

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: P510263

Luminaire Tested: **VERD-M-CA4-240-727-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510263
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-CA4-240-727-U-T3
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 2700K, 1090mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28380 lumens
Efficiency: N/A
Efficacy: 117.1 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

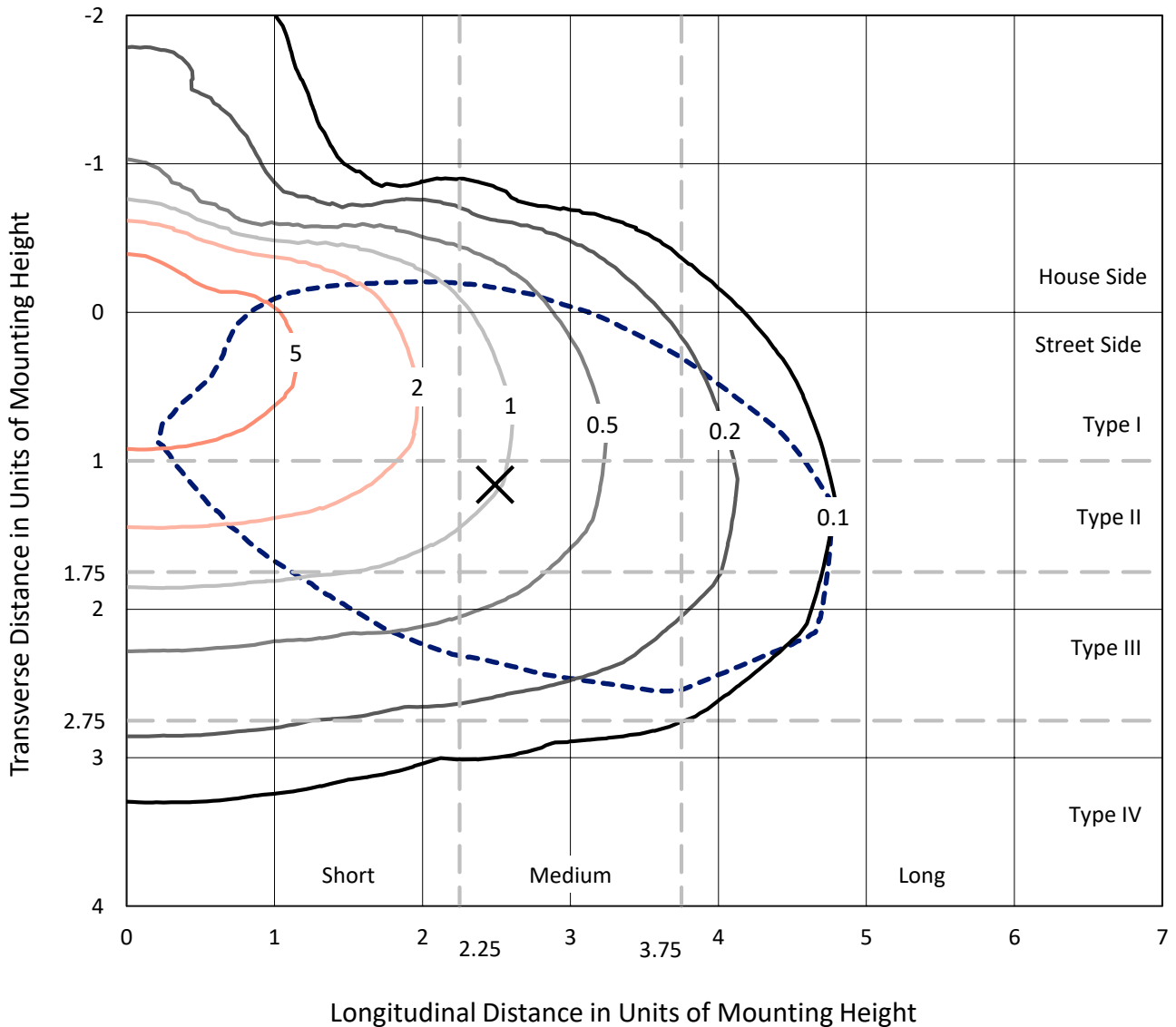
Input Watts (W): 242.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

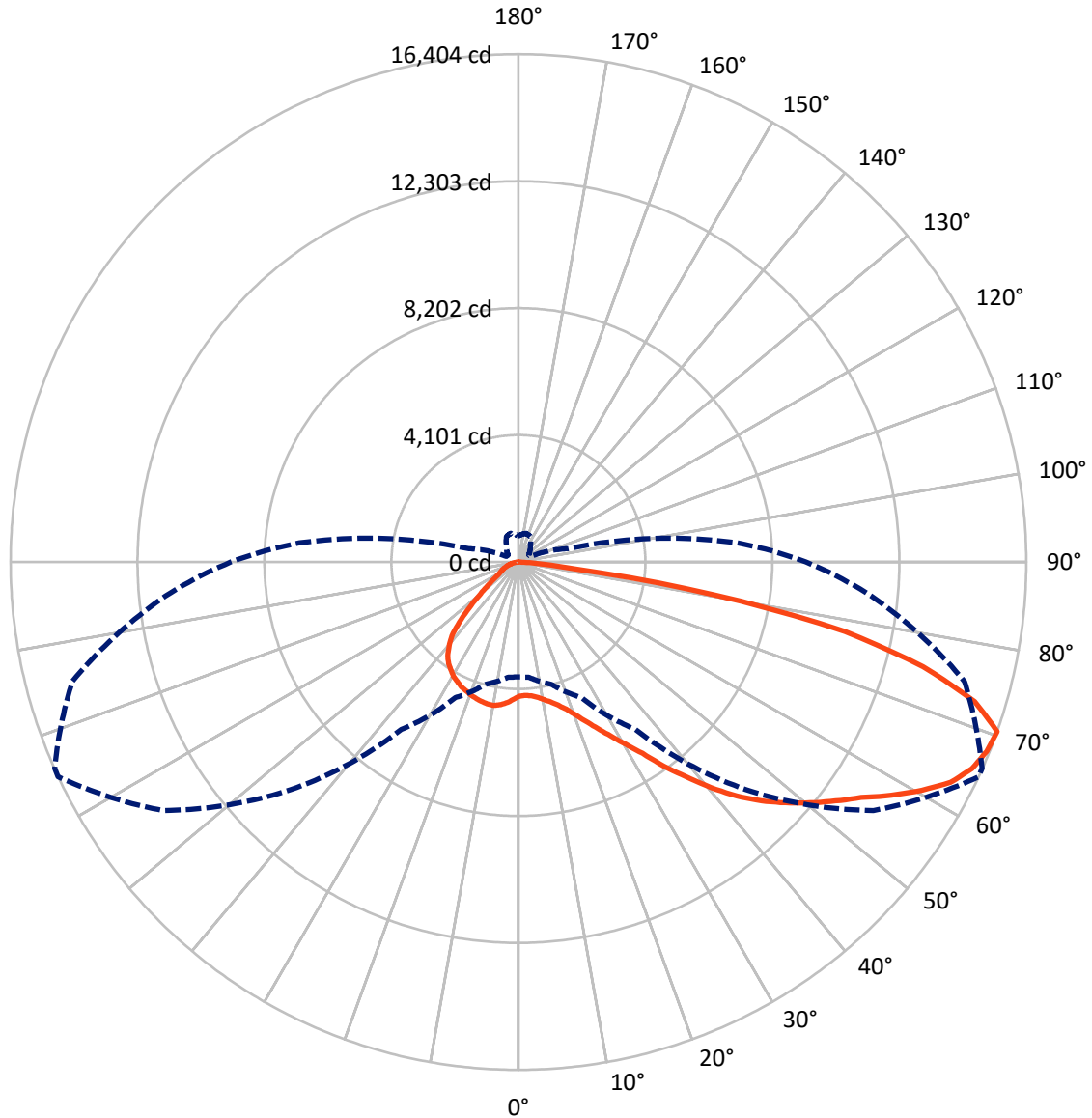
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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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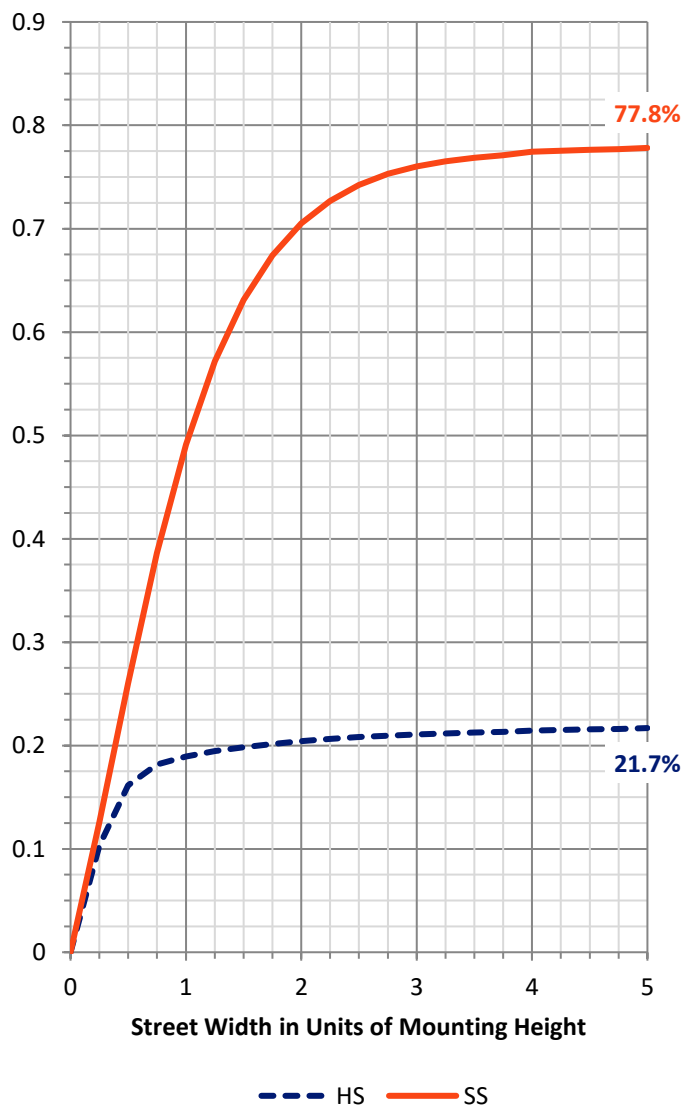
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6260.4	0.0	6260.4
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	22119.7	0.0	22119.7
	% Fixture	77.9	0.0	77.9
Total	Lumens	28380.0	0.0	28380.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	434.7	1.5
10°-20°	1373.7	4.8
20°-30°	2383.2	8.4
30°-40°	3465.1	12.2
40°-50°	4629.4	16.3
50°-60°	5639.0	19.9
60°-70°	6079.0	21.4
70°-80°	3941.2	13.9
80°-90°	434.7	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°	28380.0	100.0
0°-180°	28380.0	100.0

Coefficient of Utilization



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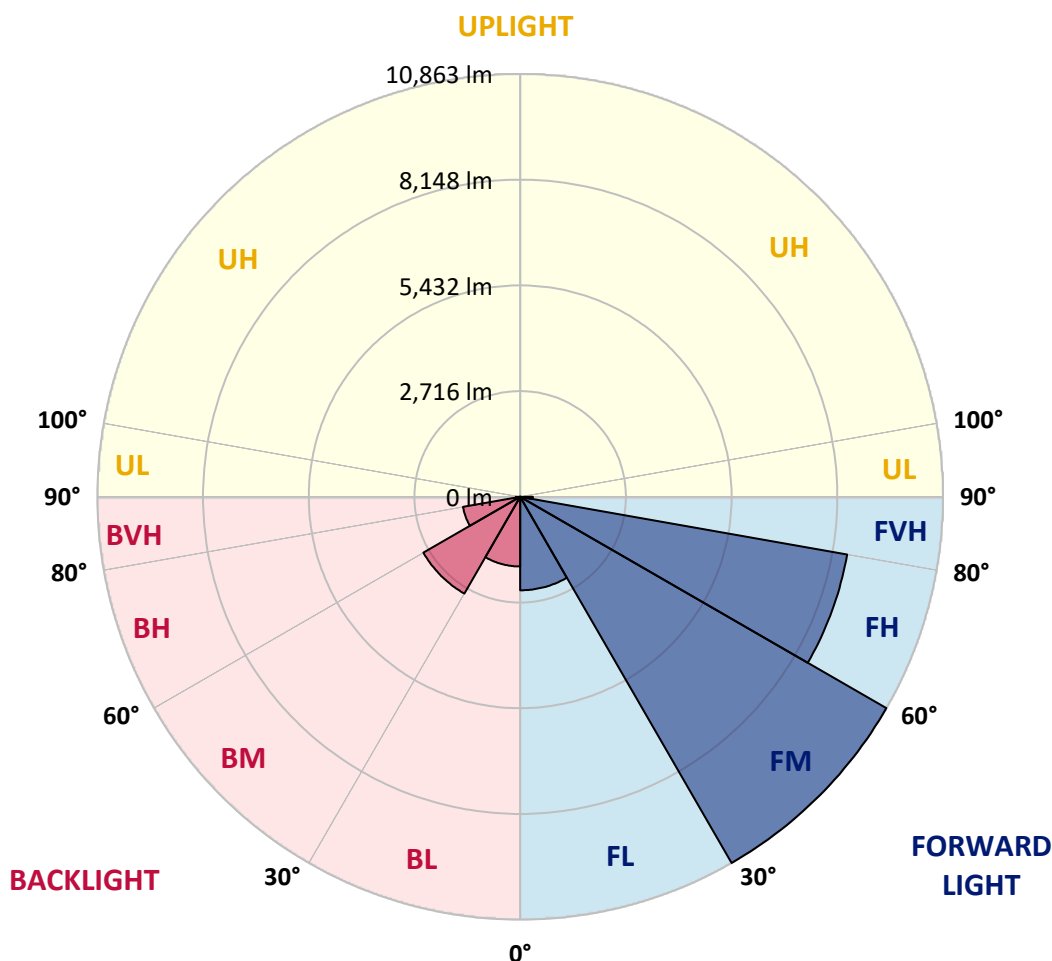
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2401.8	8.5			
FM (30°-60°)	10863.4	38.3			
FH (60°-80°)	8530.3	30.1			G4/12000
FVH (80°-90°)	324.2	1.1			G3/500
BL (0°-30°)	1789.8	6.3	B3/2500		
BM (30°-60°)	2870.2	10.1	B3/5000		
BH (60°-80°)	1489.9	5.2	B3/2500		G3/2500
BVH (80°-90°)	110.5	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-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4332.8	4332.8	4332.8	4332.8	4332.8	4332.8	4332.8	4332.8	4332.8	4332.8	4332.8
2.5°	4268.8	4307.2	4286.7	4288.0	4317.5	4293.1	4309.8	4309.8	4308.5	4317.5	4344.3
5°	4373.8	4414.7	4390.4	4375.0	4381.4	4350.7	4344.3	4339.2	4335.4	4345.6	4390.4
7.5°	4527.3	4574.7	4547.8	4533.7	4526.0	4455.7	4442.9	4408.3	4404.5	4413.4	4454.4
10°	4730.8	4794.8	4762.8	4723.1	4696.2	4614.3	4549.1	4518.4	4509.4	4504.3	4546.5
12.5°	5023.8	5080.1	5043.0	4968.8	4933.0	4801.2	4723.1	4636.1	4634.8	4616.9	4648.9
15°	5301.5	5360.4	5313.0	5240.1	5192.7	5014.9	4899.7	4792.2	4779.4	4758.9	4769.2
17.5°	5570.2	5641.9	5608.6	5542.1	5484.5	5286.1	5135.1	4996.9	4982.9	4950.9	4903.5
20°	5904.2	5969.5	5960.5	5900.4	5836.4	5611.2	5446.1	5268.2	5252.9	5195.3	5089.1
22.5°	6238.2	6318.8	6268.9	6258.7	6222.8	5998.9	5768.6	5588.1	5572.8	5497.3	5302.8
25°	6553.0	6624.6	6642.5	6625.9	6629.7	6408.4	6179.3	5952.8	5937.5	5835.1	5553.6
27.5°	6925.3	6993.2	6998.3	7002.1	7046.9	6862.6	6593.9	6361.0	6350.8	6235.6	5878.6
30°	7210.7	7323.3	7346.3	7368.1	7391.1	7292.6	7048.2	6830.6	6810.2	6684.8	6244.6
32.5°	7471.7	7556.2	7638.1	7682.9	7786.5	7698.2	7497.3	7363.0	7364.3	7305.4	6828.1
35°	7673.9	7767.3	7871.0	8034.8	8185.8	8148.7	8086.0	8093.6	8094.9	8120.5	7615.1
37.5°	7867.1	7951.6	8082.1	8277.9	8544.1	8592.7	8634.9	8794.9	8851.2	8971.5	8341.9
40°	7983.6	8073.2	8242.1	8513.4	8858.9	9034.2	9162.1	9572.9	9670.1	9671.4	8903.6
42.5°	7813.4	7911.9	8213.9	8696.3	9142.9	9470.5	9807.1	10325.3	10395.7	10238.3	9383.5
45°	7661.1	7752.0	8077.0	8724.5	9365.6	9936.3	10404.6	11004.8	11056.0	10738.6	9826.3
47.5°	7514.0	7585.6	7961.8	8665.6	9593.4	10403.4	10913.9	11619.0	11656.1	11286.3	10258.8
50°	7310.5	7396.2	7795.5	8596.5	9730.3	10803.9	11413.0	12225.6	12220.4	11779.0	10650.3
52.5°	7087.9	7172.3	7601.0	8469.8	9819.9	11114.8	11981.1	12819.3	12823.1	12344.6	11038.1
55°	6807.6	6911.3	7363.0	8298.4	9841.6	11359.2	12473.8	13428.4	13491.1	12921.7	11411.7
57.5°	6472.4	6576.0	7069.9	8047.6	9712.4	11564.0	12999.7	14206.4	14239.7	13511.6	11690.7
60°	6082.1	6207.5	6679.7	7712.3	9465.4	11802.0	13637.0	14969.1	14980.6	14038.8	11923.6
62.5°	5630.4	5719.9	6216.4	7226.1	9071.3	11896.7	14164.2	15669.0	15671.6	14436.7	12028.5
65°	5141.5	5176.1	5592.0	6564.5	8496.7	11741.9	14366.4	16095.1	16083.6	14786.1	11976.0
67.5°	4559.3	4542.7	4986.7	5746.8	7769.9	11226.2	14267.8	16314.0	16348.5	15054.8	11807.1
70°	3707.1	3731.4	4084.6	4831.9	6596.5	10398.2	13996.6	16403.5	16394.6	14920.4	11263.3
72.5°	2813.9	2857.4	3113.3	3673.8	5119.8	8745.0	12834.7	15413.1	15431.0	13973.5	10284.4
75°	1740.3	1865.7	2082.0	2423.6	3208.0	6265.1	10924.2	13501.3	13592.2	12329.2	8468.6
77.5°	762.7	792.1	900.9	1168.3	1677.6	3145.3	8075.7	10782.1	11050.9	9970.9	6108.9
80°	472.2	472.2	502.9	586.1	748.6	1169.6	3236.2	6437.8	6165.2	5703.3	2694.9
82.5°	392.8	392.8	408.2	422.3	383.9	495.2	1082.6	1804.3	1933.5	1565.0	827.9
85°	213.7	218.8	220.1	223.9	220.1	267.4	426.1	533.6	540.0	488.8	294.3
87.5°	78.1	83.2	80.6	75.5	67.8	64.0	81.9	83.2	85.7	79.3	43.5
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°	4332.8	4332.8	4332.8	4332.8	4332.8	4332.8	4332.8	4332.8	4332.8	4332.8	4332.8
2.5°	4362.2	4380.2	4427.5	4431.3	4449.3	4455.7	4471.0	4492.8	4531.2	4512.0	4490.2
5°	4412.2	4435.2	4510.7	4549.1	4599.0	4628.4	4677.0	4701.3	4760.2	4741.0	4738.5
7.5°	4487.7	4536.3	4604.1	4641.2	4706.5	4725.7	4761.5	4761.5	4810.1	4785.8	4779.4
10°	4590.0	4622.0	4693.7	4696.2	4733.3	4733.3	4775.6	4748.7	4796.0	4767.9	4766.6
12.5°	4671.9	4689.8	4716.7	4694.9	4714.1	4692.4	4714.1	4682.2	4711.6	4675.8	4668.1
15°	4764.0	4739.7	4712.9	4661.7	4645.0	4610.5	4592.6	4559.3	4561.9	4520.9	4514.5
17.5°	4867.7	4805.0	4726.9	4615.6	4554.2	4465.9	4428.8	4381.4	4354.6	4317.5	4334.1
20°	4993.1	4899.7	4737.2	4564.4	4433.9	4299.5	4212.5	4135.8	4129.4	4096.1	4078.2
22.5°	5155.6	5005.9	4782.0	4491.5	4281.6	4089.7	3960.4	3832.5	3819.7	3751.9	3726.3
25°	5356.5	5146.7	4805.0	4435.2	4103.8	3840.2	3636.7	3458.8	3373.1	3301.4	3284.8
27.5°	5626.5	5354.0	4851.1	4334.1	3893.9	3530.5	3238.7	3003.3	2900.9	2865.1	2828.0
30°	5942.6	5607.3	4936.8	4249.6	3645.7	3135.1	2779.3	2499.1	2387.8	2331.5	2313.6
32.5°	6408.4	5927.2	5016.1	4110.2	3344.9	2700.0	2236.8	1927.1	1859.3	1849.1	1873.4
35°	7086.6	6528.7	5131.3	3980.9	2991.8	2216.3	1704.5	1502.3	1488.2	1490.8	1490.8
37.5°	7792.9	7101.9	5473.0	3790.3	2559.3	1668.6	1297.5	1187.5	1192.6	1192.6	1191.3
40°	8253.6	7562.6	5721.2	3520.3	2021.8	1196.5	962.3	879.1	914.9	963.6	989.2
42.5°	8761.6	7981.0	5892.7	3209.3	1406.3	845.8	700.0	729.4	834.3	908.5	918.8
45°	9194.1	8336.8	5911.9	2725.6	906.0	642.4	638.5	723.0	844.6	925.2	931.6
47.5°	9565.2	8660.5	5791.6	2172.8	660.3	600.1	638.5	744.7	854.8	904.7	909.8
50°	9924.8	8917.7	5508.8	1669.9	601.4	584.8	646.2	748.6	817.7	852.2	847.1
52.5°	10244.7	9151.9	5099.3	1302.7	578.4	574.6	652.6	744.7	788.2	785.7	781.9
55°	10487.8	9221.0	4779.4	1016.0	559.2	568.2	656.4	748.6	780.6	757.5	752.4
57.5°	10613.2	9135.3	4510.7	807.4	538.7	561.8	666.7	747.3	803.6	847.1	844.6
60°	10610.7	9038.0	4179.3	696.1	518.2	556.6	683.3	811.3	1014.7	1055.7	1057.0
62.5°	10569.7	8871.7	3725.0	629.6	495.2	559.2	694.8	921.3	1155.5	1122.2	1095.4
65°	10434.1	8559.4	3115.9	557.9	465.8	561.8	689.7	996.8	1059.5	940.5	923.9
67.5°	10056.6	7955.4	2446.6	499.1	438.9	547.7	698.7	926.4	973.8	898.3	874.0
70°	9290.1	7104.5	1658.4	430.0	408.2	527.2	678.2	911.1	961.0	884.2	848.4
72.5°	8075.7	5702.0	970.0	369.8	363.4	485.0	668.0	921.3	976.4	890.6	844.6
75°	6285.5	3997.6	560.5	299.4	303.3	447.9	612.9	868.9	967.4	900.9	840.7
77.5°	4057.7	1941.2	395.4	239.3	236.7	353.2	497.8	760.1	931.6	909.8	859.9
80°	1452.4	708.9	277.7	177.9	172.7	239.3	382.6	611.7	788.2	816.4	816.4
82.5°	522.1	355.7	177.9	108.8	107.5	152.3	285.4	464.5	572.0	644.9	662.8
85°	218.8	154.8	87.0	55.0	44.8	58.9	147.2	287.9	387.7	417.2	454.3
87.5°	32.0	28.2	23.0	17.9	15.4	15.4	19.2	83.2	138.2	198.3	245.7
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)