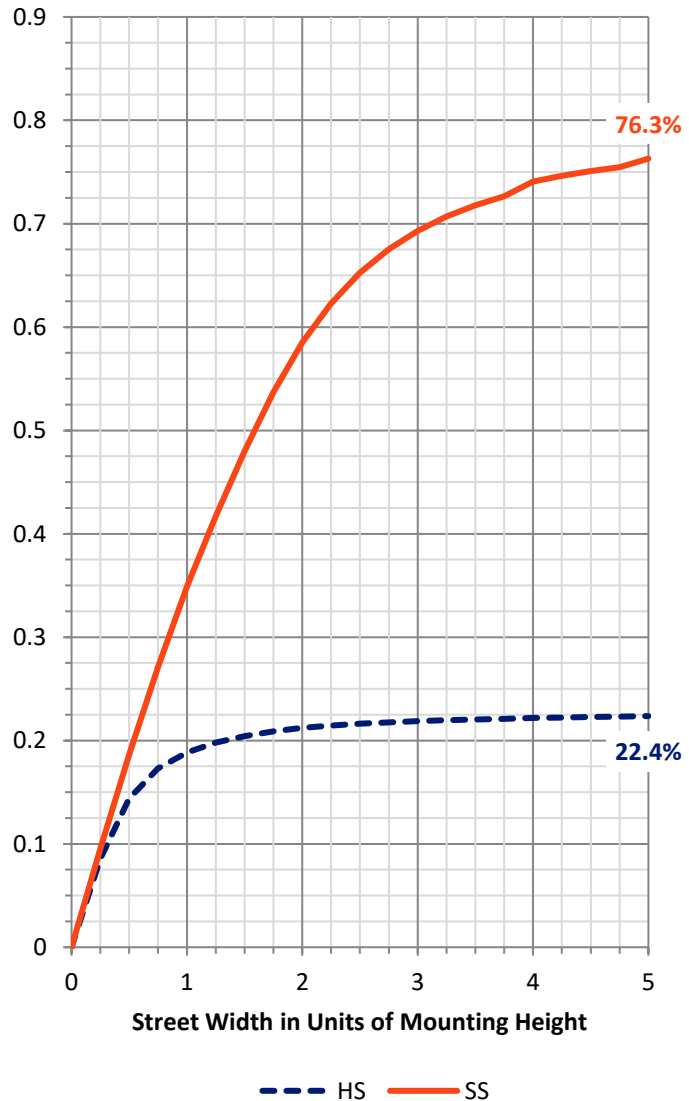
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7694.5	0.0	7694.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	26307.5	0.0	26307.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	34002.0	0.0	34002.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.8	1.0
10°-20°	1088.0	3.2
20°-30°	1945.6	5.7
30°-40°	3050.7	9.0
40°-50°	4730.8	13.9
50°-60°	6669.3	19.6
60°-70°	8501.7	25.0
70°-80°	6362.1	18.7
80°-90°	1303.0	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°	34002.0	100.0
0°-180°	34002.0	100.0

Coefficient of Utilization



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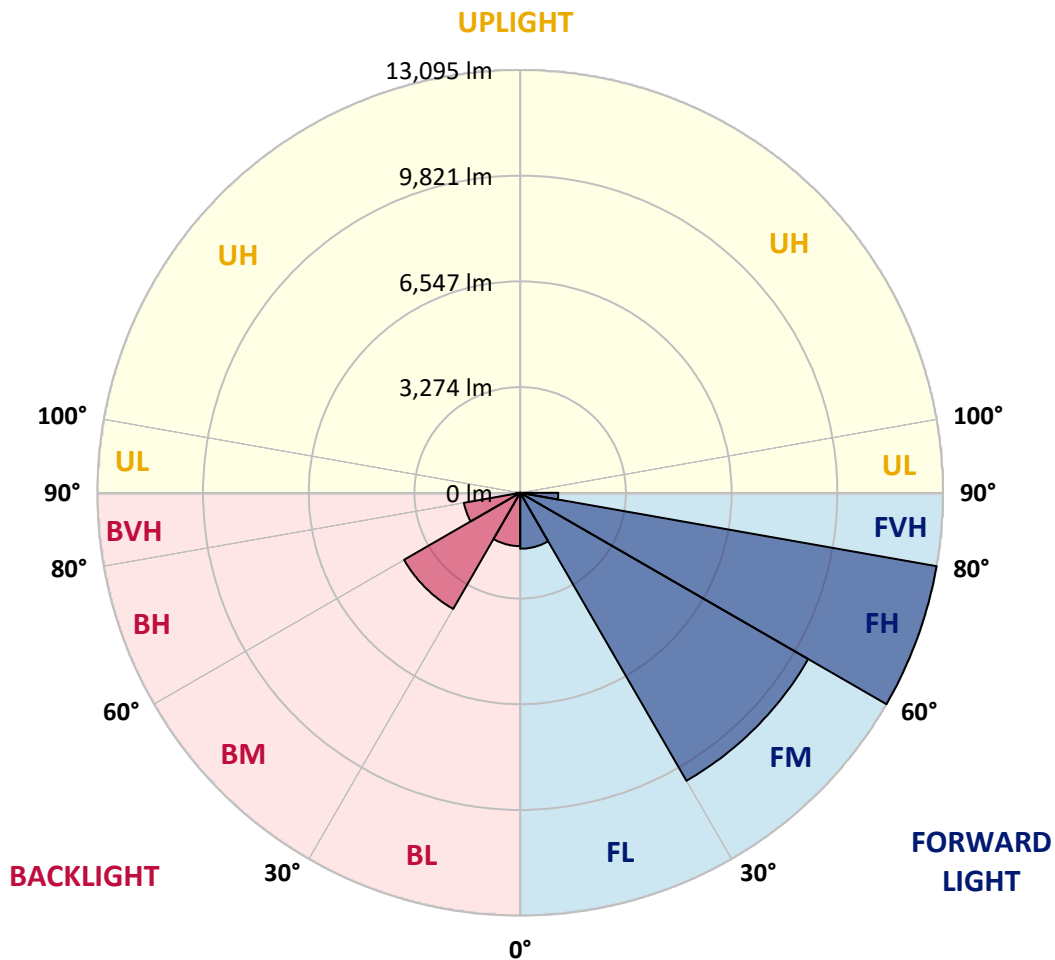
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1732.4	5.1			
FM	(30°-60°)	10298.9	30.3			
FH	(60°-80°)	13094.9	38.5			G5
FVH	(80°-90°)	1181.3	3.5			G5
BL	(0°-30°)	1652.0	4.9	B3/2500		
BM	(30°-60°)	4151.9	12.2	B3/5000		
BH	(60°-80°)	1769.0	5.2	B3/2500		G3/2500
BVH	(80°-90°)	121.7	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°	3630.3	3630.3	3630.3	3630.3	3630.3	3630.3	3630.3	3630.3	3630.3	3630.3	3630.3
2.5°	3585.7	3627.2	3621.1	3613.4	3625.7	3627.2	3591.8	3605.7	3613.4	3625.7	3645.7
5°	3594.9	3636.5	3633.4	3619.5	3628.8	3633.4	3601.1	3625.7	3625.7	3630.3	3653.4
7.5°	3574.9	3614.9	3614.9	3610.3	3630.3	3648.8	3619.5	3641.1	3653.4	3665.7	3681.1
10°	3556.4	3590.3	3602.6	3599.5	3645.7	3650.3	3630.3	3682.6	3702.6	3714.9	3733.4
12.5°	3536.4	3578.0	3594.9	3611.8	3661.1	3678.0	3667.2	3721.1	3762.6	3784.2	3804.2
15°	3527.2	3573.4	3601.1	3625.7	3679.5	3710.3	3710.3	3791.9	3841.1	3868.8	3904.2
17.5°	3591.8	3639.5	3661.1	3681.1	3730.3	3771.9	3768.8	3864.2	3936.5	3979.6	4044.3
20°	3751.9	3808.8	3821.1	3828.8	3859.6	3875.0	3870.4	3973.5	4073.5	4155.1	4227.4
22.5°	4030.4	4064.3	4070.4	4039.7	4047.3	4059.7	4052.0	4108.9	4222.8	4318.2	4447.5
25°	4258.2	4312.0	4296.6	4252.0	4258.2	4275.1	4252.0	4339.7	4421.3	4546.0	4676.8
27.5°	4498.2	4538.3	4521.3	4493.6	4487.5	4475.2	4470.5	4582.9	4702.9	4801.4	4995.3
30°	4790.6	4812.2	4762.9	4750.6	4761.4	4769.1	4739.9	4883.0	4992.2	5133.8	5395.4
32.5°	5283.1	5303.1	5232.3	5043.0	5047.6	5083.0	5058.4	5238.5	5444.7	5617.0	5883.3
35°	5911.0	5911.0	5855.6	5589.3	5387.7	5389.3	5395.4	5649.4	6032.5	6418.8	6692.7
37.5°	6546.5	6568.1	6463.4	6220.3	5964.8	5829.4	5715.5	6041.8	6543.5	7405.3	7813.1
40°	7208.3	7242.1	7085.2	6862.0	6568.1	6414.2	6281.8	6480.4	7157.5	8382.5	8705.6
42.5°	7786.9	7834.6	7673.0	7437.6	7232.9	7059.0	6858.9	6939.0	7833.1	9310.4	9493.6
45°	8325.5	8351.7	8214.7	8020.8	7851.5	7756.1	7616.1	7708.4	8605.6	10218.4	10184.5
47.5°	8722.6	8761.0	8636.4	8531.7	8357.8	8300.9	8299.4	8553.3	9475.1	10941.7	10784.7
50°	9367.4	9338.1	9058.1	8930.3	8824.1	8842.6	8887.2	9325.8	10496.9	11638.8	11289.5
52.5°	10449.2	10395.4	9773.6	9507.4	9376.6	9436.6	9459.7	10026.0	11528.0	12240.5	11706.5
55°	11848.1	11675.7	11223.3	10509.2	10098.4	10155.3	10129.1	10778.6	12352.9	12814.5	12015.8
57.5°	12773.0	12934.6	12717.6	12309.8	11289.5	11103.3	11041.7	11523.4	13116.2	13363.9	12335.9
60°	13576.3	13844.1	14188.8	13927.2	13651.7	12954.6	12380.6	12369.8	13788.7	13730.2	12465.2
62.5°	14424.2	14565.8	15096.8	15258.3	15769.3	15641.5	14872.1	13440.9	14461.2	13998.0	12540.6
65°	13567.1	13756.4	14722.8	15604.6	17495.9	17680.6	17429.7	15432.2	14927.5	14134.9	12432.9
67.5°	12262.1	12366.7	13460.9	14990.6	18277.7	18557.8	18305.4	17386.7	15186.0	14074.9	12100.5
70°	10589.3	10712.4	11757.3	13844.1	18237.7	18274.6	18176.1	17566.7	15082.9	13793.3	11263.3
72.5°	8585.6	8741.0	9659.8	11826.6	17363.6	17523.6	17368.2	17209.7	14793.6	13005.4	9821.4
75°	6495.8	6702.0	7522.2	9428.9	15344.5	16150.9	16170.9	16660.3	13670.2	11149.4	7128.3
77.5°	4430.5	4627.5	5404.7	7183.7	12737.6	14025.7	14361.2	14896.7	11421.8	8239.3	3888.8
80°	2494.6	2476.1	3462.6	5132.3	9715.2	10846.3	11267.9	11246.4	8020.8	4230.5	792.5
82.5°	1152.6	1155.7	1771.3	3276.3	6577.3	7323.7	7494.5	6523.5	2814.7	717.1	252.4
85°	574.0	580.2	852.6	1643.6	3713.4	4290.5	4078.1	2714.6	603.3	209.3	150.8
87.5°	227.8	218.5	337.0	675.6	1340.4	1420.4	1240.4	543.2	109.3	73.9	50.8
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°	3630.3	3630.3	3630.3	3630.3	3630.3	3630.3	3630.3	3630.3	3630.3	3630.3	3630.3
2.5°	3641.1	3644.1	3658.0	3630.3	3638.0	3631.8	3627.2	3651.8	3650.3	3654.9	3647.2
5°	3651.8	3659.5	3673.4	3661.1	3673.4	3667.2	3671.9	3705.7	3710.3	3708.8	3708.8
7.5°	3681.1	3688.8	3714.9	3699.6	3727.3	3719.6	3721.1	3753.4	3759.6	3750.3	3747.3
10°	3742.6	3748.8	3785.7	3782.7	3793.4	3787.3	3781.1	3795.0	3791.9	3778.0	3771.9
12.5°	3813.4	3830.4	3871.9	3873.4	3887.3	3856.5	3824.2	3819.6	3810.4	3788.8	3784.2
15°	3919.6	3939.6	4002.7	3987.3	3978.1	3911.9	3858.1	3815.0	3778.0	3759.6	3742.6
17.5°	4072.0	4105.8	4193.5	4145.8	4078.1	3981.2	3887.3	3793.4	3714.9	3648.8	3622.6
20°	4265.9	4304.3	4378.2	4315.1	4212.0	4067.4	3915.0	3745.7	3574.9	3428.7	3407.2
22.5°	4496.7	4558.3	4612.1	4467.5	4315.1	4132.0	3915.0	3671.9	3388.7	3170.2	3116.3
25°	4766.0	4813.7	4796.8	4593.7	4373.6	4142.8	3871.9	3541.0	3140.9	2887.0	2843.9
27.5°	5058.4	5080.0	4949.1	4653.7	4379.8	4079.7	3750.3	3308.7	2851.6	2651.5	2610.0
30°	5418.5	5353.9	5104.6	4690.6	4318.2	3939.6	3533.3	2968.6	2616.2	2440.7	2393.0
32.5°	5806.3	5687.8	5215.4	4664.5	4182.8	3705.7	3197.9	2728.5	2459.2	2245.3	2205.3
35°	6545.0	6208.0	5377.0	4586.0	3947.3	3393.3	2873.2	2543.8	2293.0	2063.7	2026.8
37.5°	7542.2	6955.9	5603.2	4476.7	3668.8	3090.1	2631.5	2346.8	2129.9	1892.9	1834.4
40°	8317.8	7711.5	5966.4	4359.7	3411.8	2802.4	2456.1	2243.7	2022.1	1769.8	1719.0
42.5°	9056.5	8402.5	6412.7	4228.9	3147.1	2602.3	2379.2	2220.7	1992.9	1735.9	1688.2
45°	9709.0	8961.1	6797.4	4098.1	2848.5	2417.6	2322.2	2176.0	1951.3	1692.8	1646.6
47.5°	10236.9	9441.2	7131.3	3956.5	2577.7	2277.6	2248.4	2094.5	1871.3	1605.1	1549.7
50°	10713.9	9847.5	7362.2	3805.7	2313.0	2163.7	2126.8	1945.2	1712.8	1477.4	1442.0
52.5°	11007.9	10123.0	7500.7	3830.4	2062.1	2036.0	1976.0	1789.8	1574.3	1372.7	1326.5
55°	11315.6	10383.1	7499.1	3691.9	1852.9	1843.6	1786.7	1643.6	1474.3	1305.0	1277.3
57.5°	11441.8	10406.1	7359.1	3040.9	1668.2	1609.7	1597.4	1522.0	1374.3	1214.2	1183.4
60°	11526.5	10304.6	7094.4	2076.0	1435.8	1394.3	1454.3	1403.5	1269.6	1101.9	1071.1
62.5°	11443.4	10193.8	6400.3	1498.9	1258.8	1281.9	1338.9	1283.5	1143.4	991.1	964.9
65°	11244.8	9770.6	5053.8	1168.0	1180.3	1231.1	1275.8	1183.4	926.4	775.6	760.2
67.5°	10703.2	8965.7	3251.7	1071.1	1135.7	1188.0	1203.4	1001.8	838.7	694.1	677.1
70°	9562.8	7197.5	1252.7	1009.5	1091.1	1114.2	1051.1	918.7	771.0	646.3	631.0
72.5°	7480.7	4726.0	723.3	923.3	995.7	974.1	975.7	824.9	695.6	577.1	564.8
75°	4649.1	1711.3	643.3	821.8	843.3	883.3	832.6	715.6	598.6	527.8	512.5
77.5°	1537.4	486.3	595.6	707.9	755.6	726.4	697.1	610.9	512.5	457.1	449.4
80°	372.4	364.7	534.0	554.0	592.5	543.2	540.2	507.8	432.4	400.1	392.4
82.5°	229.3	261.6	424.7	344.7	395.5	400.1	455.5	418.6	315.5	327.8	317.0
85°	141.6	201.6	223.1	166.2	167.7	224.7	272.4	252.4	189.3	178.5	177.0
87.5°	47.7	41.6	47.7	35.4	47.7	81.6	123.1	117.0	78.5	53.9	50.8
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)