

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: P510143

Luminaire Tested: **VERD-M-CA4-210-750-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510143
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-CA4-210-750-U-T3
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 5000K, 960mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30730 lumens
Efficiency: N/A
Efficacy: 143.9 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

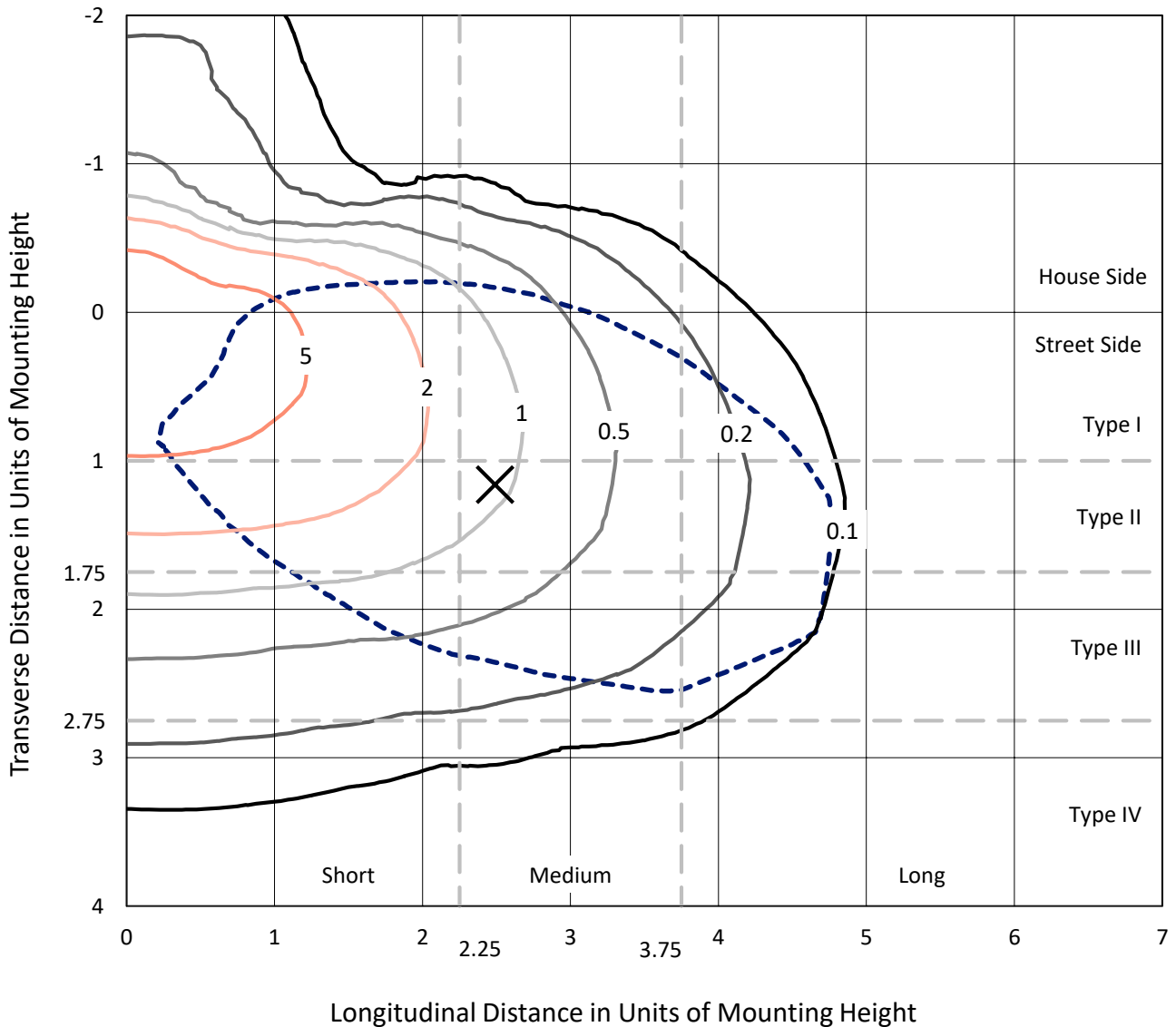
Input Watts (W): 213.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

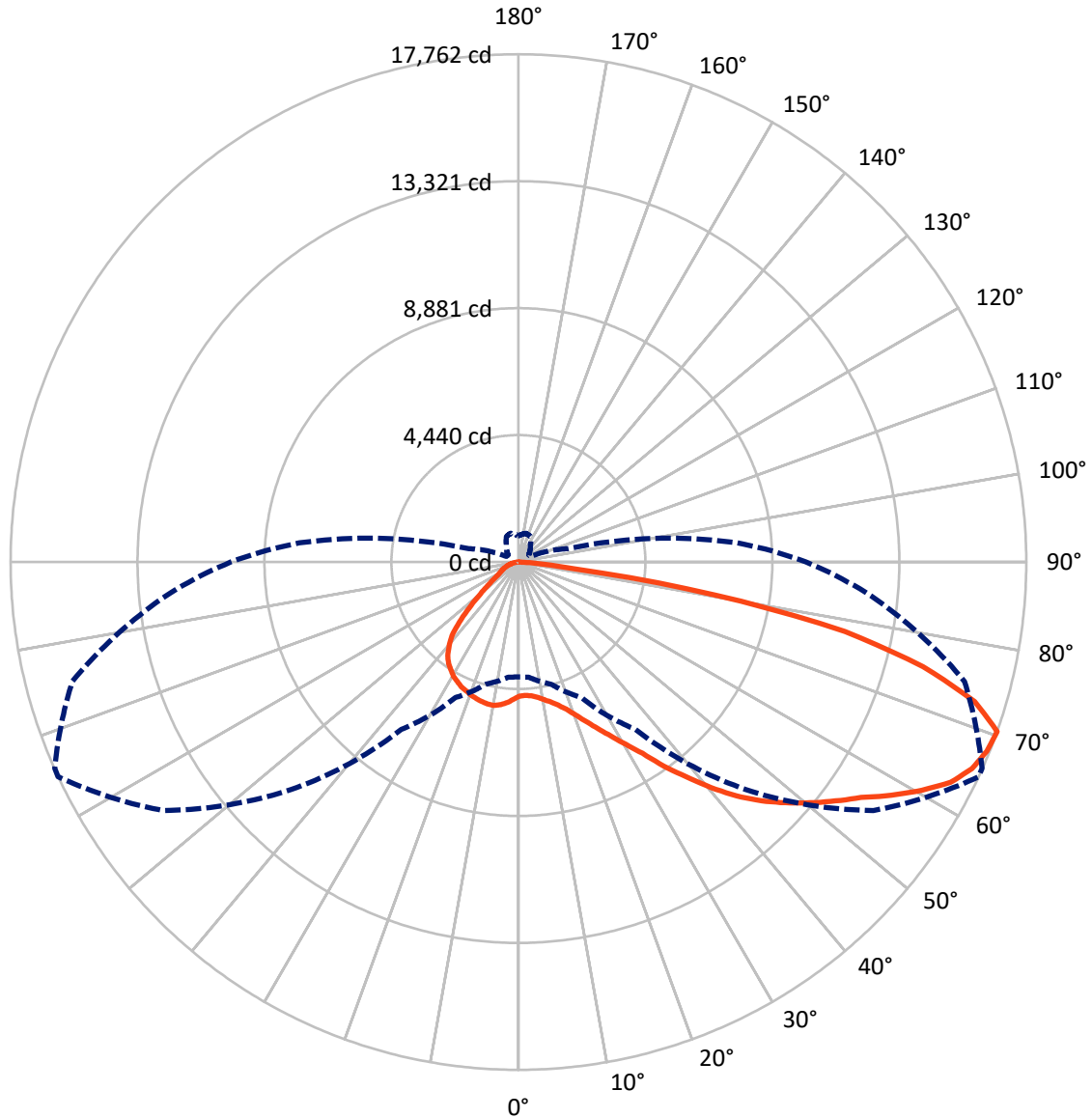
✕ Max cd
 - - - 1/2 Max cd



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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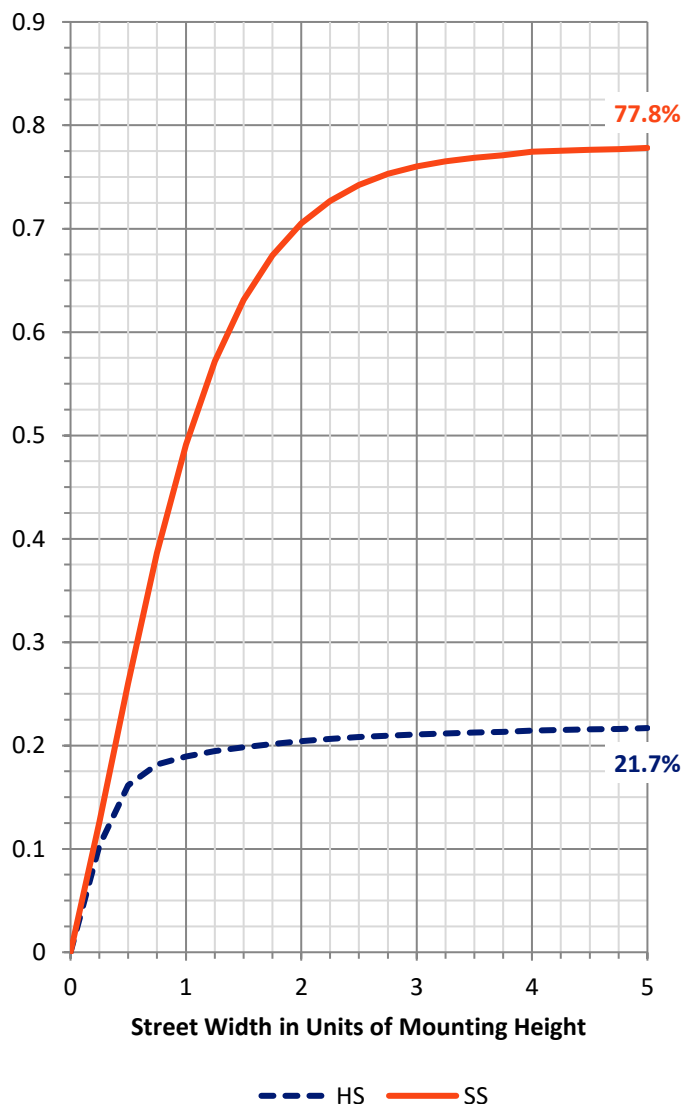
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6778.7	0.0	6778.7
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	23951.3	0.0	23951.3
	% Fixture	77.9	0.0	77.9
Total	Lumens	30730.0	0.0	30730.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	470.6	1.5
10°-20°	1487.5	4.8
20°-30°	2580.5	8.4
30°-40°	3752.0	12.2
40°-50°	5012.8	16.3
50°-60°	6106.0	19.9
60°-70°	6582.4	21.4
70°-80°	4267.6	13.9
80°-90°	470.7	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°	30730.0	100.0
0°-180°	30730.0	100.0

Coefficient of Utilization



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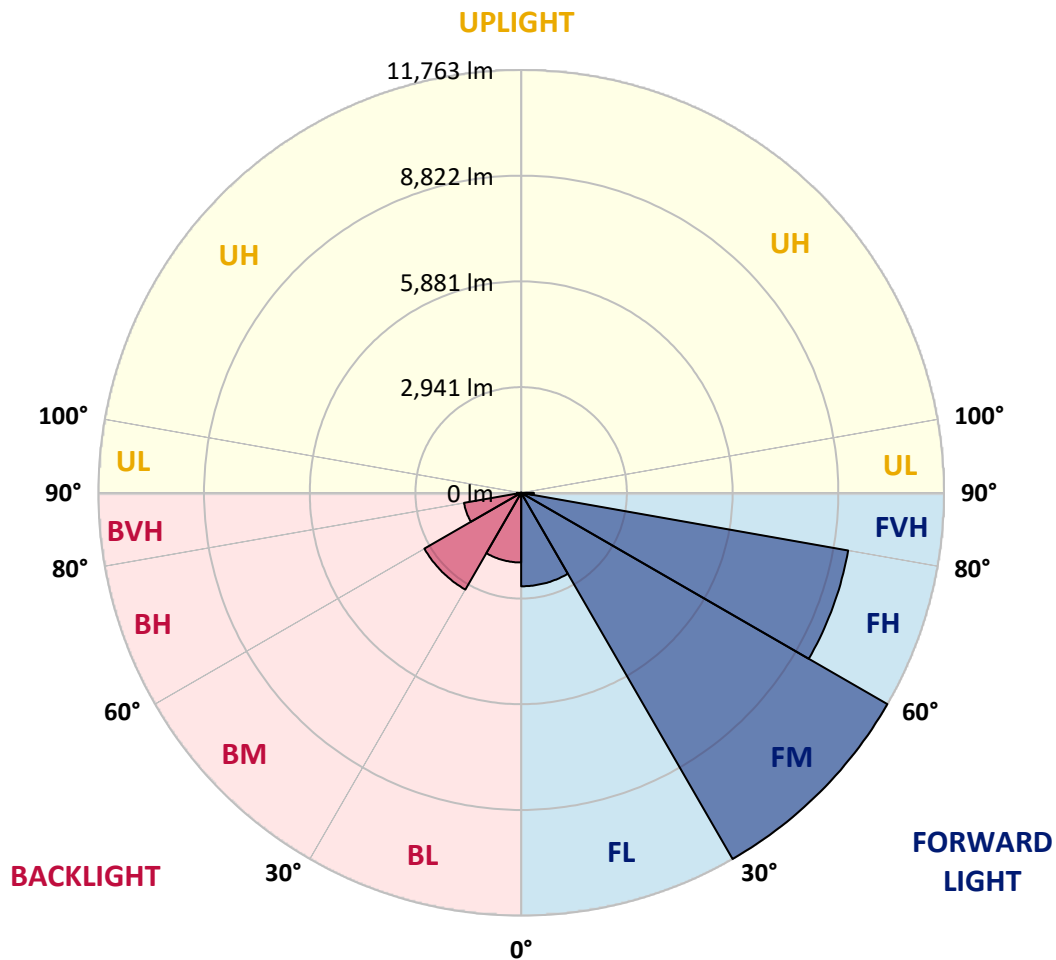
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2600.6	8.5			
FM (30°-60°)	11762.9	38.3			
FH (60°-80°)	9236.7	30.1			G4/12000
FVH (80°-90°)	351.0	1.1			G3/500
BL (0°-30°)	1938.0	6.3	B3/2500		
BM (30°-60°)	3107.8	10.1	B3/5000		
BH (60°-80°)	1613.3	5.2	B3/2500		G3/2500
BVH (80°-90°)	119.6	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°	4691.6	4691.6	4691.6	4691.6	4691.6	4691.6	4691.6	4691.6	4691.6	4691.6	4691.6
2.5°	4622.3	4663.9	4641.7	4643.1	4675.0	4648.6	4666.7	4666.7	4665.3	4675.0	4704.1
5°	4735.9	4780.3	4753.9	4737.3	4744.2	4711.0	4704.1	4698.5	4694.4	4705.4	4753.9
7.5°	4902.2	4953.5	4924.4	4909.1	4900.8	4824.6	4810.8	4773.3	4769.2	4778.9	4823.2
10°	5122.5	5191.8	5157.2	5114.2	5085.1	4996.4	4925.8	4892.5	4882.8	4877.3	4923.0
12.5°	5439.8	5500.8	5460.6	5380.2	5341.4	5198.7	5114.2	5020.0	5018.6	4999.2	5033.8
15°	5740.5	5804.2	5753.0	5674.0	5622.7	5430.1	5305.4	5189.0	5175.2	5153.0	5164.1
17.5°	6031.5	6109.0	6073.0	6001.0	5938.6	5723.9	5560.4	5410.7	5395.5	5360.8	5309.6
20°	6393.1	6463.8	6454.1	6388.9	6319.7	6075.8	5897.1	5704.5	5687.8	5625.5	5510.5
22.5°	6754.7	6842.0	6788.0	6776.9	6738.1	6495.6	6246.2	6050.9	6034.2	5952.5	5741.9
25°	7095.6	7173.2	7192.6	7174.6	7178.7	6939.0	6691.0	6445.7	6429.1	6318.3	6013.4
27.5°	7498.8	7572.2	7577.8	7581.9	7630.4	7430.9	7139.9	6887.7	6876.7	6752.0	6365.4
30°	7807.8	7929.7	7954.6	7978.2	8003.1	7896.5	7631.8	7396.3	7374.1	7238.3	6761.7
32.5°	8090.4	8181.9	8270.6	8319.1	8431.3	8335.7	8118.1	7972.7	7974.0	7910.3	7393.5
35°	8309.4	8410.5	8522.7	8700.1	8863.6	8823.4	8755.5	8763.8	8765.2	8792.9	8245.6
37.5°	8518.6	8610.0	8751.4	8963.4	9251.6	9304.2	9349.9	9523.1	9584.1	9714.3	9032.6
40°	8644.7	8741.7	8924.6	9218.3	9592.4	9782.2	9920.8	10365.6	10470.9	10472.3	9640.9
42.5°	8460.4	8567.1	8894.1	9416.4	9900.0	10254.7	10619.1	11180.3	11256.5	11086.1	10160.5
45°	8295.5	8393.9	8745.8	9446.9	10141.1	10759.1	11266.2	11916.0	11971.5	11627.8	10639.9
47.5°	8136.2	8213.8	8621.1	9383.2	10387.7	11264.8	11817.7	12581.1	12621.3	12220.9	11108.2
50°	7915.9	8008.7	8441.0	9308.4	10536.0	11698.5	12358.0	13237.9	13232.3	12754.3	11532.2
52.5°	7674.8	7766.2	8230.4	9171.2	10633.0	12035.2	12973.2	13880.8	13885.0	13366.7	11952.1
55°	7371.3	7483.5	7972.7	8985.5	10656.5	12299.8	13506.7	14540.3	14608.2	13991.6	12356.7
57.5°	7008.3	7120.5	7655.4	8713.9	10516.6	12521.5	14076.2	15382.8	15418.8	14630.4	12658.7
60°	6585.7	6721.5	7232.8	8350.9	10249.2	12779.3	14766.2	16208.6	16221.1	15201.3	12910.9
62.5°	6096.6	6193.6	6731.2	7824.4	9822.4	12881.8	15337.0	16966.5	16969.3	15632.2	13024.5
65°	5567.3	5604.7	6055.0	7108.1	9200.3	12714.1	15556.0	17427.9	17415.4	16010.4	12967.7
67.5°	4936.8	4918.8	5399.6	6222.7	8413.3	12155.7	15449.3	17664.8	17702.2	16301.4	12784.8
70°	4014.0	4040.4	4422.8	5232.0	7142.7	11259.3	15155.5	17761.8	17752.1	16155.9	12195.9
72.5°	3046.9	3094.0	3371.1	3978.0	5543.7	9469.1	13897.4	16689.4	16708.8	15130.6	11136.0
75°	1884.4	2020.2	2254.3	2624.3	3473.7	6783.8	11828.7	14619.3	14717.7	13350.1	9169.8
77.5°	825.8	857.7	975.5	1265.0	1816.5	3405.8	8744.4	11674.9	11965.9	10796.5	6614.8
80°	511.3	511.3	544.5	634.6	810.6	1266.4	3504.1	6970.9	6675.8	6175.6	2918.0
82.5°	425.4	425.4	442.0	457.2	415.7	536.2	1172.2	1953.7	2093.6	1694.6	896.5
85°	231.4	236.9	238.3	242.5	238.3	289.6	461.4	577.8	584.7	529.3	318.7
87.5°	84.5	90.1	87.3	81.7	73.4	69.3	88.7	90.1	92.8	85.9	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°	4691.6	4691.6	4691.6	4691.6	4691.6	4691.6	4691.6	4691.6	4691.6	4691.6	4691.6
2.5°	4723.5	4742.9	4794.1	4798.3	4817.7	4824.6	4841.2	4864.8	4906.4	4885.6	4862.0
5°	4777.5	4802.4	4884.2	4925.8	4979.8	5011.7	5064.3	5090.6	5154.4	5133.6	5130.8
7.5°	4859.2	4911.9	4985.3	5025.5	5096.2	5117.0	5155.8	5155.8	5208.4	5182.1	5175.2
10°	4970.1	5004.7	5082.3	5085.1	5125.3	5125.3	5171.0	5141.9	5193.2	5162.7	5161.3
12.5°	5058.8	5078.2	5107.3	5083.7	5104.5	5080.9	5104.5	5069.9	5101.7	5062.9	5054.6
15°	5158.5	5132.2	5103.1	5047.7	5029.7	4992.3	4972.9	4936.8	4939.6	4895.3	4888.3
17.5°	5270.8	5202.9	5118.4	4997.8	4931.3	4835.7	4795.5	4744.2	4715.1	4675.0	4693.0
20°	5406.6	5305.4	5129.4	4942.4	4801.1	4655.6	4561.3	4478.2	4471.3	4435.3	4415.9
22.5°	5582.5	5420.4	5177.9	4863.4	4636.2	4428.3	4288.4	4149.8	4136.0	4062.5	4034.8
25°	5800.1	5572.8	5202.9	4802.4	4443.6	4158.1	3937.8	3745.2	3652.4	3574.8	3556.8
27.5°	6092.4	5797.3	5252.8	4693.0	4216.3	3822.8	3506.9	3252.0	3141.1	3102.3	3062.1
30°	6434.7	6071.6	5345.6	4601.5	3947.5	3394.7	3009.5	2706.0	2585.5	2524.5	2505.1
32.5°	6939.0	6418.0	5431.5	4450.5	3621.9	2923.6	2422.0	2086.7	2013.3	2002.2	2028.5
35°	7673.4	7069.3	5556.2	4310.6	3239.5	2399.8	1845.6	1626.7	1611.4	1614.2	1614.2
37.5°	8438.2	7690.0	5926.2	4104.1	2771.2	1806.8	1405.0	1285.8	1291.4	1291.4	1290.0
40°	8937.0	8188.8	6195.0	3811.7	2189.2	1295.5	1042.0	951.9	990.7	1043.3	1071.1
42.5°	9487.1	8641.9	6380.6	3475.0	1522.8	915.9	757.9	789.8	903.4	983.8	994.9
45°	9955.4	9027.1	6401.4	2951.3	981.0	695.6	691.4	782.9	914.5	1001.8	1008.7
47.5°	10357.3	9377.6	6271.2	2352.7	715.0	649.8	691.4	806.4	925.6	979.6	985.2
50°	10746.6	9656.1	5964.9	1808.2	651.2	633.2	699.7	810.6	885.4	922.8	917.3
52.5°	11093.0	9909.7	5521.6	1410.5	626.3	622.1	706.6	806.4	853.5	850.7	846.6
55°	11356.3	9984.5	5175.2	1100.2	605.5	615.2	710.8	810.6	845.2	820.3	814.7
57.5°	11492.0	9891.7	4884.2	874.3	583.3	608.3	721.9	809.2	870.1	917.3	914.5
60°	11489.3	9786.4	4525.3	753.8	561.2	602.7	739.9	878.5	1098.8	1143.1	1144.5
62.5°	11444.9	9606.3	4033.4	681.7	536.2	605.5	752.4	997.6	1251.2	1215.2	1186.1
65°	11298.1	9268.2	3373.9	604.1	504.4	608.3	746.8	1079.4	1147.3	1018.4	1000.4
67.5°	10889.3	8614.2	2649.2	540.4	475.3	593.0	756.5	1003.2	1054.4	972.7	946.4
70°	10059.4	7692.8	1795.7	465.6	442.0	570.9	734.4	986.5	1040.6	957.4	918.6
72.5°	8744.4	6174.2	1050.3	400.4	393.5	525.1	723.3	997.6	1057.2	964.4	914.5
75°	6806.0	4328.6	606.9	324.2	328.4	485.0	663.7	940.8	1047.5	975.5	910.3
77.5°	4393.7	2101.9	428.1	259.1	256.3	382.4	539.0	823.0	1008.7	985.2	931.1
80°	1572.6	767.6	300.7	192.6	187.1	259.1	414.3	662.3	853.5	884.0	884.0
82.5°	565.3	385.2	192.6	117.8	116.4	164.9	309.0	503.0	619.4	698.3	717.7
85°	236.9	167.7	94.2	59.6	48.5	63.7	159.3	311.8	419.8	451.7	491.9
87.5°	34.6	30.5	24.9	19.4	16.6	16.6	20.8	90.1	149.6	214.8	266.0
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)