

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: P510223

Luminaire Tested: **VERD-M-CA4-230-730-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510223
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-CA4-230-730-U-T3
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 3000K, 1050mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31890 lumens
Efficiency: N/A
Efficacy: 136.7 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

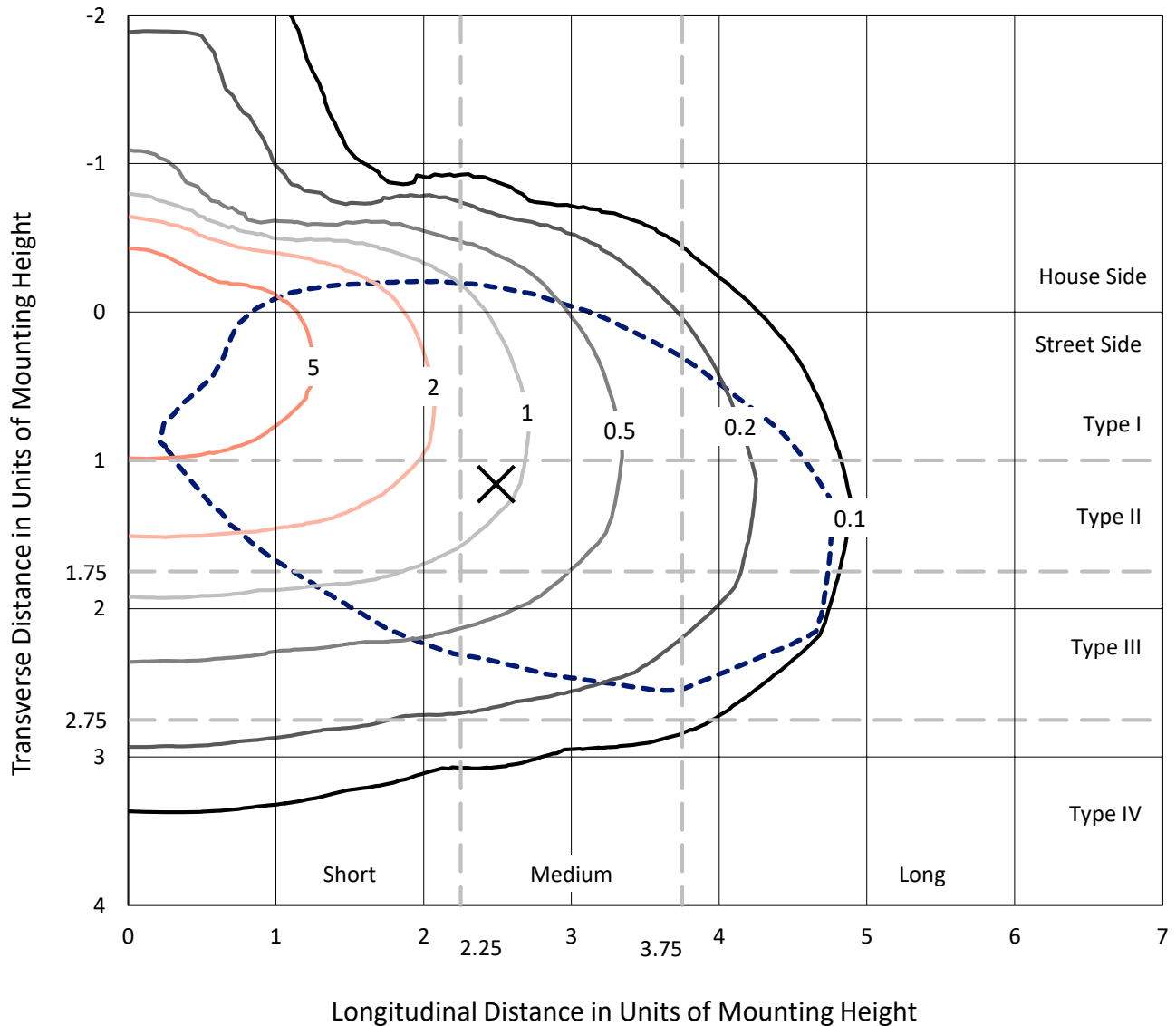
Input Watts (W): 233.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P510223
 CATALOG NUMBER: VERD-M-CA4-230-730-U-T3

Iso-Footcandle Lines of Horizontal Illumination

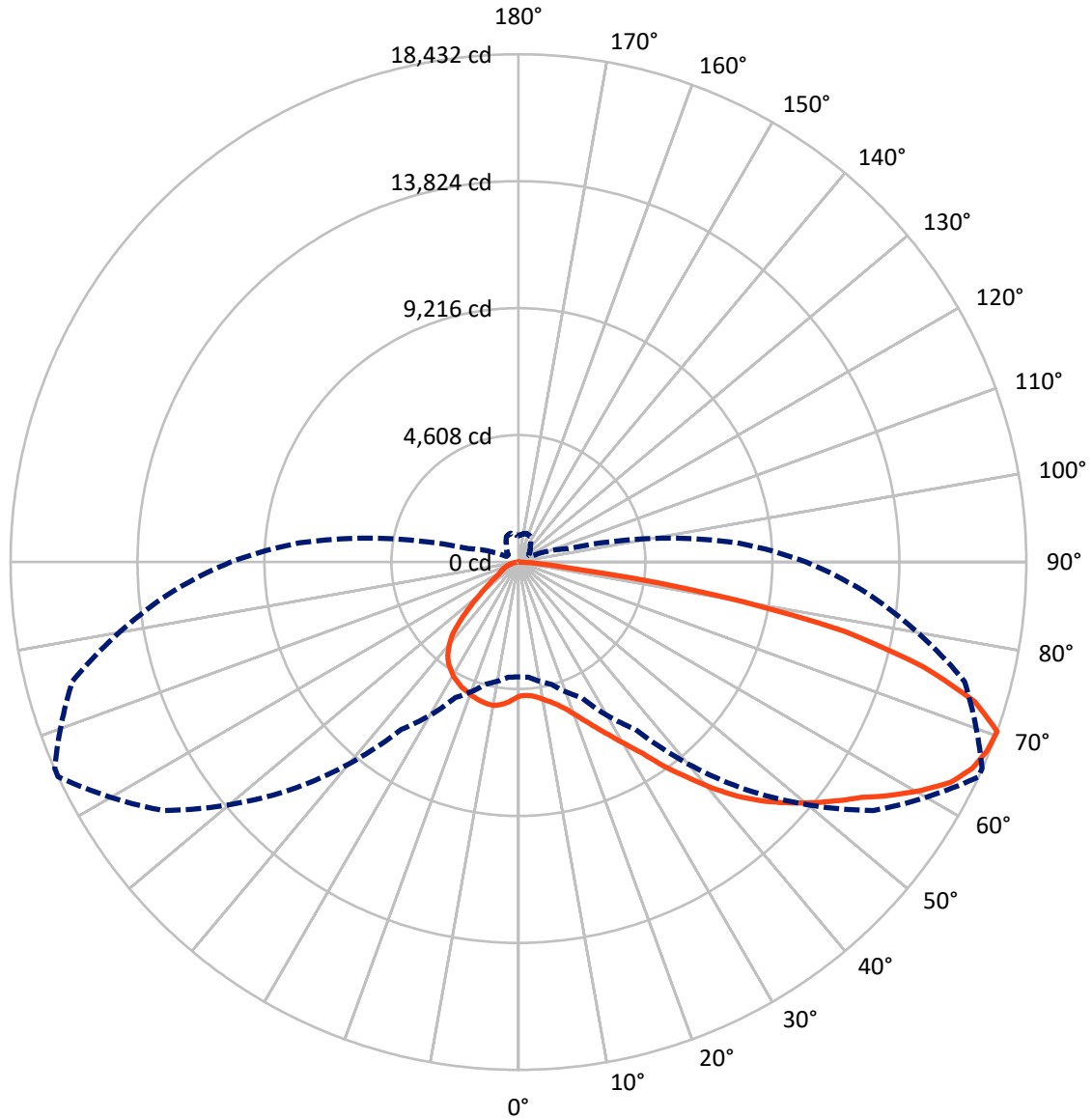
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type III - Medium - N/A

REPORT NUMBER: P510223
CATALOG NUMBER: VERD-M-CA4-230-730-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P510223

CATALOG NUMBER: VERD-M-CA4-230-730-U-T3

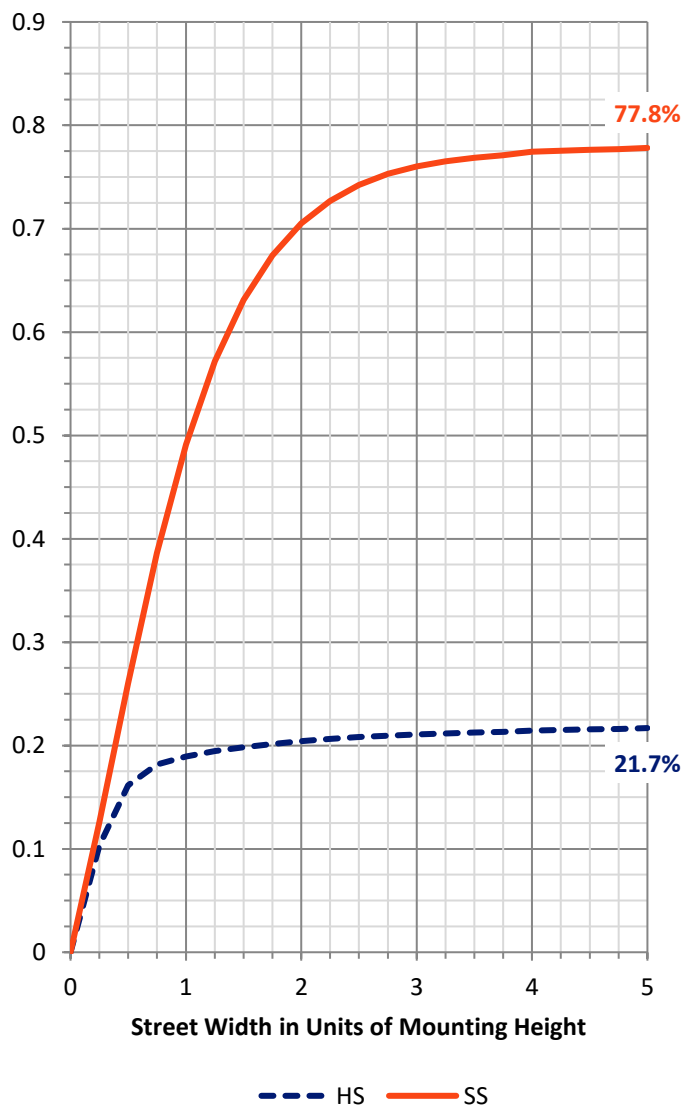
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7034.6	0.0	7034.6
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	24855.4	0.0	24855.4
	% Fixture	77.9	0.0	77.9
Total	Lumens	31890.0	0.0	31890.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	488.4	1.5
10°-20°	1543.6	4.8
20°-30°	2677.9	8.4
30°-40°	3893.6	12.2
40°-50°	5202.0	16.3
50°-60°	6336.5	19.9
60°-70°	6830.8	21.4
70°-80°	4428.7	13.9
80°-90°	488.4	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°	31890.0	100.0
0°-180°	31890.0	100.0

Coefficient of Utilization



REPORT NUMBER: P510223

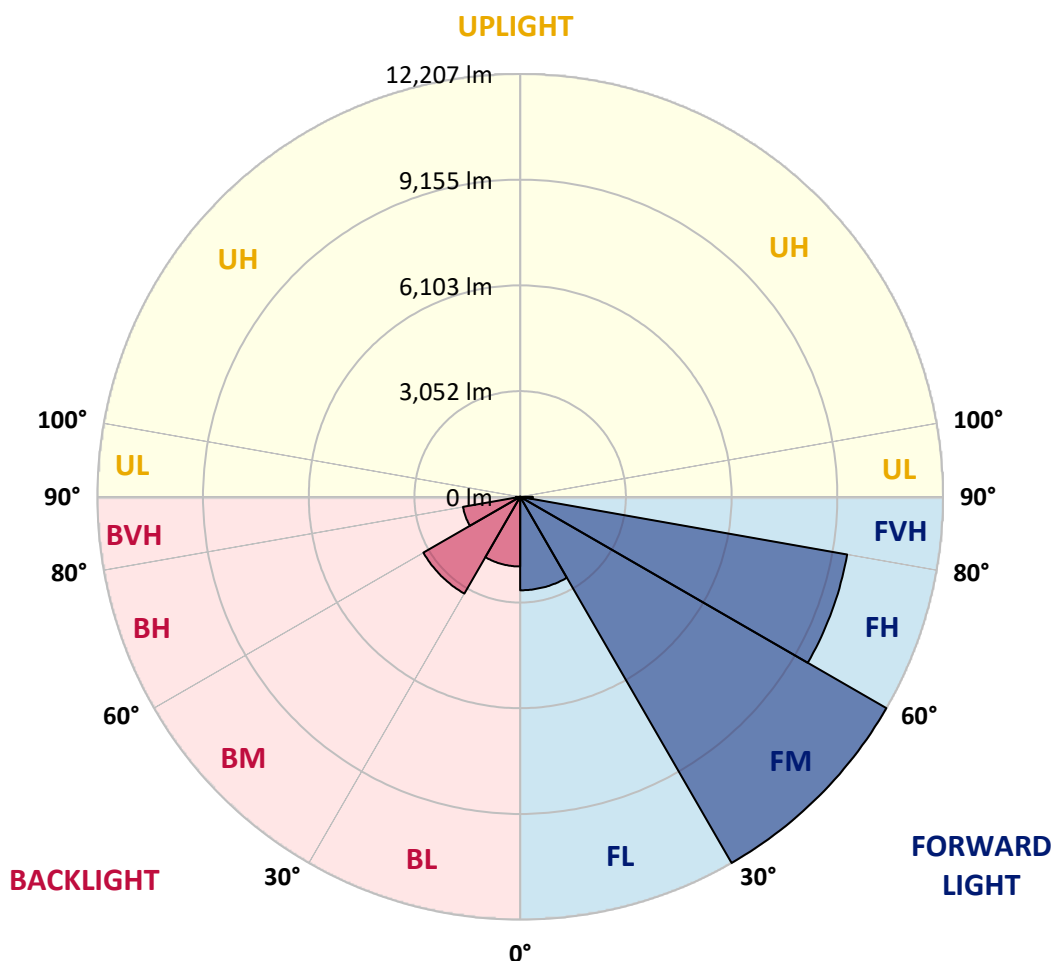
CATALOG NUMBER: VERD-M-CA4-230-730-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2698.8	8.5			
FM	(30°-60°)	12206.9	38.3			
FH	(60°-80°)	9585.4	30.1			G4/12000
FVH	(80°-90°)	364.3	1.1			G3/500
BL	(0°-30°)	2011.2	6.3	B3/2500		
BM	(30°-60°)	3225.1	10.1	B3/5000		
BH	(60°-80°)	1674.1	5.2	B3/2500		G3/2500
BVH	(80°-90°)	124.2	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





REPORT NUMBER: P510223

CATALOG NUMBER: VERD-M-CA4-230-730-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4868.7	4868.7	4868.7	4868.7	4868.7	4868.7	4868.7	4868.7	4868.7	4868.7	4868.7
2.5°	4796.8	4839.9	4816.9	4818.4	4851.4	4824.1	4842.8	4842.8	4841.4	4851.4	4881.6
5°	4914.7	4960.7	4933.4	4916.1	4923.3	4888.8	4881.6	4875.9	4871.6	4883.1	4933.4
7.5°	5087.3	5140.5	5110.3	5094.4	5085.8	5006.7	4992.4	4953.5	4949.2	4959.3	5005.3
10°	5315.9	5387.8	5351.8	5307.2	5277.1	5185.0	5111.7	5077.2	5067.1	5061.4	5108.8
12.5°	5645.2	5708.4	5666.7	5583.3	5543.1	5395.0	5307.2	5209.5	5208.0	5187.9	5223.9
15°	5957.2	6023.3	5970.1	5888.2	5835.0	5635.1	5505.7	5384.9	5370.5	5347.5	5359.0
17.5°	6259.1	6339.7	6302.3	6227.5	6162.8	5939.9	5770.2	5615.0	5599.1	5563.2	5510.0
20°	6634.4	6707.8	6697.7	6630.1	6558.2	6305.1	6119.7	5919.8	5902.5	5837.8	5718.5
22.5°	7009.7	7100.3	7044.2	7032.7	6992.5	6740.8	6482.0	6279.3	6262.0	6177.2	5958.6
25°	7363.4	7444.0	7464.1	7445.4	7449.7	7200.9	6943.6	6689.1	6671.8	6556.8	6240.4
27.5°	7781.9	7858.1	7863.8	7868.1	7918.5	7711.4	7409.4	7147.7	7136.2	7006.8	6605.7
30°	8102.5	8229.0	8254.9	8279.4	8305.2	8194.5	7919.9	7675.5	7652.4	7511.5	7016.9
32.5°	8395.8	8490.7	8582.8	8633.1	8749.6	8650.3	8424.6	8273.6	8275.1	8208.9	7672.6
35°	8623.0	8728.0	8844.5	9028.5	9198.2	9156.5	9086.0	9094.6	9096.1	9124.8	8556.9
37.5°	8840.1	8935.0	9081.7	9301.7	9600.8	9655.4	9702.9	9882.6	9945.9	10081.0	9373.6
40°	8971.0	9071.6	9261.4	9566.3	9954.5	10151.5	10295.3	10756.8	10866.1	10867.6	10004.8
42.5°	8779.8	8890.5	9229.8	9771.9	10273.7	10641.8	11020.0	11602.3	11681.4	11504.6	10544.0
45°	8608.6	8710.7	9076.0	9803.5	10523.9	11165.2	11691.5	12365.8	12423.4	12066.8	11041.6
47.5°	8443.3	8523.8	8946.5	9737.4	10779.9	11690.0	12263.8	13056.0	13097.7	12682.2	11527.6
50°	8214.7	8311.0	8759.6	9659.7	10933.7	12140.1	12824.5	13737.6	13731.8	13235.8	11967.6
52.5°	7964.5	8059.4	8541.1	9517.4	11034.4	12489.5	13463.0	14404.8	14409.1	13871.3	12403.2
55°	7649.6	7766.0	8273.6	9324.7	11058.8	12764.1	14016.5	15089.2	15159.7	14519.8	12823.1
57.5°	7272.8	7389.3	7944.3	9042.9	10913.6	12994.2	14607.5	15963.4	16000.8	15182.7	13136.6
60°	6834.3	6975.2	7505.8	8666.2	10636.1	13261.7	15323.6	16820.4	16833.4	15775.1	13398.3
62.5°	6326.7	6427.4	6985.3	8119.8	10193.2	13368.1	15916.0	17607.0	17609.8	16222.3	13516.2
65°	5777.4	5816.3	6283.6	7376.4	9547.6	13194.1	16143.2	18085.8	18072.8	16614.8	13457.2
67.5°	5123.2	5104.5	5603.5	6457.6	8730.9	12614.6	16032.5	18331.6	18370.5	16916.8	13267.4
70°	4165.6	4192.9	4589.7	5429.5	7412.3	11684.3	15727.6	18432.3	18422.2	16765.8	12656.3
72.5°	3161.9	3210.8	3498.4	4128.2	5753.0	9826.5	14422.0	17319.4	17339.5	15701.7	11556.3
75°	1955.5	2096.4	2339.4	2723.4	3604.8	7039.9	12275.3	15171.2	15273.3	13854.1	9515.9
77.5°	857.0	890.1	1012.3	1312.8	1885.1	3534.3	9074.5	12115.7	12417.6	11204.0	6864.5
80°	530.6	530.6	565.1	658.6	841.2	1314.2	3636.4	7234.0	6927.7	6408.7	3028.2
82.5°	441.4	441.4	458.7	474.5	431.4	556.5	1216.5	2027.4	2172.7	1758.5	930.3
85°	240.1	245.9	247.3	251.6	247.3	300.5	478.8	599.6	606.8	549.3	330.7
87.5°	87.7	93.5	90.6	84.8	76.2	71.9	92.0	93.5	96.3	89.1	48.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P510223

CATALOG NUMBER: VERD-M-CA4-230-730-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4868.7	4868.7	4868.7	4868.7	4868.7	4868.7	4868.7	4868.7	4868.7	4868.7	4868.7
2.5°	4901.8	4921.9	4975.1	4979.4	4999.5	5006.7	5024.0	5048.4	5091.6	5070.0	5045.6
5°	4957.8	4983.7	5068.6	5111.7	5167.8	5200.8	5255.5	5282.8	5348.9	5327.4	5324.5
7.5°	5042.7	5097.3	5173.5	5215.2	5288.6	5310.1	5350.4	5350.4	5405.0	5377.7	5370.5
10°	5157.7	5193.7	5274.2	5277.1	5318.8	5318.8	5366.2	5336.0	5389.2	5357.6	5356.1
12.5°	5249.7	5269.9	5300.1	5275.6	5297.2	5272.7	5297.2	5261.2	5294.3	5254.0	5245.4
15°	5353.3	5325.9	5295.7	5238.2	5219.5	5180.7	5160.6	5123.2	5126.1	5080.1	5072.9
17.5°	5469.7	5399.3	5311.6	5186.5	5117.4	5018.2	4976.5	4923.3	4893.1	4851.4	4870.1
20°	5610.6	5505.7	5323.1	5129.0	4982.3	4831.3	4733.5	4647.3	4640.1	4602.7	4582.6
22.5°	5793.3	5625.0	5373.4	5047.0	4811.2	4595.5	4450.3	4306.5	4292.1	4215.9	4187.1
25°	6019.0	5783.2	5399.3	4983.7	4611.3	4315.1	4086.5	3886.6	3790.3	3709.8	3691.1
27.5°	6322.4	6016.1	5451.0	4870.1	4375.5	3967.1	3639.3	3374.7	3259.7	3219.4	3177.7
30°	6677.6	6300.8	5547.4	4775.2	4096.5	3522.8	3123.1	2808.2	2683.1	2619.8	2599.7
32.5°	7200.9	6660.3	5636.5	4618.5	3758.6	3033.9	2513.4	2165.5	2089.3	2077.7	2105.1
35°	7963.0	7336.1	5765.9	4473.3	3361.8	2490.4	1915.3	1688.1	1672.3	1675.1	1675.1
37.5°	8756.7	7980.3	6149.9	4259.0	2875.8	1875.0	1458.0	1334.4	1340.1	1340.1	1338.7
40°	9274.4	8497.9	6428.8	3955.6	2271.9	1344.4	1081.3	987.8	1028.1	1082.7	1111.5
42.5°	9845.2	8968.1	6621.5	3606.2	1580.2	950.4	786.5	819.6	937.5	1020.9	1032.4
45°	10331.2	9367.8	6643.0	3062.7	1018.0	721.8	717.5	812.4	949.0	1039.6	1046.8
47.5°	10748.2	9731.6	6507.9	2441.5	742.0	674.4	717.5	836.9	960.5	1016.6	1022.3
50°	11152.3	10020.6	6190.1	1876.4	675.8	657.1	726.1	841.2	918.8	957.6	951.9
52.5°	11511.7	10283.8	5730.0	1463.8	649.9	645.6	733.3	836.9	885.7	882.9	878.6
55°	11784.9	10361.4	5370.5	1141.7	628.4	638.4	737.6	841.2	877.1	851.2	845.5
57.5°	11925.9	10265.1	5068.6	907.3	605.4	631.2	749.1	839.7	903.0	951.9	949.0
60°	11923.0	10155.8	4696.1	782.2	582.3	625.5	767.8	911.6	1140.2	1186.3	1187.7
62.5°	11877.0	9968.9	4185.7	707.4	556.5	628.4	780.8	1035.3	1298.4	1261.0	1230.8
65°	11724.5	9618.0	3501.3	626.9	523.4	631.2	775.0	1120.1	1190.6	1056.8	1038.2
67.5°	11300.4	8939.4	2749.2	560.8	493.2	615.4	785.1	1041.0	1094.2	1009.4	982.1
70°	10439.1	7983.2	1863.5	483.1	458.7	592.4	762.1	1023.8	1079.9	993.6	953.3
72.5°	9074.5	6407.2	1089.9	415.5	408.4	545.0	750.6	1035.3	1097.1	1000.8	949.0
75°	7062.9	4492.0	629.8	336.5	340.8	503.3	688.7	976.3	1087.0	1012.3	944.7
77.5°	4559.5	2181.3	444.3	268.9	266.0	396.9	559.3	854.1	1046.8	1022.3	966.3
80°	1632.0	796.6	312.0	199.9	194.1	268.9	429.9	687.3	885.7	917.4	917.4
82.5°	586.7	399.7	199.9	122.2	120.8	171.1	320.6	522.0	642.7	724.7	744.8
85°	245.9	174.0	97.8	61.8	50.3	66.1	165.4	323.5	435.7	468.8	510.5
87.5°	35.9	31.6	25.9	20.1	17.3	17.3	21.6	93.5	155.3	222.9	276.1
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)