

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: P510127

Luminaire Tested: **VERD-M-CA4-210-730-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510127
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-CA4-210-730-U-T3
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 3000K, 960mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29630 lumens
Efficiency: N/A
Efficacy: 138.7 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

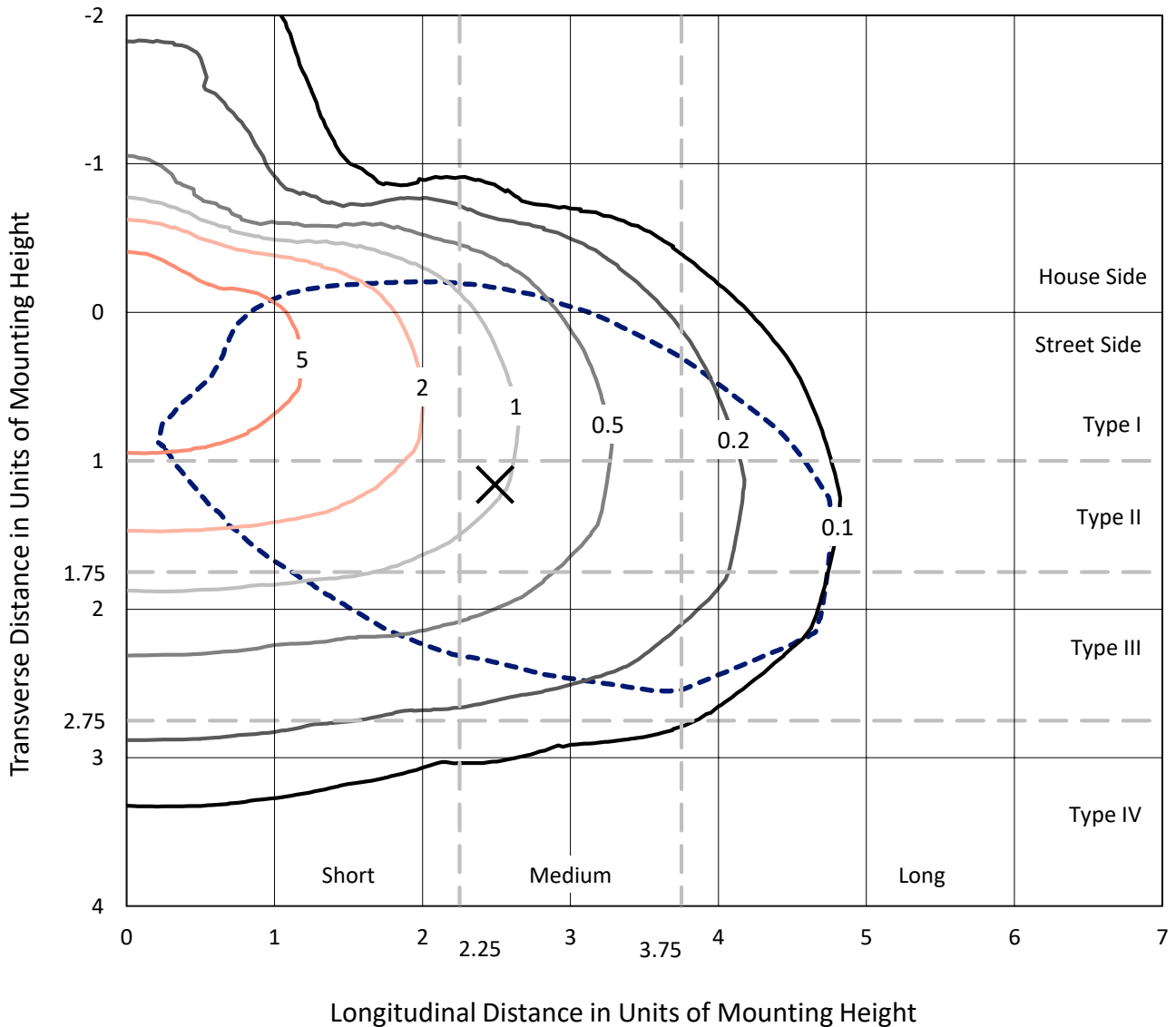
Input Watts (W): 213.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P510127
 CATALOG NUMBER: VERD-M-CA4-210-730-U-T3

Iso-Footcandle Lines of Horizontal Illumination

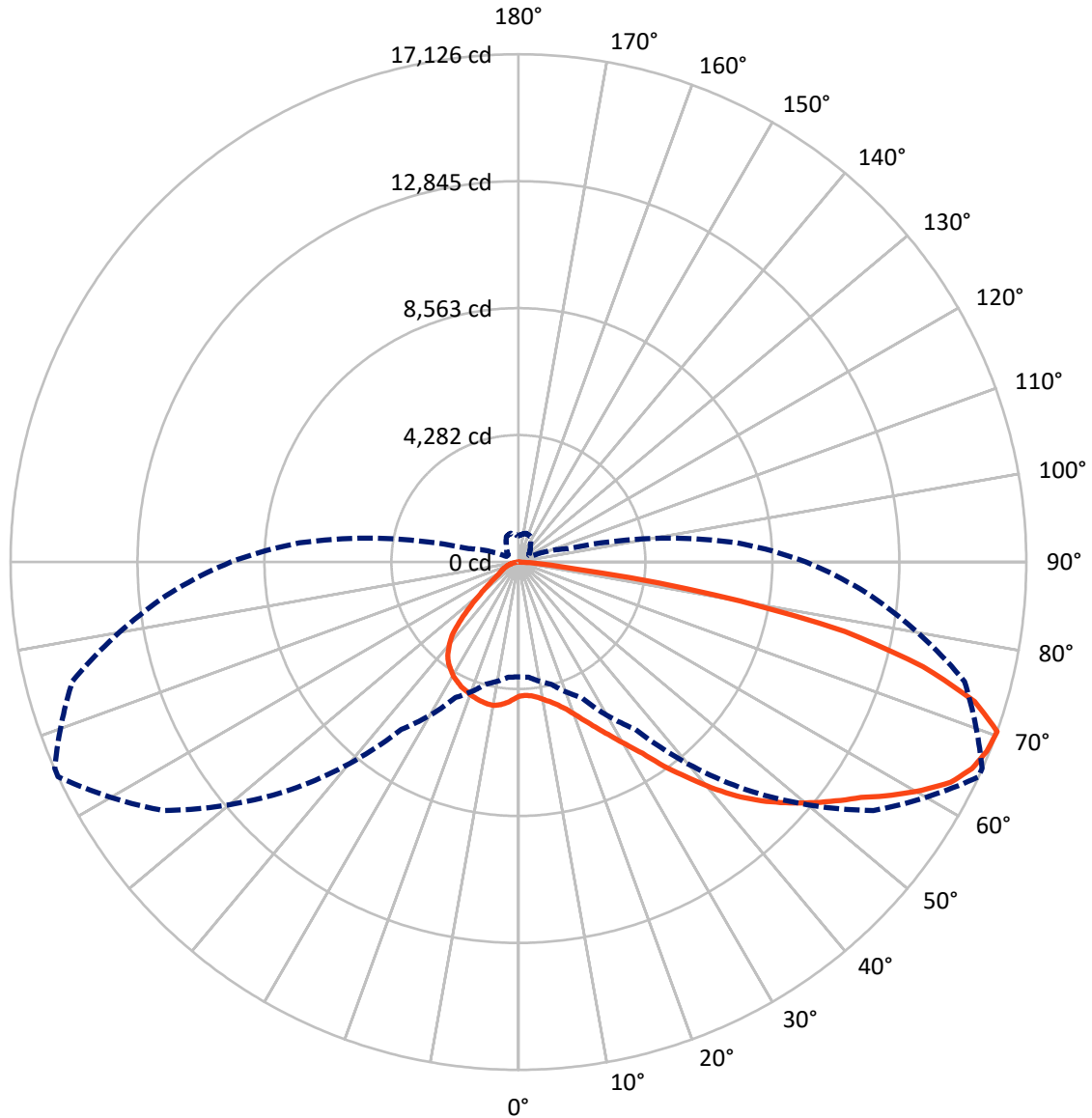
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type III - Medium - N/A

REPORT NUMBER: P510127
CATALOG NUMBER: VERD-M-CA4-210-730-U-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P510127

CATALOG NUMBER: VERD-M-CA4-210-730-U-T3

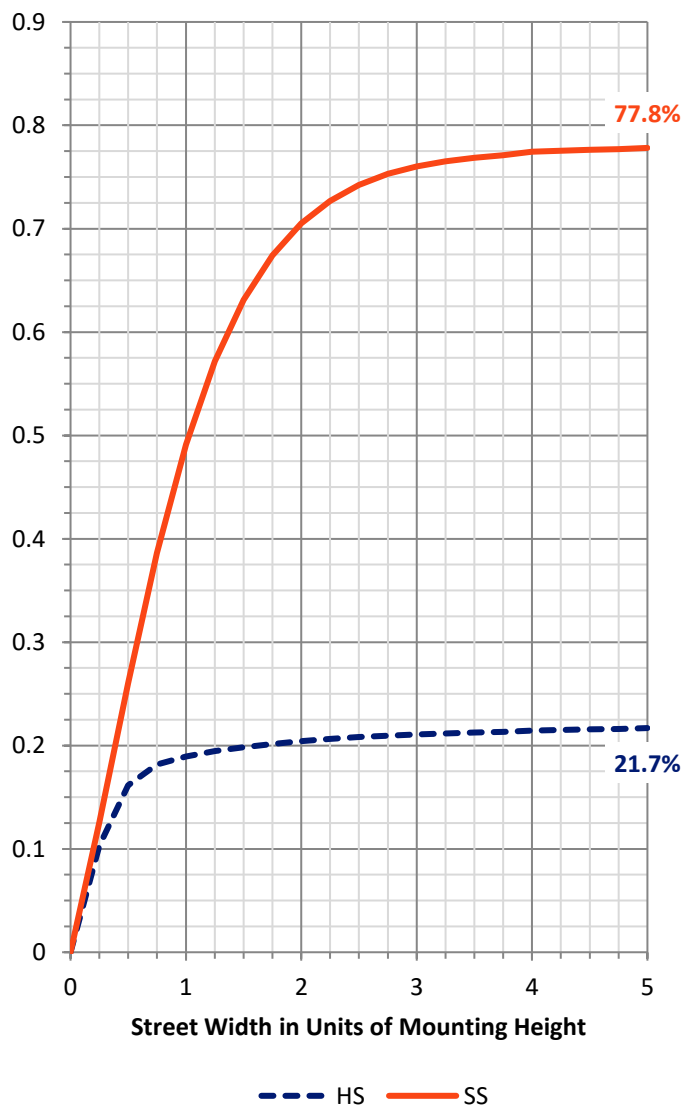
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6536.1	0.0	6536.1
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	23093.9	0.0	23093.9
	% Fixture	77.9	0.0	77.9
Total	Lumens	29630.0	0.0	29630.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	453.8	1.5
10°-20°	1434.2	4.8
20°-30°	2488.1	8.4
30°-40°	3617.7	12.2
40°-50°	4833.3	16.3
50°-60°	5887.4	19.9
60°-70°	6346.7	21.4
70°-80°	4114.8	13.9
80°-90°	453.8	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°	29630.0	100.0
0°-180°	29630.0	100.0

Coefficient of Utilization



REPORT NUMBER: P510127

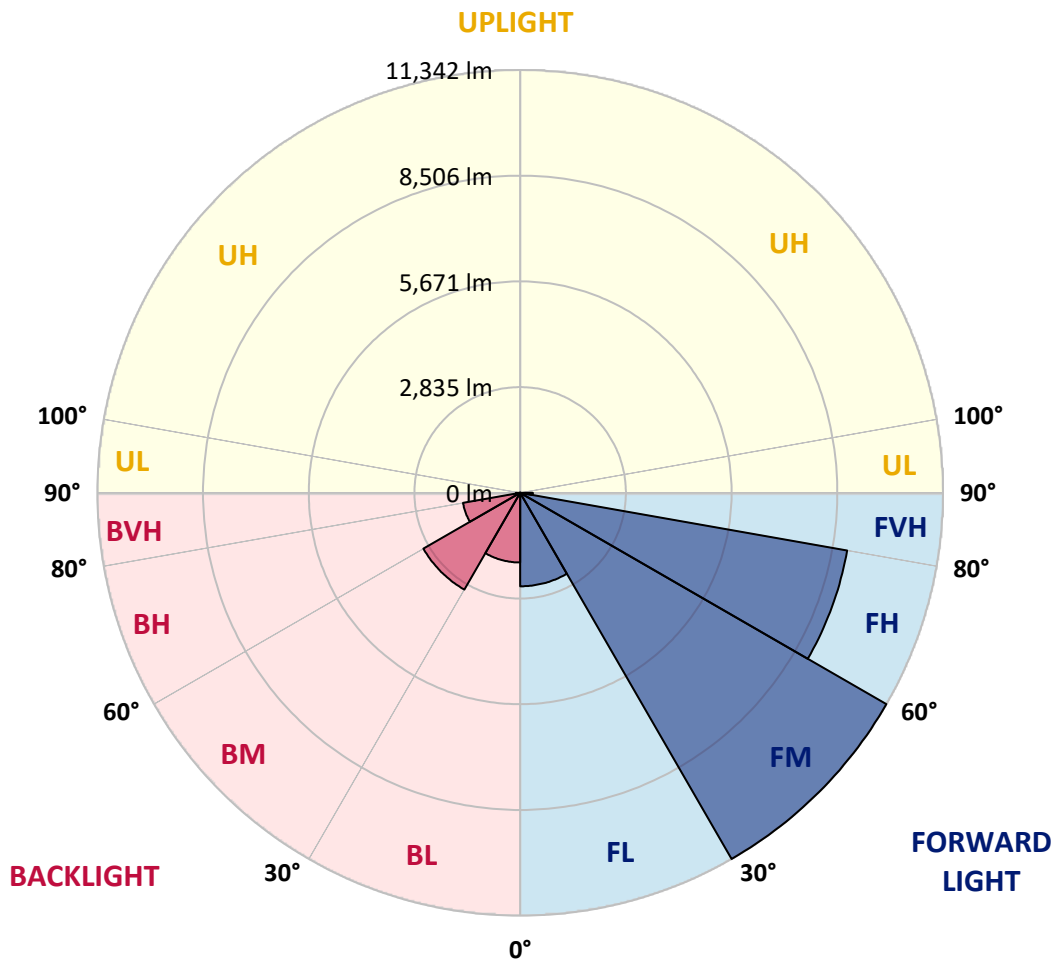
CATALOG NUMBER: VERD-M-CA4-210-730-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2507.5	8.5			
FM	(30°-60°)	11341.8	38.3			
FH	(60°-80°)	8906.1	30.1			G4/12000
FVH	(80°-90°)	338.5	1.1			G3/500
BL	(0°-30°)	1868.7	6.3	B3/2500		
BM	(30°-60°)	2996.6	10.1	B3/5000		
BH	(60°-80°)	1555.5	5.2	B3/2500		G3/2500
BVH	(80°-90°)	115.3	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





REPORT NUMBER: P510127

CATALOG NUMBER: VERD-M-CA4-210-730-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4523.7	4523.7	4523.7	4523.7	4523.7	4523.7	4523.7	4523.7	4523.7	4523.7	4523.7
2.5°	4456.9	4496.9	4475.6	4476.9	4507.6	4482.2	4499.6	4499.6	4498.3	4507.6	4535.7
5°	4566.4	4609.2	4583.8	4567.7	4574.4	4542.4	4535.7	4530.3	4526.3	4537.0	4583.8
7.5°	4726.7	4776.2	4748.1	4733.4	4725.4	4651.9	4638.5	4602.5	4598.5	4607.8	4650.6
10°	4939.1	5005.9	4972.5	4931.1	4903.1	4817.6	4749.4	4717.4	4708.0	4702.7	4746.8
12.5°	5245.1	5303.9	5265.1	5187.6	5150.2	5012.6	4931.1	4840.3	4838.9	4820.2	4853.6
15°	5535.0	5596.5	5547.0	5470.9	5421.4	5235.7	5115.5	5003.3	4989.9	4968.5	4979.2
17.5°	5815.6	5890.4	5855.6	5786.2	5726.0	5519.0	5361.3	5217.0	5202.3	5168.9	5119.5
20°	6164.2	6232.4	6223.0	6160.2	6093.4	5858.3	5686.0	5500.3	5484.2	5424.1	5313.2
22.5°	6512.9	6597.1	6545.0	6534.3	6496.9	6263.1	6022.6	5834.3	5818.2	5739.4	5536.3
25°	6841.6	6916.4	6935.1	6917.7	6921.8	6690.6	6451.5	6215.0	6199.0	6092.1	5798.2
27.5°	7230.4	7301.2	7306.5	7310.5	7357.3	7164.9	6884.3	6641.2	6630.5	6510.3	6137.5
30°	7528.3	7645.9	7669.9	7692.6	7716.7	7613.8	7358.6	7131.5	7110.1	6979.2	6519.6
32.5°	7800.8	7889.0	7974.5	8021.3	8129.5	8037.3	7827.6	7687.3	7688.6	7627.2	7128.8
35°	8011.9	8109.4	8217.7	8388.7	8546.3	8507.6	8442.1	8450.1	8451.5	8478.2	7950.5
37.5°	8213.7	8301.8	8438.1	8642.5	8920.4	8971.2	9015.2	9182.2	9241.0	9366.6	8709.3
40°	8335.2	8428.7	8605.1	8888.3	9249.0	9432.1	9565.7	9994.5	10096.1	10097.4	9295.8
42.5°	8157.5	8260.4	8575.7	9079.4	9545.6	9887.6	10239.0	10780.1	10853.6	10689.2	9796.8
45°	7998.6	8093.4	8432.8	9108.8	9778.1	10373.9	10862.9	11489.5	11542.9	11211.6	10259.1
47.5°	7844.9	7919.7	8312.5	9047.3	10015.9	10861.6	11394.6	12130.8	12169.5	11783.4	10710.6
50°	7632.5	7722.0	8138.8	8975.2	10158.9	11279.7	11915.7	12764.0	12758.7	12297.8	11119.4
52.5°	7400.0	7488.2	7935.8	8842.9	10252.4	11604.4	12508.9	13383.9	13387.9	12888.3	11524.2
55°	7107.5	7215.7	7687.3	8663.9	10275.1	11859.6	13023.2	14019.9	14085.3	13490.8	11914.3
57.5°	6757.4	6865.6	7381.3	8402.0	10140.1	12073.3	13572.3	14832.1	14866.9	14106.7	12205.6
60°	6350.0	6480.9	6973.9	8052.0	9882.3	12321.8	14237.6	15628.4	15640.4	14657.1	12448.7
62.5°	5878.3	5971.9	6490.2	7544.3	9470.8	12420.7	14788.0	16359.2	16361.8	15072.6	12558.3
65°	5368.0	5404.1	5838.3	6853.6	8871.0	12259.0	14999.1	16804.1	16792.0	15437.3	12503.5
67.5°	4760.1	4742.8	5206.3	5999.9	8112.1	11720.6	14896.3	17032.5	17068.6	15717.9	12327.2
70°	3870.4	3895.7	4264.5	5044.7	6887.0	10856.2	14613.0	17126.0	17116.7	15577.6	11759.4
72.5°	2937.8	2983.3	3250.5	3835.6	5345.3	9130.1	13400.0	16092.0	16110.7	14589.0	10737.3
75°	1816.9	1947.9	2173.7	2530.4	3349.3	6541.0	11405.3	14096.0	14190.9	12872.2	8841.6
77.5°	796.2	827.0	940.5	1219.8	1751.5	3283.9	8431.4	11257.0	11537.6	10410.0	6378.0
80°	493.0	493.0	525.0	611.9	781.6	1221.1	3378.7	6721.4	6436.8	5954.5	2813.6
82.5°	410.1	410.1	426.2	440.9	400.8	517.0	1130.2	1883.7	2018.7	1633.9	864.4
85°	223.1	228.5	229.8	233.8	229.8	279.2	444.9	557.1	563.8	510.3	307.3
87.5°	81.5	86.8	84.2	78.8	70.8	66.8	85.5	86.8	89.5	82.8	45.4
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: P510127

CATALOG NUMBER: VERD-M-CA4-210-730-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4523.7	4523.7	4523.7	4523.7	4523.7	4523.7	4523.7	4523.7	4523.7	4523.7	4523.7
2.5°	4554.4	4573.1	4622.5	4626.5	4645.2	4651.9	4667.9	4690.7	4730.7	4710.7	4688.0
5°	4606.5	4630.5	4709.4	4749.4	4801.5	4832.3	4883.0	4908.4	4969.9	4949.8	4947.2
7.5°	4685.3	4736.1	4806.9	4845.6	4913.8	4933.8	4971.2	4971.2	5022.0	4996.6	4989.9
10°	4792.2	4825.6	4900.4	4903.1	4941.8	4941.8	4985.9	4957.9	5007.3	4977.9	4976.6
12.5°	4877.7	4896.4	4924.5	4901.7	4921.8	4899.1	4921.8	4888.4	4919.1	4881.7	4873.7
15°	4973.9	4948.5	4920.4	4867.0	4849.6	4813.6	4794.9	4760.1	4762.8	4720.0	4713.4
17.5°	5082.1	5016.6	4935.1	4818.9	4754.8	4662.6	4623.9	4574.4	4546.4	4507.6	4525.0
20°	5213.0	5115.5	4945.8	4765.5	4629.2	4488.9	4398.1	4317.9	4311.2	4276.5	4257.8
22.5°	5382.7	5226.4	4992.6	4689.3	4470.2	4269.8	4134.9	4001.3	3987.9	3917.1	3890.4
25°	5592.4	5373.3	5016.6	4630.5	4284.5	4009.3	3796.9	3611.2	3521.7	3446.8	3429.5
27.5°	5874.3	5589.8	5064.7	4525.0	4065.4	3686.0	3381.4	3135.6	3028.7	2991.3	2952.5
30°	6204.3	5854.3	5154.2	4436.8	3806.2	3273.2	2901.8	2609.2	2493.0	2434.2	2415.5
32.5°	6690.6	6188.3	5237.1	4291.2	3492.3	2818.9	2335.3	2012.0	1941.2	1930.5	1955.9
35°	7398.7	6816.2	5357.3	4156.3	3123.5	2313.9	1779.5	1568.4	1553.8	1556.4	1556.4
37.5°	8136.2	7414.7	5714.0	3957.2	2672.0	1742.1	1354.7	1239.8	1245.1	1245.1	1243.8
40°	8617.1	7895.7	5973.2	3675.3	2110.9	1249.1	1004.7	917.8	955.2	1006.0	1032.7
42.5°	9147.5	8332.6	6152.2	3350.7	1468.3	883.1	730.8	761.5	871.1	948.6	959.2
45°	9599.1	8704.0	6172.3	2845.7	945.9	670.7	666.7	754.8	881.8	965.9	972.6
47.5°	9986.5	9042.0	6046.7	2268.5	689.4	626.6	666.7	777.5	892.4	944.5	949.9
50°	10361.9	9310.5	5751.4	1743.5	627.9	610.5	674.7	781.6	853.7	889.8	884.4
52.5°	10695.9	9555.0	5323.9	1360.0	603.9	599.9	681.4	777.5	823.0	820.3	816.3
55°	10949.8	9627.1	4989.9	1060.8	583.8	593.2	685.4	781.6	815.0	790.9	785.6
57.5°	11080.7	9537.6	4709.4	843.0	562.5	586.5	696.0	780.2	839.0	884.4	881.8
60°	11078.0	9436.1	4363.3	726.8	541.1	581.2	713.4	847.0	1059.4	1102.2	1103.5
62.5°	11035.3	9262.4	3889.1	657.3	517.0	583.8	725.4	961.9	1206.4	1171.7	1143.6
65°	10893.6	8936.4	3253.1	582.5	486.3	586.5	720.1	1040.7	1106.2	982.0	964.6
67.5°	10499.5	8305.8	2554.4	521.0	458.2	571.8	729.4	967.3	1016.7	937.9	912.5
70°	9699.3	7417.4	1731.4	448.9	426.2	550.4	708.1	951.2	1003.3	923.2	885.8
72.5°	8431.4	5953.2	1012.7	386.1	379.4	506.3	697.4	961.9	1019.4	929.8	881.8
75°	6562.4	4173.6	585.2	312.6	316.6	467.6	639.9	907.1	1010.0	940.5	877.7
77.5°	4236.4	2026.7	412.8	249.8	247.2	368.7	519.7	793.6	972.6	949.9	897.8
80°	1516.3	740.1	289.9	185.7	180.4	249.8	399.5	638.6	823.0	852.4	852.4
82.5°	545.1	371.4	185.7	113.6	112.2	159.0	297.9	485.0	597.2	673.3	692.0
85°	228.5	161.7	90.8	57.4	46.8	61.5	153.6	300.6	404.8	435.5	474.3
87.5°	33.4	29.4	24.0	18.7	16.0	16.0	20.0	86.8	144.3	207.1	256.5
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)