

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: P510157

Luminaire Tested: **VERD-M-CA4-220-722-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510157
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-2)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA4-220-722-U-T2
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 2200K, 1000mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25426 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

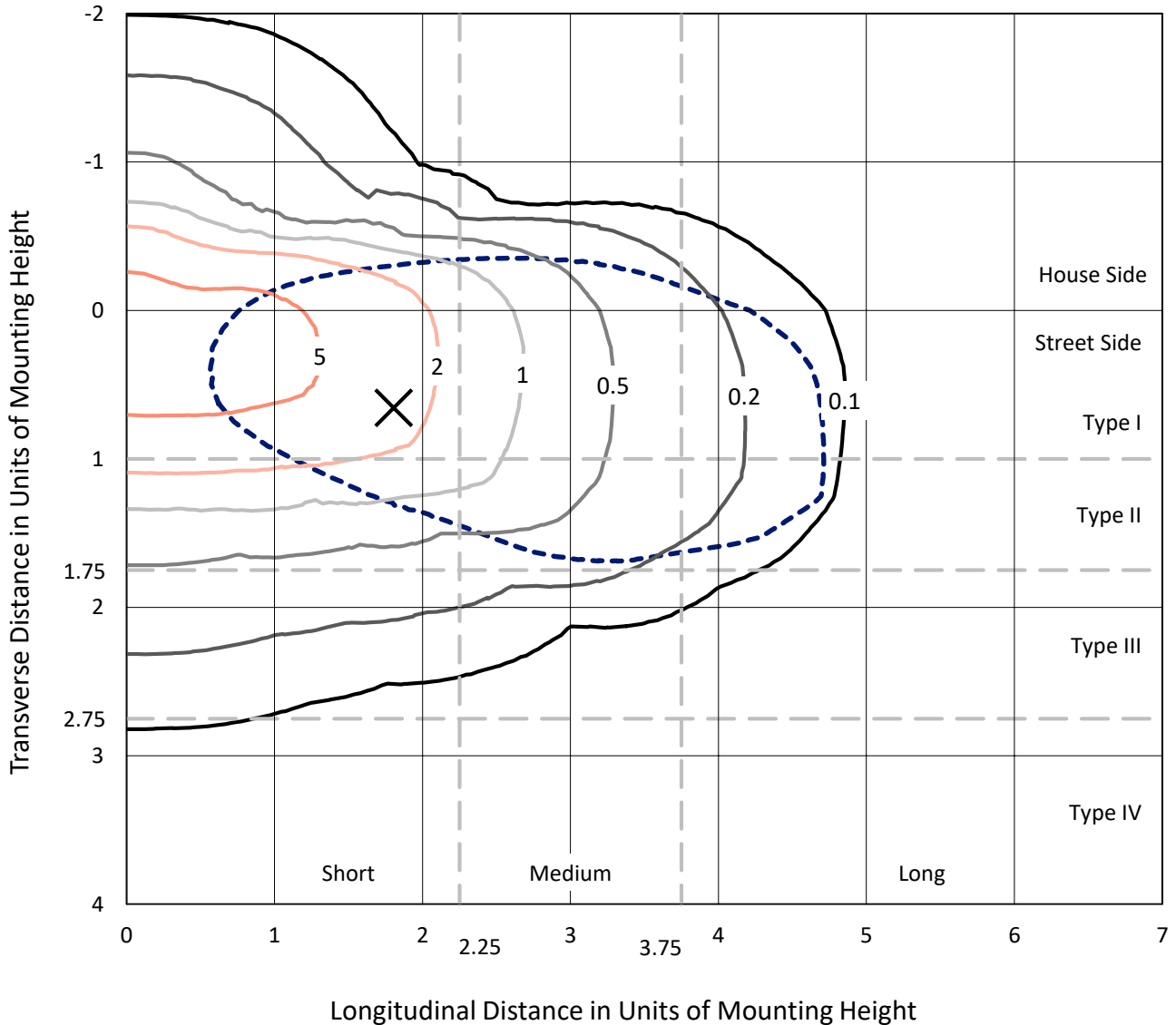
Input Watts (W): 222.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

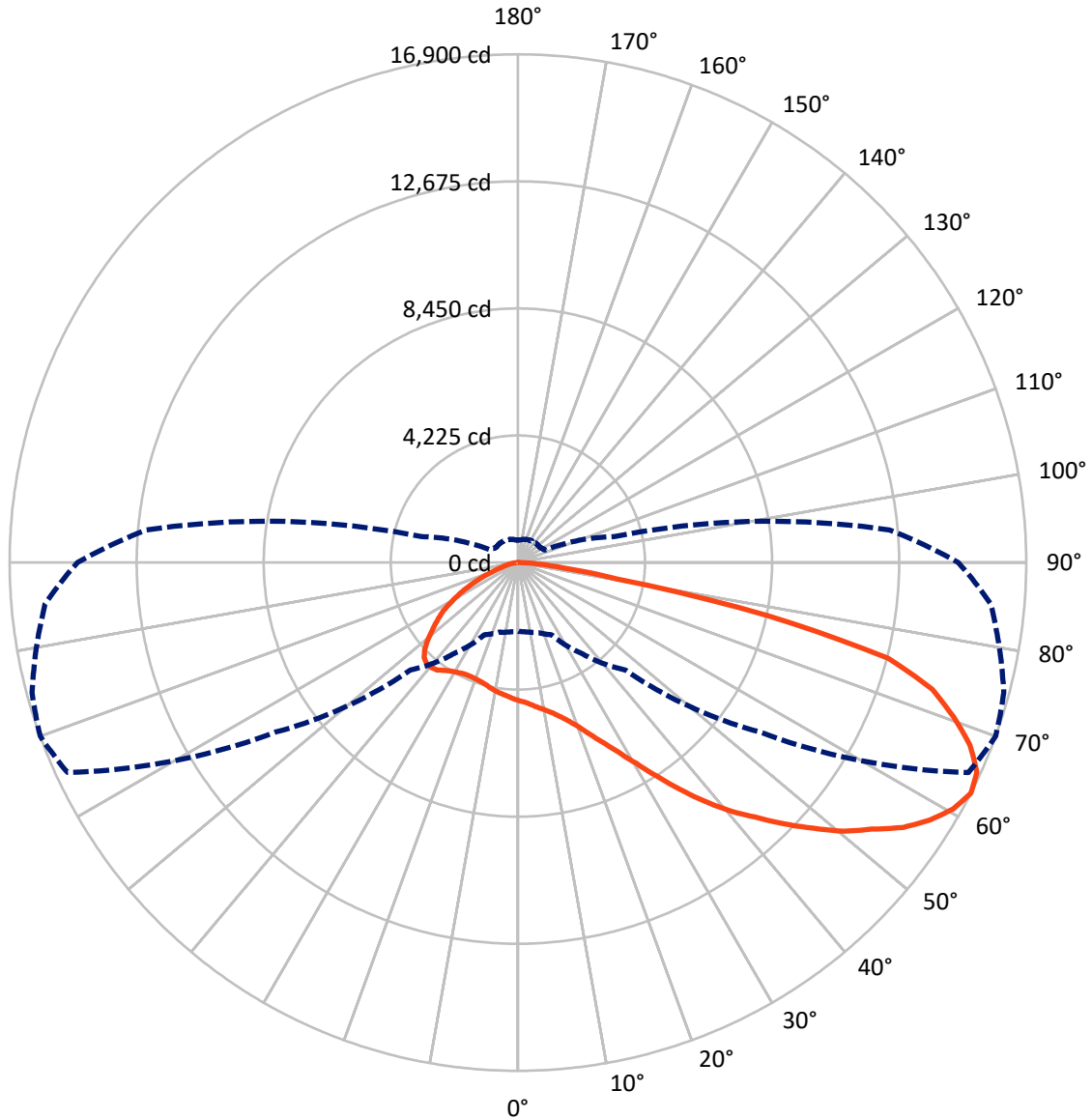
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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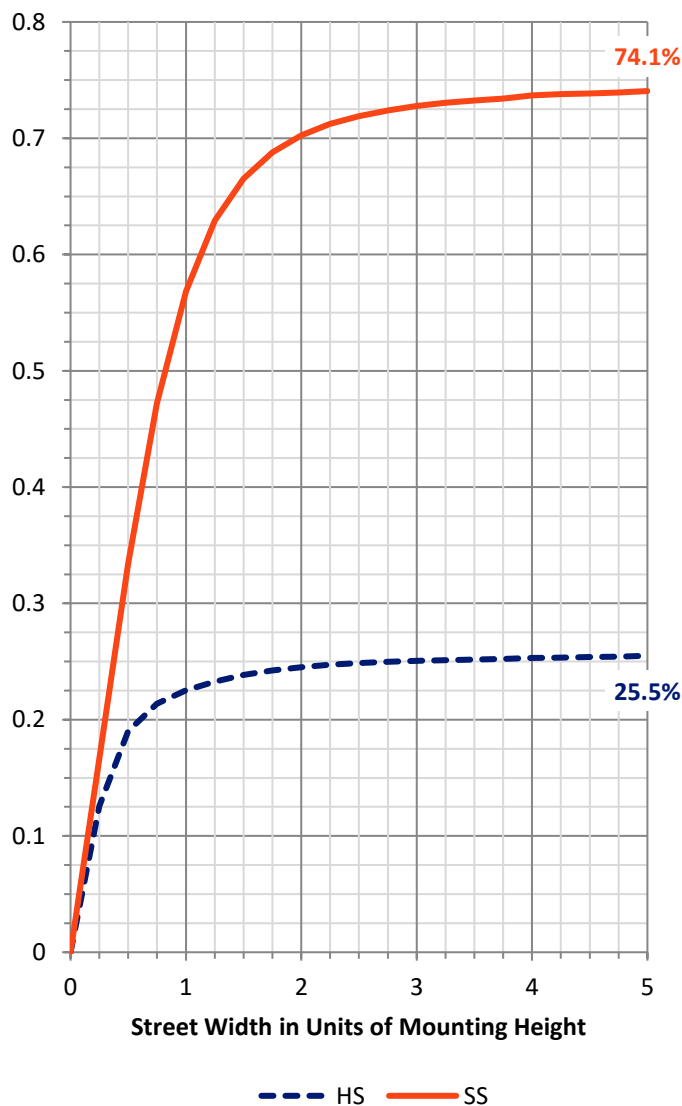
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6582.9	0.0	6582.9
	% Fixture	25.9	0.0	25.9
Street Side	Lumens	18843.1	0.0	18843.1
	% Fixture	74.1	0.0	74.1
Total	Lumens	25426.0	0.0	25426.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	440.8	1.7
10°-20°	1338.6	5.3
20°-30°	2271.8	8.9
30°-40°	3287.1	12.9
40°-50°	4313.5	17.0
50°-60°	5040.2	19.8
60°-70°	5058.1	19.9
70°-80°	3223.1	12.7
80°-90°	452.9	1.8
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°	25426.0	100.0
0°-180°	25426.0	100.0

Coefficient of Utilization



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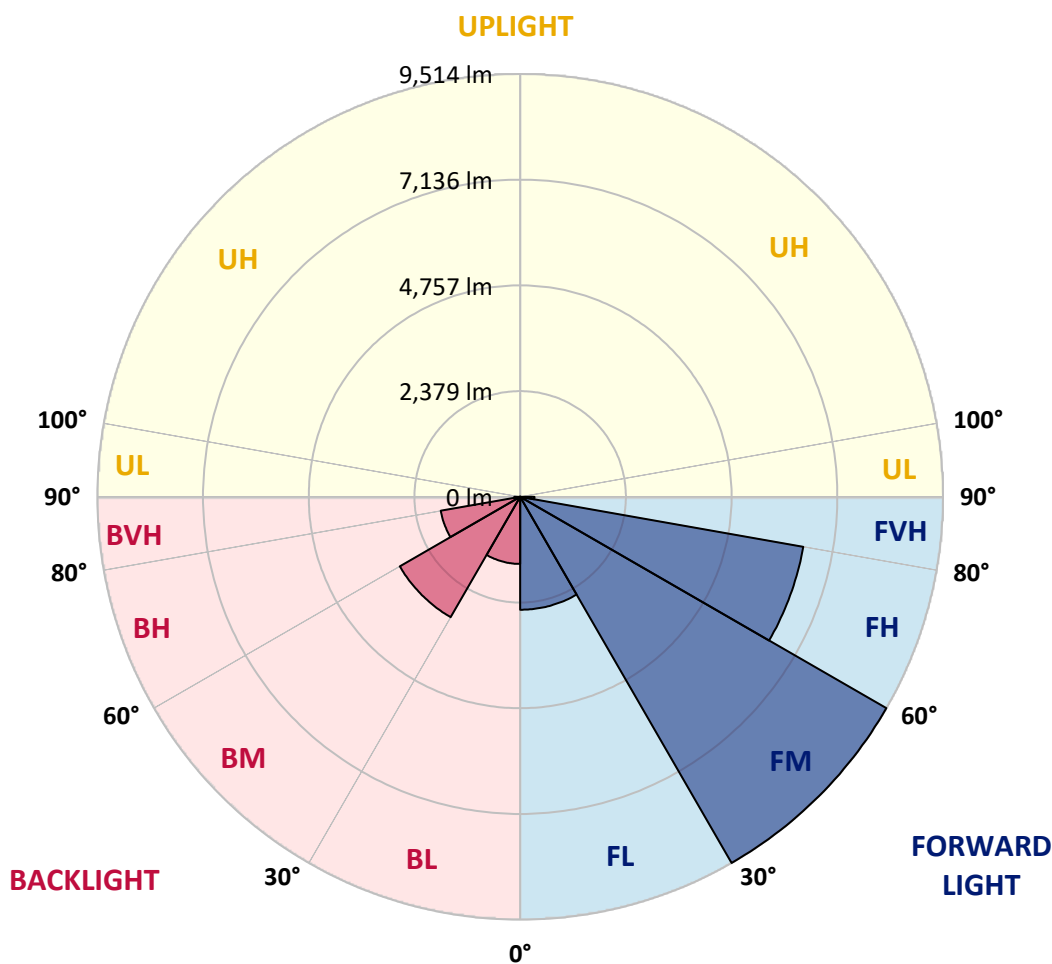
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2541.3	10.0			
FM (30°-60°)	9514.1	37.4			
FH (60°-80°)	6468.1	25.4			G3/7500
FVH (80°-90°)	319.5	1.3			G3/500
BL (0°-30°)	1509.8	5.9	B3/2500		
BM (30°-60°)	3126.7	12.3	B3/5000		
BH (60°-80°)	1813.0	7.1	B3/2500		G3/2500
BVH (80°-90°)	133.4	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	4589.0	4589.0	4589.0	4589.0	4589.0	4589.0	4589.0	4589.0	4589.0	4589.0	4589.0
2.5°	4764.8	4815.4	4808.5	4777.5	4799.3	4739.6	4717.7	4684.4	4649.9	4638.4	4618.9
5°	4990.0	5056.7	5044.0	5002.7	5001.5	4916.5	4868.2	4805.1	4752.2	4710.8	4649.9
7.5°	5200.3	5277.3	5265.8	5225.6	5223.3	5125.6	5025.7	4926.8	4865.9	4813.1	4701.6
10°	5423.2	5481.8	5471.5	5419.8	5409.4	5314.1	5196.9	5072.8	4983.1	4909.6	4751.0
12.5°	5628.9	5690.9	5695.5	5631.2	5615.1	5512.8	5410.6	5246.3	5130.2	5046.3	4813.1
15°	5820.8	5894.3	5880.5	5816.2	5798.9	5695.5	5595.6	5443.9	5323.2	5206.0	4914.2
17.5°	5974.7	6044.8	6027.6	5998.8	5989.7	5909.2	5826.5	5662.2	5555.3	5404.8	5070.5
20°	6080.4	6145.9	6152.8	6144.8	6197.6	6121.8	6075.8	5959.8	5842.6	5707.0	5284.2
22.5°	6121.8	6199.9	6266.6	6318.3	6427.4	6415.9	6407.9	6341.2	6226.3	6028.7	5566.8
25°	6134.4	6212.6	6316.0	6443.5	6638.8	6708.9	6759.5	6775.6	6650.3	6494.1	5918.4
27.5°	6136.7	6220.6	6326.3	6532.0	6829.6	7041.0	7161.6	7217.9	7147.8	7023.7	6396.4
30°	6088.5	6174.6	6310.2	6584.8	6978.9	7325.9	7525.8	7775.2	7745.3	7640.7	6995.0
32.5°	5949.4	6027.6	6214.9	6575.6	7127.1	7617.8	7929.1	8361.2	8462.3	8394.5	7685.6
35°	5700.1	5795.5	6037.9	6499.8	7207.6	7901.6	8403.7	9075.8	9258.5	9263.1	8532.4
37.5°	5448.5	5520.9	5805.8	6357.3	7252.4	8153.2	8854.1	9791.6	10057.1	10062.8	9236.7
40°	5180.8	5247.4	5561.1	6166.6	7206.4	8350.8	9273.4	10479.9	10860.2	10824.6	9928.4
42.5°	4833.8	4907.3	5218.7	5906.9	7091.5	8503.6	9699.7	11202.6	11568.0	11608.2	10649.9
45°	4537.3	4595.9	4868.2	5501.3	6881.3	8586.4	10099.6	11973.6	12391.8	12349.3	11419.8
47.5°	4172.0	4259.3	4550.0	5171.6	6503.2	8565.7	10482.2	12736.5	13201.8	13162.8	12087.3
50°	3218.3	3319.4	3995.0	4825.7	6020.7	8403.7	10829.2	13466.1	14044.0	13941.8	12793.9
52.5°	2923.0	2951.7	3220.6	4428.2	5545.0	8036.0	11084.2	14387.6	14730.0	14689.8	13509.8
55°	2742.6	2797.8	2920.7	3648.0	5117.6	7438.5	11261.2	15157.4	15543.5	15355.0	14157.8
57.5°	2584.1	2623.1	2769.1	3122.9	4625.8	6615.8	11209.5	15806.6	16151.3	15888.2	14790.9
60°	2415.2	2440.4	2586.4	2850.6	4095.0	5707.0	10684.4	16476.4	16629.2	16388.0	15326.3
62.5°	2284.2	2308.3	2395.6	2649.6	3681.3	5056.7	9825.0	16523.5	16900.4	16724.6	15781.3
65°	2116.4	2132.5	2241.7	2441.6	3297.6	4669.5	9067.8	16081.2	16769.4	16725.8	15955.9
67.5°	1931.4	1951.0	2054.4	2195.7	2807.0	4213.3	7801.6	15842.2	16215.6	16258.1	15628.5
70°	1714.3	1728.1	1834.9	1937.2	2401.4	3698.6	6202.2	14926.5	15361.9	15360.8	14617.4
72.5°	1479.9	1478.7	1584.4	1692.5	2011.9	3106.9	4855.6	13252.4	14404.8	14318.6	13178.8
75°	1220.2	1237.5	1339.7	1424.7	1674.1	2518.6	3381.5	9599.8	12717.0	12835.3	11373.8
77.5°	780.2	791.6	849.1	936.4	1170.8	1924.5	2206.0	5334.7	8491.0	10242.0	8952.9
80°	569.9	575.6	626.2	676.8	779.0	1172.0	1121.4	2318.6	3365.4	5028.0	5492.1
82.5°	388.4	389.5	429.7	441.2	447.0	528.5	532.0	1128.3	1602.8	1887.8	2425.5
85°	257.4	213.7	166.6	220.6	226.3	194.2	189.6	509.0	795.1	953.7	898.5
87.5°	57.4	56.3	65.5	66.6	64.3	55.2	46.0	78.1	119.5	118.3	151.7
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°	4589.0	4589.0	4589.0	4589.0	4589.0	4589.0	4589.0	4589.0	4589.0	4589.0	4589.0
2.5°	4600.5	4594.8	4562.6	4494.8	4448.9	4401.8	4375.3	4359.2	4365.0	4338.6	4327.1
5°	4612.0	4583.3	4492.5	4412.1	4339.7	4258.1	4190.3	4181.2	4194.9	4170.8	4157.0
7.5°	4641.9	4581.0	4465.0	4327.1	4206.4	4129.4	4031.8	3982.4	3978.9	3954.8	3959.4
10°	4659.1	4579.9	4424.7	4258.1	4116.8	3980.1	3875.5	3820.4	3816.9	3782.5	3774.4
12.5°	4706.2	4592.5	4377.6	4174.3	4016.8	3834.2	3723.9	3673.3	3667.6	3619.3	3600.9
15°	4778.6	4621.2	4328.2	4076.6	3873.2	3702.0	3569.9	3502.1	3491.8	3435.5	3415.9
17.5°	4893.5	4702.8	4313.3	3988.1	3748.0	3560.7	3405.6	3332.1	3272.3	3241.3	3214.9
20°	5048.6	4803.9	4330.5	3905.4	3590.6	3374.6	3181.5	3085.0	3043.7	2993.1	2996.6
22.5°	5269.2	4962.5	4360.4	3841.1	3448.1	3175.8	2958.6	2850.6	2775.9	2733.4	2735.7
25°	5579.5	5201.5	4419.0	3780.2	3293.0	2958.6	2702.4	2551.9	2476.1	2448.5	2419.8
27.5°	5971.3	5487.5	4558.0	3705.5	3109.2	2712.8	2429.0	2253.2	2176.2	2134.8	2129.1
30°	6474.5	5863.3	4721.2	3650.3	2916.1	2406.0	2090.0	1951.0	1883.2	1824.6	1797.0
32.5°	7088.1	6394.1	4902.7	3595.2	2677.1	2062.4	1776.3	1669.5	1561.5	1486.8	1490.2
35°	7800.5	6972.0	5172.7	3525.1	2396.8	1741.9	1544.2	1406.4	1305.2	1255.8	1232.9
37.5°	8472.6	7564.9	5489.8	3453.8	2083.1	1533.9	1315.6	1188.0	1109.9	1072.0	1080.0
40°	9152.8	8176.2	5763.3	3279.2	1731.5	1345.5	1089.2	1016.9	985.8	956.0	959.4
42.5°	9761.8	8663.3	5963.2	3085.0	1485.6	1129.5	928.4	944.5	962.8	945.6	941.0
45°	10396.0	9233.2	6139.0	2754.1	1280.0	959.4	888.2	933.0	973.2	970.9	965.1
47.5°	11032.5	9761.8	6156.3	2315.2	1092.7	902.0	887.0	920.3	973.2	982.4	975.5
50°	11688.6	10315.6	6055.1	1798.2	1013.4	908.8	888.2	893.9	952.5	962.8	959.4
52.5°	12415.9	10914.2	5805.8	1367.3	982.4	920.3	891.6	883.6	916.9	935.3	938.7
55°	13084.6	11389.9	5338.2	1207.6	959.4	921.5	916.9	890.5	891.6	882.4	905.4
57.5°	13646.5	11843.7	4807.3	1120.3	938.7	911.1	928.4	879.0	865.2	827.3	818.1
60°	14227.9	12212.6	4060.5	1060.5	914.6	898.5	899.7	859.4	825.0	769.8	753.7
62.5°	14640.4	12407.9	3335.5	990.4	881.3	879.0	861.7	831.9	800.8	752.6	745.7
65°	14759.8	12304.5	2562.2	916.9	837.6	846.8	815.8	774.4	645.7	586.0	586.0
67.5°	14364.6	11667.9	1897.0	831.9	784.8	803.1	742.2	610.1	543.5	507.9	513.6
70°	13281.1	10639.6	1235.2	707.8	708.9	723.9	612.4	549.2	486.0	464.2	475.7
72.5°	11833.4	9114.9	814.6	564.2	597.5	572.2	559.6	505.6	449.3	424.0	432.0
75°	9751.4	7197.2	565.3	443.5	387.2	488.3	497.5	425.1	381.5	463.0	481.4
77.5°	7703.9	5002.7	466.5	310.2	286.1	360.8	398.7	394.1	630.8	741.1	733.1
80°	4581.0	2880.5	380.3	214.9	202.2	232.1	313.7	452.7	706.6	530.8	505.6
82.5°	2077.4	1309.8	202.2	112.6	132.1	154.0	234.4	563.0	463.0	340.1	320.6
85°	811.2	427.4	80.4	49.4	46.0	57.4	106.9	271.2	186.1	150.5	150.5
87.5°	104.6	77.0	23.0	17.2	14.9	18.4	34.5	150.5	87.3	73.5	71.2
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)