

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: P510175

Luminaire Tested: **VERD-M-CA4-220-730-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510175
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-CA4-220-730-U-T3
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 3000K, 1000mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30701 lumens
Efficiency: N/A
Efficacy: 138.0 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

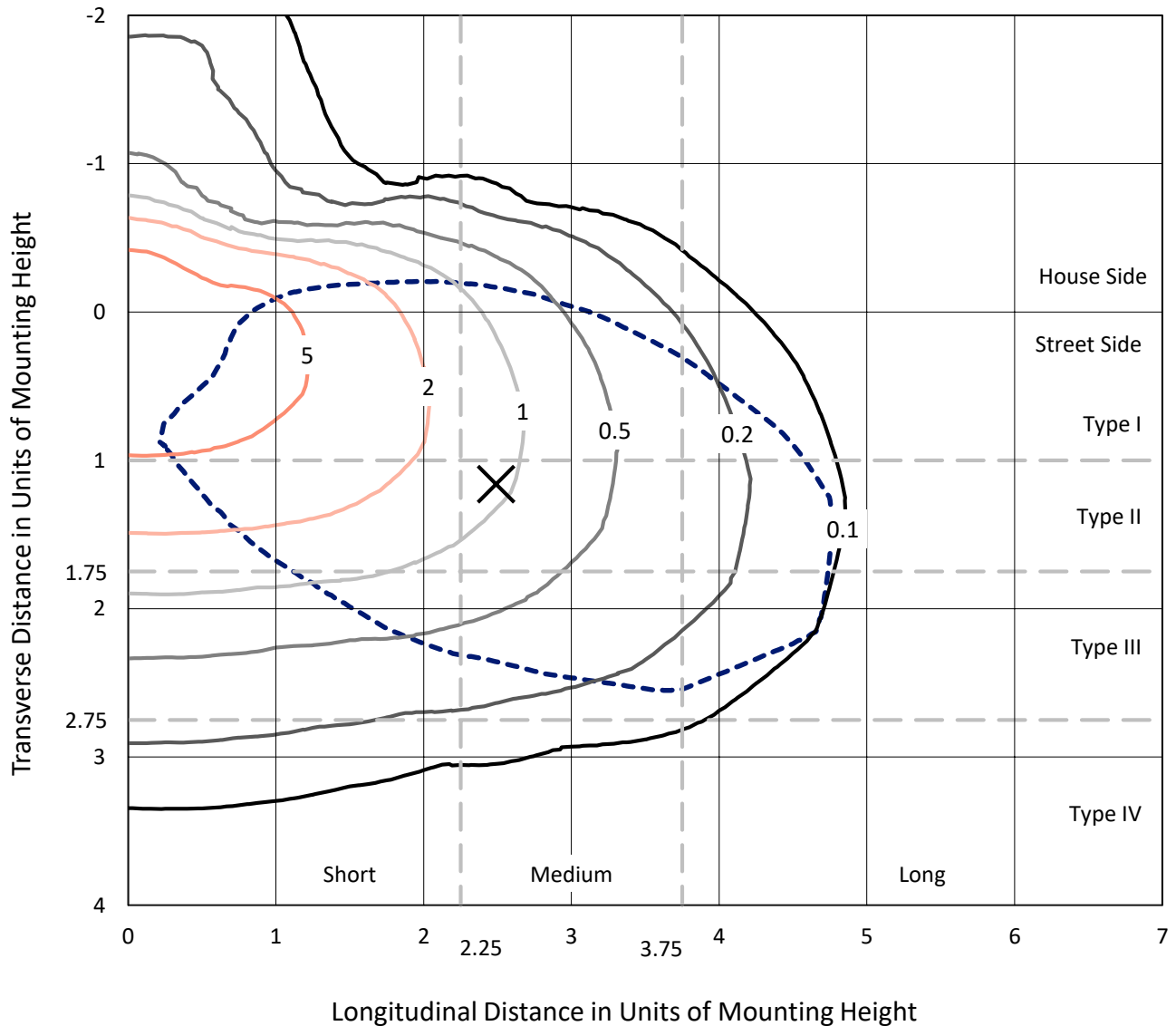
Input Watts (W): 222.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

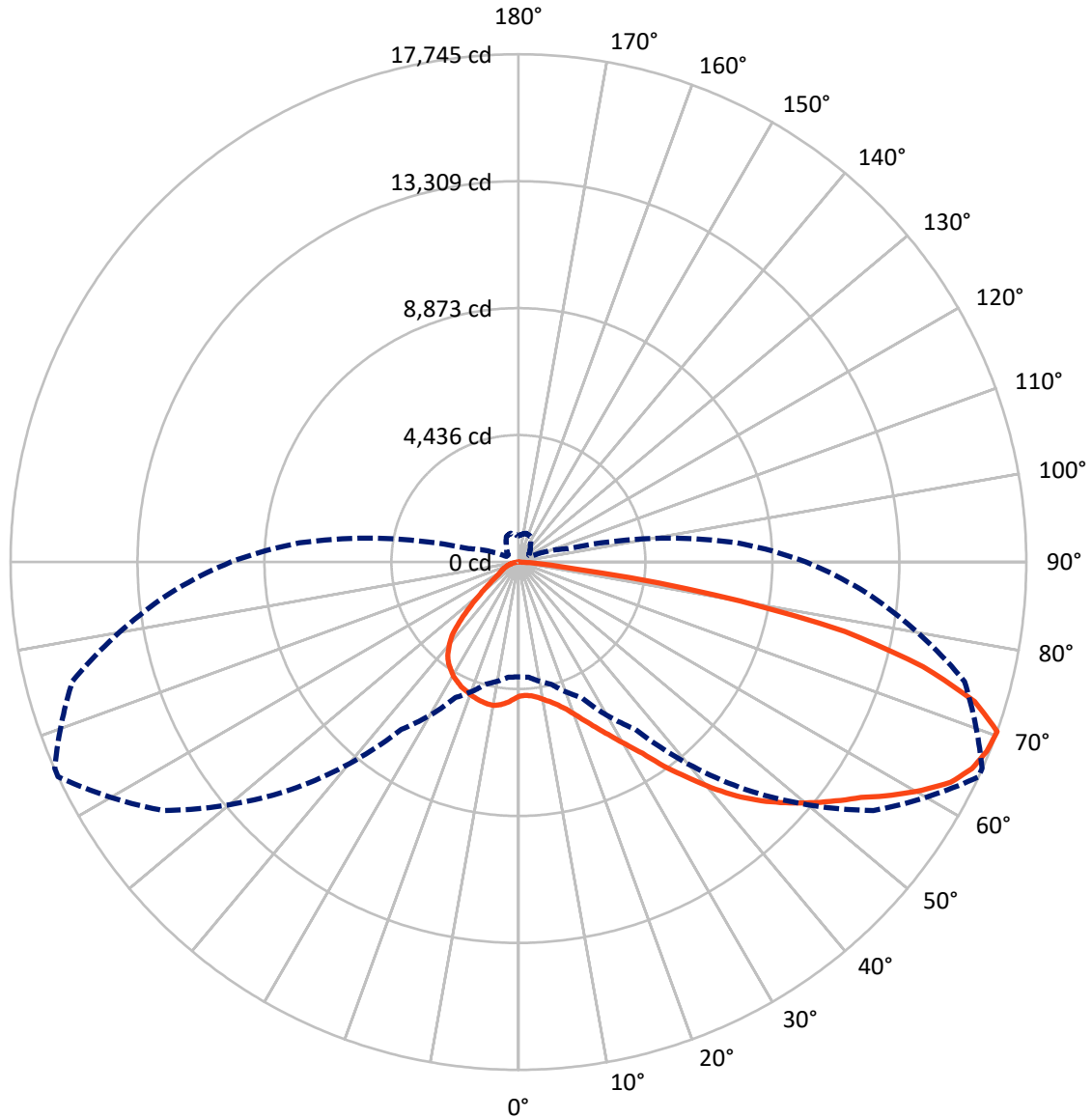
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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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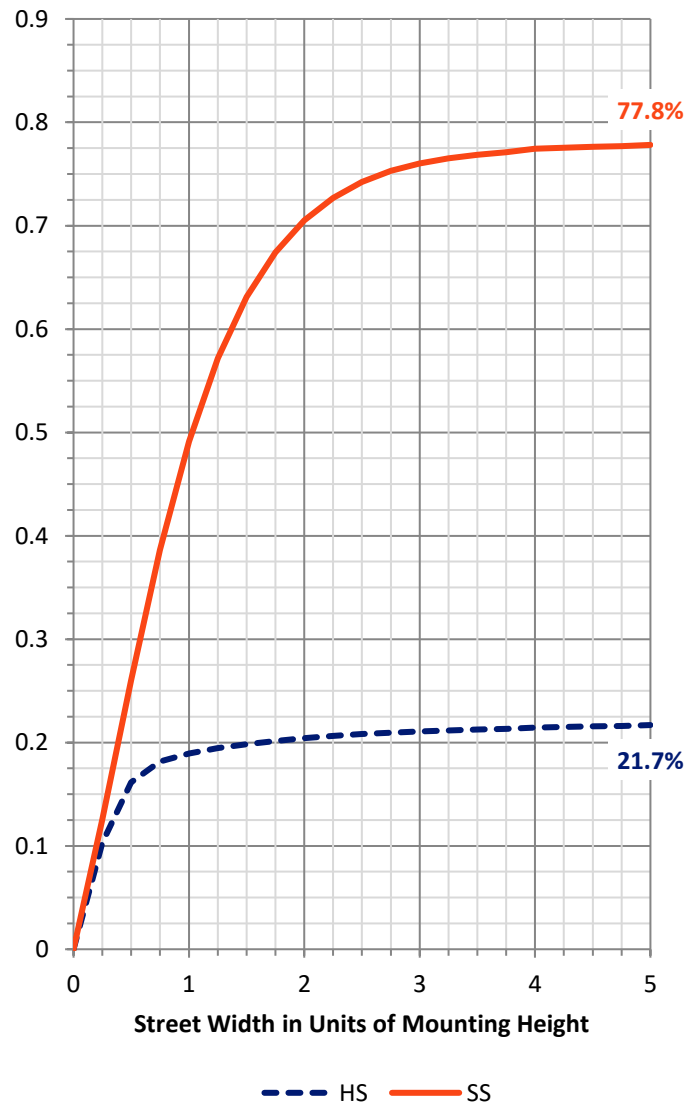
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6772.4	0.0	6772.4
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	23928.6	0.0	23928.6
	% Fixture	77.9	0.0	77.9
Total	Lumens	30701.0	0.0	30701.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	470.2	1.5
10°-20°	1486.1	4.8
20°-30°	2578.1	8.4
30°-40°	3748.5	12.2
40°-50°	5008.0	16.3
50°-60°	6100.2	19.9
60°-70°	6576.1	21.4
70°-80°	4263.6	13.9
80°-90°	470.2	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°	30701.0	100.0
0°-180°	30701.0	100.0



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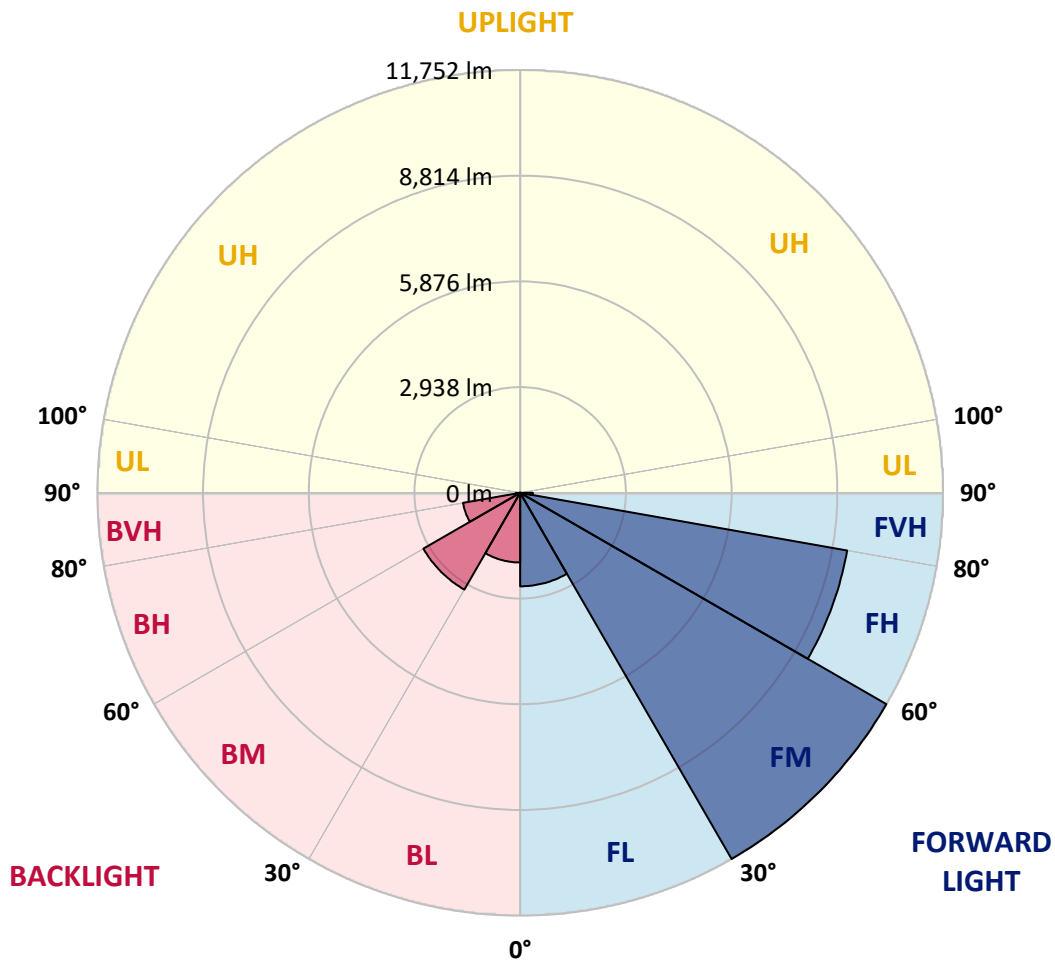
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2598.2	8.5			
FM	(30°-60°)	11751.8	38.3			
FH	(60°-80°)	9228.0	30.1			G4/12000
FVH	(80°-90°)	350.7	1.1			G3/500
BL	(0°-30°)	1936.2	6.3	B3/2500		
BM	(30°-60°)	3104.9	10.1	B3/5000		
BH	(60°-80°)	1611.7	5.2	B3/2500		G3/2500
BVH	(80°-90°)	119.5	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°	4687.2	4687.2	4687.2	4687.2	4687.2	4687.2	4687.2	4687.2	4687.2	4687.2	4687.2
2.5°	4618.0	4659.5	4637.3	4638.7	4670.6	4644.3	4662.2	4662.2	4660.9	4670.6	4699.6
5°	4731.5	4775.8	4749.5	4732.8	4739.8	4706.5	4699.6	4694.1	4689.9	4701.0	4749.5
7.5°	4897.6	4948.8	4919.7	4904.5	4896.2	4820.1	4806.2	4768.8	4764.7	4774.4	4818.7
10°	5117.7	5186.9	5152.3	5109.4	5080.3	4991.7	4921.1	4887.9	4878.2	4872.7	4918.3
12.5°	5434.7	5495.6	5455.4	5375.2	5336.4	5193.8	5109.4	5015.2	5013.9	4994.5	5029.1
15°	5735.1	5798.7	5747.5	5668.6	5617.4	5425.0	5300.4	5184.1	5170.3	5148.1	5159.2
17.5°	6025.8	6103.3	6067.3	5995.3	5933.0	5718.5	5555.1	5405.6	5390.4	5355.8	5304.6
20°	6387.1	6457.7	6448.0	6382.9	6313.7	6070.1	5891.5	5699.1	5682.5	5620.2	5505.3
22.5°	6748.4	6835.6	6781.6	6770.5	6731.7	6489.5	6240.3	6045.1	6028.5	5946.9	5736.4
25°	7088.9	7166.4	7185.8	7167.8	7171.9	6932.5	6684.7	6439.7	6423.1	6312.3	6007.8
27.5°	7491.7	7565.1	7570.6	7574.8	7623.2	7423.9	7133.2	6881.2	6870.2	6745.6	6359.4
30°	7800.4	7922.2	7947.1	7970.7	7995.6	7889.0	7624.6	7389.3	7367.1	7231.5	6755.3
32.5°	8082.8	8174.2	8262.8	8311.2	8423.3	8327.8	8110.5	7965.1	7966.5	7902.8	7386.5
35°	8301.5	8402.6	8514.7	8691.9	8855.2	8815.1	8747.3	8755.6	8756.9	8784.6	8237.8
37.5°	8510.5	8601.9	8743.1	8954.9	9242.8	9295.4	9341.1	9514.1	9575.1	9705.2	9024.1
40°	8636.5	8733.4	8916.1	9209.6	9583.4	9773.0	9911.4	10355.8	10461.0	10462.4	9631.8
42.5°	8452.4	8559.0	8885.7	9407.6	9890.7	10245.0	10609.1	11169.7	11245.9	11075.6	10150.9
45°	8287.7	8386.0	8737.6	9438.0	10131.5	10748.9	11255.6	11904.8	11960.2	11616.9	10629.9
47.5°	8128.5	8206.0	8613.0	9374.3	10377.9	11254.2	11806.5	12569.2	12609.4	12209.3	11097.8
50°	7908.4	8001.1	8433.0	9299.6	10526.1	11687.5	12346.4	13225.4	13219.9	12742.3	11521.3
52.5°	7667.5	7758.9	8222.6	9162.5	10623.0	12023.8	12961.0	13867.7	13871.9	13354.1	11940.8
55°	7364.4	7476.5	7965.1	8977.0	10646.5	12288.2	13493.9	14526.6	14594.4	13978.4	12345.0
57.5°	7001.7	7113.8	7648.1	8705.7	10506.7	12509.7	14062.9	15368.3	15404.2	14616.6	12646.8
60°	6579.5	6715.1	7225.9	8343.0	10239.5	12767.2	14752.3	16193.3	16205.7	15186.9	12898.7
62.5°	6090.8	6187.7	6724.8	7817.0	9813.1	12869.6	15322.6	16950.5	16953.3	15617.4	13012.2
65°	5562.0	5599.4	6049.3	7101.3	9191.6	12702.1	15541.3	17411.5	17399.0	15995.3	12955.5
67.5°	4932.2	4914.2	5394.5	6216.8	8405.3	12144.3	15434.7	17648.2	17685.5	16286.0	12772.7
70°	4010.3	4036.6	4418.6	5227.0	7136.0	11248.6	15141.2	17745.1	17735.4	16140.7	12184.4
72.5°	3044.0	3091.1	3367.9	3974.3	5538.5	9460.2	13884.3	16673.6	16693.0	15116.3	11125.4
75°	1882.6	2018.3	2252.2	2621.8	3470.4	6777.4	11817.6	14605.5	14703.8	13337.5	9161.2
77.5°	825.0	856.9	974.5	1263.8	1814.8	3402.6	8736.2	11663.9	11954.6	10786.3	6608.5
80°	510.8	510.8	544.0	634.0	809.8	1265.2	3500.8	6964.3	6669.5	6169.7	2915.3
82.5°	425.0	425.0	441.6	456.8	415.3	535.7	1171.1	1951.8	2091.6	1693.0	895.6
85°	231.2	236.7	238.1	242.2	238.1	289.3	461.0	577.2	584.2	528.8	318.4
87.5°	84.4	90.0	87.2	81.7	73.4	69.2	88.6	90.0	92.7	85.8	47.1
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°	4687.2	4687.2	4687.2	4687.2	4687.2	4687.2	4687.2	4687.2	4687.2	4687.2	4687.2
2.5°	4719.0	4738.4	4789.6	4793.8	4813.1	4820.1	4836.7	4860.2	4901.7	4881.0	4857.4
5°	4773.0	4797.9	4879.6	4921.1	4975.1	5006.9	5059.5	5085.8	5149.5	5128.8	5126.0
7.5°	4854.7	4907.3	4980.6	5020.8	5091.4	5112.1	5150.9	5150.9	5203.5	5177.2	5170.3
10°	4965.4	5000.0	5077.5	5080.3	5120.4	5120.4	5166.1	5137.1	5188.3	5157.8	5156.4
12.5°	5054.0	5073.4	5102.4	5078.9	5099.7	5076.1	5099.7	5065.1	5096.9	5058.2	5049.8
15°	5153.7	5127.4	5098.3	5042.9	5024.9	4987.6	4968.2	4932.2	4935.0	4890.7	4883.7
17.5°	5265.8	5198.0	5113.5	4993.1	4926.6	4831.1	4791.0	4739.8	4710.7	4670.6	4688.6
20°	5401.5	5300.4	5124.6	4937.7	4796.5	4651.2	4557.0	4474.0	4467.1	4431.1	4411.7
22.5°	5577.3	5415.3	5173.0	4858.8	4631.8	4424.2	4284.3	4145.9	4132.1	4058.7	4031.0
25°	5794.6	5567.6	5198.0	4797.9	4439.4	4154.2	3934.1	3741.7	3649.0	3571.4	3553.4
27.5°	6086.7	5791.8	5247.8	4688.6	4212.4	3819.2	3503.6	3248.9	3138.2	3099.4	3059.3
30°	6428.6	6065.9	5340.5	4597.2	3943.8	3391.5	3006.7	2703.5	2583.1	2522.2	2502.8
32.5°	6932.5	6412.0	5426.4	4446.3	3618.5	2920.8	2419.7	2084.7	2011.4	2000.3	2026.6
35°	7666.1	7062.6	5551.0	4306.5	3236.4	2397.6	1843.9	1625.1	1609.9	1612.7	1612.7
37.5°	8430.3	7682.7	5920.6	4100.2	2768.6	1805.1	1403.7	1284.6	1290.1	1290.1	1288.8
40°	8928.6	8181.1	6189.1	3808.1	2187.2	1294.3	1041.0	951.0	989.8	1042.4	1070.0
42.5°	9478.2	8633.7	6374.6	3471.8	1521.3	915.0	757.2	789.0	902.5	982.8	993.9
45°	9946.0	9018.6	6395.4	2948.5	980.1	694.9	690.8	782.1	913.6	1000.8	1007.8
47.5°	10347.5	9368.8	6265.2	2350.5	714.3	649.2	690.8	805.6	924.7	978.7	984.2
50°	10736.5	9647.0	5959.3	1806.5	650.6	632.6	699.1	809.8	884.6	921.9	916.4
52.5°	11082.5	9900.4	5516.3	1409.2	625.7	621.5	706.0	805.6	852.7	849.9	845.8
55°	11345.5	9975.1	5170.3	1099.1	604.9	614.6	710.1	809.8	844.4	819.5	814.0
57.5°	11481.2	9882.4	4879.6	873.5	582.8	607.7	721.2	808.4	869.3	916.4	913.6
60°	11478.4	9777.2	4521.1	753.0	560.6	602.2	739.2	877.6	1097.7	1142.0	1143.4
62.5°	11434.1	9597.2	4029.6	681.1	535.7	604.9	751.7	996.7	1250.0	1214.0	1184.9
65°	11287.4	9259.4	3370.7	603.5	503.9	607.7	746.1	1078.4	1146.2	1017.4	999.4
67.5°	10879.0	8606.1	2646.7	539.9	474.8	592.5	755.8	1002.2	1053.4	971.8	945.5
70°	10049.9	7685.5	1794.0	465.1	441.6	570.3	733.7	985.6	1039.6	956.5	917.8
72.5°	8736.2	6168.3	1049.3	400.1	393.1	524.6	722.6	996.7	1056.2	963.5	913.6
75°	6799.6	4324.5	606.3	323.9	328.1	484.5	663.1	939.9	1046.5	974.5	909.5
77.5°	4389.5	2100.0	427.7	258.9	256.1	382.1	538.5	822.3	1007.8	984.2	930.2
80°	1571.2	766.9	300.4	192.4	186.9	258.9	413.9	661.7	852.7	883.2	883.2
82.5°	564.8	384.8	192.4	117.7	116.3	164.7	308.7	502.5	618.8	697.7	717.1
85°	236.7	167.5	94.1	59.5	48.4	63.7	159.2	311.5	419.4	451.3	491.4
87.5°	34.6	30.5	24.9	19.4	16.6	16.6	20.8	90.0	149.5	214.6	265.8
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)