

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: P510095

Luminaire Tested: **VERD-M-CA4-200-750-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510095
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-CA4-200-750-U-T3
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 5000K, 910mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29358 lumens
Efficiency: N/A
Efficacy: 145.5 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

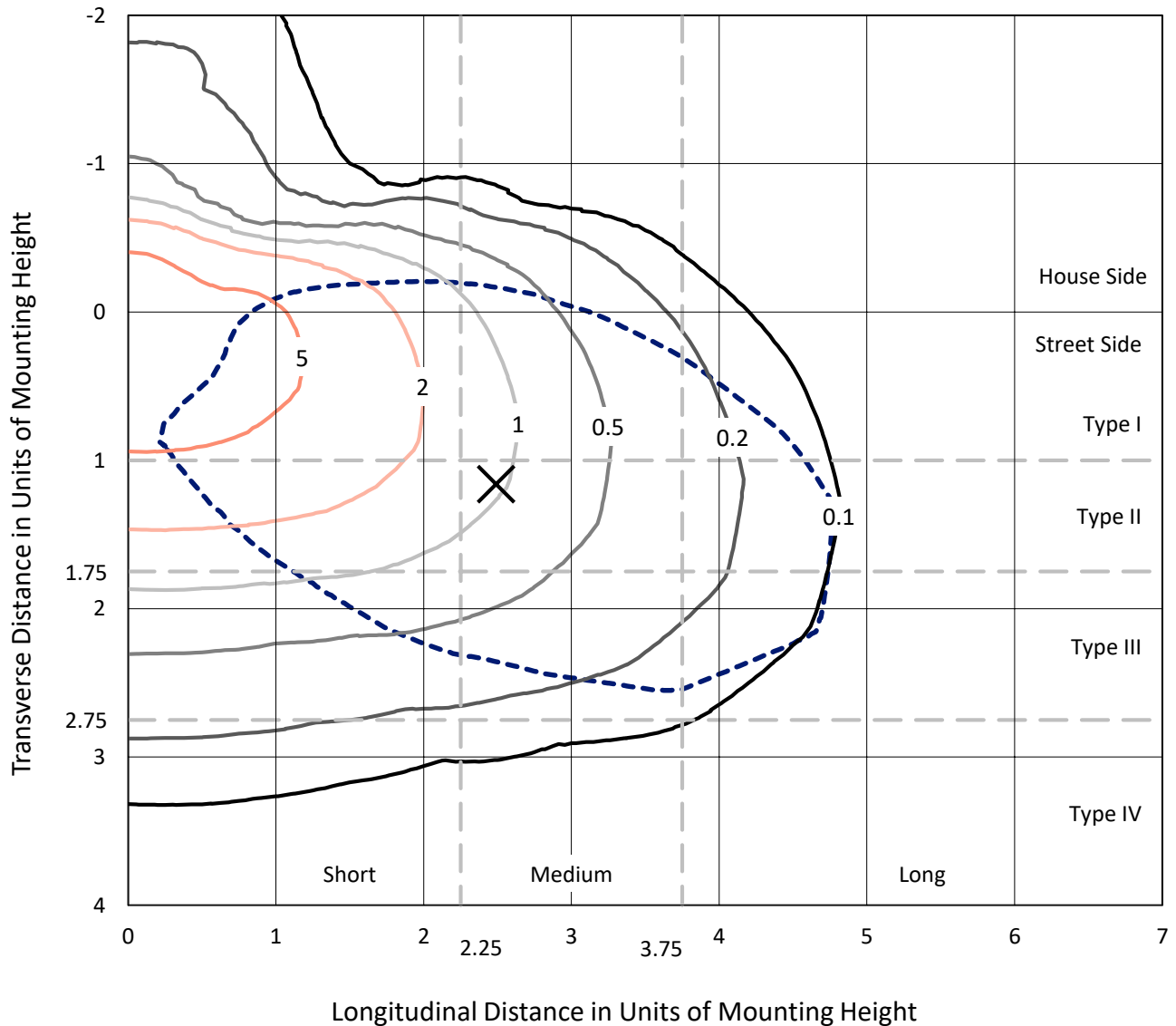
Input Watts (W): 201.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

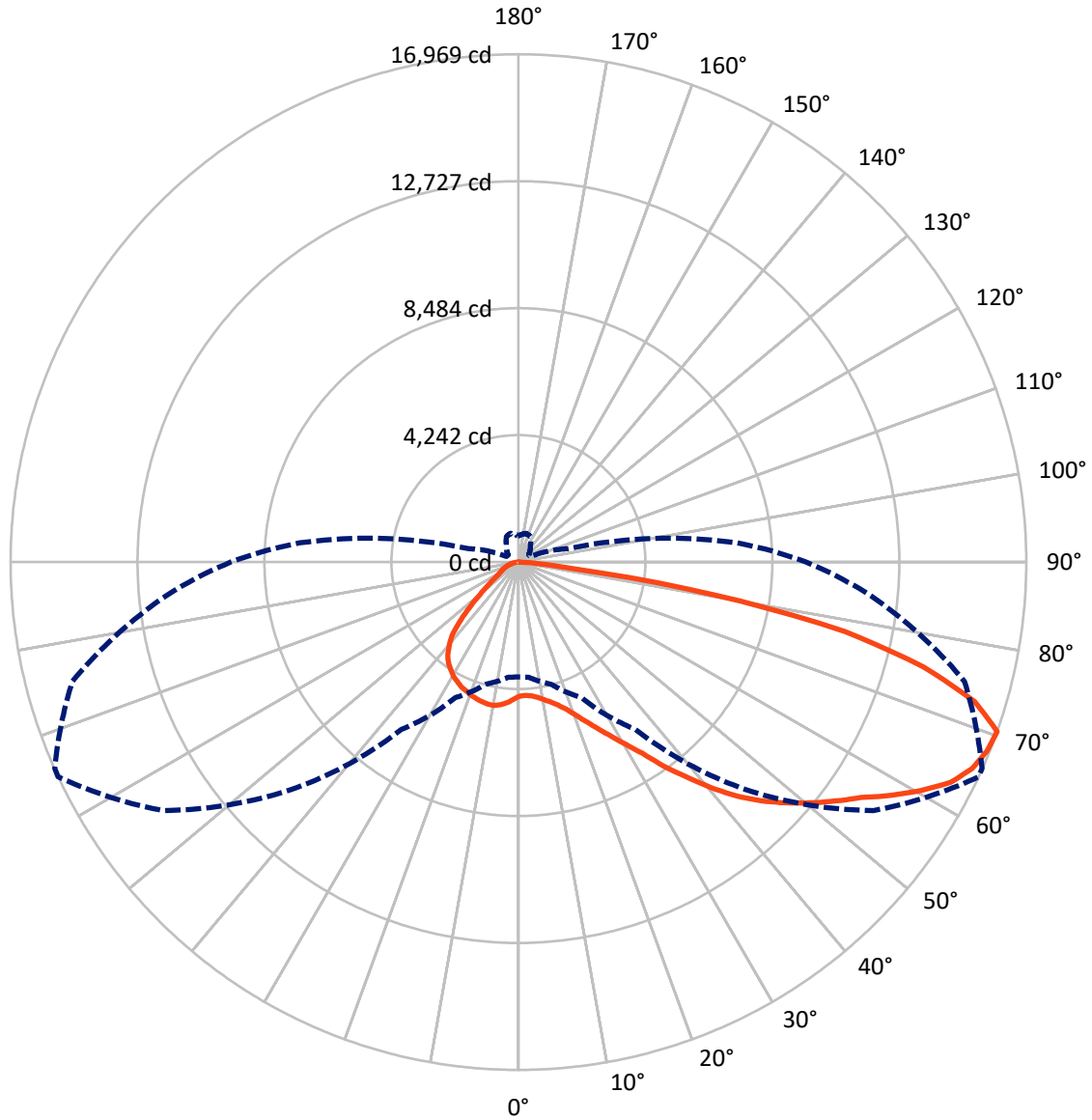
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Medium - N/A

REPORT NUMBER: P510095
CATALOG NUMBER: VERD-M-CA4-200-750-U-T3

Luminous Intensity Polar Plot



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

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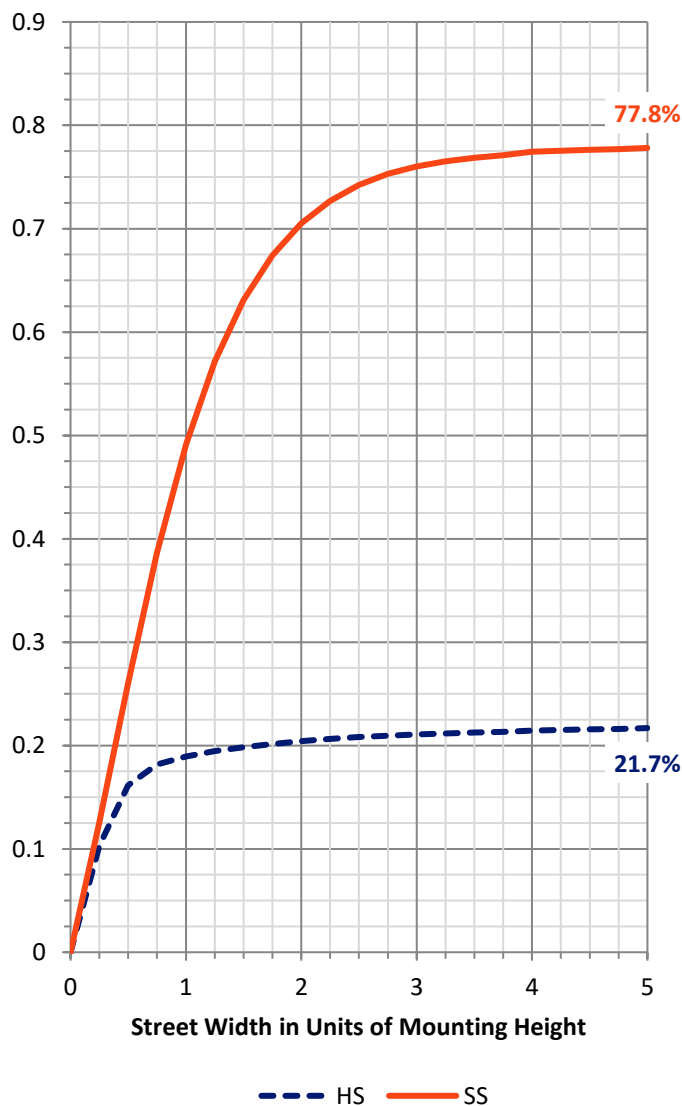
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6476.1	0.0	6476.1
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	22881.9	0.0	22881.9
	% Fixture	77.9	0.0	77.9
Total	Lumens	29358.0	0.0	29358.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.6	1.5
10°-20°	1421.1	4.8
20°-30°	2465.3	8.4
30°-40°	3584.5	12.2
40°-50°	4788.9	16.3
50°-60°	5833.4	19.9
60°-70°	6288.5	21.4
70°-80°	4077.0	13.9
80°-90°	449.7	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°	29358.0	100.0
0°-180°	29358.0	100.0

Coefficient of Utilization



REPORT NUMBER: P510095

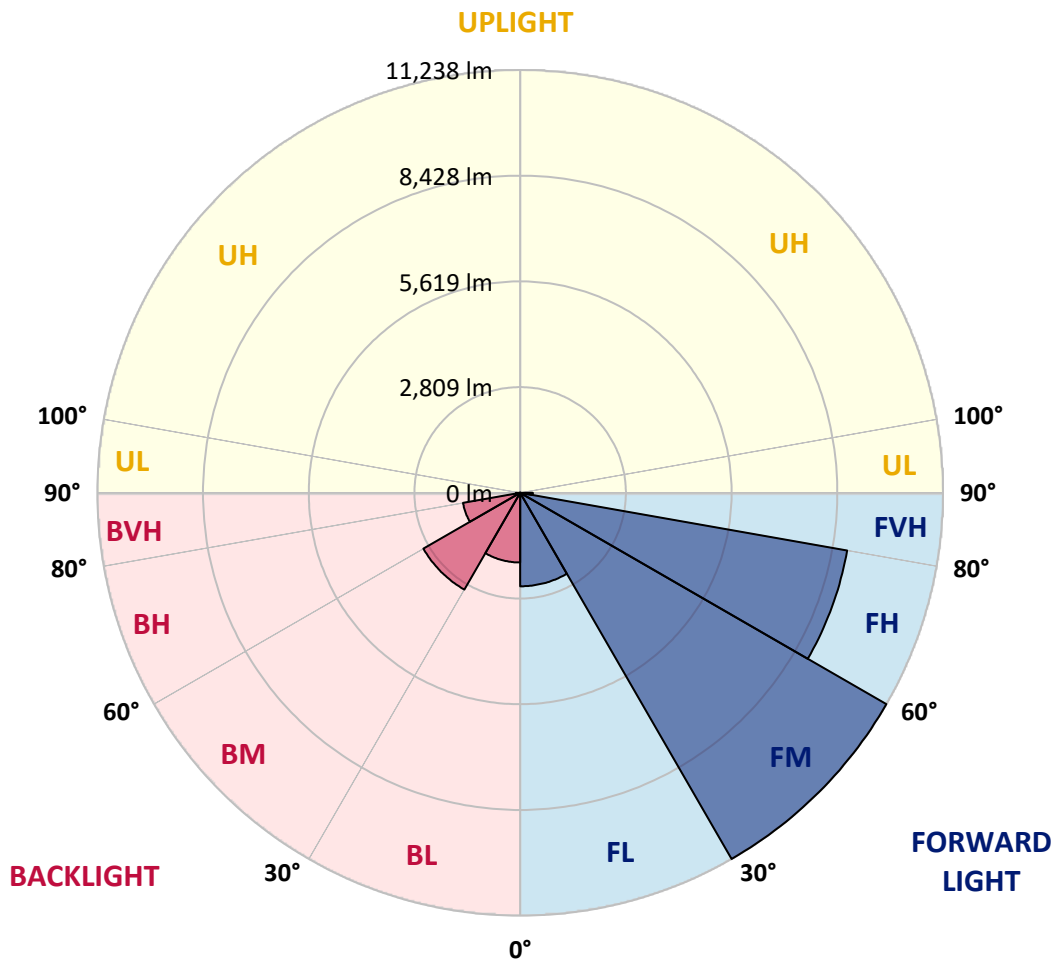
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2484.5	8.5			
FM	(30°-60°)	11237.7	38.3			
FH	(60°-80°)	8824.3	30.1			G4/12000
FVH	(80°-90°)	335.4	1.1			G3/500
BL	(0°-30°)	1851.5	6.3	B3/2500		
BM	(30°-60°)	2969.1	10.1	B3/5000		
BH	(60°-80°)	1541.2	5.2	B3/2500		G3/2500
BVH	(80°-90°)	114.3	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: P510095

CATALOG NUMBER: VERD-M-CA4-200-750-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4482.1	4482.1	4482.1	4482.1	4482.1	4482.1	4482.1	4482.1	4482.1	4482.1	4482.1
2.5°	4415.9	4455.7	4434.5	4435.8	4466.2	4441.1	4458.3	4458.3	4457.0	4466.2	4494.0
5°	4524.5	4566.8	4541.7	4525.8	4532.4	4500.7	4494.0	4488.7	4484.8	4495.4	4541.7
7.5°	4683.3	4732.3	4704.5	4690.0	4682.0	4609.2	4596.0	4560.2	4556.3	4565.5	4607.9
10°	4893.8	4960.0	4926.9	4885.9	4858.1	4773.3	4705.8	4674.1	4664.8	4659.5	4703.2
12.5°	5196.9	5255.2	5216.8	5140.0	5103.0	4966.6	4885.9	4795.9	4794.5	4776.0	4809.1
15°	5484.2	5545.1	5496.1	5420.6	5371.7	5187.7	5068.5	4957.3	4944.1	4922.9	4933.5
17.5°	5762.2	5836.3	5801.9	5733.0	5673.5	5468.3	5312.1	5169.1	5154.6	5121.5	5072.5
20°	6107.7	6175.2	6165.9	6103.7	6037.5	5804.5	5633.8	5449.8	5433.9	5374.3	5264.4
22.5°	6453.2	6536.5	6484.9	6474.3	6437.3	6205.6	5967.3	5780.7	5764.8	5686.7	5485.5
25°	6778.8	6852.9	6871.4	6854.2	6858.2	6629.2	6392.3	6158.0	6142.1	6036.2	5745.0
27.5°	7164.0	7234.1	7239.4	7243.4	7289.7	7099.1	6821.1	6580.2	6569.6	6450.5	6081.2
30°	7459.2	7575.7	7599.5	7622.0	7645.8	7543.9	7291.1	7066.0	7044.9	6915.1	6459.8
32.5°	7729.2	7816.6	7901.3	7947.6	8054.9	7963.5	7755.7	7616.7	7618.0	7557.1	7063.4
35°	7938.4	8035.0	8142.2	8311.7	8467.9	8429.5	8364.6	8372.6	8373.9	8400.4	7877.5
37.5°	8138.3	8225.6	8360.6	8563.2	8838.5	8888.8	8932.5	9098.0	9156.2	9280.6	8629.4
40°	8258.7	8351.4	8526.1	8806.7	9164.1	9345.5	9477.9	9902.8	10003.4	10004.7	9210.5
42.5°	8082.7	8184.6	8497.0	8996.0	9458.0	9796.9	10145.0	10681.1	10753.9	10591.1	9706.9
45°	7925.1	8019.1	8355.3	9025.1	9688.3	10278.7	10763.2	11384.0	11437.0	11108.7	10164.9
47.5°	7772.9	7847.0	8236.2	8964.3	9924.0	10761.9	11290.0	12019.4	12057.8	11675.2	10612.3
50°	7562.4	7651.1	8064.1	8892.8	10065.6	11176.2	11806.3	12646.9	12641.6	12184.9	11017.4
52.5°	7332.1	7419.5	7862.9	8761.7	10158.3	11497.9	12394.0	13261.1	13265.0	12770.0	11418.4
55°	7042.2	7149.4	7616.7	8584.3	10180.8	11750.7	12903.7	13891.2	13956.0	13367.0	11805.0
57.5°	6695.4	6802.6	7313.6	8324.9	10047.1	11962.5	13447.7	14696.0	14730.4	13977.2	12093.5
60°	6291.7	6421.4	6909.8	7978.1	9791.6	12208.7	14106.9	15484.9	15496.8	14522.6	12334.5
62.5°	5824.4	5917.0	6430.6	7475.1	9383.9	12306.7	14652.3	16209.0	16211.6	14934.3	12443.0
65°	5318.7	5354.5	5784.7	6790.7	8789.5	12146.5	14861.4	16649.8	16637.9	15295.6	12388.7
67.5°	4716.4	4699.2	5158.6	5944.8	8037.7	11613.0	14759.5	16876.2	16911.9	15573.6	12214.0
70°	3834.8	3860.0	4225.3	4998.4	6823.8	10756.6	14478.9	16968.8	16959.5	15434.6	11651.4
72.5°	2910.9	2955.9	3220.6	3800.4	5296.2	9046.3	13276.9	15944.3	15962.8	14455.1	10638.8
75°	1800.3	1930.0	2153.7	2507.1	3318.6	6481.0	11300.6	13966.6	14060.6	12754.1	8760.4
77.5°	788.9	819.4	931.9	1208.6	1735.4	3253.7	8354.0	11153.7	11431.7	10314.5	6319.5
80°	488.5	488.5	520.2	606.3	774.4	1209.9	3347.7	6659.7	6377.7	5899.8	2787.8
82.5°	406.4	406.4	422.3	436.8	397.1	512.3	1119.9	1866.5	2000.1	1618.9	856.4
85°	221.1	226.4	227.7	231.7	227.7	276.7	440.8	552.0	558.6	505.7	304.5
87.5°	80.7	86.0	83.4	78.1	70.2	66.2	84.7	86.0	88.7	82.1	45.0
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: P510095

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4482.1	4482.1	4482.1	4482.1	4482.1	4482.1	4482.1	4482.1	4482.1	4482.1	4482.1
2.5°	4512.6	4531.1	4580.1	4584.1	4602.6	4609.2	4625.1	4647.6	4687.3	4667.4	4644.9
5°	4564.2	4588.0	4666.1	4705.8	4757.5	4787.9	4838.2	4863.4	4924.3	4904.4	4901.7
7.5°	4642.3	4692.6	4762.8	4801.1	4868.7	4888.5	4925.6	4925.6	4975.9	4950.7	4944.1
10°	4748.2	4781.3	4855.4	4858.1	4896.5	4896.5	4940.1	4912.3	4961.3	4932.2	4930.9
12.5°	4832.9	4851.4	4879.2	4856.7	4876.6	4854.1	4876.6	4843.5	4874.0	4836.9	4828.9
15°	4928.2	4903.1	4875.3	4822.3	4805.1	4769.4	4750.8	4716.4	4719.1	4676.7	4670.1
17.5°	5035.4	4970.6	4889.8	4774.7	4711.1	4619.8	4581.4	4532.4	4504.6	4466.2	4483.5
20°	5165.2	5068.5	4900.4	4721.7	4586.7	4447.7	4357.7	4278.3	4271.7	4237.2	4218.7
22.5°	5333.3	5178.4	4946.8	4646.3	4429.2	4230.6	4096.9	3964.6	3951.3	3881.2	3854.7
25°	5541.1	5324.0	4970.6	4588.0	4245.2	3972.5	3762.0	3578.0	3489.3	3415.2	3398.0
27.5°	5820.4	5538.5	5018.2	4483.5	4028.1	3652.2	3350.3	3106.8	3000.9	2963.8	2925.4
30°	6147.4	5800.6	5106.9	4396.1	3771.3	3243.1	2875.1	2585.2	2470.1	2411.8	2393.3
32.5°	6629.2	6131.5	5189.0	4251.8	3460.2	2793.1	2313.9	1993.5	1923.4	1912.8	1937.9
35°	7330.8	6753.6	5308.1	4118.1	3094.9	2292.7	1763.2	1554.1	1539.5	1542.1	1542.1
37.5°	8061.5	7346.7	5661.6	3920.9	2647.4	1726.1	1342.3	1228.4	1233.7	1233.7	1232.4
40°	8538.0	7823.2	5918.4	3641.6	2091.5	1237.7	995.4	909.4	946.5	996.8	1023.2
42.5°	9063.5	8256.1	6095.7	3319.9	1454.8	875.0	724.1	754.5	863.1	939.8	950.4
45°	9511.0	8624.1	6115.6	2819.5	937.2	664.5	660.5	747.9	873.7	957.1	963.7
47.5°	9894.8	8959.0	5991.2	2247.7	683.0	620.8	660.5	770.4	884.2	935.9	941.2
50°	10266.8	9225.0	5698.6	1727.5	622.2	604.9	668.5	774.4	845.9	881.6	876.3
52.5°	10597.7	9467.3	5275.0	1347.6	598.3	594.4	675.1	770.4	815.4	812.8	808.8
55°	10849.2	9538.8	4944.1	1051.0	578.5	587.7	679.1	774.4	807.5	783.6	778.3
57.5°	10979.0	9450.1	4666.1	835.3	557.3	581.1	689.7	773.1	831.3	876.3	873.7
60°	10976.3	9349.5	4323.3	720.1	536.1	575.8	706.9	839.2	1049.7	1092.1	1093.4
62.5°	10934.0	9177.4	3853.4	651.3	512.3	578.5	718.8	953.1	1195.3	1160.9	1133.1
65°	10793.6	8854.4	3223.3	577.1	481.8	581.1	713.5	1031.2	1096.0	972.9	955.7
67.5°	10403.1	8229.6	2531.0	516.3	454.0	566.6	722.8	958.4	1007.4	929.3	904.1
70°	9610.2	7349.3	1715.5	444.8	422.3	545.4	701.6	942.5	994.1	914.7	877.6
72.5°	8354.0	5898.5	1003.4	382.6	375.9	501.7	691.0	953.1	1010.0	921.3	873.7
75°	6502.1	4135.3	579.8	309.8	313.7	463.3	634.1	898.8	1000.7	931.9	869.7
77.5°	4197.5	2008.1	409.0	247.5	244.9	365.3	514.9	786.3	963.7	941.2	889.5
80°	1502.4	733.3	287.2	184.0	178.7	247.5	395.8	632.7	815.4	844.5	844.5
82.5°	540.1	368.0	184.0	112.5	111.2	157.5	295.2	480.5	591.7	667.2	685.7
85°	226.4	160.2	90.0	56.9	46.3	60.9	152.2	297.8	401.1	431.5	469.9
87.5°	33.1	29.1	23.8	18.5	15.9	15.9	19.9	86.0	143.0	205.2	254.2
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)