

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: P510199

Luminaire Tested: **VERD-M-CA4-220-760-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510199
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-CA4-220-760-U-T3
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 5700K, 1000mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31165 lumens
Efficiency: N/A
Efficacy: 140.1 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

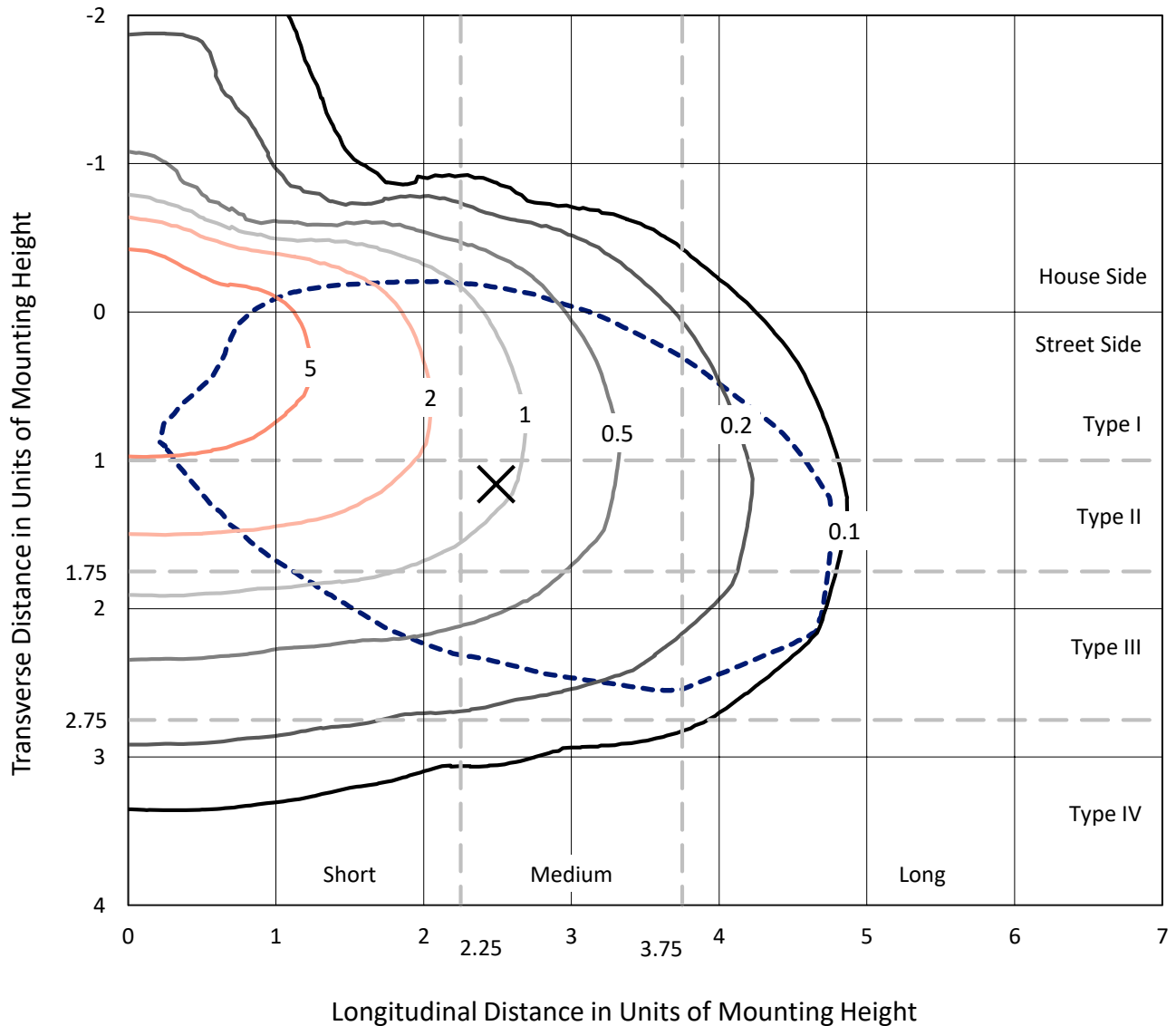
Input Watts (W): 222.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

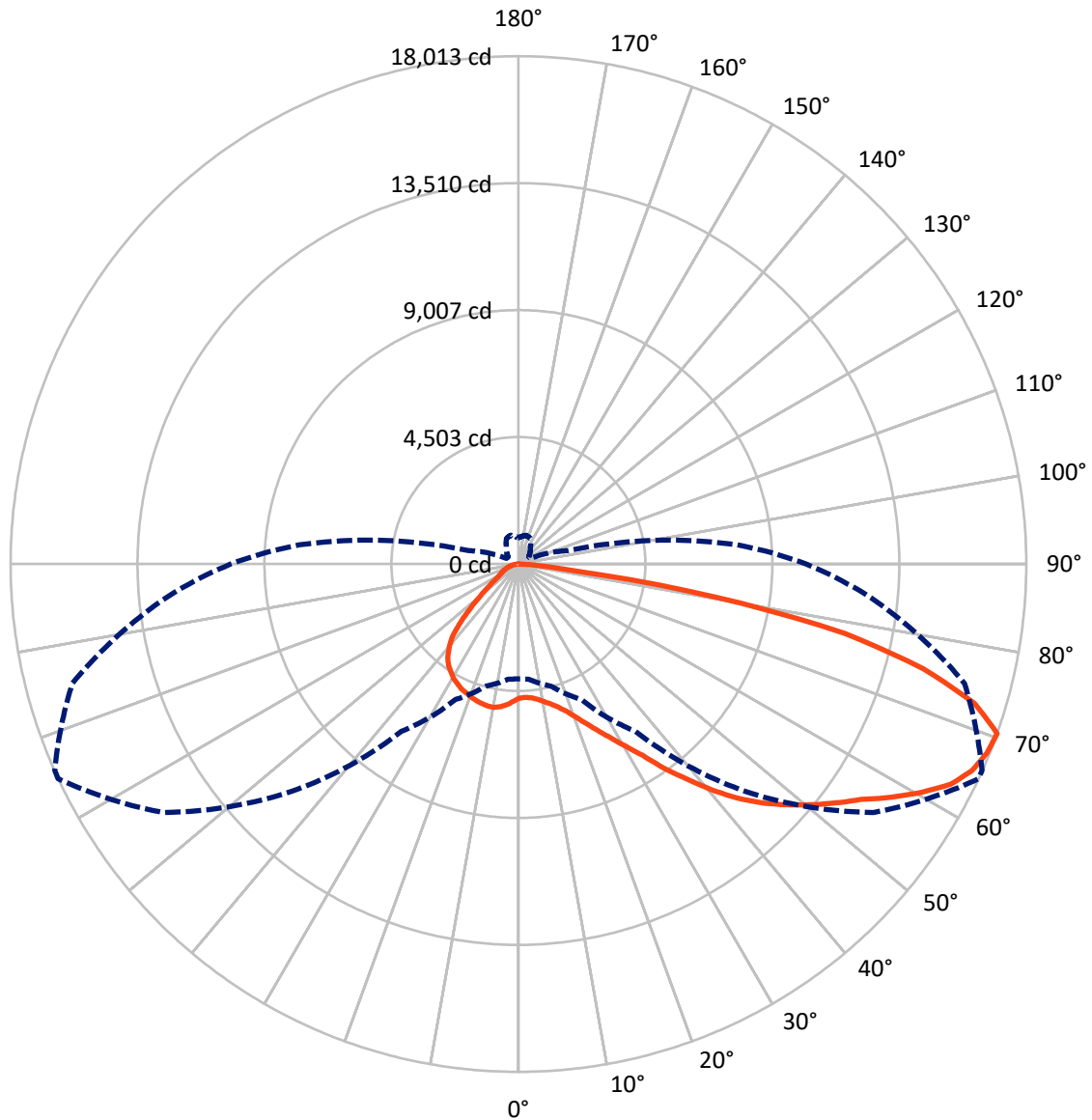
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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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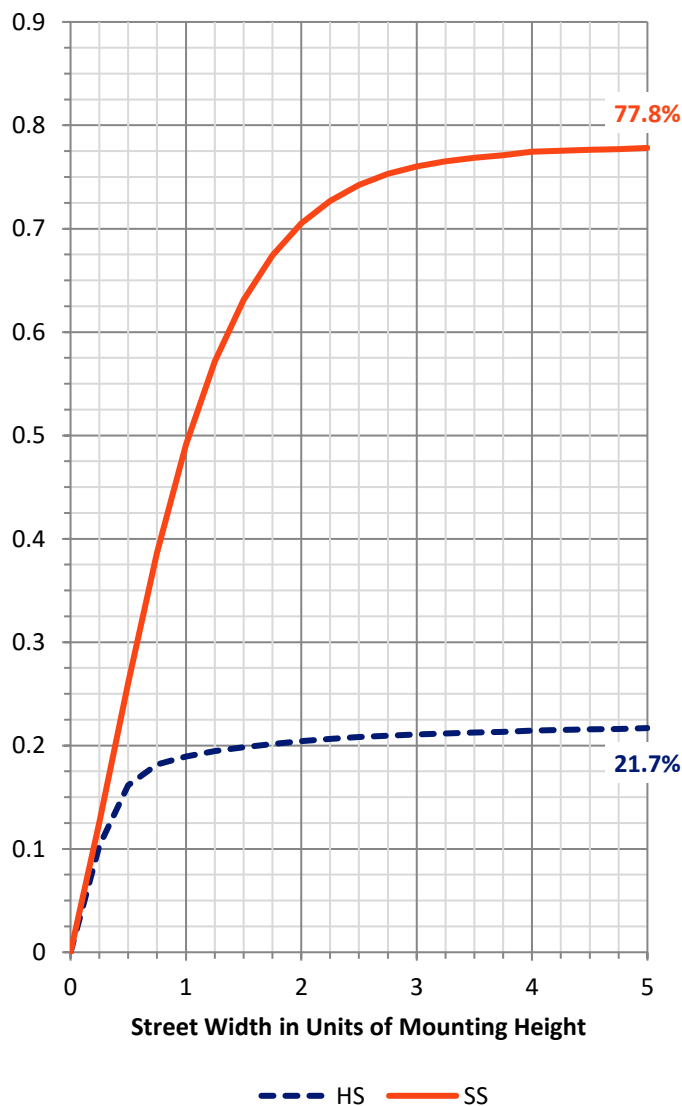
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6874.7	0.0	6874.7
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	24290.3	0.0	24290.3
	% Fixture	77.9	0.0	77.9
Total	Lumens	31165.0	0.0	31165.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	477.3	1.5
10°-20°	1508.5	4.8
20°-30°	2617.0	8.4
30°-40°	3805.1	12.2
40°-50°	5083.7	16.3
50°-60°	6192.4	19.9
60°-70°	6675.5	21.4
70°-80°	4328.0	13.9
80°-90°	477.3	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°	31165.0	100.0
0°-180°	31165.0	100.0

Coefficient of Utilization



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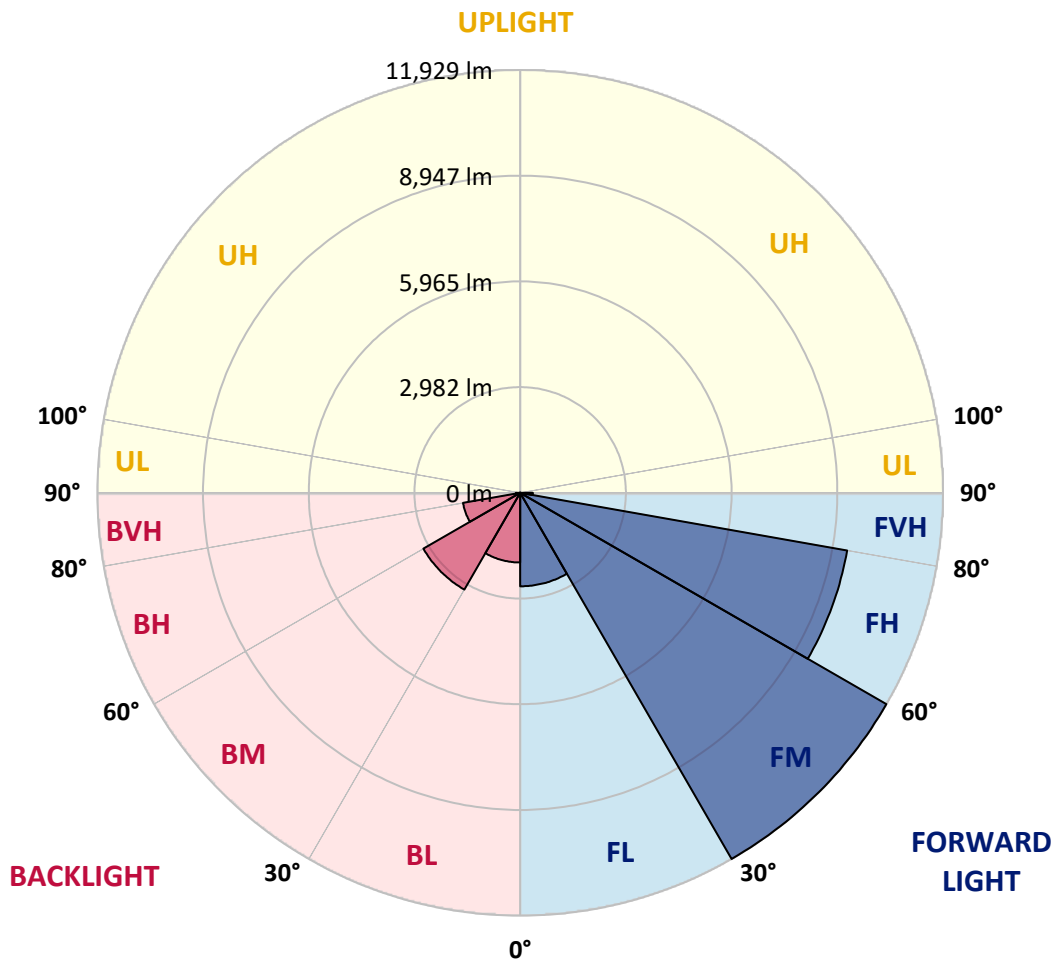
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2637.4	8.5			
FM	(30°-60°)	11929.4	38.3			
FH	(60°-80°)	9367.4	30.1			G4/12000
FVH	(80°-90°)	356.0	1.1			G3/500
BL	(0°-30°)	1965.5	6.3	B3/2500		
BM	(30°-60°)	3151.8	10.1	B3/5000		
BH	(60°-80°)	1636.1	5.2	B3/2500		G3/2500
BVH	(80°-90°)	121.3	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°	4758.0	4758.0	4758.0	4758.0	4758.0	4758.0	4758.0	4758.0	4758.0	4758.0	4758.0
2.5°	4687.7	4729.9	4707.4	4708.8	4741.1	4714.4	4732.7	4732.7	4731.3	4741.1	4770.7
5°	4803.0	4847.9	4821.2	4804.4	4811.4	4777.7	4770.7	4765.0	4760.8	4772.1	4821.2
7.5°	4971.6	5023.6	4994.1	4978.6	4970.2	4892.9	4878.9	4840.9	4836.7	4846.5	4891.5
10°	5195.0	5265.3	5230.2	5186.6	5157.1	5067.1	4995.5	4961.8	4951.9	4946.3	4992.7
12.5°	5516.8	5578.6	5537.9	5456.4	5417.0	5272.3	5186.6	5091.0	5089.6	5070.0	5105.1
15°	5821.7	5886.4	5834.4	5754.3	5702.3	5507.0	5380.5	5262.5	5248.4	5225.9	5237.2
17.5°	6116.8	6195.5	6159.0	6085.9	6022.7	5804.9	5639.1	5487.3	5471.8	5436.7	5384.7
20°	6483.6	6555.3	6545.4	6479.4	6409.1	6161.8	5980.5	5785.2	5768.3	5705.1	5588.5
22.5°	6850.3	6938.9	6884.1	6872.8	6833.5	6587.6	6334.6	6136.5	6119.6	6036.7	5823.1
25°	7196.0	7274.7	7294.4	7276.1	7280.3	7037.2	6785.7	6537.0	6520.1	6407.7	6098.6
27.5°	7604.9	7679.4	7685.0	7689.3	7738.4	7536.1	7241.0	6985.2	6974.0	6847.5	6455.5
30°	7918.3	8042.0	8067.3	8091.1	8116.4	8008.2	7739.8	7501.0	7478.5	7340.8	6857.4
32.5°	8205.0	8297.7	8387.6	8436.8	8550.6	8453.7	8233.1	8085.5	8086.9	8022.3	7498.1
35°	8427.0	8529.6	8643.4	8823.2	8989.1	8948.3	8879.5	8887.9	8889.3	8917.4	8362.3
37.5°	8639.2	8731.9	8875.2	9090.2	9382.5	9435.9	9482.3	9657.9	9719.8	9851.9	9160.5
40°	8767.0	8865.4	9050.9	9348.8	9728.2	9920.7	10061.2	10512.3	10619.1	10620.5	9777.4
42.5°	8580.1	8688.3	9020.0	9549.7	10040.2	10399.9	10769.4	11338.6	11415.8	11243.0	10304.3
45°	8412.9	8512.7	8869.6	9580.7	10284.7	10911.4	11425.7	12084.7	12140.9	11792.4	10790.5
47.5°	8251.3	8330.0	8743.2	9516.0	10534.8	11424.3	11984.9	12759.2	12800.0	12393.9	11265.5
50°	8027.9	8122.1	8560.5	9440.1	10685.1	11864.1	12533.0	13425.3	13419.7	12934.9	11695.5
52.5°	7783.4	7876.1	8346.9	9301.0	10783.5	12205.6	13156.9	14077.3	14081.5	13556.0	12121.3
55°	7475.7	7589.5	8085.5	9112.7	10807.4	12474.0	13697.9	14746.2	14815.0	14189.7	12531.6
57.5°	7107.5	7221.3	7763.7	8837.3	10665.5	12698.8	14275.4	15600.5	15637.1	14837.5	12837.9
60°	6678.9	6816.6	7335.1	8469.1	10394.3	12960.2	14975.2	16438.0	16450.7	15416.4	13093.6
62.5°	6182.9	6281.2	6826.5	7935.2	9961.5	13064.1	15554.2	17206.7	17209.5	15853.5	13208.9
65°	5646.1	5684.0	6140.7	7208.7	9330.5	12894.1	15776.2	17674.6	17662.0	16237.1	13151.3
67.5°	5006.7	4988.5	5476.1	6310.8	8532.4	12327.8	15668.0	17914.9	17952.8	16532.2	12965.8
70°	4070.9	4097.6	4485.4	5306.0	7243.8	11418.7	15370.1	18013.3	18003.4	16384.6	12368.6
72.5°	3090.0	3137.8	3418.9	4034.3	5622.2	9603.1	14094.2	16925.6	16945.3	15344.8	11293.6
75°	1911.1	2048.8	2286.3	2661.4	3522.8	6879.9	11996.2	14826.3	14926.0	13539.1	9299.6
77.5°	837.5	869.8	989.3	1282.9	1842.2	3454.0	8868.2	11840.2	12135.3	10949.3	6708.4
80°	518.5	518.5	552.2	643.6	822.0	1284.4	3553.7	7069.6	6770.3	6263.0	2959.4
82.5°	431.4	431.4	448.3	463.7	421.6	543.8	1188.8	1981.3	2123.3	1718.6	909.2
85°	234.7	240.3	241.7	245.9	241.7	293.7	467.9	586.0	593.0	536.8	323.2
87.5°	85.7	91.3	88.5	82.9	74.5	70.3	89.9	91.3	94.1	87.1	47.8
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°	4758.0	4758.0	4758.0	4758.0	4758.0	4758.0	4758.0	4758.0	4758.0	4758.0	4758.0
2.5°	4790.3	4810.0	4862.0	4866.2	4885.9	4892.9	4909.8	4933.7	4975.8	4954.7	4930.8
5°	4845.1	4870.4	4953.3	4995.5	5050.3	5082.6	5136.0	5162.7	5227.3	5206.3	5203.5
7.5°	4928.0	4981.4	5055.9	5096.7	5168.3	5189.4	5228.7	5228.7	5282.1	5255.4	5248.4
10°	5040.5	5075.6	5154.3	5157.1	5197.8	5197.8	5244.2	5214.7	5266.7	5235.8	5234.4
12.5°	5130.4	5150.1	5179.6	5155.7	5176.8	5152.9	5176.8	5141.6	5173.9	5134.6	5126.2
15°	5231.6	5204.9	5175.3	5119.1	5100.9	5062.9	5043.3	5006.7	5009.5	4964.6	4957.5
17.5°	5345.4	5276.5	5190.8	5068.6	5001.1	4904.1	4863.4	4811.4	4781.9	4741.1	4759.4
20°	5483.1	5380.5	5202.0	5012.3	4869.0	4721.5	4625.9	4541.6	4534.6	4498.0	4478.4
22.5°	5661.5	5497.1	5251.2	4932.3	4701.8	4491.0	4349.1	4208.6	4194.5	4120.0	4091.9
25°	5882.2	5651.7	5276.5	4870.4	4506.5	4217.0	3993.6	3798.3	3704.1	3625.4	3607.1
27.5°	6178.7	5879.4	5327.1	4759.4	4276.0	3876.9	3556.6	3298.0	3185.6	3146.2	3105.5
30°	6525.7	6157.6	5421.3	4666.7	4003.4	3442.7	3052.1	2744.4	2622.1	2560.3	2540.6
32.5°	7037.2	6508.9	5508.4	4513.5	3673.2	2965.0	2456.3	2116.2	2041.8	2030.5	2057.2
35°	7782.0	7169.3	5634.9	4371.6	3285.4	2433.8	1871.7	1649.7	1634.2	1637.1	1637.1
37.5°	8557.7	7798.9	6010.0	4162.2	2810.4	1832.4	1424.9	1304.0	1309.6	1309.6	1308.2
40°	9063.5	8304.7	6282.6	3865.7	2220.2	1313.9	1056.7	965.4	1004.7	1058.1	1086.2
42.5°	9621.4	8764.2	6470.9	3524.2	1544.3	928.8	768.6	801.0	916.2	997.7	1008.9
45°	10096.4	9154.9	6492.0	2993.1	994.9	705.4	701.2	793.9	927.4	1016.0	1023.0
47.5°	10503.9	9510.4	6359.9	2386.0	725.1	659.0	701.2	817.8	938.7	993.5	999.1
50°	10898.7	9792.8	6049.4	1833.8	660.4	642.2	709.6	822.0	897.9	935.9	930.2
52.5°	11250.0	10050.0	5599.7	1430.5	635.2	630.9	716.7	817.8	865.6	862.8	858.6
55°	11517.0	10125.9	5248.4	1115.7	614.1	623.9	720.9	822.0	857.2	831.9	826.3
57.5°	11654.7	10031.7	4953.3	886.7	591.6	616.9	732.1	820.6	882.5	930.2	927.4
60°	11651.9	9924.9	4589.4	764.4	569.1	611.3	750.4	890.9	1114.3	1159.3	1160.7
62.5°	11606.9	9742.2	4090.5	691.4	543.8	614.1	763.0	1011.7	1268.9	1232.4	1202.9
65°	11458.0	9399.4	3421.7	612.7	511.5	616.9	757.4	1094.7	1163.5	1032.8	1014.6
67.5°	11043.5	8736.1	2686.7	548.0	482.0	601.4	767.2	1017.4	1069.4	986.5	959.8
70°	10201.7	7801.7	1821.1	472.1	448.3	578.9	744.8	1000.5	1055.3	971.0	931.6
72.5°	8868.2	6261.6	1065.1	406.1	399.1	532.6	733.5	1011.7	1072.2	978.0	927.4
75°	6902.3	4389.8	615.5	328.8	333.0	491.8	673.1	954.1	1062.3	989.3	923.2
77.5°	4455.9	2131.7	434.2	262.8	260.0	387.8	546.6	834.7	1023.0	999.1	944.3
80°	1594.9	778.5	304.9	195.3	189.7	262.8	420.2	671.7	865.6	896.5	896.5
82.5°	573.3	390.6	195.3	119.4	118.0	167.2	313.4	510.1	628.1	708.2	727.9
85°	240.3	170.0	95.6	60.4	49.2	64.6	161.6	316.2	425.8	458.1	498.8
87.5°	35.1	30.9	25.3	19.7	16.9	16.9	21.1	91.3	151.8	217.8	269.8
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)