

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: P510023

Luminaire Tested: **VERD-M-CA4-190-727-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510023
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-CA4-190-727-U-T3
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 2700K, 870mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23463 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

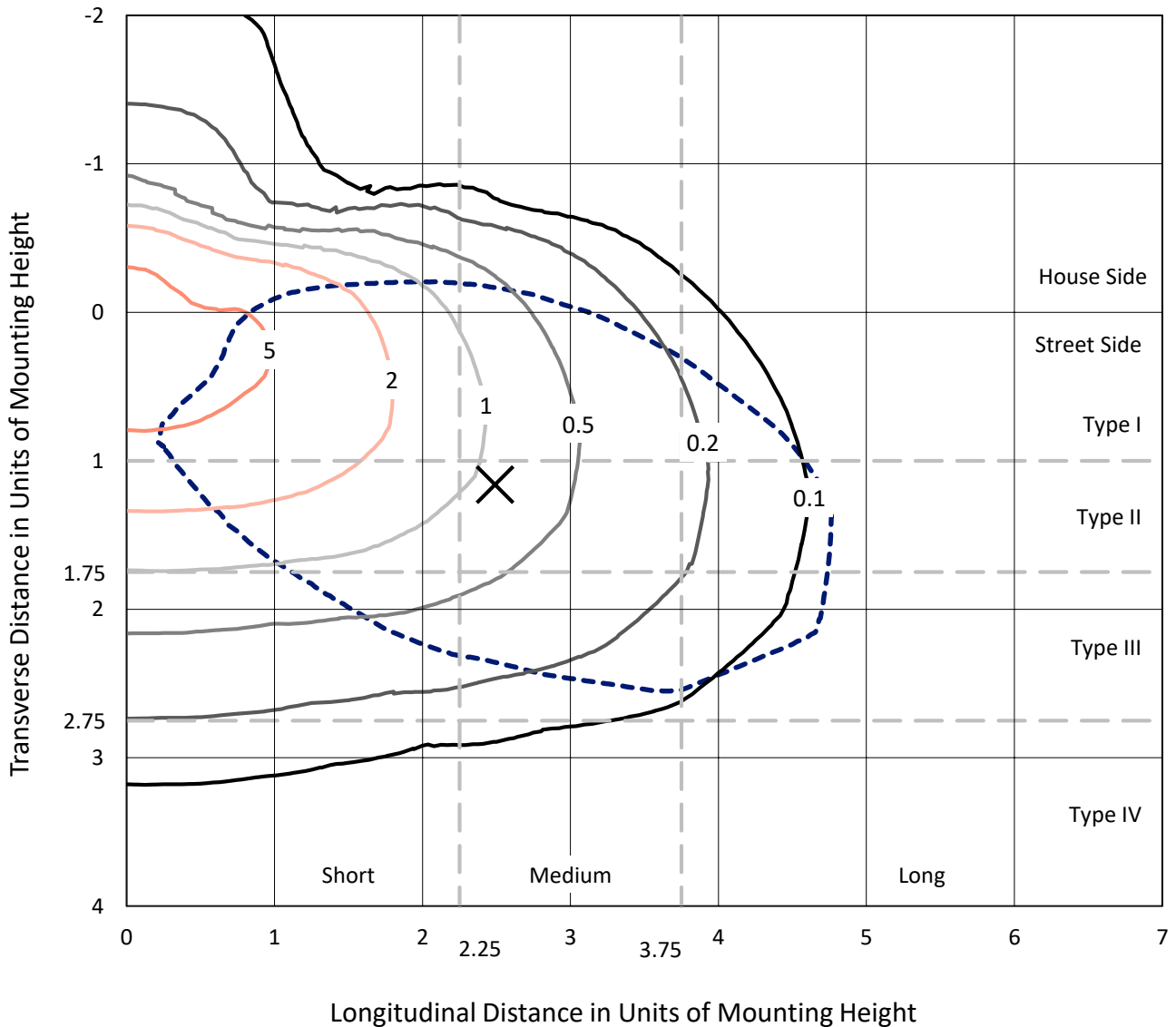
Input Watts (W): 193.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

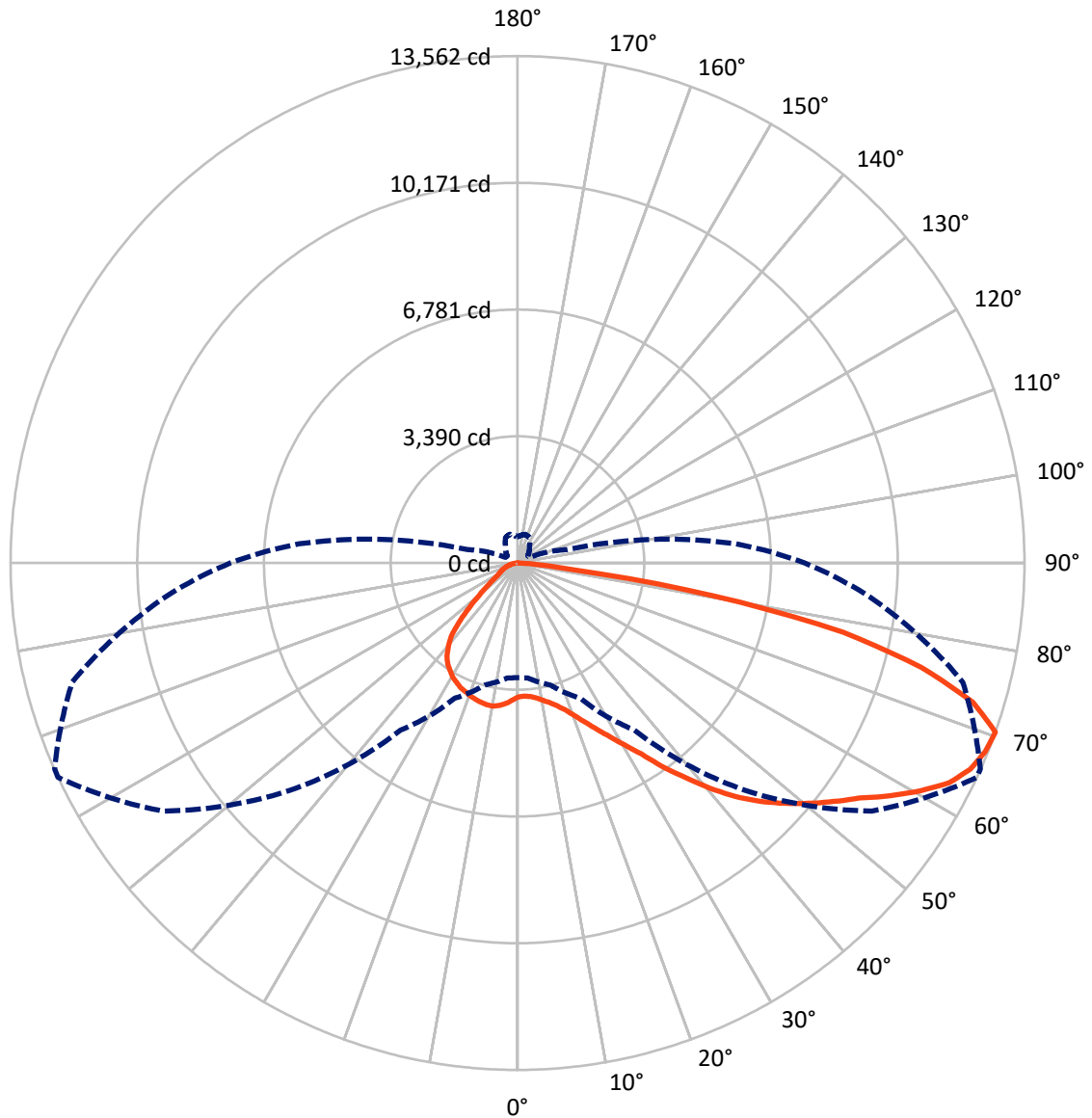
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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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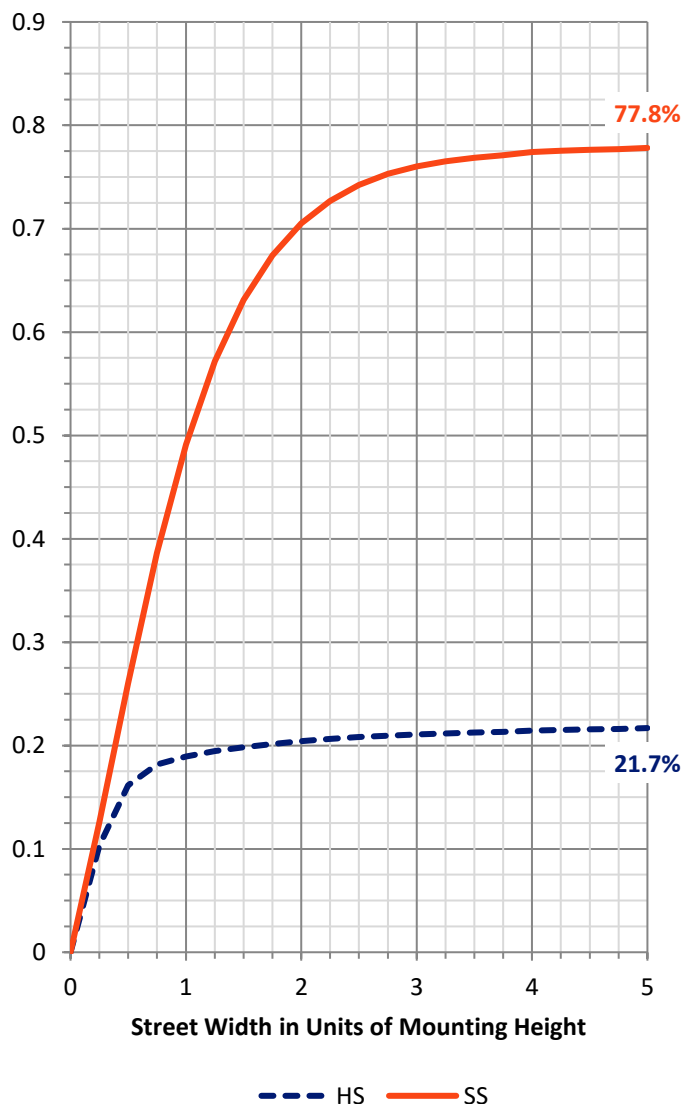
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5175.7	0.0	5175.7
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	18287.3	0.0	18287.3
	% Fixture	77.9	0.0	77.9
Total	Lumens	23463.0	0.0	23463.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.3	1.5
10°-20°	1135.7	4.8
20°-30°	1970.3	8.4
30°-40°	2864.7	12.2
40°-50°	3827.3	16.3
50°-60°	4662.0	19.9
60°-70°	5025.8	21.4
70°-80°	3258.4	13.9
80°-90°	359.4	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°	23463.0	100.0
0°-180°	23463.0	100.0

Coefficient of Utilization



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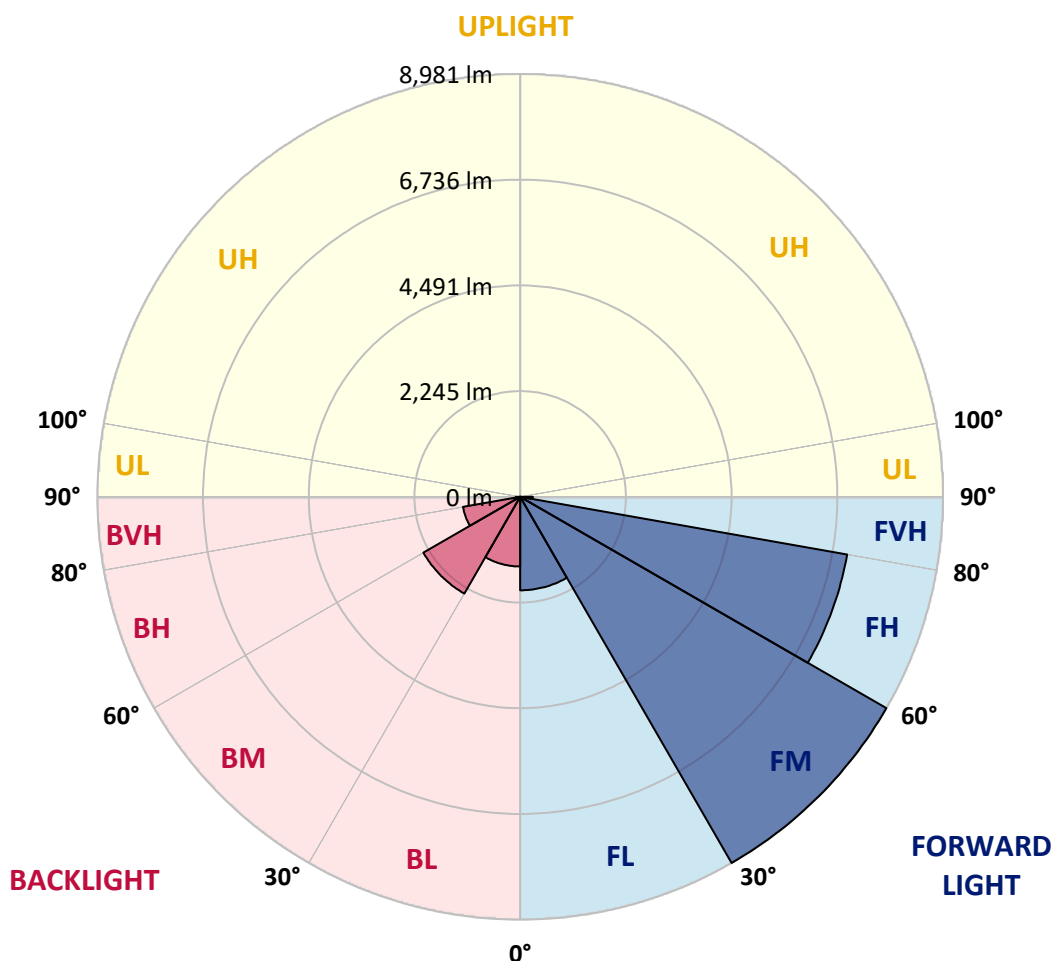
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1985.6	8.5			
FM (30°-60°)	8981.2	38.3			
FH (60°-80°)	7052.4	30.1			G3/7500
FVH (80°-90°)	268.0	1.1			G3/500
BL (0°-30°)	1479.7	6.3	B3/2500		
BM (30°-60°)	2372.9	10.1	B2/2500		
BH (60°-80°)	1231.8	5.2	B3/2500		G3/2500
BVH (80°-90°)	91.3	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-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3582.1	3582.1	3582.1	3582.1	3582.1	3582.1	3582.1	3582.1	3582.1	3582.1	3582.1
2.5°	3529.2	3561.0	3544.0	3545.1	3569.4	3549.3	3563.1	3563.1	3562.0	3569.4	3591.7
5°	3616.0	3649.8	3629.7	3617.0	3622.3	3596.9	3591.7	3587.4	3584.2	3592.7	3629.7
7.5°	3742.9	3782.1	3759.9	3748.2	3741.9	3683.7	3673.1	3644.5	3641.4	3648.8	3682.6
10°	3911.1	3964.0	3937.6	3904.8	3882.6	3814.9	3760.9	3735.5	3728.1	3723.9	3758.8
12.5°	4153.4	4200.0	4169.3	4107.9	4078.3	3969.3	3904.8	3832.9	3831.8	3817.0	3843.4
15°	4383.0	4431.6	4392.5	4332.2	4293.1	4146.0	4050.8	3961.9	3951.3	3934.4	3942.9
17.5°	4605.1	4664.4	4636.9	4581.9	4534.3	4370.3	4245.4	4131.2	4119.6	4093.1	4054.0
20°	4881.3	4935.2	4927.8	4878.1	4825.2	4639.0	4502.5	4355.5	4342.8	4295.2	4207.4
22.5°	5157.4	5224.0	5182.8	5174.3	5144.7	4959.5	4769.1	4620.0	4607.3	4544.8	4384.0
25°	5417.6	5476.9	5491.7	5477.9	5481.1	5298.1	5108.7	4921.5	4908.8	4824.1	4591.4
27.5°	5725.5	5781.6	5785.8	5789.0	5826.0	5673.6	5451.5	5258.9	5250.5	5155.3	4860.1
30°	5961.4	6054.5	6073.5	6091.5	6110.6	6029.1	5827.0	5647.2	5630.3	5526.6	5162.7
32.5°	6177.2	6247.0	6314.7	6351.8	6437.5	6364.5	6198.4	6087.3	6088.4	6039.7	5645.1
35°	6344.4	6421.6	6507.3	6642.7	6767.5	6736.9	6685.0	6691.4	6692.4	6713.6	6295.7
37.5°	6504.1	6573.9	6681.8	6843.7	7063.8	7104.0	7138.9	7271.1	7317.7	7417.1	6896.6
40°	6600.4	6674.4	6814.1	7038.4	7324.0	7468.9	7574.7	7914.3	7994.7	7995.8	7361.0
42.5°	6459.7	6541.1	6790.8	7189.7	7558.9	7829.7	8107.9	8536.4	8594.6	8464.4	7757.8
45°	6333.8	6408.9	6677.6	7212.9	7742.9	8214.8	8602.0	9098.1	9140.5	8878.1	8123.8
47.5°	6212.1	6271.4	6582.4	7164.3	7931.3	8600.9	9023.0	9605.9	9636.6	9330.9	8481.4
50°	6043.9	6114.8	6444.9	7107.1	8044.5	8932.1	9435.6	10107.4	10103.2	9738.2	8805.1
52.5°	5859.8	5929.7	6284.1	7002.4	8118.5	9189.1	9905.3	10598.3	10601.5	10205.8	9125.7
55°	5628.2	5713.8	6087.3	6860.6	8136.5	9391.2	10312.6	11101.9	11153.7	10682.9	9434.6
57.5°	5351.0	5436.7	5845.0	6653.3	8029.6	9560.5	10747.4	11745.1	11772.6	11170.6	9665.2
60°	5028.3	5132.0	5522.4	6376.1	7825.5	9757.2	11274.3	12375.6	12385.1	11606.5	9857.7
62.5°	4654.9	4728.9	5139.4	5974.1	7499.6	9835.5	11710.2	12954.3	12956.4	11935.5	9944.5
65°	4250.7	4279.3	4623.1	5427.1	7024.6	9707.5	11877.3	13306.6	13297.0	12224.3	9901.1
67.5°	3769.4	3755.6	4122.7	4751.1	6423.7	9281.2	11795.9	13487.5	13516.0	12446.5	9761.5
70°	3064.8	3084.9	3376.9	3994.7	5453.6	8596.7	11571.6	13561.5	13554.1	12335.4	9311.8
72.5°	2326.4	2362.3	2573.9	3037.3	4232.8	7229.9	10611.0	12742.7	12757.5	11552.5	8502.5
75°	1438.8	1542.5	1721.2	2003.7	2652.2	5179.6	9031.5	11162.2	11237.3	10193.1	7001.3
77.5°	630.5	654.9	744.8	965.9	1386.9	2600.4	6676.6	8914.1	9136.2	8243.3	5050.5
80°	390.4	390.4	415.8	484.5	618.9	966.9	2675.5	5322.4	5097.1	4715.2	2228.0
82.5°	324.8	324.8	337.5	349.1	317.4	409.4	895.0	1491.7	1598.5	1293.8	684.5
85°	176.7	180.9	182.0	185.1	182.0	221.1	352.3	441.2	446.4	404.1	243.3
87.5°	64.5	68.8	66.6	62.4	56.1	52.9	67.7	68.8	70.9	65.6	36.0
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°	3582.1	3582.1	3582.1	3582.1	3582.1	3582.1	3582.1	3582.1	3582.1	3582.1	3582.1
2.5°	3606.5	3621.3	3660.4	3663.6	3678.4	3683.7	3696.4	3714.4	3746.1	3730.2	3712.3
5°	3647.7	3666.8	3729.2	3760.9	3802.2	3826.5	3866.7	3886.8	3935.5	3919.6	3917.5
7.5°	3710.1	3750.3	3806.4	3837.1	3891.0	3906.9	3936.5	3936.5	3976.7	3956.6	3951.3
10°	3794.8	3821.2	3880.5	3882.6	3913.3	3913.3	3948.2	3926.0	3965.1	3941.8	3940.8
12.5°	3862.5	3877.3	3899.5	3881.5	3897.4	3879.4	3897.4	3870.9	3895.3	3865.7	3859.3
15°	3938.7	3918.5	3896.3	3854.0	3840.3	3811.7	3796.9	3769.4	3771.5	3737.6	3732.4
17.5°	4024.3	3972.5	3908.0	3815.9	3765.2	3692.2	3661.5	3622.3	3600.1	3569.4	3583.2
20°	4128.0	4050.8	3916.4	3773.6	3665.7	3554.6	3482.7	3419.2	3413.9	3386.4	3371.6
22.5°	4262.4	4138.6	3953.5	3713.3	3539.8	3381.1	3274.3	3168.5	3157.9	3101.8	3080.7
25°	4428.5	4255.0	3972.5	3666.8	3392.8	3174.8	3006.6	2859.6	2788.7	2729.4	2715.7
27.5°	4651.7	4426.4	4010.6	3583.2	3219.3	2918.8	2677.6	2482.9	2398.3	2368.7	2338.0
30°	4913.0	4635.8	4081.5	3513.4	3014.0	2591.9	2297.8	2066.1	1974.1	1927.5	1912.7
32.5°	5298.1	4900.3	4147.1	3398.1	2765.4	2232.2	1849.3	1593.2	1537.2	1528.7	1548.8
35°	5858.8	5397.5	4242.3	3291.2	2473.4	1832.3	1409.2	1242.0	1230.4	1232.5	1232.5
37.5°	6442.8	5871.5	4524.7	3133.6	2115.8	1379.5	1072.7	981.8	986.0	986.0	984.9
40°	6823.6	6252.3	4730.0	2910.3	1671.5	989.2	795.6	726.8	756.4	796.6	817.8
42.5°	7243.6	6598.3	4871.7	2653.3	1162.7	699.3	578.7	603.0	689.8	751.1	759.6
45°	7601.2	6892.4	4887.6	2253.4	749.0	531.1	527.9	597.7	698.2	764.9	770.2
47.5°	7908.0	7160.0	4788.2	1796.4	545.9	496.2	527.9	615.7	706.7	748.0	752.2
50°	8205.3	7372.7	4554.4	1380.6	497.2	483.5	534.3	618.9	676.0	704.6	700.3
52.5°	8469.7	7566.3	4215.8	1077.0	478.2	475.0	539.5	615.7	651.7	649.6	646.4
55°	8670.7	7623.4	3951.3	840.0	462.3	469.7	542.7	618.9	645.3	626.3	622.1
57.5°	8774.4	7552.5	3729.2	667.5	445.4	464.4	551.2	617.8	664.4	700.3	698.2
60°	8772.3	7472.1	3455.2	575.5	428.5	460.2	564.9	670.7	838.9	872.8	873.8
62.5°	8738.5	7334.6	3079.6	520.5	409.4	462.3	574.5	761.7	955.3	927.8	905.6
65°	8626.3	7076.5	2576.0	461.3	385.1	464.4	570.2	824.1	876.0	777.6	763.8
67.5°	8314.2	6577.1	2022.8	412.6	362.9	452.8	577.6	765.9	805.1	742.7	722.6
70°	7680.5	5873.6	1371.1	355.5	337.5	435.9	560.7	753.2	794.5	731.0	701.4
72.5°	6676.6	4714.1	801.9	305.7	300.5	401.0	552.2	761.7	807.2	736.3	698.2
75°	5196.5	3305.0	463.4	247.6	250.7	370.3	506.7	718.3	799.8	744.8	695.1
77.5°	3354.7	1604.9	326.9	197.8	195.7	292.0	411.5	628.4	770.2	752.2	710.9
80°	1200.7	586.1	229.6	147.1	142.8	197.8	316.3	505.7	651.7	675.0	675.0
82.5°	431.6	294.1	147.1	89.9	88.9	125.9	235.9	384.0	472.9	533.2	548.0
85°	180.9	128.0	71.9	45.5	37.0	48.7	121.7	238.0	320.6	344.9	375.6
87.5°	26.4	23.3	19.0	14.8	12.7	12.7	15.9	68.8	114.3	164.0	203.1
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)