

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: P509943

Luminaire Tested: **VERD-M-CA3-170-740-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509943
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-CA3-170-740-U-T3
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 1060mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24486 lumens
Efficiency: N/A
Efficacy: 141.7 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

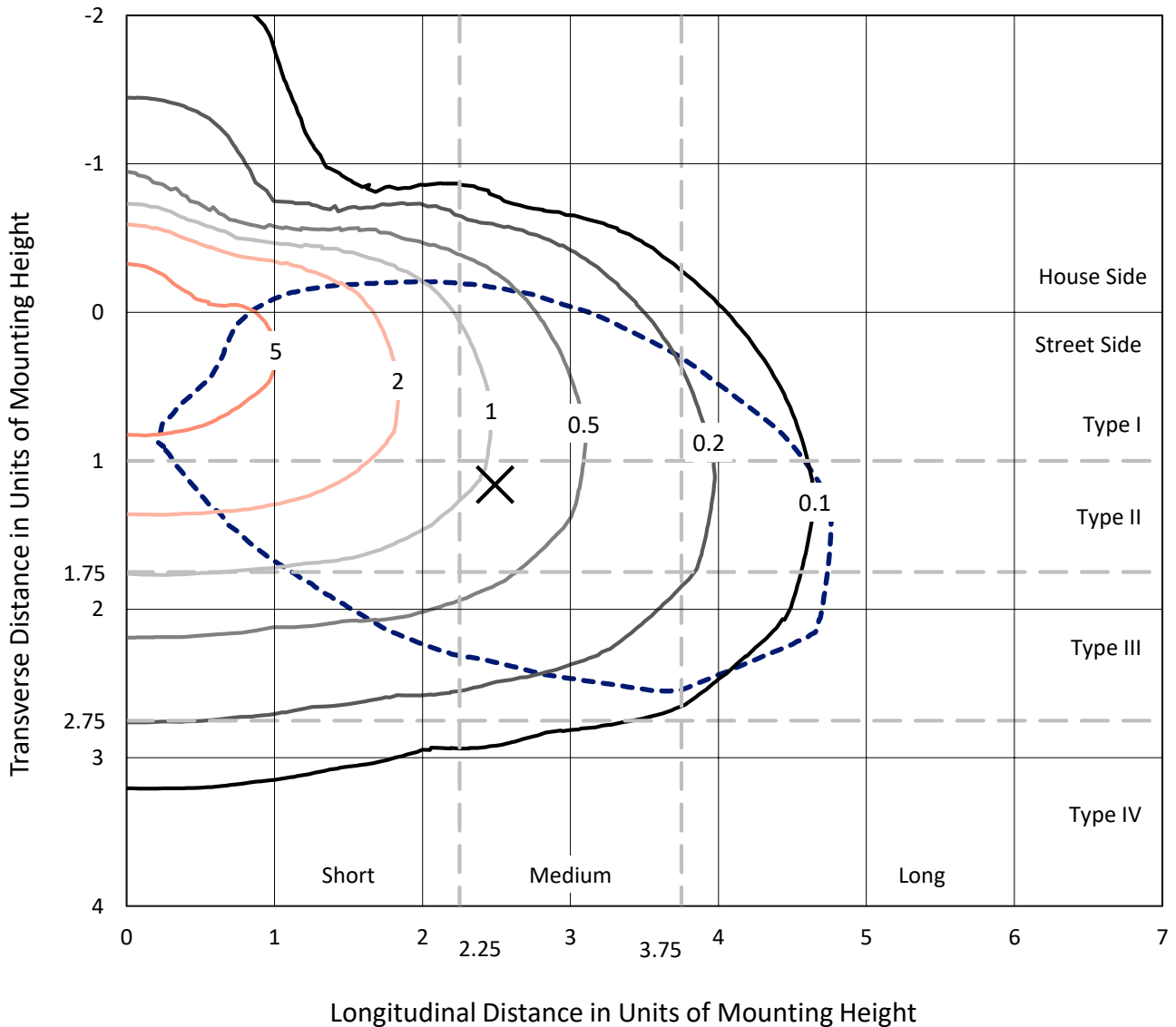
Input Watts (W): 172.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

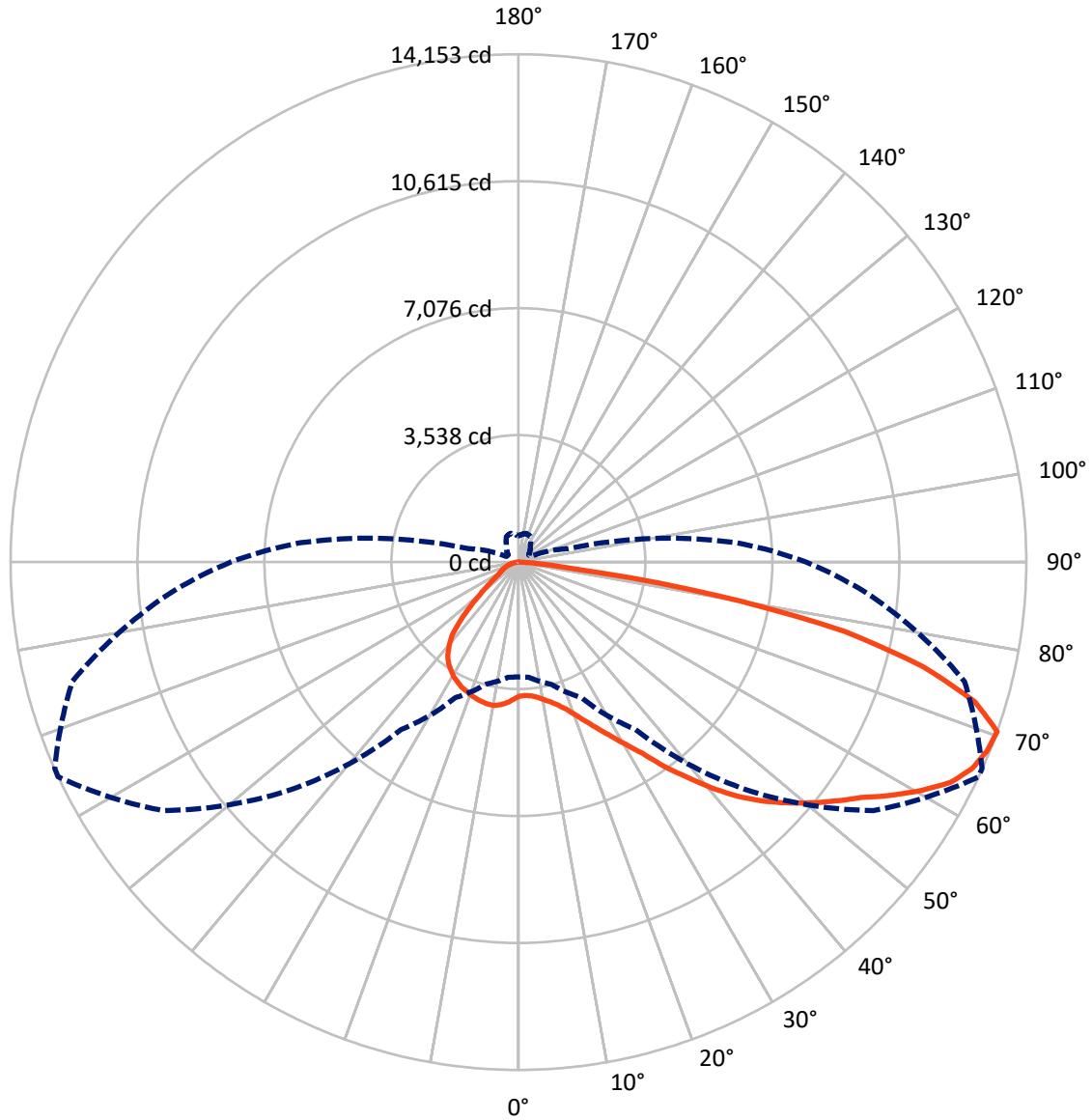
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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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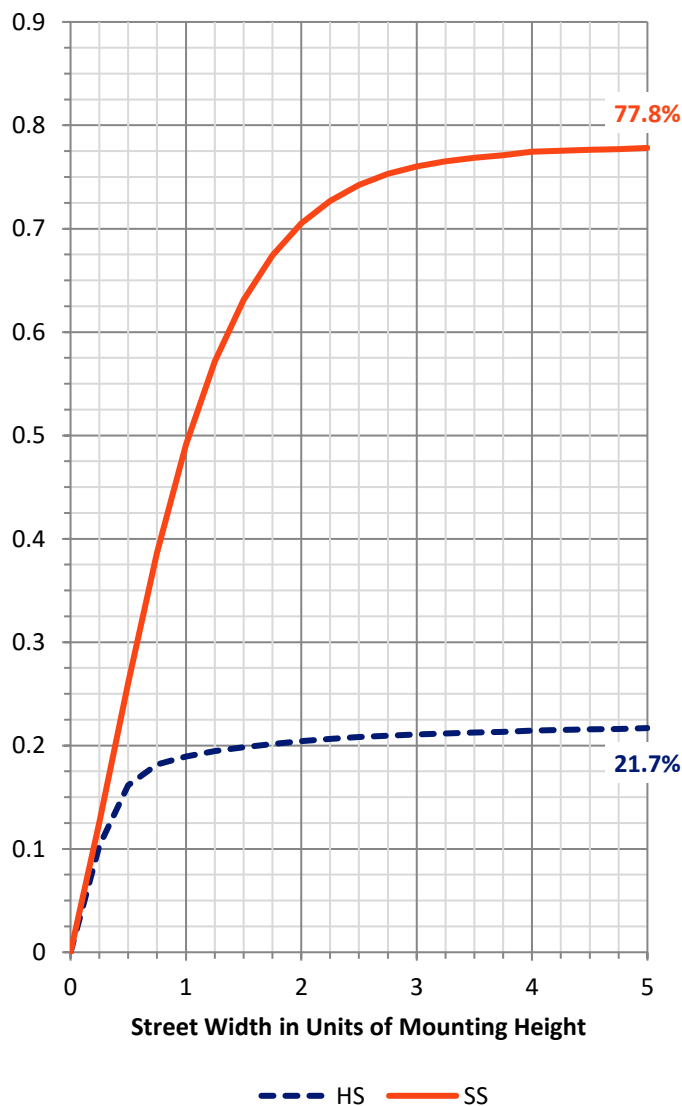
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5401.4	0.0	5401.4
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	19084.6	0.0	19084.6
	% Fixture	77.9	0.0	77.9
Total	Lumens	24486.0	0.0	24486.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.0	1.5
10°-20°	1185.3	4.8
20°-30°	2056.2	8.4
30°-40°	2989.6	12.2
40°-50°	3994.2	16.3
50°-60°	4865.3	19.9
60°-70°	5244.9	21.4
70°-80°	3400.5	13.9
80°-90°	375.0	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°	24486.0	100.0
0°-180°	24486.0	100.0

Coefficient of Utilization



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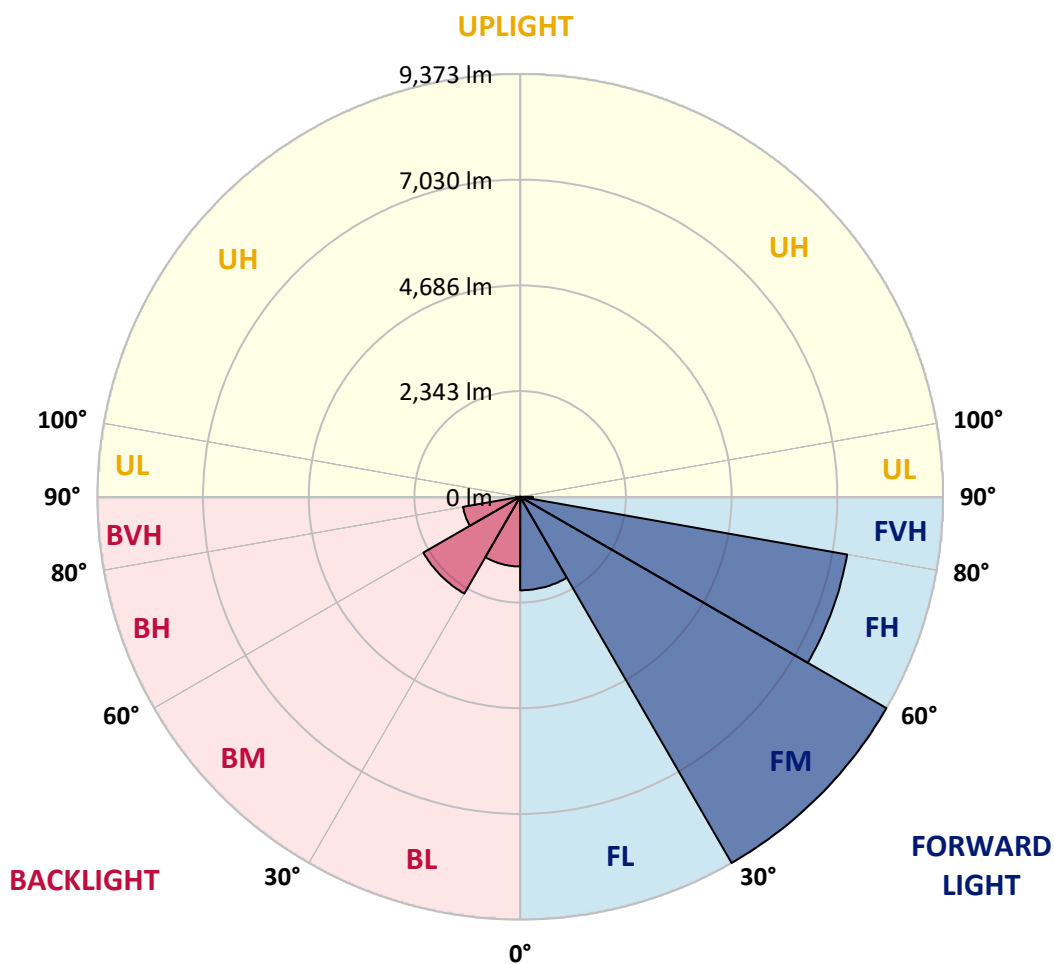
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2072.2	8.5			
FM	(30°-60°)	9372.8	38.3			
FH	(60°-80°)	7359.9	30.1			G3/7500
FVH	(80°-90°)	279.7	1.1			G3/500
BL	(0°-30°)	1544.2	6.3	B3/2500		
BM	(30°-60°)	2476.4	10.1	B2/2500		
BH	(60°-80°)	1285.5	5.2	B3/2500		G3/2500
BVH	(80°-90°)	95.3	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°	3738.3	3738.3	3738.3	3738.3	3738.3	3738.3	3738.3	3738.3	3738.3	3738.3	3738.3
2.5°	3683.1	3716.2	3698.6	3699.7	3725.1	3704.1	3718.4	3718.4	3717.3	3725.1	3748.2
5°	3773.6	3809.0	3788.0	3774.7	3780.3	3753.8	3748.2	3743.8	3740.5	3749.4	3788.0
7.5°	3906.1	3947.0	3923.8	3911.6	3905.0	3844.3	3833.3	3803.5	3800.1	3807.9	3843.2
10°	4081.7	4136.9	4109.3	4075.0	4051.9	3981.2	3924.9	3898.4	3890.7	3886.3	3922.7
12.5°	4334.5	4383.1	4351.1	4287.0	4256.1	4142.4	4075.0	4000.0	3998.9	3983.4	4011.0
15°	4574.1	4624.9	4584.0	4521.1	4480.2	4326.8	4227.4	4134.7	4123.6	4106.0	4114.8
17.5°	4805.9	4867.8	4839.1	4781.6	4732.0	4560.8	4430.6	4311.3	4299.2	4271.6	4230.7
20°	5094.1	5150.4	5142.7	5090.8	5035.6	4841.3	4698.8	4545.4	4532.1	4482.4	4390.8
22.5°	5382.2	5451.8	5408.7	5399.9	5369.0	5175.8	4977.1	4821.4	4808.1	4743.0	4575.2
25°	5653.8	5715.7	5731.1	5716.8	5720.1	5529.1	5331.5	5136.0	5122.8	5034.5	4791.6
27.5°	5975.1	6033.6	6038.0	6041.4	6080.0	5921.0	5689.2	5488.2	5479.4	5380.0	5072.0
30°	6221.3	6318.5	6338.4	6357.1	6377.0	6292.0	6081.1	5893.4	5875.8	5767.6	5387.8
32.5°	6446.5	6519.4	6590.1	6628.7	6718.1	6642.0	6468.6	6352.7	6353.8	6303.0	5891.2
35°	6621.0	6701.6	6791.0	6932.3	7062.6	7030.6	6976.5	6983.1	6984.2	7006.3	6570.2
37.5°	6787.7	6860.6	6973.2	7142.1	7371.7	7413.7	7450.1	7588.1	7636.7	7740.5	7197.3
40°	6888.2	6965.5	7111.2	7345.2	7643.3	7794.6	7905.0	8259.4	8343.3	8344.4	7682.0
42.5°	6741.3	6826.3	7086.9	7503.1	7888.4	8171.1	8461.4	8908.6	8969.3	8833.5	8096.0
45°	6609.9	6688.3	6968.8	7527.4	8080.5	8572.9	8977.0	9494.8	9539.0	9265.2	8478.0
47.5°	6483.0	6544.8	6869.4	7476.6	8277.1	8975.9	9416.4	10024.8	10056.8	9737.7	8851.2
50°	6307.4	6381.4	6725.9	7417.0	8395.2	9321.5	9847.0	10548.1	10543.7	10162.8	9189.0
52.5°	6115.3	6188.2	6558.1	7307.7	8472.5	9589.8	10337.2	11060.4	11063.7	10650.8	9523.5
55°	5873.5	5963.0	6352.7	7159.8	8491.2	9800.7	10762.3	11585.9	11640.0	11148.7	9845.9
57.5°	5584.3	5673.7	6099.9	6943.4	8379.7	9977.3	11216.0	12257.2	12285.9	11657.7	10086.6
60°	5247.5	5355.7	5763.1	6654.1	8166.7	10182.7	11765.9	12915.2	12925.1	12112.5	10287.5
62.5°	4857.8	4935.1	5363.5	6234.6	7826.6	10264.4	12220.7	13519.1	13521.3	12455.9	10378.1
65°	4436.1	4465.9	4824.7	5663.8	7330.9	10130.8	12395.2	13886.7	13876.8	12757.3	10332.8
67.5°	3933.7	3919.4	4302.5	4958.3	6703.8	9685.8	12310.2	14075.5	14105.3	12989.1	10187.1
70°	3198.4	3219.4	3524.1	4168.9	5691.4	8971.5	12076.1	14152.8	14145.1	12873.2	9717.8
72.5°	2427.8	2465.3	2686.2	3169.7	4417.3	7545.1	11073.6	13298.3	13313.7	12056.2	8873.2
75°	1501.5	1609.7	1796.3	2091.1	2767.9	5405.4	9425.3	11648.8	11727.2	10637.5	7306.6
77.5°	658.0	683.4	777.3	1008.0	1447.4	2713.8	6967.7	9302.7	9534.6	8602.8	5270.7
80°	407.4	407.4	433.9	505.7	645.9	1009.1	2792.1	5554.5	5319.3	4920.8	2325.1
82.5°	338.9	338.9	352.2	364.3	331.2	427.3	934.0	1556.7	1668.2	1350.3	714.3
85°	184.4	188.8	189.9	193.2	189.9	230.7	367.6	460.4	465.9	421.7	253.9
87.5°	67.3	71.8	69.6	65.1	58.5	55.2	70.7	71.8	74.0	68.5	37.5
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°	3738.3	3738.3	3738.3	3738.3	3738.3	3738.3	3738.3	3738.3	3738.3	3738.3	3738.3
2.5°	3763.7	3779.2	3820.0	3823.3	3838.8	3844.3	3857.6	3876.3	3909.4	3892.9	3874.1
5°	3806.8	3826.6	3891.8	3924.9	3968.0	3993.3	4035.3	4056.3	4107.1	4090.5	4088.3
7.5°	3871.9	3913.9	3972.4	4004.4	4060.7	4077.3	4108.2	4108.2	4150.1	4129.1	4123.6
10°	3960.2	3987.8	4049.7	4051.9	4083.9	4083.9	4120.3	4097.1	4138.0	4113.7	4112.6
12.5°	4030.9	4046.3	4069.5	4050.8	4067.3	4048.6	4067.3	4039.7	4065.1	4034.2	4027.6
15°	4110.4	4089.4	4066.2	4022.1	4007.7	3977.9	3962.4	3933.7	3935.9	3900.6	3895.1
17.5°	4199.8	4145.7	4078.4	3982.3	3929.3	3853.1	3821.1	3780.3	3757.1	3725.1	3739.4
20°	4308.0	4227.4	4087.2	3938.1	3825.5	3709.6	3634.5	3568.3	3562.8	3534.1	3518.6
22.5°	4448.2	4319.0	4125.8	3875.2	3694.2	3528.5	3417.0	3306.6	3295.6	3237.1	3215.0
25°	4621.6	4440.5	4145.7	3826.6	3540.7	3313.3	3137.7	2984.2	2910.3	2848.4	2834.1
27.5°	4854.5	4619.3	4185.5	3739.4	3359.6	3046.1	2794.4	2591.2	2502.9	2472.0	2440.0
30°	5127.2	4837.9	4259.4	3666.5	3145.4	2704.9	2398.0	2156.2	2060.2	2011.6	1996.1
32.5°	5529.1	5114.0	4327.9	3546.2	2886.0	2329.5	1929.9	1662.7	1604.2	1595.4	1616.3
35°	6114.2	5632.9	4427.2	3434.7	2581.3	1912.2	1470.6	1296.2	1284.0	1286.2	1286.2
37.5°	6723.7	6127.5	4722.0	3270.2	2208.1	1439.7	1119.5	1024.6	1029.0	1029.0	1027.9
40°	7121.1	6524.9	4936.2	3037.2	1744.4	1032.3	830.2	758.5	789.4	831.3	853.4
42.5°	7559.4	6886.0	5084.1	2769.0	1213.4	729.8	603.9	629.3	719.8	783.9	792.7
45°	7932.6	7192.9	5100.7	2351.6	781.7	554.2	550.9	623.8	728.7	798.2	803.7
47.5°	8252.8	7472.2	4996.9	1874.7	569.7	517.8	550.9	642.6	737.5	780.6	785.0
50°	8563.0	7694.1	4752.9	1440.8	518.9	504.6	557.5	645.9	705.5	735.3	730.9
52.5°	8839.0	7896.2	4399.6	1123.9	499.0	495.7	563.1	642.6	680.1	677.9	674.6
55°	9048.8	7955.8	4123.6	876.6	482.5	490.2	566.4	645.9	673.5	653.6	649.2
57.5°	9157.0	7881.8	3891.8	696.7	464.8	484.7	575.2	644.8	693.3	730.9	728.7
60°	9154.8	7797.9	3605.8	600.6	447.1	480.3	589.6	700.0	875.5	910.8	911.9
62.5°	9119.5	7654.4	3213.9	543.2	427.3	482.5	599.5	794.9	997.0	968.3	945.1
65°	9002.4	7385.0	2688.4	481.4	401.9	484.7	595.1	860.1	914.2	811.5	797.1
67.5°	8676.7	6863.9	2110.9	430.6	378.7	472.5	602.8	799.3	840.2	775.0	754.1
70°	8015.4	6129.7	1430.8	371.0	352.2	454.9	585.1	786.1	829.1	762.9	732.0
72.5°	6967.7	4919.6	836.9	319.1	313.6	418.4	576.3	794.9	842.4	768.4	728.7
75°	5423.1	3449.1	483.6	258.3	261.7	386.4	528.8	749.6	834.7	777.3	725.4
77.5°	3500.9	1674.8	341.2	206.5	204.2	304.7	429.5	655.8	803.7	785.0	741.9
80°	1253.1	611.6	239.6	153.5	149.0	206.5	330.1	527.7	680.1	704.4	704.4
82.5°	450.5	306.9	153.5	93.8	92.7	131.4	246.2	400.8	493.5	556.4	571.9
85°	188.8	133.6	75.1	47.5	38.6	50.8	127.0	248.4	334.5	359.9	391.9
87.5°	27.6	24.3	19.9	15.5	13.2	13.2	16.6	71.8	119.2	171.1	212.0
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)