

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: P509935

Luminaire Tested: **VERD-M-CA3-170-730-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509935
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-CA3-170-730-U-T3
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1060mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24043 lumens
Efficiency: N/A
Efficacy: 139.1 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

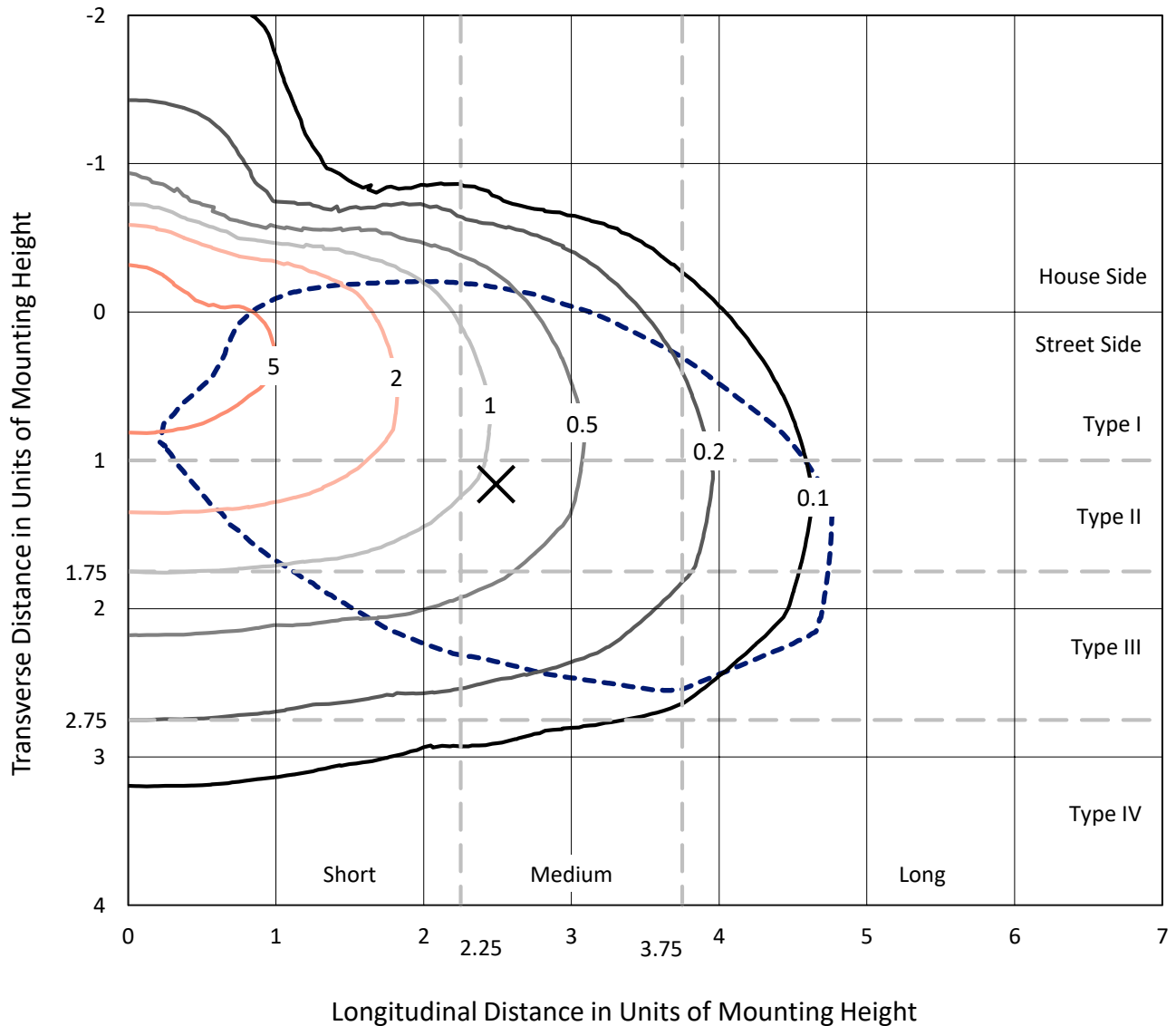
Input Watts (W): 172.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

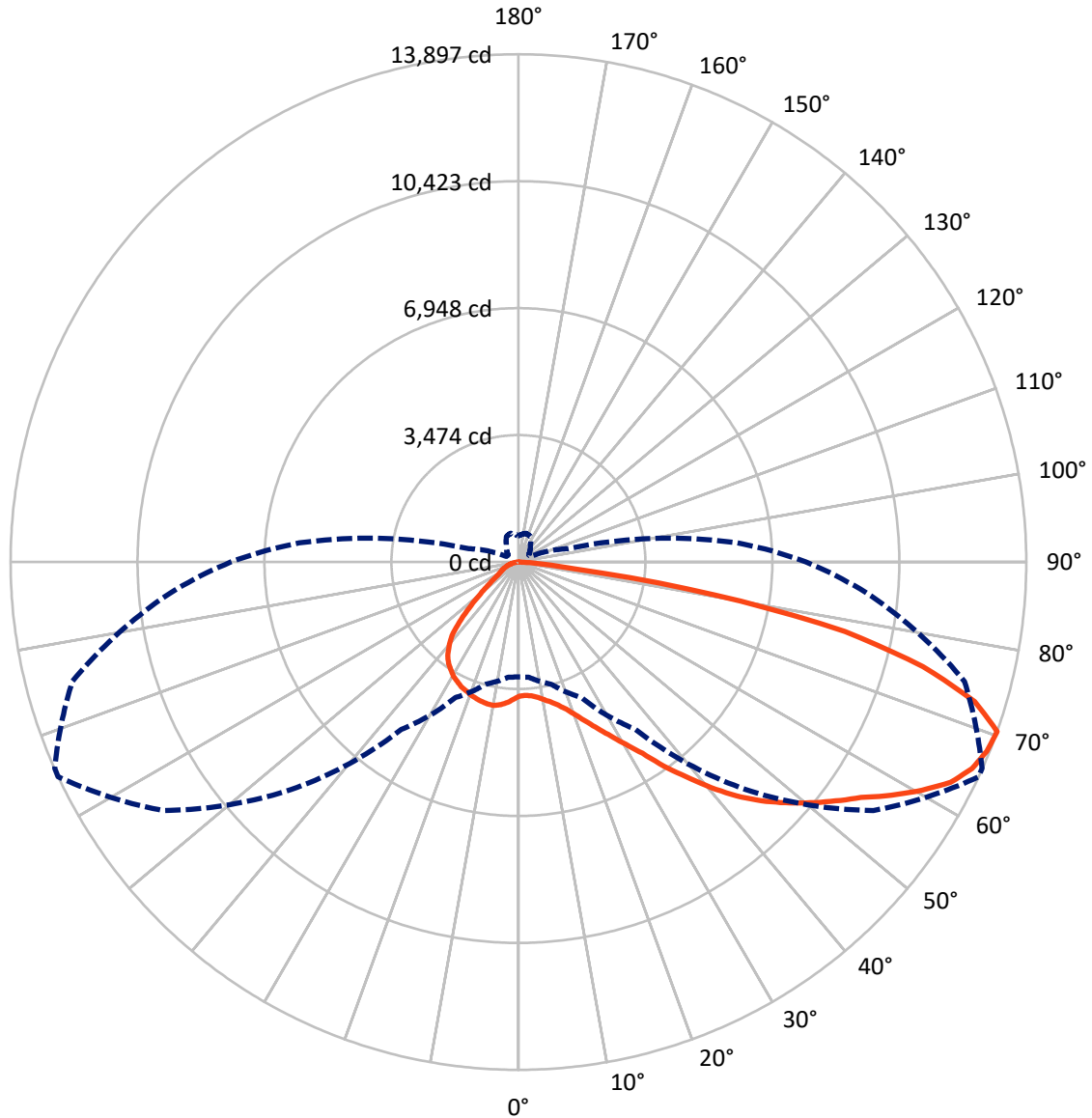
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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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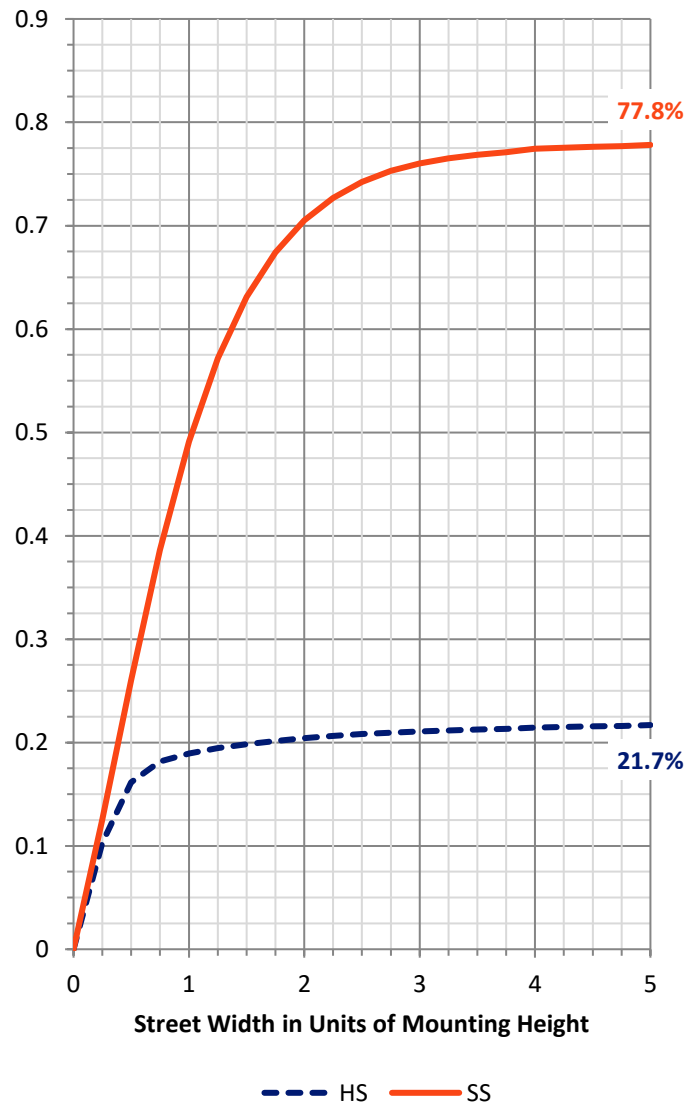
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5303.7	0.0	5303.7
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	18739.3	0.0	18739.3
	% Fixture	77.9	0.0	77.9
Total	Lumens	24043.0	0.0	24043.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.2	1.5
10°-20°	1163.8	4.8
20°-30°	2019.0	8.4
30°-40°	2935.6	12.2
40°-50°	3922.0	16.3
50°-60°	4777.3	19.9
60°-70°	5150.0	21.4
70°-80°	3338.9	13.9
80°-90°	368.3	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°	24043.0	100.0
0°-180°	24043.0	100.0



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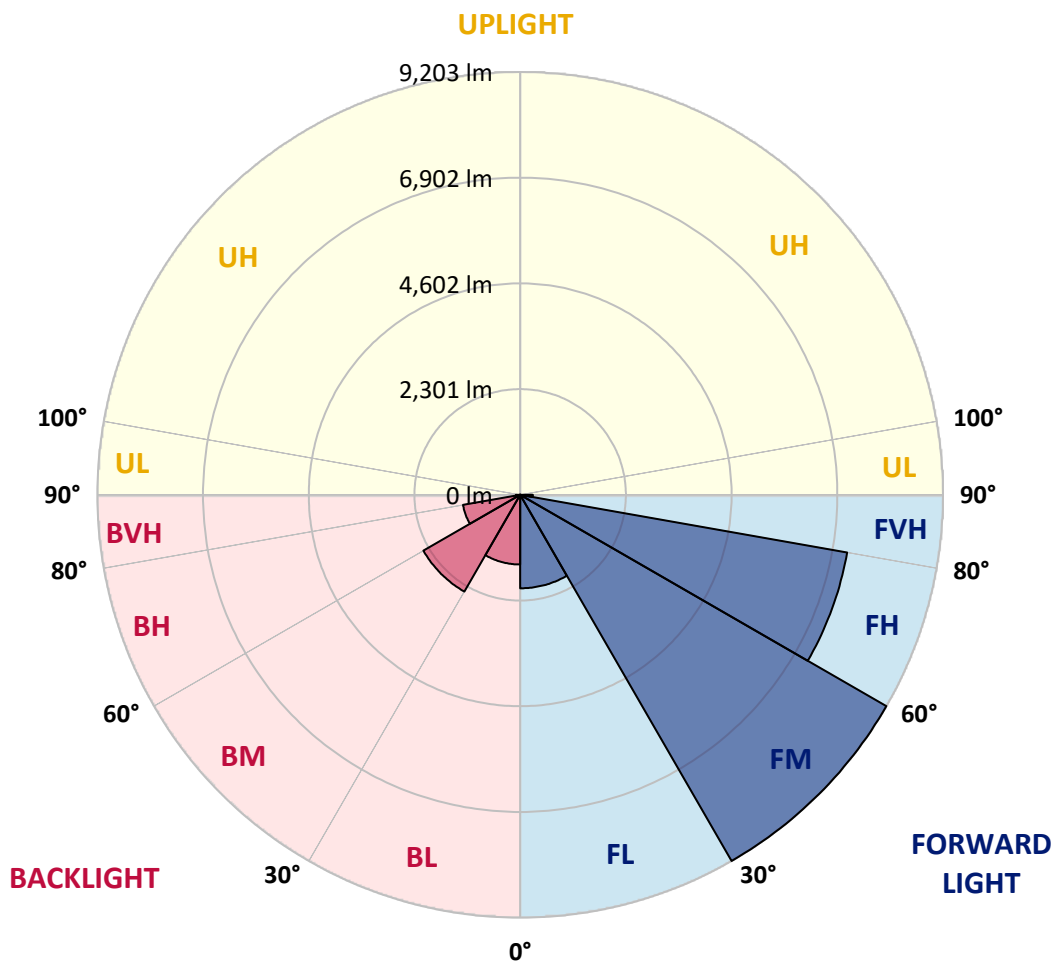
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2034.7	8.5			
FM	(30°-60°)	9203.2	38.3			
FH	(60°-80°)	7226.7	30.1			G3/7500
FVH	(80°-90°)	274.7	1.1			G3/500
BL	(0°-30°)	1516.3	6.3	B3/2500		
BM	(30°-60°)	2431.6	10.1	B2/2500		
BH	(60°-80°)	1262.2	5.2	B3/2500		G3/2500
BVH	(80°-90°)	93.6	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°	3670.7	3670.7	3670.7	3670.7	3670.7	3670.7	3670.7	3670.7	3670.7	3670.7	3670.7
2.5°	3616.5	3649.0	3631.7	3632.7	3657.7	3637.1	3651.2	3651.2	3650.1	3657.7	3680.4
5°	3705.4	3740.1	3719.5	3706.5	3711.9	3685.9	3680.4	3676.1	3672.8	3681.5	3719.5
7.5°	3835.5	3875.6	3852.8	3840.9	3834.4	3774.8	3763.9	3734.6	3731.4	3739.0	3773.7
10°	4007.8	4062.0	4034.9	4001.3	3978.6	3909.2	3853.9	3827.9	3820.3	3815.9	3851.7
12.5°	4256.1	4303.8	4272.3	4209.5	4179.1	4067.5	4001.3	3927.6	3926.5	3911.3	3938.4
15°	4491.3	4541.2	4501.1	4439.3	4399.2	4248.5	4150.9	4059.9	4049.0	4031.7	4040.3
17.5°	4719.0	4779.7	4751.5	4695.1	4646.3	4478.3	4350.4	4233.3	4221.4	4194.3	4154.2
20°	5001.9	5057.2	5049.6	4998.7	4944.5	4753.7	4613.8	4463.1	4450.1	4401.3	4311.4
22.5°	5284.9	5353.2	5310.9	5302.2	5271.9	5082.1	4887.0	4734.2	4721.1	4657.2	4492.4
25°	5551.6	5612.3	5627.4	5613.3	5616.6	5429.1	5235.0	5043.1	5030.1	4943.4	4704.9
27.5°	5867.0	5924.5	5928.8	5932.1	5970.0	5813.9	5586.2	5388.9	5380.3	5282.7	4980.2
30°	6108.8	6204.2	6223.7	6242.1	6261.6	6178.1	5971.1	5786.8	5769.4	5663.2	5290.3
32.5°	6329.9	6401.5	6470.8	6508.8	6596.6	6521.8	6351.6	6237.8	6238.9	6189.0	5784.6
35°	6501.2	6580.3	6668.1	6806.9	6934.8	6903.4	6850.3	6856.8	6857.9	6879.5	6451.3
37.5°	6664.9	6736.4	6847.0	7012.9	7238.4	7279.6	7315.3	7450.9	7498.6	7600.5	7067.1
40°	6763.5	6839.4	6982.5	7212.4	7505.1	7653.6	7762.0	8110.0	8192.4	8193.4	7543.0
42.5°	6619.4	6702.8	6958.7	7367.4	7745.7	8023.2	8308.4	8747.4	8807.0	8673.7	7949.5
45°	6490.4	6567.3	6842.7	7391.2	7934.3	8417.8	8814.6	9323.0	9366.4	9097.6	8324.6
47.5°	6365.7	6426.4	6745.1	7341.4	8127.3	8813.5	9246.1	9843.4	9874.8	9561.5	8691.0
50°	6193.3	6266.0	6604.2	7282.8	8243.3	9152.8	9668.9	10357.3	10352.9	9978.9	9022.8
52.5°	6004.7	6076.2	6439.4	7175.5	8319.2	9416.3	10150.2	10860.3	10863.5	10458.1	9351.2
55°	5767.3	5855.1	6237.8	7030.2	8337.6	9623.3	10567.6	11376.3	11429.4	10947.0	9667.8
57.5°	5483.3	5571.1	5989.5	6817.8	8228.1	9796.8	11013.1	12035.4	12063.6	11446.8	9904.1
60°	5152.6	5258.9	5658.9	6533.7	8018.9	9998.4	11553.0	12681.5	12691.3	11893.4	10101.4
62.5°	4769.9	4845.8	5266.4	6121.8	7685.0	10078.6	11999.6	13274.5	13276.7	12230.5	10190.3
65°	4355.8	4385.1	4737.4	5561.3	7198.3	9947.5	12170.9	13635.5	13625.7	12526.5	10145.9
67.5°	3862.6	3848.5	4224.6	4868.6	6582.5	9510.6	12087.4	13820.9	13850.1	12754.1	10002.8
70°	3140.6	3161.2	3460.4	4093.5	5588.4	8809.2	11857.6	13896.8	13889.2	12640.3	9542.0
72.5°	2383.9	2420.7	2637.6	3112.4	4337.4	7408.6	10873.3	13057.7	13072.9	11838.1	8712.7
75°	1474.3	1580.6	1763.8	2053.2	2717.8	5307.6	9254.8	11438.1	11515.0	10445.1	7174.4
77.5°	646.1	671.0	763.2	989.8	1421.2	2664.7	6841.6	9134.4	9362.1	8447.1	5175.4
80°	400.0	400.0	426.0	496.5	634.2	990.8	2741.6	5454.0	5223.1	4831.7	2283.1
82.5°	332.8	332.8	345.8	357.7	325.2	419.5	917.1	1528.5	1638.0	1325.8	701.4
85°	181.0	185.4	186.5	189.7	186.5	226.6	361.0	452.1	457.5	414.1	249.3
87.5°	66.1	70.5	68.3	64.0	57.5	54.2	69.4	70.5	72.6	67.2	36.9
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°	3670.7	3670.7	3670.7	3670.7	3670.7	3670.7	3670.7	3670.7	3670.7	3670.7	3670.7
2.5°	3695.6	3710.8	3750.9	3754.2	3769.3	3774.8	3787.8	3806.2	3838.7	3822.5	3804.0
5°	3737.9	3757.4	3821.4	3853.9	3896.2	3921.1	3962.3	3982.9	4032.8	4016.5	4014.3
7.5°	3801.9	3843.0	3900.5	3931.9	3987.2	4003.5	4033.8	4033.8	4075.0	4054.4	4049.0
10°	3888.6	3915.7	3976.4	3978.6	4010.0	4010.0	4045.8	4023.0	4063.1	4039.3	4038.2
12.5°	3958.0	3973.1	3995.9	3977.5	3993.7	3975.3	3993.7	3966.6	3991.6	3961.2	3954.7
15°	4036.0	4015.4	3992.7	3949.3	3935.2	3905.9	3890.7	3862.6	3864.7	3830.0	3824.6
17.5°	4123.8	4070.7	4004.6	3910.3	3858.2	3783.4	3752.0	3711.9	3689.1	3657.7	3671.8
20°	4230.1	4150.9	4013.2	3866.9	3756.3	3642.5	3568.8	3503.7	3498.3	3470.1	3454.9
22.5°	4367.7	4240.9	4051.2	3805.1	3627.3	3464.7	3355.2	3246.8	3236.0	3178.5	3156.8
25°	4537.9	4360.2	4070.7	3757.4	3476.6	3253.3	3080.9	2930.3	2857.6	2796.9	2782.8
27.5°	4766.7	4535.8	4109.7	3671.8	3298.8	2991.0	2743.8	2544.3	2457.6	2427.2	2395.8
30°	5034.4	4750.4	4182.4	3600.2	3088.5	2656.0	2354.6	2117.2	2022.9	1975.2	1960.0
32.5°	5429.1	5021.4	4249.6	3482.1	2833.8	2287.4	1895.0	1632.6	1575.2	1566.5	1587.1
35°	6003.6	5531.0	4347.1	3372.6	2534.6	1877.6	1444.0	1272.7	1260.8	1262.9	1262.9
37.5°	6602.0	6016.6	4636.6	3211.0	2168.2	1413.6	1099.3	1006.0	1010.4	1010.4	1009.3
40°	6992.3	6406.9	4846.9	2982.3	1712.8	1013.6	815.2	744.8	775.1	816.3	838.0
42.5°	7422.7	6761.4	4992.2	2718.9	1191.4	716.6	593.0	617.9	706.8	769.7	778.4
45°	7789.1	7062.8	5008.4	2309.1	767.5	544.2	541.0	612.5	715.5	783.8	789.2
47.5°	8103.5	7337.0	4906.5	1840.8	559.4	508.4	541.0	630.9	724.2	766.4	770.8
50°	8408.1	7554.9	4666.9	1414.7	509.5	495.4	547.5	634.2	692.7	722.0	717.7
52.5°	8679.1	7753.3	4320.0	1103.6	490.0	486.7	552.9	630.9	667.8	665.6	662.4
55°	8885.1	7811.8	4049.0	860.8	473.7	481.3	556.1	634.2	661.3	641.8	637.4
57.5°	8991.3	7739.2	3821.4	684.1	456.4	475.9	564.8	633.1	680.8	717.7	715.5
60°	8989.2	7656.8	3540.6	589.7	439.1	471.6	578.9	687.3	859.7	894.4	895.4
62.5°	8954.5	7515.9	3155.7	533.4	419.5	473.7	588.7	780.5	978.9	950.7	928.0
65°	8839.6	7251.4	2639.7	472.7	394.6	475.9	584.3	844.5	897.6	796.8	782.7
67.5°	8519.7	6739.7	2072.8	422.8	371.8	464.0	591.9	784.9	825.0	761.0	740.4
70°	7870.4	6018.8	1405.0	364.2	345.8	446.6	574.6	771.9	814.1	749.1	718.7
72.5°	6841.6	4830.6	821.7	313.3	307.9	410.9	565.9	780.5	827.1	754.5	715.5
75°	5325.0	3386.7	474.8	253.7	256.9	379.4	519.3	736.1	819.6	763.2	712.2
77.5°	3437.6	1644.5	335.0	202.7	200.6	299.2	421.7	643.9	789.2	770.8	728.5
80°	1230.4	600.6	235.2	150.7	146.4	202.7	324.1	518.2	667.8	691.6	691.6
82.5°	442.3	301.4	150.7	92.1	91.1	129.0	241.7	393.5	484.6	546.4	561.6
85°	185.4	131.2	73.7	46.6	37.9	49.9	124.7	243.9	328.5	353.4	384.8
87.5°	27.1	23.8	19.5	15.2	13.0	13.0	16.3	70.5	117.1	168.0	208.1
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)