

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: P509983

Luminaire Tested: **VERD-M-CA3-180-730-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509983
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-4)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA3-180-730-U-T3
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1120mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25109 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

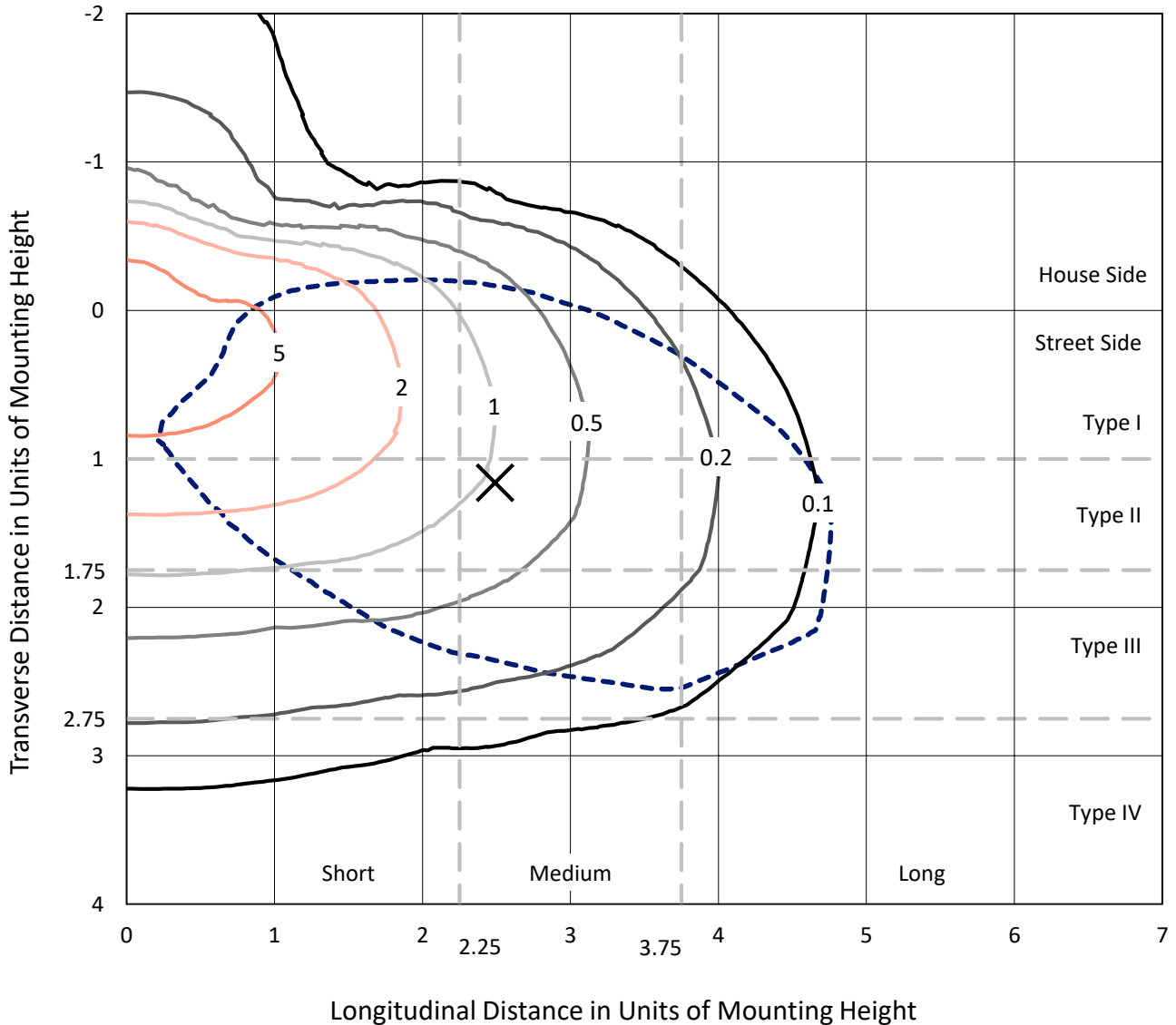
Input Watts (W): 183.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

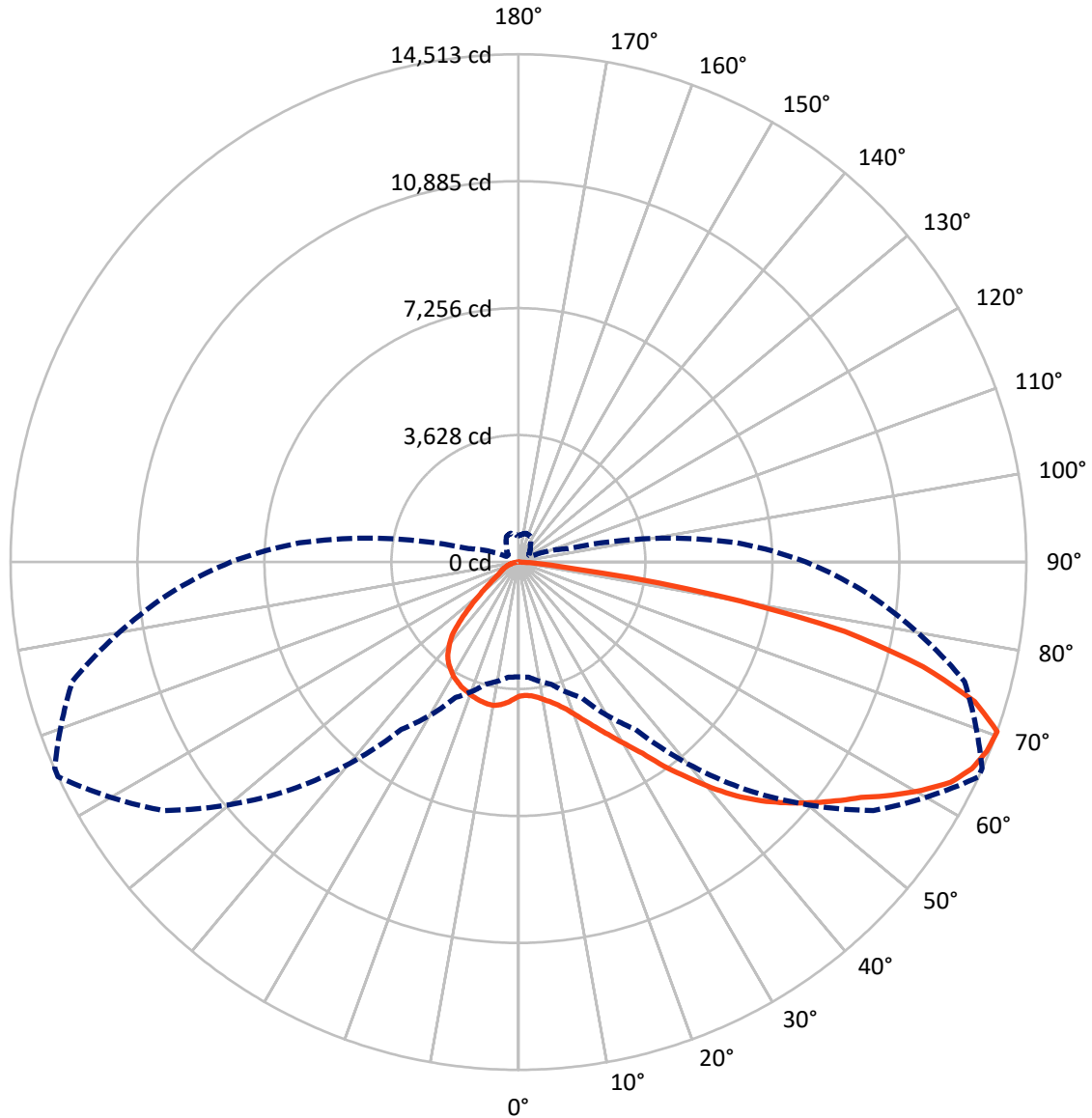
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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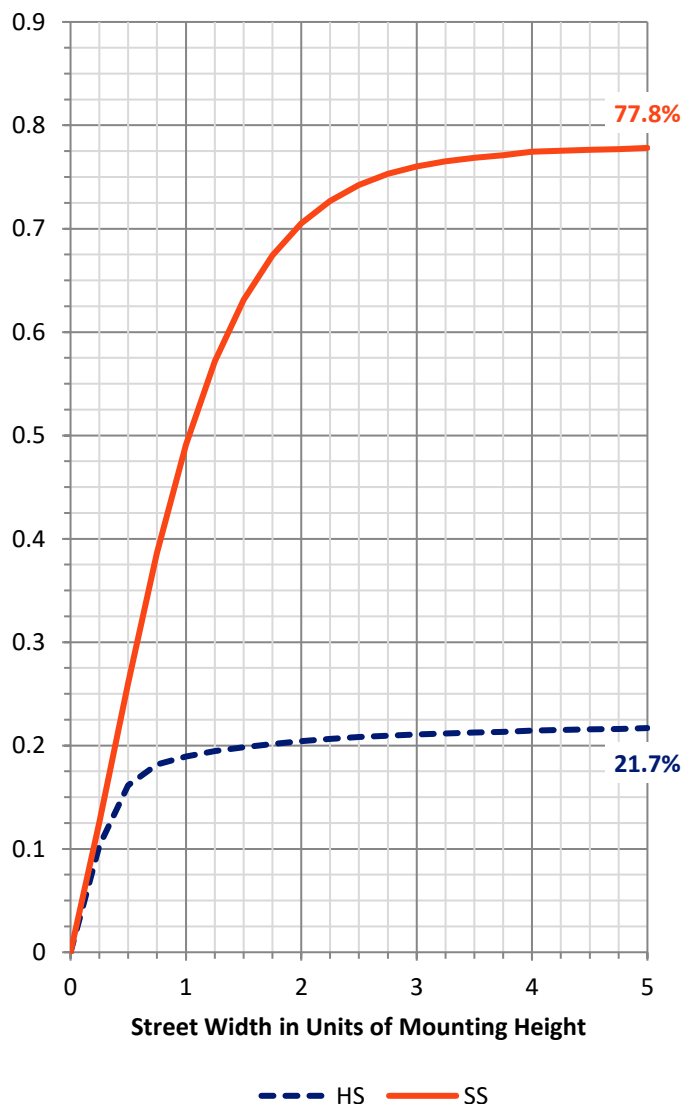
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5538.8	0.0	5538.8
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	19570.2	0.0	19570.2
	% Fixture	77.9	0.0	77.9
Total	Lumens	25109.0	0.0	25109.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.6	1.5
10°-20°	1215.4	4.8
20°-30°	2108.5	8.4
30°-40°	3065.7	12.2
40°-50°	4095.8	16.3
50°-60°	4989.1	19.9
60°-70°	5378.3	21.4
70°-80°	3487.0	13.9
80°-90°	384.6	1.5
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°	25109.0	100.0
0°-180°	25109.0	100.0

Coefficient of Utilization



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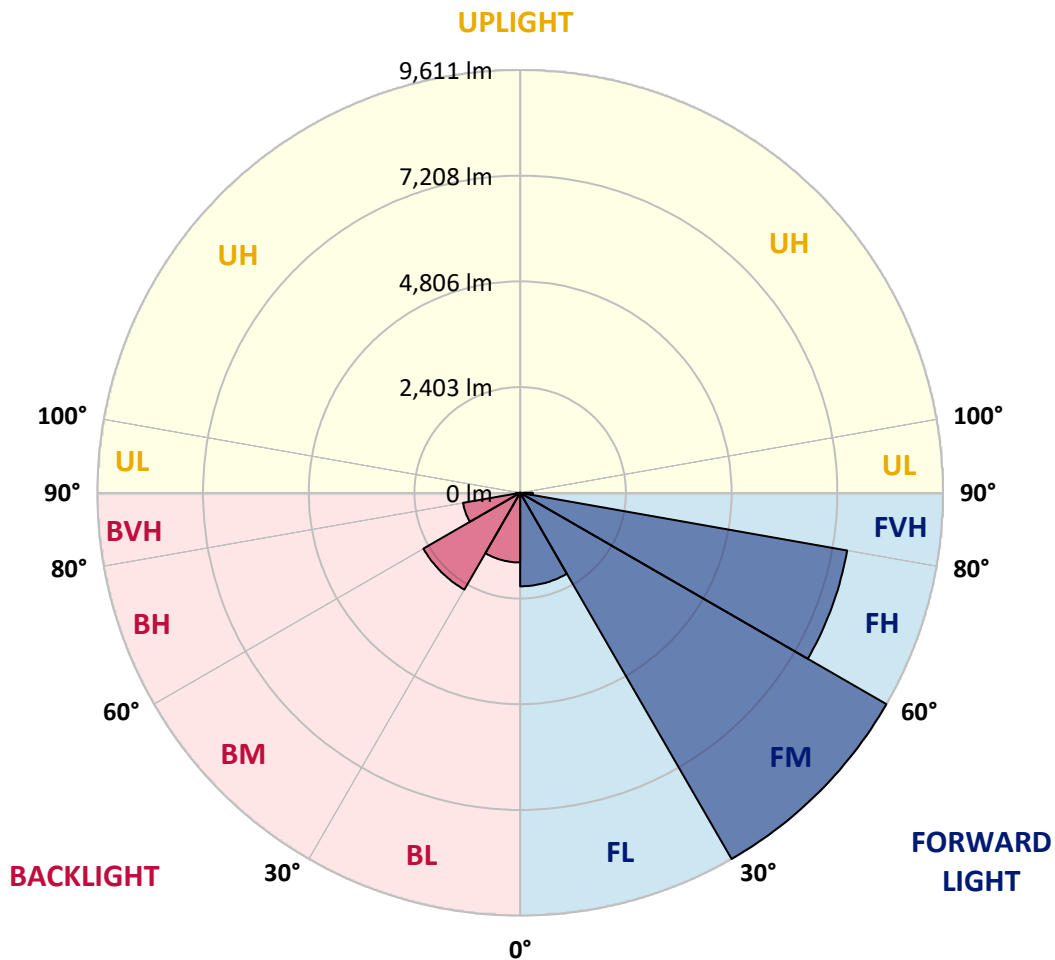
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2124.9	8.5			
FM (30°-60°)	9611.3	38.3			
FH (60°-80°)	7547.2	30.1			G4/12000
FVH (80°-90°)	286.8	1.1			G3/500
BL (0°-30°)	1583.5	6.3	B3/2500		
BM (30°-60°)	2539.4	10.1	B3/5000		
BH (60°-80°)	1318.2	5.2	B3/2500		G3/2500
BVH (80°-90°)	97.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3833.4	3833.4	3833.4	3833.4	3833.4	3833.4	3833.4	3833.4	3833.4	3833.4	3833.4
2.5°	3776.8	3810.8	3792.7	3793.8	3819.8	3798.3	3813.0	3813.0	3811.9	3819.8	3843.6
5°	3869.7	3905.9	3884.4	3870.8	3876.4	3849.3	3843.6	3839.1	3835.7	3844.7	3884.4
7.5°	4005.5	4047.4	4023.6	4011.2	4004.4	3942.1	3930.8	3900.2	3896.8	3904.8	3941.0
10°	4185.5	4242.1	4213.8	4178.7	4155.0	4082.5	4024.8	3997.6	3989.7	3985.1	4022.5
12.5°	4444.8	4494.6	4461.8	4396.1	4364.4	4247.8	4178.7	4101.7	4100.6	4084.8	4113.1
15°	4690.5	4742.5	4700.6	4636.1	4594.2	4436.9	4335.0	4239.9	4228.5	4210.4	4219.5
17.5°	4928.2	4991.6	4962.2	4903.3	4852.4	4676.9	4543.3	4421.0	4408.6	4380.3	4338.4
20°	5223.7	5281.4	5273.5	5220.3	5163.7	4964.4	4818.4	4661.0	4647.4	4596.5	4502.5
22.5°	5519.2	5590.5	5546.4	5537.3	5505.6	5307.5	5103.7	4944.1	4930.5	4863.7	4691.6
25°	5797.7	5861.1	5876.9	5862.2	5865.6	5669.8	5467.1	5266.7	5253.1	5162.6	4913.5
27.5°	6127.1	6187.1	6191.7	6195.1	6234.7	6071.7	5833.9	5627.9	5618.8	5516.9	5201.1
30°	6379.6	6479.2	6499.6	6518.9	6539.2	6452.1	6235.8	6043.4	6025.3	5914.3	5524.8
32.5°	6610.6	6685.3	6757.7	6797.4	6889.1	6811.0	6633.2	6514.3	6515.5	6463.4	6041.1
35°	6789.4	6872.1	6963.8	7108.7	7242.3	7209.5	7154.0	7160.8	7161.9	7184.6	6737.4
37.5°	6960.4	7035.1	7150.6	7323.8	7559.3	7602.3	7639.7	7781.2	7831.0	7937.4	7380.4
40°	7063.4	7142.7	7292.1	7532.1	7837.8	7992.9	8106.1	8469.5	8555.6	8556.7	7877.4
42.5°	6912.8	7000.0	7267.2	7694.0	8089.1	8379.0	8676.7	9135.2	9197.5	9058.3	8302.0
45°	6778.1	6858.5	7146.1	7718.9	8286.1	8791.1	9205.4	9736.4	9781.7	9500.9	8693.7
47.5°	6647.9	6711.3	7044.2	7666.9	8487.7	9204.3	9656.0	10279.8	10312.7	9985.5	9076.4
50°	6467.9	6543.8	6897.0	7605.7	8608.8	9558.7	10097.6	10816.5	10811.9	10421.4	9422.8
52.5°	6270.9	6345.6	6724.9	7493.6	8688.0	9833.8	10600.2	11341.8	11345.2	10921.8	9765.8
55°	6023.0	6114.7	6514.3	7341.9	8707.3	10050.0	11036.1	11880.7	11936.2	11432.4	10096.4
57.5°	5726.4	5818.1	6255.1	7120.0	8592.9	10231.2	11501.4	12569.0	12598.5	11954.3	10343.2
60°	5381.1	5492.0	5909.8	6823.4	8374.4	10441.7	12065.2	13243.8	13254.0	12420.7	10549.3
62.5°	4981.4	5060.7	5499.9	6393.2	8025.7	10525.5	12531.7	13863.1	13865.3	12772.8	10642.1
65°	4548.9	4579.5	4947.5	5807.9	7517.4	10388.5	12710.5	14240.1	14229.9	13081.9	10595.7
67.5°	4033.8	4019.1	4412.0	5084.4	6874.4	9932.3	12623.4	14433.7	14464.2	13319.6	10446.3
70°	3279.8	3301.3	3613.8	4275.0	5836.2	9199.8	12383.4	14512.9	14505.0	13200.8	9965.1
72.5°	2489.6	2528.1	2754.5	3250.4	4529.7	7737.0	11355.4	13636.6	13652.5	12363.0	9099.0
75°	1539.7	1650.7	1842.0	2144.3	2838.3	5543.0	9665.1	11945.2	12025.6	10908.2	7492.5
77.5°	674.8	700.8	797.0	1033.6	1484.2	2782.8	7144.9	9539.4	9777.2	8821.6	5404.8
80°	417.8	417.8	444.9	518.5	662.3	1034.8	2863.2	5695.8	5454.7	5045.9	2384.3
82.5°	347.6	347.6	361.2	373.6	339.6	438.1	957.8	1596.3	1710.7	1384.6	732.5
85°	189.1	193.6	194.7	198.1	194.7	236.6	377.0	472.1	477.8	432.5	260.4
87.5°	69.1	73.6	71.3	66.8	60.0	56.6	72.5	73.6	75.9	70.2	38.5
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°	3833.4	3833.4	3833.4	3833.4	3833.4	3833.4	3833.4	3833.4	3833.4	3833.4	3833.4
2.5°	3859.5	3875.3	3917.2	3920.6	3936.5	3942.1	3955.7	3974.9	4008.9	3991.9	3972.7
5°	3903.6	3924.0	3990.8	4024.8	4068.9	4095.0	4138.0	4159.5	4211.6	4194.6	4192.3
7.5°	3970.4	4013.4	4073.4	4106.3	4164.0	4181.0	4212.7	4212.7	4255.7	4234.2	4228.5
10°	4061.0	4089.3	4152.7	4155.0	4187.8	4187.8	4225.1	4201.4	4243.3	4218.4	4217.2
12.5°	4133.4	4149.3	4173.1	4153.8	4170.8	4151.6	4170.8	4142.5	4168.5	4136.8	4130.0
15°	4215.0	4193.4	4169.7	4124.4	4109.7	4079.1	4063.3	4033.8	4036.1	3999.9	3994.2
17.5°	4306.7	4251.2	4182.1	4083.6	4029.3	3951.2	3918.3	3876.4	3852.7	3819.8	3834.6
20°	4417.6	4335.0	4191.2	4038.3	3922.9	3804.0	3727.0	3659.1	3653.4	3624.0	3608.1
22.5°	4561.4	4428.9	4230.8	3973.8	3788.1	3618.3	3504.0	3390.8	3379.4	3319.4	3296.8
25°	4739.1	4553.5	4251.2	3924.0	3630.8	3397.6	3217.5	3060.2	2984.3	2920.9	2906.2
27.5°	4978.0	4736.9	4291.9	3834.6	3445.1	3123.6	2865.4	2657.1	2566.6	2534.9	2502.0
30°	5257.7	4961.0	4367.8	3759.8	3225.5	2773.7	2459.0	2211.1	2112.6	2062.8	2046.9
32.5°	5669.8	5244.1	4438.0	3636.4	2959.4	2388.8	1979.0	1705.0	1645.0	1635.9	1657.5
35°	6269.8	5776.2	4539.9	3522.1	2646.9	1960.9	1508.0	1329.1	1316.7	1318.9	1318.9
37.5°	6894.7	6283.4	4842.2	3353.4	2264.3	1476.3	1148.0	1050.6	1055.2	1055.2	1054.0
40°	7302.3	6690.9	5061.8	3114.5	1788.8	1058.6	851.4	777.8	809.5	852.5	875.1
42.5°	7751.8	7061.2	5213.5	2839.4	1244.2	748.3	619.3	645.3	738.2	803.8	812.9
45°	8134.4	7375.9	5230.5	2411.5	801.6	568.3	564.9	639.7	747.2	818.5	824.2
47.5°	8462.7	7662.3	5124.1	1922.4	584.2	531.0	564.9	658.9	756.3	800.4	805.0
50°	8780.9	7889.9	4873.9	1477.4	532.1	517.4	571.7	662.3	723.4	754.0	749.5
52.5°	9063.9	8097.1	4511.6	1152.5	511.7	508.3	577.4	658.9	697.4	695.1	691.7
55°	9279.0	8158.2	4228.5	898.9	494.7	502.7	580.8	662.3	690.6	670.2	665.7
57.5°	9390.0	8082.4	3990.8	714.4	476.6	497.0	589.8	661.2	711.0	749.5	747.2
60°	9387.7	7996.3	3697.6	615.9	458.5	492.5	604.6	717.8	897.8	934.0	935.1
62.5°	9351.5	7849.1	3295.7	557.0	438.1	494.7	614.8	815.1	1022.3	992.9	969.1
65°	9231.5	7572.9	2756.8	493.6	412.1	497.0	610.2	881.9	937.4	832.1	817.4
67.5°	8897.5	7038.5	2164.7	441.5	388.3	484.6	618.1	819.7	861.6	794.8	773.3
70°	8219.3	6285.6	1467.3	380.4	361.2	466.4	600.0	806.1	850.2	782.3	750.6
72.5°	7144.9	5044.8	858.2	327.2	321.5	429.1	591.0	815.1	863.8	788.0	747.2
75°	5561.1	3536.8	495.9	264.9	268.3	396.2	542.3	768.7	855.9	797.0	743.8
77.5°	3590.0	1717.5	349.8	211.7	209.4	312.5	440.4	672.5	824.2	805.0	760.8
80°	1285.0	627.2	245.7	157.4	152.8	211.7	338.5	541.2	697.4	722.3	722.3
82.5°	461.9	314.7	157.4	96.2	95.1	134.7	252.5	411.0	506.1	570.6	586.4
85°	193.6	137.0	77.0	48.7	39.6	52.1	130.2	254.7	343.0	369.1	401.9
87.5°	28.3	24.9	20.4	15.8	13.6	13.6	17.0	73.6	122.3	175.5	217.4
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)