

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: P510345

Luminaire Tested: **VERD-M-CA4-250-760-U-T4**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510345
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-CA4-250-760-U-T4
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 5700K, 1130mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34398 lumens
Efficiency: N/A
Efficacy: 136.7 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

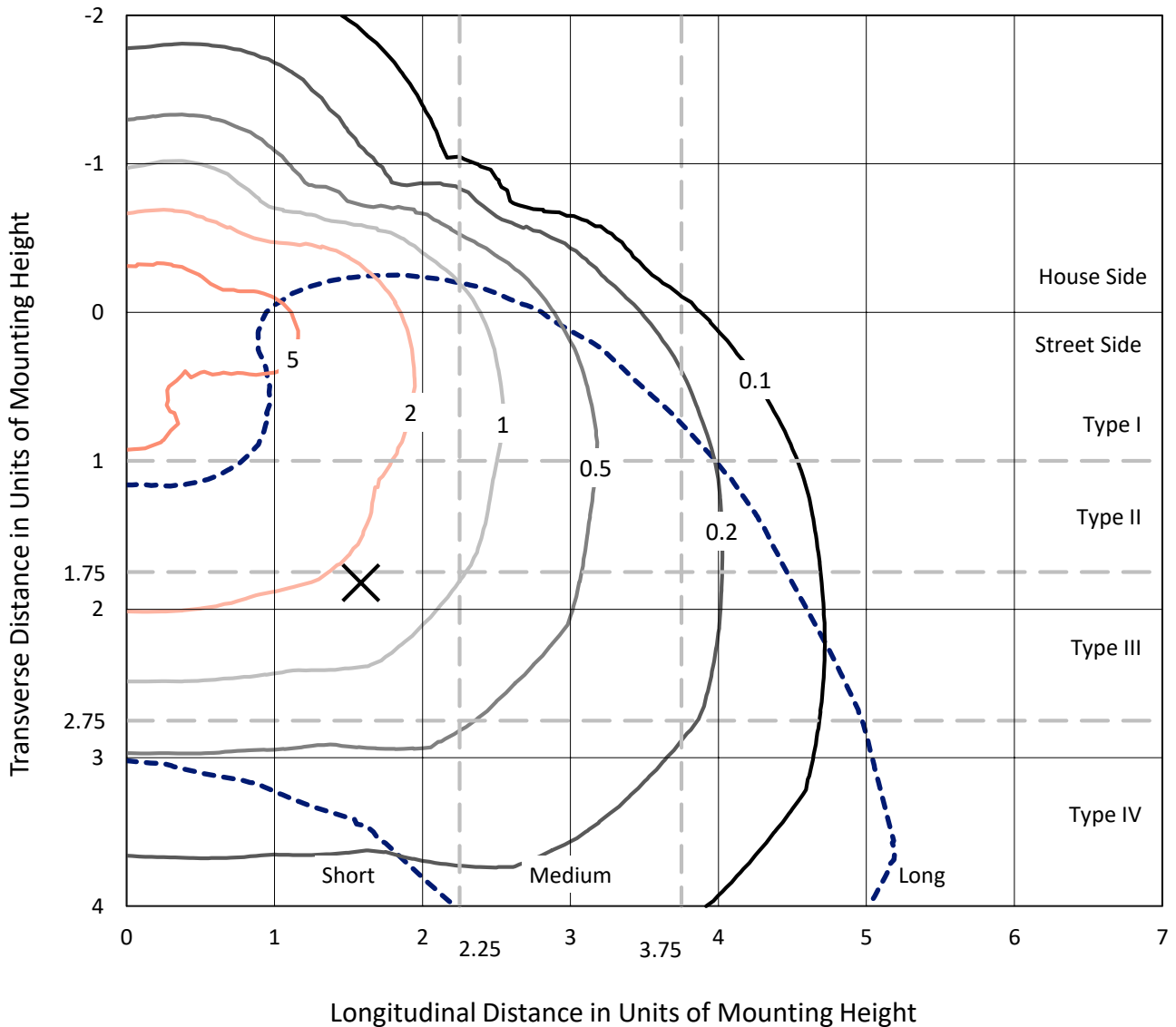
Input Watts (W): 251.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

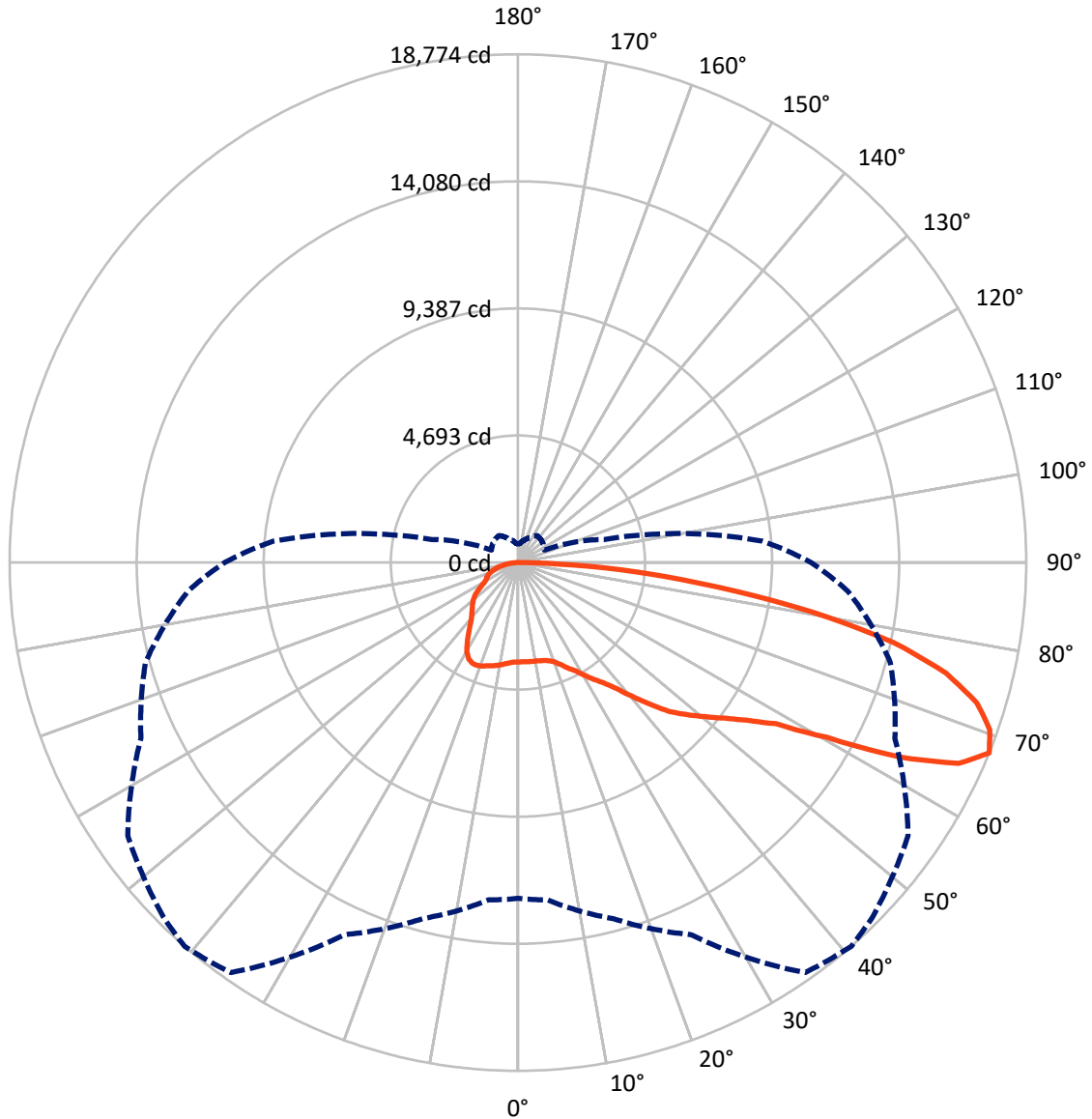
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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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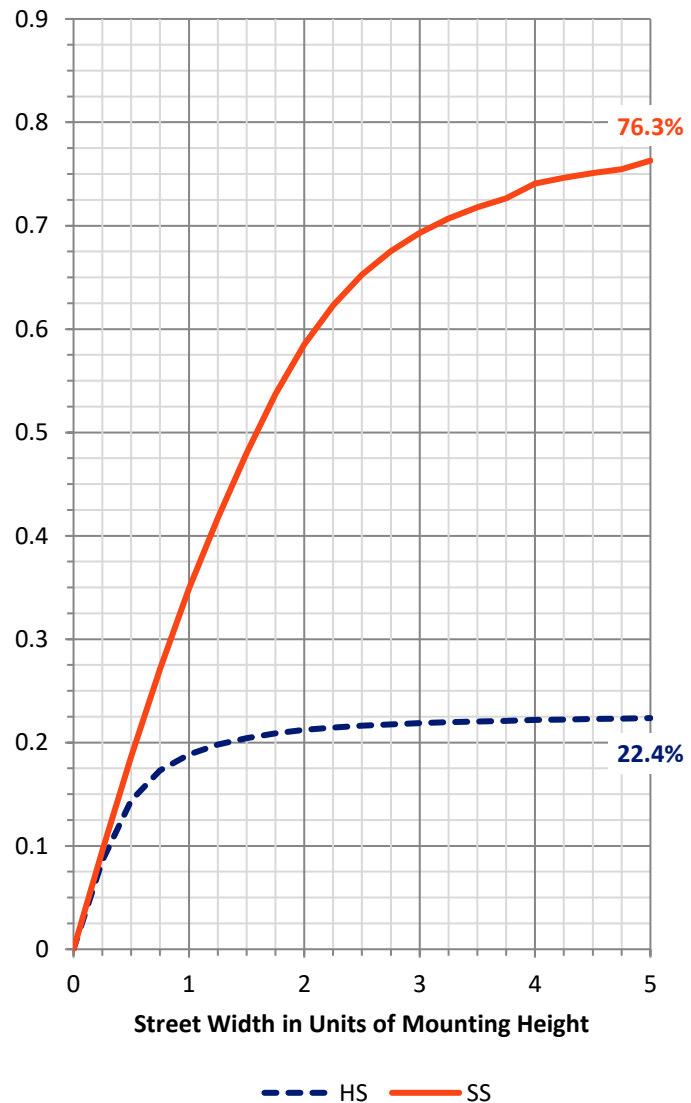
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7784.1	0.0	7784.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	26613.9	0.0	26613.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	34398.0	0.0	34398.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.9	1.0
10°-20°	1100.7	3.2
20°-30°	1968.3	5.7
30°-40°	3086.3	9.0
40°-50°	4785.9	13.9
50°-60°	6746.9	19.6
60°-70°	8600.7	25.0
70°-80°	6436.2	18.7
80°-90°	1318.2	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°	34398.0	100.0
0°-180°	34398.0	100.0



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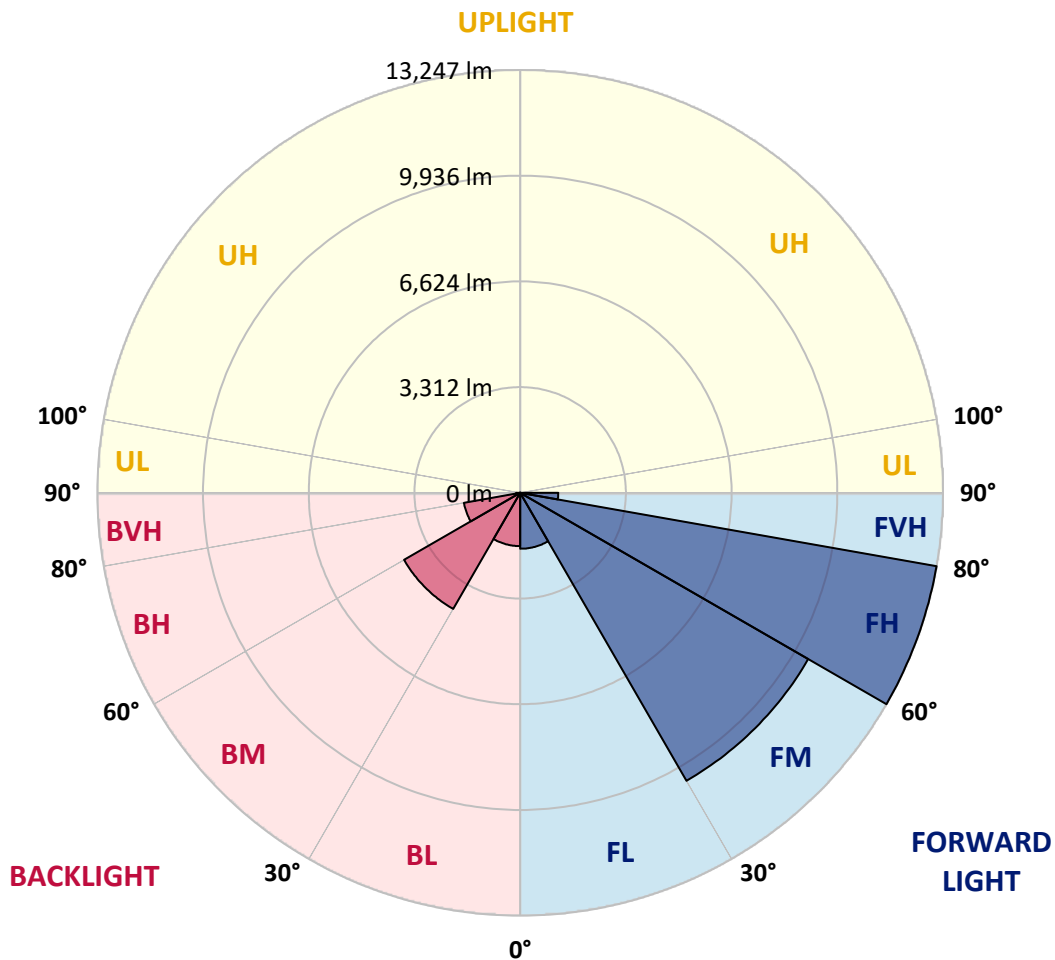
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1752.6	5.1			
FM (30°-60°)	10418.9	30.3			
FH (60°-80°)	13247.4	38.5			G5
FVH (80°-90°)	1195.1	3.5			G5
BL (0°-30°)	1671.2	4.9	B3/2500		
BM (30°-60°)	4200.2	12.2	B3/5000		
BH (60°-80°)	1789.6	5.2	B3/2500		G3/2500
BVH (80°-90°)	123.1	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°	3672.6	3672.6	3672.6	3672.6	3672.6	3672.6	3672.6	3672.6	3672.6	3672.6	3672.6
2.5°	3627.4	3669.5	3663.2	3655.5	3667.9	3669.5	3633.7	3647.7	3655.5	3667.9	3688.1
5°	3636.8	3678.8	3675.7	3661.7	3671.0	3675.7	3643.0	3667.9	3667.9	3672.6	3695.9
7.5°	3616.5	3657.0	3657.0	3652.3	3672.6	3691.3	3661.7	3683.5	3695.9	3708.4	3724.0
10°	3597.9	3632.1	3644.6	3641.4	3688.1	3692.8	3672.6	3725.5	3745.8	3758.2	3776.9
12.5°	3577.6	3619.6	3636.8	3653.9	3703.7	3720.8	3709.9	3764.4	3806.5	3828.3	3848.5
15°	3568.3	3615.0	3643.0	3667.9	3722.4	3753.5	3753.5	3836.0	3885.9	3913.9	3949.7
17.5°	3633.7	3681.9	3703.7	3724.0	3773.8	3815.8	3812.7	3909.2	3982.4	4026.0	4091.4
20°	3795.6	3853.2	3865.6	3873.4	3904.5	3920.1	3915.4	4019.8	4120.9	4203.5	4276.6
22.5°	4077.4	4111.6	4117.8	4086.7	4094.5	4106.9	4099.2	4156.8	4272.0	4368.5	4499.3
25°	4307.8	4362.3	4346.7	4301.5	4307.8	4324.9	4301.5	4390.3	4472.8	4598.9	4731.2
27.5°	4550.6	4591.1	4574.0	4546.0	4539.7	4527.3	4522.6	4636.3	4757.7	4857.3	5053.5
30°	4846.4	4868.2	4818.4	4806.0	4816.9	4824.6	4795.1	4939.8	5050.4	5193.6	5458.3
32.5°	5344.6	5364.9	5293.2	5101.8	5106.4	5142.2	5117.3	5299.5	5508.1	5682.5	5951.8
35°	5979.8	5979.8	5923.8	5654.4	5450.5	5452.0	5458.3	5715.2	6102.8	6493.6	6770.7
37.5°	6622.8	6644.6	6538.7	6292.7	6034.3	5897.3	5782.1	6112.1	6619.7	7491.5	7904.1
40°	7292.2	7326.5	7167.7	6941.9	6644.6	6488.9	6355.0	6555.8	7240.9	8480.1	8807.0
42.5°	7877.6	7925.9	7762.4	7524.2	7317.1	7141.2	6938.8	7019.8	7924.3	9418.9	9604.1
45°	8422.5	8449.0	8310.4	8114.2	7943.0	7846.5	7704.8	7798.2	8705.8	10337.4	10303.2
47.5°	8824.2	8863.1	8737.0	8631.1	8455.2	8397.6	8396.0	8652.9	9585.4	11069.1	10910.3
50°	9476.5	9446.9	9163.5	9034.3	8926.9	8945.6	8990.7	9434.4	10619.2	11774.4	11421.0
52.5°	10570.9	10516.4	9887.5	9618.1	9485.8	9546.5	9569.9	10142.8	11662.3	12383.1	11842.9
55°	11986.1	11811.7	11354.0	10631.6	10216.0	10273.6	10247.1	10904.1	12496.7	12963.8	12155.8
57.5°	12921.8	13085.2	12865.7	12453.1	11421.0	11232.6	11170.3	11657.6	13268.9	13519.6	12479.6
60°	13734.4	14005.3	14354.0	14089.4	13810.7	13105.5	12524.8	12513.9	13949.3	13890.1	12610.4
62.5°	14592.2	14735.5	15272.6	15436.0	15952.9	15823.7	15045.3	13597.4	14629.6	14161.0	12686.7
65°	13725.1	13916.6	14894.3	15786.3	17699.7	17886.5	17632.7	15612.0	15101.3	14299.6	12577.7
67.5°	12404.9	12510.7	13617.7	15165.2	18490.6	18773.9	18518.6	17589.1	15362.9	14238.8	12241.4
70°	10712.6	10837.1	11894.2	14005.3	18450.1	18487.4	18387.8	17771.3	15258.6	13953.9	11394.5
72.5°	8685.6	8842.8	9772.3	11964.3	17565.8	17727.7	17570.5	17410.1	14965.9	13156.8	9935.7
75°	6571.4	6780.0	7609.8	9538.7	15523.2	16339.0	16359.2	16854.3	13829.4	11279.3	7211.3
77.5°	4482.1	4681.4	5467.6	7267.3	12885.9	14189.0	14528.4	15070.2	11554.8	8335.3	3934.1
80°	2523.6	2505.0	3502.9	5192.1	9828.3	10972.6	11399.2	11377.4	8114.2	4279.7	801.8
82.5°	1166.1	1169.2	1791.9	3314.5	6653.9	7409.0	7581.8	6599.4	2847.5	725.5	255.3
85°	580.7	586.9	862.5	1662.7	3756.6	4340.5	4125.6	2746.3	610.3	211.7	152.6
87.5°	230.4	221.1	340.9	683.5	1356.0	1437.0	1254.8	549.6	110.5	74.7	51.4
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°	3672.6	3672.6	3672.6	3672.6	3672.6	3672.6	3672.6	3672.6	3672.6	3672.6	3672.6
2.5°	3683.5	3686.6	3700.6	3672.6	3680.4	3674.1	3669.5	3694.4	3692.8	3697.5	3689.7
5°	3694.4	3702.2	3716.2	3703.7	3716.2	3709.9	3714.6	3748.9	3753.5	3752.0	3752.0
7.5°	3724.0	3731.7	3758.2	3742.6	3770.7	3762.9	3764.4	3797.1	3803.4	3794.0	3790.9
10°	3786.2	3792.5	3829.8	3826.7	3837.6	3831.4	3825.1	3839.2	3836.0	3822.0	3815.8
12.5°	3857.8	3875.0	3917.0	3918.6	3932.6	3901.4	3868.7	3864.1	3854.7	3832.9	3828.3
15°	3965.3	3985.5	4049.3	4033.8	4024.4	3957.5	3903.0	3859.4	3822.0	3803.4	3786.2
17.5°	4119.4	4153.6	4242.4	4194.1	4125.6	4027.5	3932.6	3837.6	3758.2	3691.3	3664.8
20°	4315.6	4354.5	4429.2	4365.4	4261.1	4114.7	3960.6	3789.3	3616.5	3468.6	3446.8
22.5°	4549.1	4611.4	4665.8	4519.5	4365.4	4180.1	3960.6	3714.6	3428.2	3207.1	3152.6
25°	4821.5	4869.8	4852.7	4647.2	4424.5	4191.0	3917.0	3582.3	3177.5	2920.6	2877.0
27.5°	5117.3	5139.1	5006.8	4707.9	4430.8	4127.2	3794.0	3347.2	2884.8	2682.4	2640.4
30°	5481.6	5416.2	5164.0	4745.2	4368.5	3985.5	3574.5	3003.1	2646.6	2469.1	2420.9
32.5°	5873.9	5754.1	5276.1	4718.8	4231.5	3748.9	3235.1	2760.3	2487.8	2271.4	2230.9
35°	6621.2	6280.3	5439.6	4639.4	3993.3	3432.8	2906.6	2573.5	2319.7	2087.7	2050.4
37.5°	7630.1	7036.9	5668.4	4528.8	3711.5	3126.1	2662.2	2374.2	2154.7	1914.9	1855.8
40°	8414.7	7801.3	6035.9	4410.5	3451.5	2835.0	2484.7	2269.9	2045.7	1790.4	1739.0
42.5°	9162.0	8500.3	6487.3	4278.2	3183.7	2632.6	2406.9	2246.5	2016.1	1756.1	1707.9
45°	9822.1	9065.5	6876.6	4145.9	2881.7	2445.8	2349.3	2201.4	1974.1	1712.5	1665.8
47.5°	10356.1	9551.2	7214.4	4002.6	2607.7	2304.1	2274.5	2118.9	1893.1	1623.8	1567.7
50°	10838.7	9962.2	7447.9	3850.1	2339.9	2188.9	2151.5	1967.8	1732.8	1494.6	1458.8
52.5°	11136.1	10240.9	7588.0	3875.0	2086.2	2059.7	1999.0	1810.6	1592.6	1388.7	1342.0
55°	11447.4	10504.0	7586.5	3734.9	1874.4	1865.1	1807.5	1662.7	1491.5	1320.2	1292.2
57.5°	11575.1	10527.3	7444.8	3076.3	1687.6	1628.5	1616.0	1539.7	1390.3	1228.3	1197.2
60°	11660.7	10424.6	7177.0	2100.2	1452.5	1410.5	1471.2	1419.8	1284.4	1114.7	1083.6
62.5°	11576.6	10312.5	6474.9	1516.4	1273.5	1296.8	1354.4	1298.4	1156.7	1002.6	976.1
65°	11375.8	9884.4	5112.7	1181.6	1194.1	1245.5	1290.6	1197.2	937.2	784.6	769.1
67.5°	10827.8	9070.1	3289.6	1083.6	1148.9	1201.9	1217.4	1013.5	848.5	702.1	685.0
70°	9674.2	7281.3	1267.3	1021.3	1103.8	1127.2	1063.3	929.4	780.0	653.9	638.3
72.5°	7567.8	4781.0	731.7	934.1	1007.3	985.5	987.0	834.5	703.7	583.8	571.4
75°	4703.2	1731.2	650.8	831.4	853.1	893.6	842.2	723.9	605.6	534.0	518.4
77.5°	1555.3	492.0	602.5	716.1	764.4	734.8	705.2	618.1	518.4	462.4	454.6
80°	376.8	369.0	540.2	560.5	599.4	549.6	546.4	513.8	437.5	404.8	397.0
82.5°	232.0	264.7	429.7	348.7	400.1	404.8	460.8	423.5	319.2	331.6	320.7
85°	143.2	203.9	225.7	168.1	169.7	227.3	275.6	255.3	191.5	180.6	179.0
87.5°	48.3	42.0	48.3	35.8	48.3	82.5	124.5	118.3	79.4	54.5	51.4
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)