

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: P319998

Luminaire Tested: **GAN-SA4B-740-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319998
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-740-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21905 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

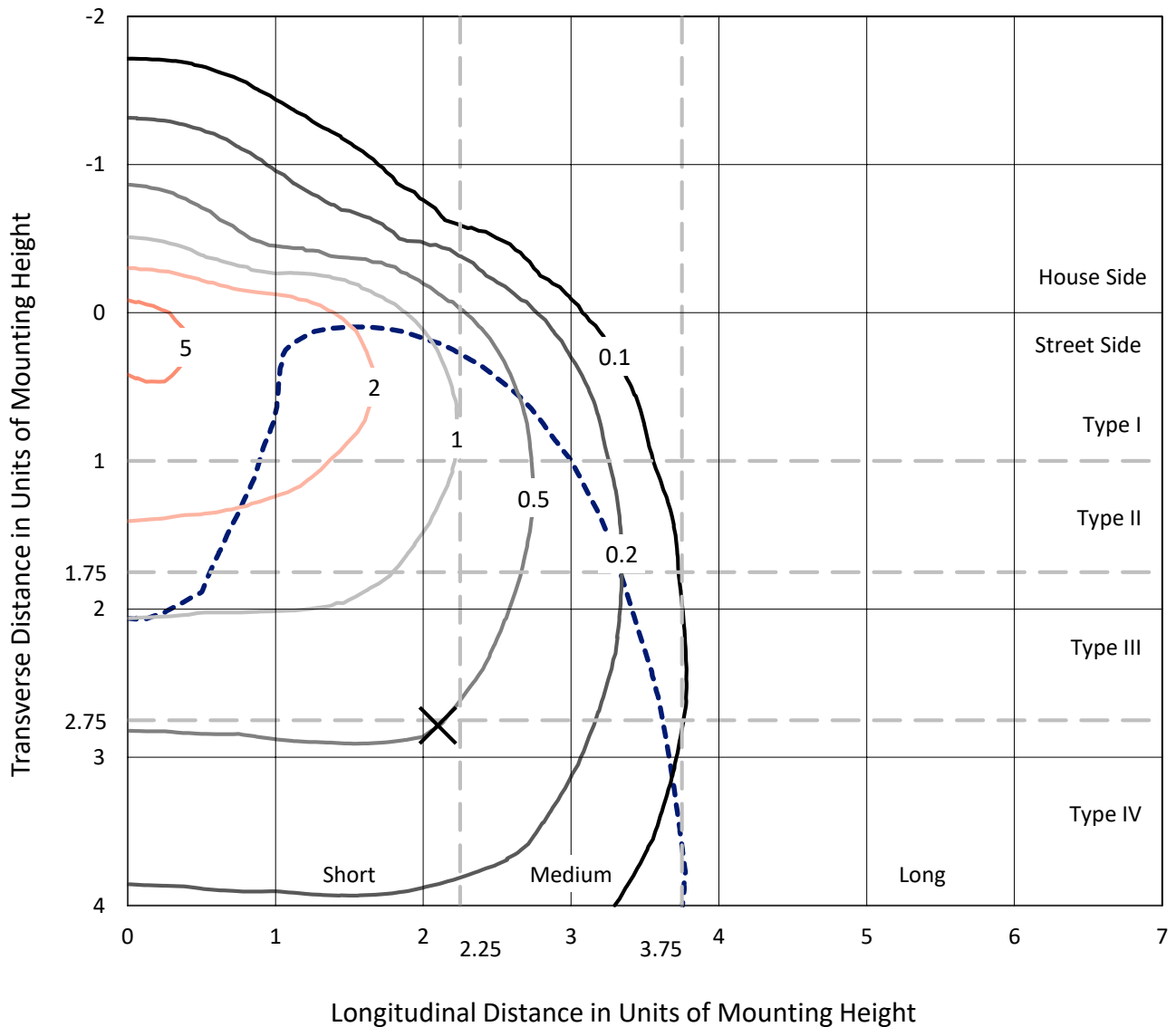
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

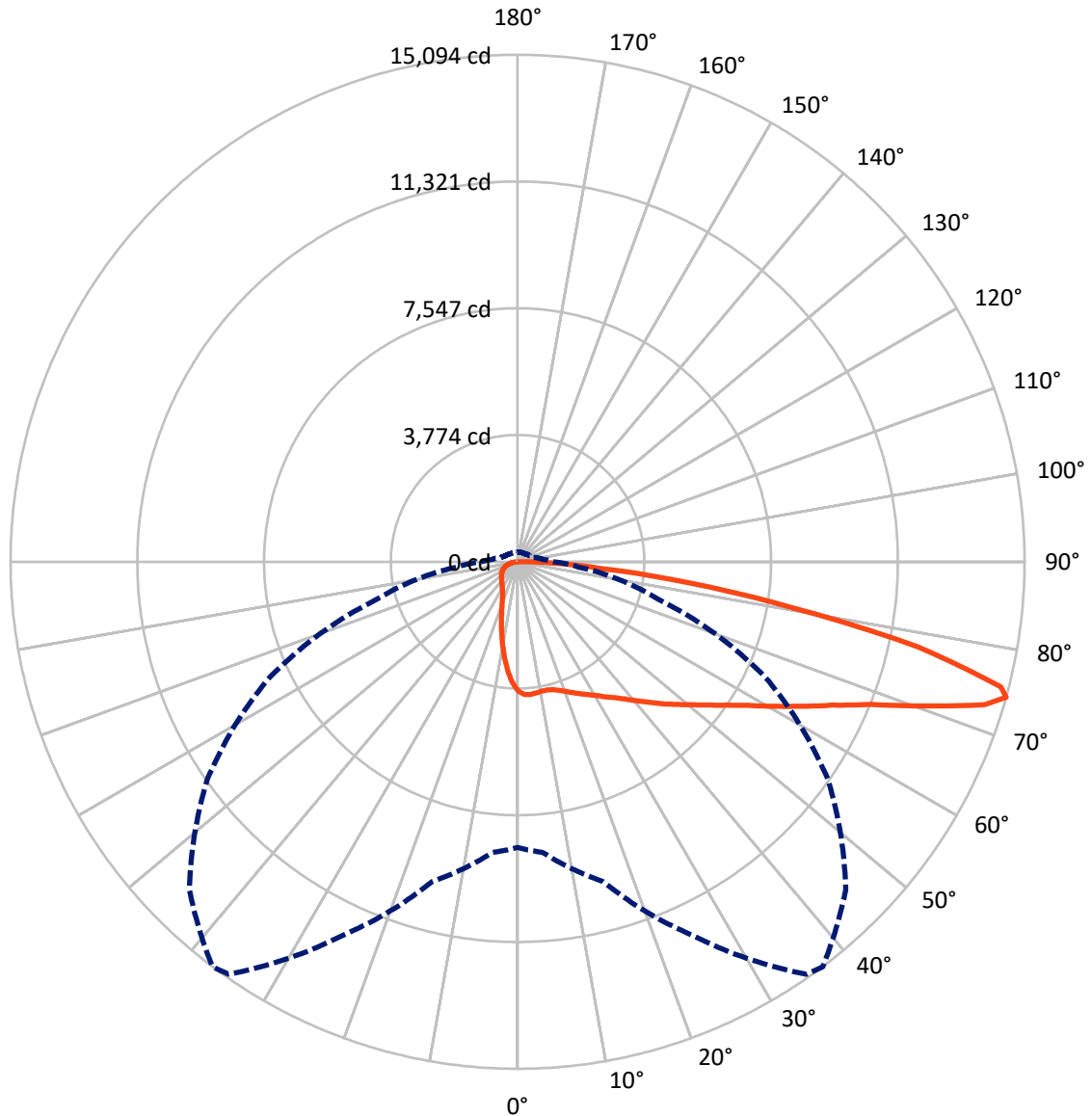
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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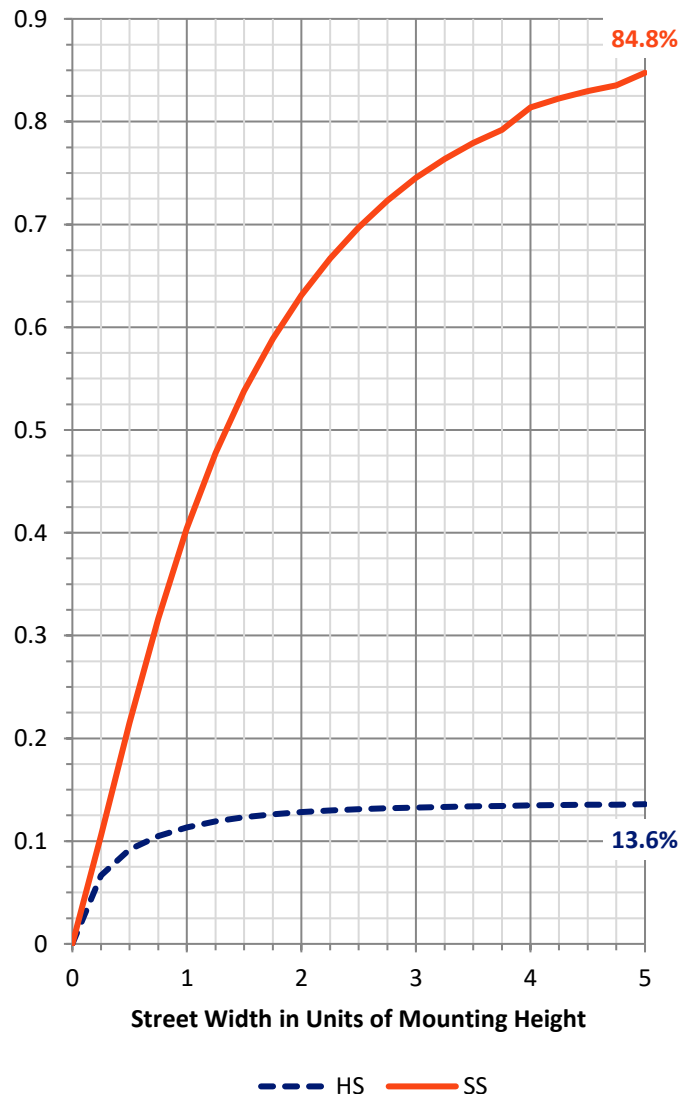
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3014.0	0.0	3014.0
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	18891.0	0.0	18891.0
	% Fixture	86.2	0.0	86.2
Total	Lumens	21905.0	0.0	21905.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.9	1.6
10°-20°	871.2	4.0
20°-30°	1342.3	6.1
30°-40°	1952.0	8.9
40°-50°	2873.0	13.1
50°-60°	4034.6	18.4
60°-70°	5106.5	23.3
70°-80°	4496.5	20.5
80°-90°	889.1	4.1
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°	21905.0	100.0
0°-180°	21905.0	100.0

Coefficient of Utilization

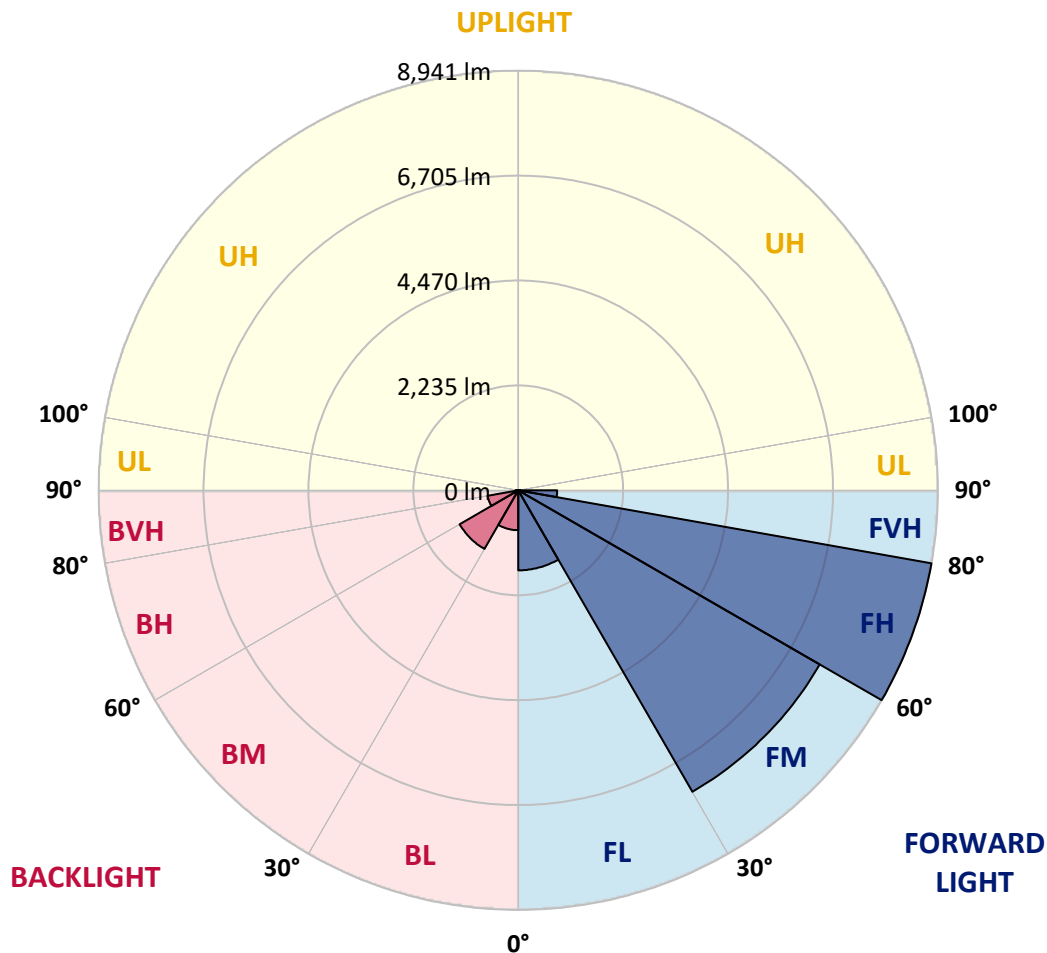


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1704.5	7.8			
FM (30°-60°)	7417.2	33.9			
FH (60°-80°)	8940.5	40.8			G4/12000
FVH (80°-90°)	828.8	3.8			G5
BL (0°-30°)	849.0	3.9	B2/1000		
BM (30°-60°)	1442.3	6.6	B2/2500		
BH (60°-80°)	662.5	3.0	B2/1000		G2/1000
BVH (80°-90°)	60.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	3859.6	3859.6	3859.6	3859.6	3859.6	3859.6	3859.6	3859.6	3859.6	3859.6	3859.6
2.5°	3991.5	3992.3	3991.5	3985.3	3970.7	3958.3	3948.3	3933.7	3901.2	3876.6	3839.5
5°	4029.3	4024.7	4021.6	4010.0	3986.9	3973.0	3953.7	3925.9	3872.7	3823.3	3763.1
7.5°	4011.6	4006.2	3999.2	3985.3	3959.1	3947.5	3920.5	3884.3	3820.2	3755.4	3669.0
10°	3956.8	3955.3	3952.2	3949.1	3926.7	3917.4	3892.8	3854.2	3790.9	3712.2	3611.1
12.5°	3895.8	3899.7	3912.0	3928.2	3918.2	3913.6	3898.2	3871.9	3807.1	3722.2	3600.3
15°	3857.3	3868.1	3901.2	3943.7	3952.2	3950.6	3946.8	3929.8	3861.1	3767.0	3625.0
17.5°	3844.1	3861.9	3925.2	3995.4	4020.1	4025.5	4027.0	3997.7	3921.3	3821.8	3650.5
20°	3868.1	3890.4	3983.0	4079.5	4118.8	4121.9	4115.0	4064.1	3978.4	3868.8	3664.4
22.5°	3940.6	3960.7	4076.4	4185.2	4229.9	4234.6	4213.7	4136.6	4038.6	3924.4	3683.6
25°	4080.3	4104.9	4220.7	4329.5	4352.6	4353.4	4323.3	4227.6	4117.3	4002.3	3725.3
27.5°	4262.4	4287.0	4391.2	4497.7	4485.3	4478.4	4437.5	4341.8	4219.9	4109.6	3799.4
30°	4465.3	4492.3	4591.1	4666.7	4637.4	4623.5	4590.3	4466.8	4362.7	4256.2	3912.8
32.5°	4675.2	4699.9	4786.3	4838.0	4800.9	4794.8	4744.6	4632.0	4548.6	4479.9	4096.5
35°	4890.4	4908.2	4993.1	5022.4	4973.0	4971.5	4957.6	4854.2	4801.7	4834.1	4363.4
37.5°	5110.4	5115.0	5187.5	5189.1	5174.4	5180.6	5195.2	5130.4	5145.1	5246.2	4710.7
40°	5306.3	5318.7	5371.2	5387.4	5412.8	5434.4	5507.7	5465.3	5578.7	5757.7	5142.8
42.5°	5451.4	5475.3	5559.4	5601.1	5683.7	5717.6	5821.0	5860.4	6088.7	6357.3	5656.6
45°	5574.1	5611.1	5746.2	5831.8	5971.5	6030.9	6179.0	6311.0	6665.1	7007.7	6197.5
47.5°	5706.8	5753.9	5922.9	6086.4	6276.2	6343.4	6612.7	6810.2	7280.1	7662.1	6707.6
50°	5902.0	5938.3	6103.4	6360.4	6597.2	6683.7	7056.3	7339.5	7905.1	8285.5	7149.7
52.5°	6174.4	6160.5	6300.2	6660.5	6978.4	7084.9	7530.1	7902.8	8538.6	8849.6	7523.2
55°	6448.3	6425.2	6523.2	6974.6	7422.9	7534.7	8051.7	8468.4	9141.2	9357.3	7809.4
57.5°	6753.1	6709.1	6791.7	7328.7	7929.0	8062.5	8635.8	9069.5	9733.8	9767.8	7991.5
60°	7067.1	7007.7	7100.3	7767.8	8571.8	8729.2	9319.5	9655.9	10292.5	10096.5	8050.2
62.5°	7341.8	7300.2	7442.9	8257.7	9296.3	9469.2	9990.8	10279.3	10843.4	10233.0	7838.8
65°	7581.8	7588.8	7835.7	8808.7	10104.2	10288.6	10760.8	11047.9	11277.0	10152.0	7344.2
67.5°	7868.1	7907.4	8328.7	9534.0	11121.2	11323.3	11881.2	11885.8	11519.3	9676.7	6370.4
70°	8285.5	8366.5	9007.0	10540.1	12567.2	12844.9	13275.5	12378.1	11179.0	8388.1	5012.4
72.5°	8655.9	8807.1	9728.4	11691.4	14329.5	14540.2	14091.1	12094.2	9757.0	6286.3	3122.7
74°	8505.4	8692.9	9859.6	12258.5	14993.1	15094.2	13815.6	11265.5	8135.0	4353.4	1814.8
75°	8181.3	8385.0	9668.2	12253.1	14909.0	14852.7	13150.5	10318.7	6699.9	2969.1	1207.6
77.5°	6602.6	6817.9	8146.6	10501.6	12224.6	12171.3	10101.9	6922.1	2934.4	973.8	613.4
80°	3838.7	4003.1	5057.1	6669.0	8243.1	8339.5	6643.5	3425.2	1154.3	547.1	415.9
82.5°	1705.3	1818.7	2442.9	3404.3	4974.5	5098.8	3479.2	1794.8	713.0	332.6	250.0
85°	1118.8	1202.9	1483.0	1621.1	2368.8	2453.7	1702.9	1397.4	470.7	182.9	183.6
87.5°	804.8	885.8	1101.9	962.2	1087.2	1029.3	926.7	1293.2	189.0	104.2	61.7
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°	3859.6	3859.6	3859.6	3859.6	3859.6	3859.6	3859.6	3859.6	3859.6	3859.6	3859.6
2.5°	3823.3	3811.0	3783.2	3730.7	3701.4	3676.7	3635.8	3611.9	3601.1	3600.3	3604.9
5°	3728.4	3699.9	3628.1	3540.1	3469.9	3405.9	3326.4	3278.6	3244.6	3224.5	3229.9
7.5°	3618.1	3573.3	3460.7	3320.2	3207.6	3083.3	2960.7	2887.4	2830.3	2787.8	2795.5
10°	3542.4	3480.7	3316.4	3114.2	2926.7	2746.1	2577.2	2476.1	2395.8	2334.1	2338.7
12.5°	3517.0	3433.6	3206.0	2936.0	2672.8	2425.9	2205.3	2050.2	1967.6	1897.4	1902.8
15°	3520.8	3409.0	3113.4	2775.5	2444.4	2133.5	1865.7	1684.4	1572.5	1523.9	1524.7
17.5°	3523.9	3380.4	3016.2	2603.4	2218.4	1860.3	1569.4	1385.8	1280.1	1235.3	1236.1
20°	3513.9	3334.1	2895.8	2405.9	1982.3	1609.6	1327.9	1172.1	1091.8	1057.1	1057.1
22.5°	3500.8	3279.3	2760.0	2207.6	1749.2	1392.0	1155.1	1036.3	990.0	966.8	966.1
25°	3507.0	3238.4	2621.1	2003.9	1534.7	1218.4	1040.1	961.4	930.6	915.9	915.1
27.5°	3540.1	3219.1	2493.1	1800.9	1347.2	1088.0	963.0	907.4	887.3	878.1	878.1
30°	3600.3	3219.1	2359.6	1628.1	1191.4	991.5	903.6	865.7	851.9	845.7	845.7
32.5°	3705.3	3236.9	2230.7	1456.8	1067.1	915.9	854.2	828.7	817.9	814.8	814.8
35°	3885.8	3297.1	2104.9	1294.8	966.8	854.2	807.1	792.4	784.7	784.0	786.3
37.5°	4139.7	3419.8	1986.9	1175.2	895.8	804.0	767.7	756.2	751.5	755.4	758.5
40°	4459.1	3586.4	1879.6	1067.1	841.8	763.9	731.5	723.8	721.5	726.9	731.5
42.5°	4844.9	3811.7	1791.7	989.2	800.2	729.9	700.6	691.4	689.0	695.2	701.4
45°	5262.4	4054.0	1729.9	931.3	767.7	704.5	673.6	663.6	659.0	662.0	669.0
47.5°	5642.0	4283.2	1705.3	890.4	736.9	682.9	649.7	637.3	629.6	628.1	633.5
50°	5962.2	4453.7	1716.8	865.7	712.2	659.0	626.5	612.7	601.1	594.1	598.0
52.5°	6195.2	4561.0	1727.6	854.9	692.9	632.7	601.1	588.0	572.5	561.0	561.0
55°	6364.2	4585.7	1703.7	846.5	678.2	604.2	572.5	560.2	544.8	531.6	530.1
57.5°	6430.6	4516.2	1615.0	834.1	668.2	577.2	542.4	533.2	520.1	504.6	503.9
60°	6341.1	4301.7	1443.7	807.9	655.1	554.8	512.3	506.2	500.0	485.3	484.6
62.5°	5981.5	3831.0	1222.2	754.6	628.9	530.9	484.6	487.7	488.4	478.4	476.9
65°	5329.5	3184.4	1006.2	685.2	589.5	502.3	456.0	470.7	479.2	477.6	475.3
67.5°	4382.0	2478.4	852.6	611.9	537.8	463.0	425.2	442.1	449.1	454.5	452.9
70°	3252.3	1747.7	705.2	534.7	475.3	416.7	385.0	393.5	388.9	395.1	397.4
72.5°	1813.3	1048.6	574.8	457.6	410.5	362.7	340.3	338.7	328.7	328.7	328.7
74°	1088.0	769.3	505.4	409.7	371.1	327.2	307.9	300.9	291.7	292.4	291.7
75°	875.0	661.3	463.7	378.1	343.4	306.3	287.0	277.8	270.8	270.8	270.1
77.5°	552.5	502.3	373.5	300.9	274.7	252.3	239.2	226.9	226.9	226.1	225.3
80°	417.4	399.7	290.9	227.6	210.6	193.7	185.2	179.8	179.8	182.1	181.3
82.5°	286.3	300.9	204.5	159.0	150.5	138.1	136.6	137.3	135.0	131.9	131.2
85°	209.1	226.1	138.1	100.3	91.8	84.1	90.3	93.4	89.5	82.6	79.5
87.5°	80.2	148.1	74.1	41.7	38.6	33.2	38.6	40.1	43.2	34.0	34.7
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)