

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: P319378

Luminaire Tested: **GAN-SA4D-740-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319378
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4D-740-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30662 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

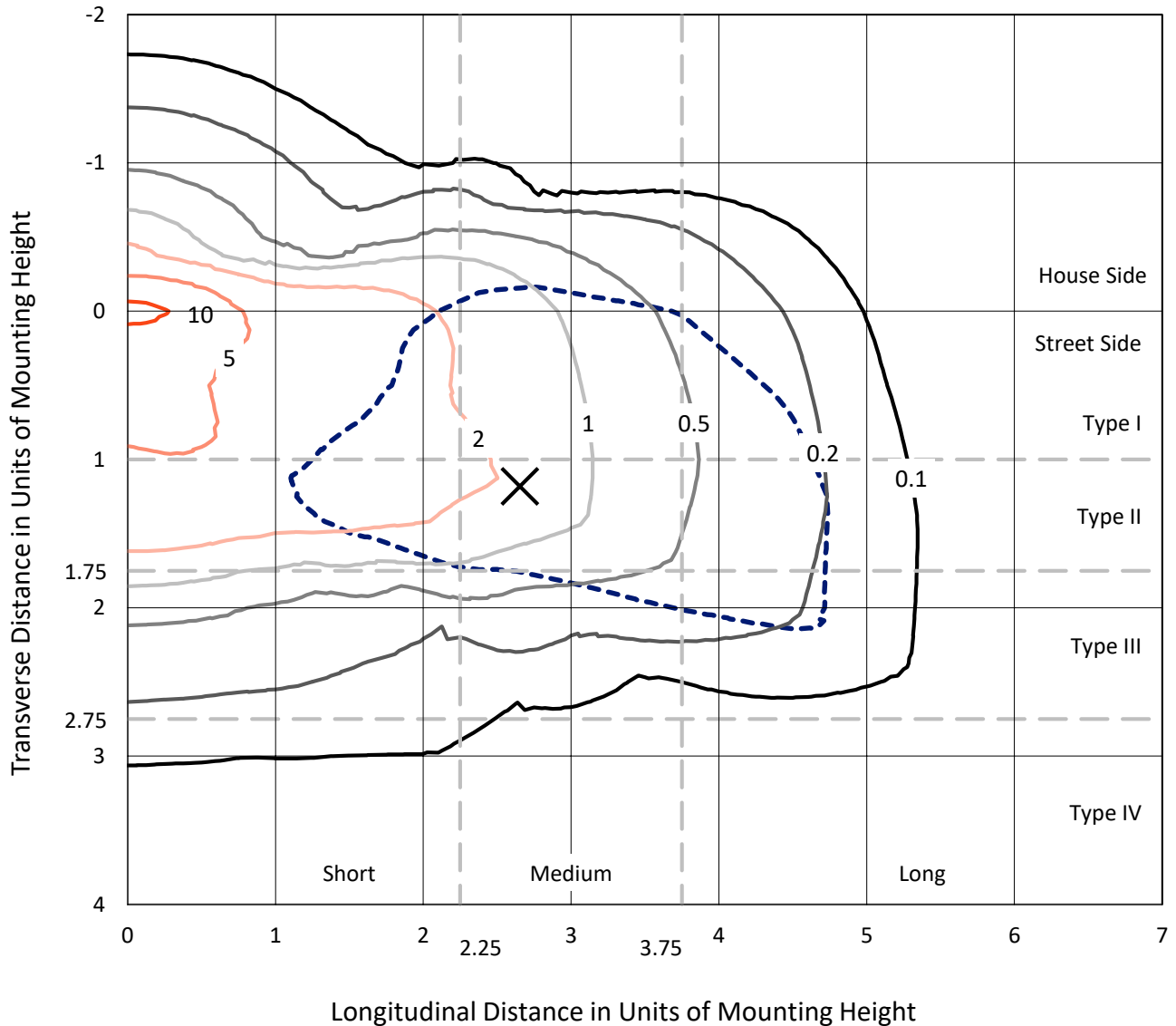
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

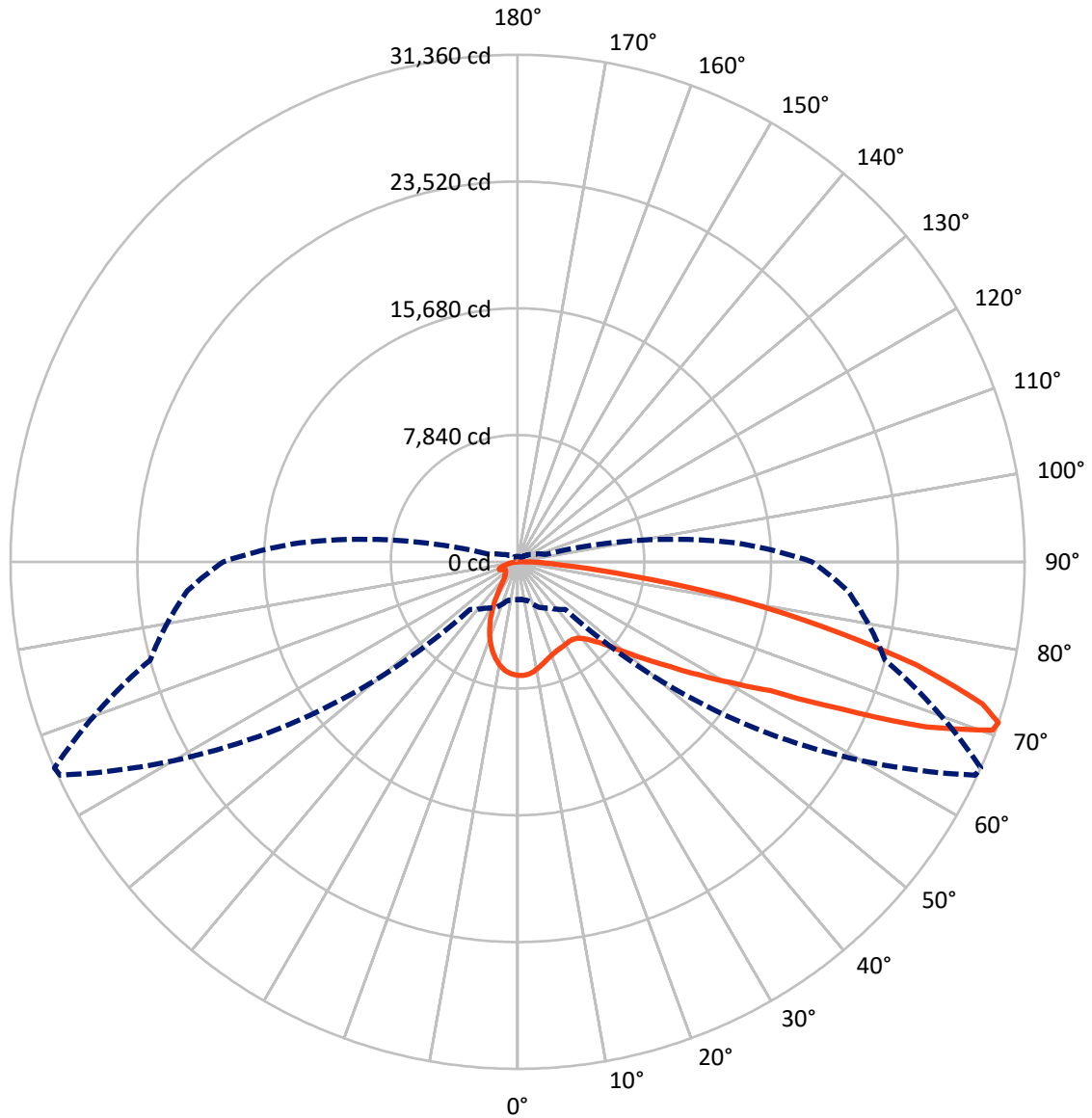
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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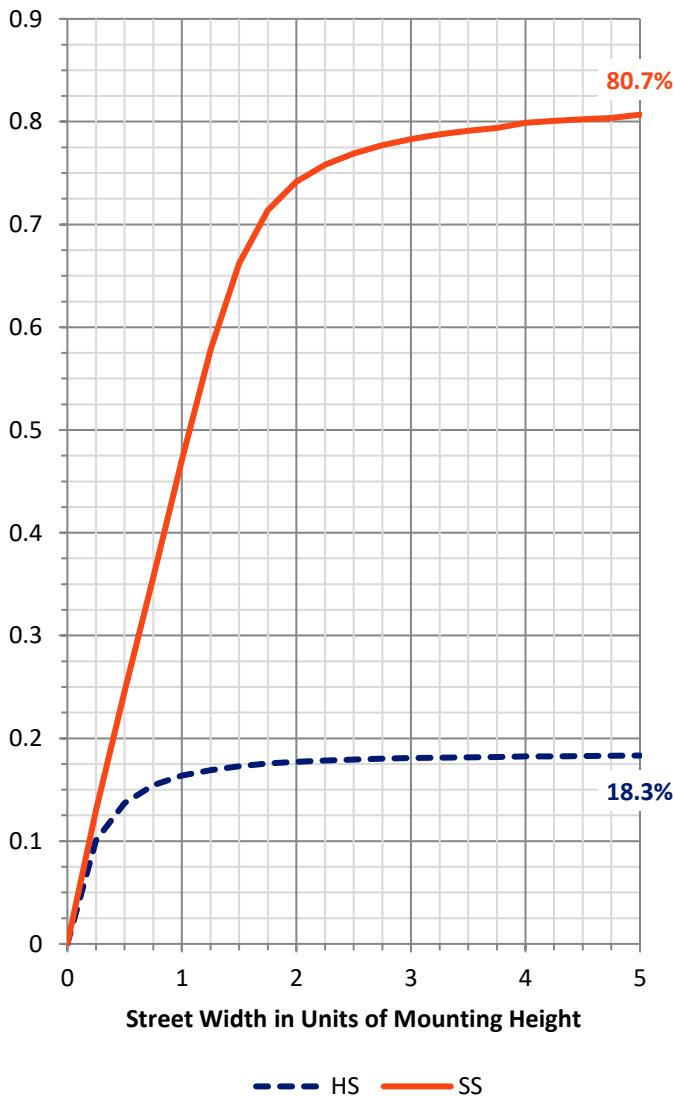
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5682.5	0.0	5682.5
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	24979.5	0.0	24979.5
	% Fixture	81.5	0.0	81.5
Total	Lumens	30662.0	0.0	30662.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	618.3	2.0
10°-20°	1482.9	4.8
20°-30°	1991.9	6.5
30°-40°	2620.4	8.5
40°-50°	3811.9	12.4
50°-60°	5954.6	19.4
60°-70°	7459.1	24.3
70°-80°	5689.7	18.6
80°-90°	1033.2	3.4
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°	30662.0	100.0
0°-180°	30662.0	100.0

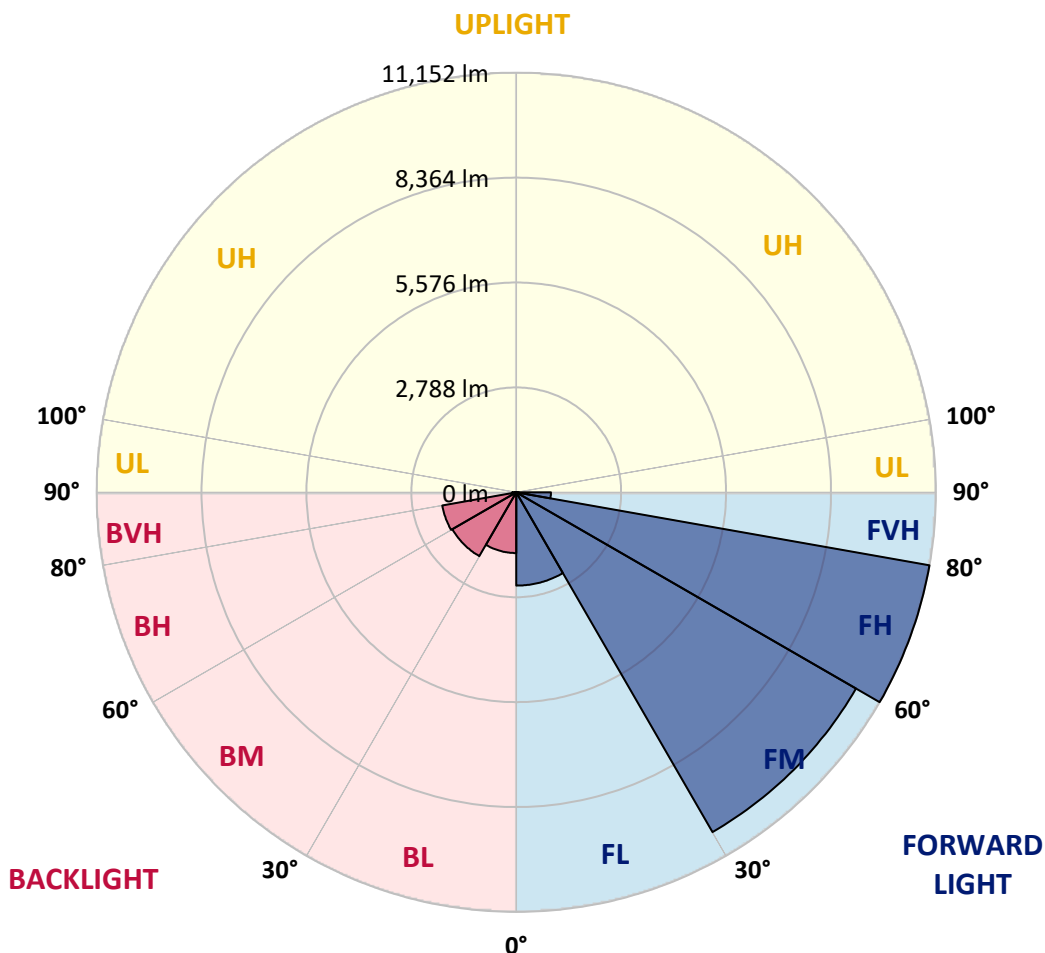


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2479.4	8.1			
FM (30°-60°)	10426.6	34.0			
FH (60°-80°)	11152.1	36.4			G4/12000
FVH (80°-90°)	921.3	3.0			G5
BL (0°-30°)	1613.7	5.3	B3/2500		
BM (30°-60°)	1960.3	6.4	B2/2500		
BH (60°-80°)	1996.7	6.5	B3/2500		G3/2500
BVH (80°-90°)	111.8	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-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7024.1	7024.1	7024.1	7024.1	7024.1	7024.1	7024.1	7024.1	7024.1	7024.1	7024.1
2.5°	6893.9	6883.3	6915.0	6947.8	6960.6	6981.7	7013.5	7031.5	7030.4	7033.6	7023.0
5°	6436.5	6422.8	6486.3	6538.2	6637.7	6749.9	6886.4	6983.8	6986.0	7041.0	7055.8
7.5°	6003.5	5994.0	6067.1	6150.7	6266.1	6437.6	6658.8	6868.5	6881.2	7030.4	7082.3
10°	5656.3	5654.2	5725.1	5816.2	5950.6	6142.2	6396.3	6703.3	6722.4	6979.6	7086.5
12.5°	5385.3	5389.5	5450.9	5554.7	5696.5	5896.6	6171.9	6518.0	6548.7	6899.2	7062.2
15°	5185.2	5202.2	5251.9	5356.7	5496.5	5699.7	5982.4	6346.5	6393.1	6809.2	7048.4
17.5°	5070.9	5089.9	5124.9	5211.7	5343.0	5538.8	5806.6	6205.7	6248.1	6740.4	7049.5
20°	5037.0	5052.9	5073.0	5125.9	5237.1	5414.9	5668.0	6078.7	6124.2	6685.3	7060.1
22.5°	5103.7	5115.3	5117.5	5113.2	5181.0	5326.0	5567.4	5985.5	6034.2	6649.3	7067.5
25°	5246.6	5262.5	5250.9	5211.7	5189.4	5278.4	5515.5	5924.1	5972.8	6622.8	7052.7
27.5°	5461.5	5463.6	5454.1	5403.3	5298.5	5283.7	5499.6	5888.2	5934.7	6592.1	7022.0
30°	5753.7	5767.5	5750.5	5681.7	5510.2	5368.4	5518.7	5853.2	5895.6	6553.0	6972.2
32.5°	6095.6	6129.5	6128.5	6056.5	5810.9	5557.9	5597.0	5832.0	5864.9	6511.7	6911.9
35°	6450.3	6496.9	6583.7	6553.0	6249.1	5857.5	5747.4	5865.9	5888.2	6506.4	6869.5
37.5°	6818.7	6865.3	7044.2	7126.8	6771.1	6286.2	5984.5	5985.5	5996.1	6571.0	6866.3
40°	7204.0	7253.8	7522.7	7737.6	7447.5	6829.3	6366.7	6235.4	6223.7	6729.8	6928.8
42.5°	7743.9	7788.4	8111.3	8385.5	8198.1	7524.8	6894.9	6620.7	6596.4	7041.0	7128.9
45°	8426.8	8464.9	8807.9	9101.1	9004.8	8318.8	7558.7	7151.1	7146.9	7559.7	7534.3
47.5°	9238.7	9268.4	9576.4	9860.2	9895.1	9232.4	8392.9	7969.4	7900.6	8271.1	8162.1
50°	10084.6	10117.4	10327.0	10631.9	10891.3	10455.1	9466.4	8972.0	8879.9	9210.2	9051.4
52.5°	10644.6	10688.0	10870.1	11256.5	12011.3	11795.4	10735.7	10187.3	10047.5	10348.2	10226.5
55°	10394.8	10492.2	10770.6	11389.9	12906.9	13842.8	12301.4	11604.8	11447.1	11696.9	11624.9
57.5°	9258.9	9392.2	9772.3	10728.2	13032.9	15646.7	14668.5	13274.3	13163.1	13091.1	13123.9
60°	7182.9	7311.0	7782.1	9028.1	12155.3	16963.6	18230.8	15332.3	15171.4	14490.7	14520.3
62.5°	5083.6	5019.0	5341.9	6253.4	9877.1	17118.2	22284.4	18084.7	17555.4	15968.5	15838.3
65°	3876.7	3861.9	4006.9	4297.0	5982.4	15268.8	24699.1	22711.0	21884.2	17706.8	17399.8
67.5°	3185.4	3159.0	3301.9	3724.3	3852.4	9850.6	24752.0	28078.3	27266.3	19870.7	19205.8
70°	2619.1	2589.4	2722.8	3268.0	3560.2	4995.7	20831.9	31221.4	31178.0	22610.4	20569.4
71°	2348.1	2326.9	2486.7	3092.3	3497.7	4163.6	17986.3	31229.9	31360.1	23537.8	20488.9
72.5°	1911.9	1919.3	2088.7	2752.5	3451.2	3676.7	13219.2	29774.2	30049.5	24421.7	19757.4
75°	1270.4	1276.7	1499.0	2117.3	3346.4	3597.3	7265.4	24983.9	25489.9	23892.4	18028.6
77.5°	853.3	851.1	1002.5	1452.5	2915.5	3597.3	4260.0	18686.0	19241.8	19011.0	13898.9
80°	587.5	583.3	690.2	1002.5	2207.3	3640.7	3293.4	13095.4	13263.7	10266.7	5648.9
82.5°	359.9	363.1	451.0	708.2	1502.2	3276.5	3109.2	7140.5	6957.4	2879.5	1411.2
85°	206.4	205.4	287.9	479.6	964.4	2765.2	3031.9	3073.2	2819.2	867.0	510.3
87.5°	74.1	79.4	154.6	265.7	552.6	1925.7	2572.5	1598.5	1440.8	391.7	230.8
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°	7024.1	7024.1	7024.1	7024.1	7024.1	7024.1	7024.1	7024.1	7024.1	7024.1	7024.1
2.5°	7015.6	7022.0	7014.5	6972.2	6936.2	6878.0	6845.2	6799.6	6785.9	6779.5	6796.5
5°	7042.1	7044.2	6981.7	6870.6	6745.6	6598.5	6492.6	6362.4	6301.0	6274.6	6291.5
7.5°	7066.4	7056.9	6920.3	6707.5	6476.8	6220.6	5993.0	5784.4	5662.7	5612.9	5617.1
10°	7069.6	7029.4	6810.2	6481.0	6123.2	5747.4	5398.0	5076.2	4872.9	4740.6	4780.8
12.5°	7036.8	6969.0	6648.3	6187.7	5691.2	5178.9	4706.7	4224.0	3933.9	3799.5	3803.7
15°	7011.4	6888.6	6449.2	5842.6	5175.7	4497.1	3852.4	3285.0	2975.8	2838.2	2773.6
17.5°	6990.2	6801.8	6218.4	5454.1	4567.0	3706.3	2931.4	2425.3	2256.0	2215.7	2198.8
20°	6960.6	6709.7	5961.2	5004.2	3873.6	2821.3	2140.6	1890.7	1891.8	1938.4	1944.7
22.5°	6919.3	6604.8	5687.0	4499.2	3129.3	2054.8	1677.9	1606.0	1679.0	1767.9	1783.8
25°	6857.9	6481.0	5382.1	3941.3	2386.2	1579.5	1433.4	1430.2	1519.1	1612.3	1626.1
27.5°	6771.1	6319.0	5043.4	3342.1	1758.4	1342.4	1284.1	1306.4	1372.0	1439.7	1445.0
30°	6654.6	6130.6	4669.7	2710.1	1378.3	1195.2	1188.9	1209.0	1249.2	1296.8	1301.1
32.5°	6526.5	5939.0	4270.6	2098.2	1180.4	1115.8	1122.2	1131.7	1150.7	1169.8	1174.0
35°	6410.1	5743.1	3861.9	1594.3	1086.2	1063.9	1059.7	1057.6	1059.7	1053.3	1054.4
37.5°	6334.9	5581.1	3436.3	1269.3	1032.2	1018.4	1005.7	989.8	971.8	961.2	963.4
40°	6307.4	5460.5	3005.5	1096.8	987.7	978.2	953.8	920.0	898.8	892.4	892.4
42.5°	6381.5	5398.0	2589.4	1009.9	950.7	934.8	894.6	855.4	839.5	838.4	837.4
45°	6608.0	5423.4	2193.5	962.3	916.8	886.1	833.1	800.3	789.7	791.9	790.8
47.5°	7014.5	5583.3	1854.7	930.5	882.9	842.7	783.4	756.9	744.2	744.2	745.3
50°	7705.8	5957.0	1584.8	904.1	854.3	802.4	747.4	714.6	697.6	696.6	696.6
52.5°	8712.6	6626.0	1416.5	881.8	822.6	766.5	711.4	670.1	650.0	645.8	643.7
55°	9974.5	7585.1	1369.9	867.0	780.2	727.3	668.0	626.7	604.5	595.0	593.9
57.5°	11385.7	8751.8	1462.0	849.0	736.8	680.7	620.4	581.2	557.9	546.3	545.2
60°	12813.8	10025.3	1837.8	823.6	700.8	629.9	571.7	535.7	512.4	499.7	497.6
62.5°	14244.0	11367.7	2605.3	821.5	675.4	581.2	521.9	491.2	469.0	455.2	452.0
65°	15857.4	12837.1	3477.6	877.6	666.9	536.7	471.1	446.7	427.7	415.0	413.9
67.5°	17710.0	14495.9	3394.0	993.0	695.5	496.5	423.5	404.4	390.6	380.1	379.0
70°	18579.1	14236.6	2109.9	1074.5	735.8	457.3	377.9	364.2	353.6	346.2	343.0
71°	18214.9	13517.8	1769.0	1065.0	731.5	440.4	359.9	349.4	338.8	332.4	329.2
72.5°	17221.9	12327.9	1475.7	990.9	683.9	409.7	336.6	326.1	316.5	309.1	307.0
75°	15454.0	11009.8	1181.4	791.9	545.2	346.2	295.4	283.7	276.3	272.1	267.8
77.5°	11360.3	7857.2	913.6	625.7	401.2	282.7	252.0	243.5	236.1	229.7	226.5
80°	4352.1	3043.6	615.1	466.9	294.3	223.4	203.3	199.0	191.6	187.4	187.4
82.5°	1171.9	909.4	328.2	282.7	196.9	163.0	155.6	153.5	147.2	138.7	139.7
85°	474.3	401.2	184.2	155.6	120.7	96.3	104.8	105.9	98.5	87.9	88.9
87.5°	208.6	170.4	102.7	68.8	52.9	37.1	47.6	47.6	43.4	36.0	32.8
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)