

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: P383193

Luminaire Tested: **GAN-SA5B-735-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383193
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-SA5B-735-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 800mA 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: 26064.7 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

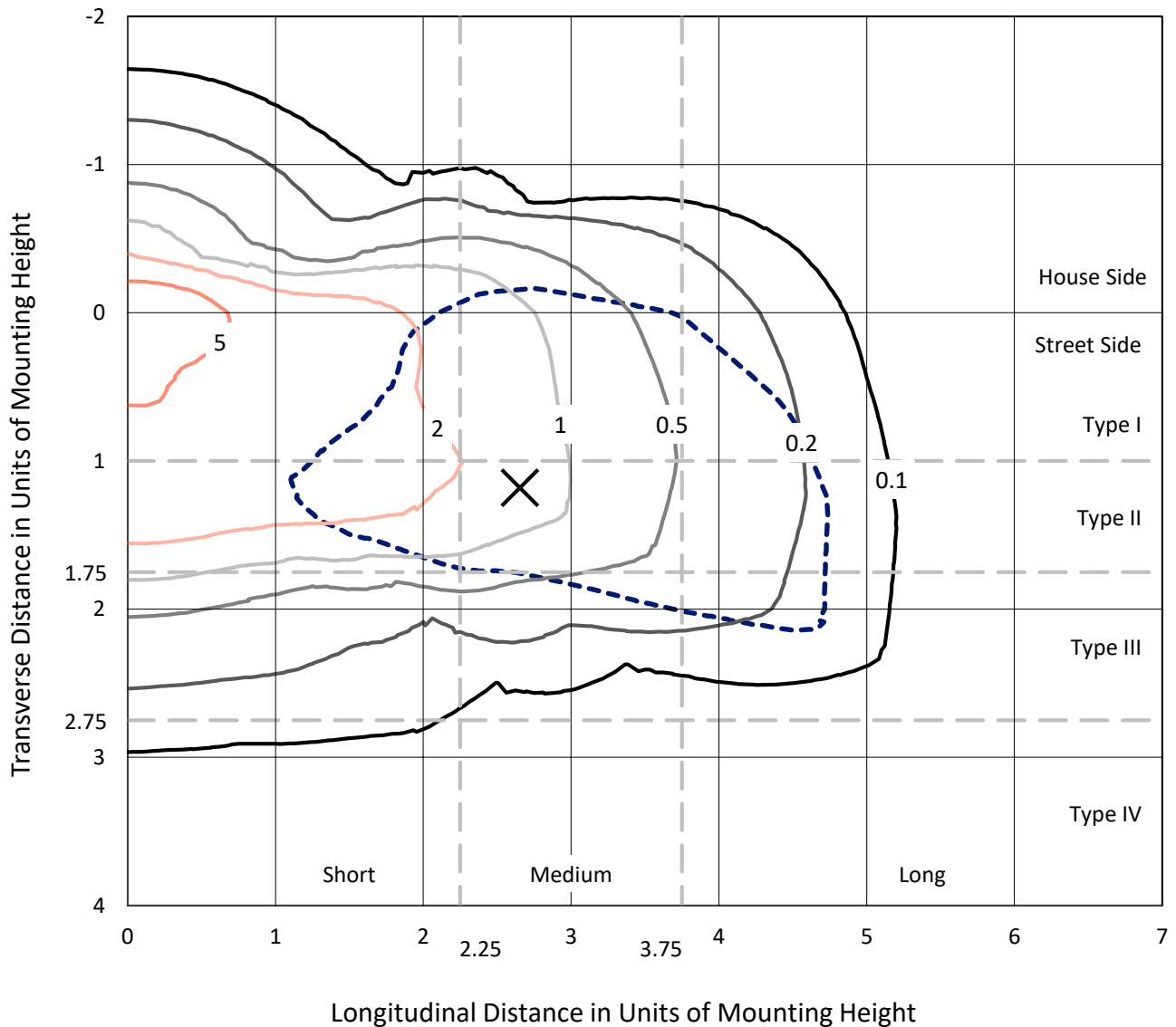
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P383193
 CATALOG NUMBER: GAN-SA5B-735-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

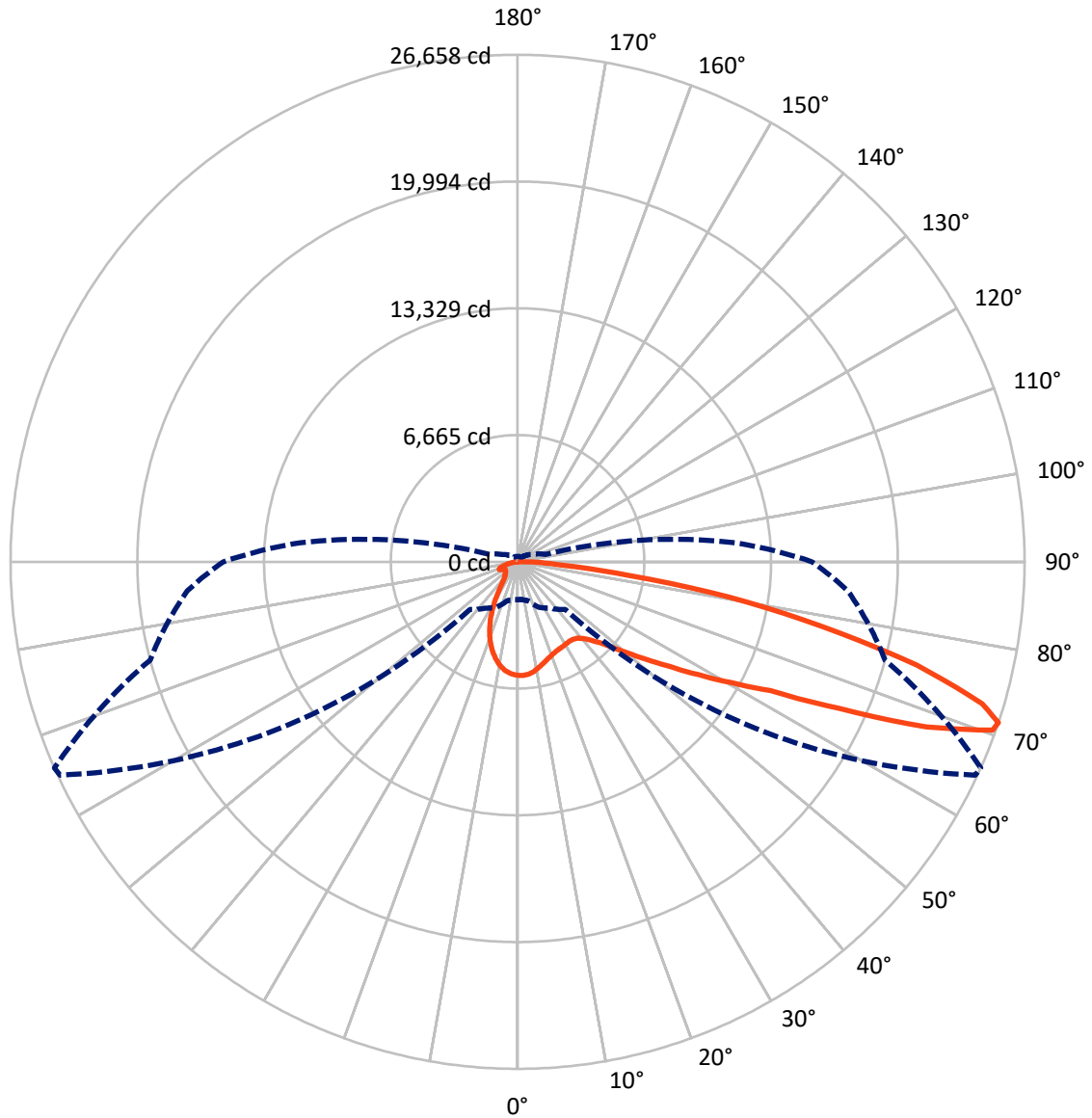
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type III - Medium - N/A

REPORT NUMBER: P383193
CATALOG NUMBER: GAN-SA5B-735-U-SL2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P383193
 CATALOG NUMBER: GAN-SA5B-735-U-SL2

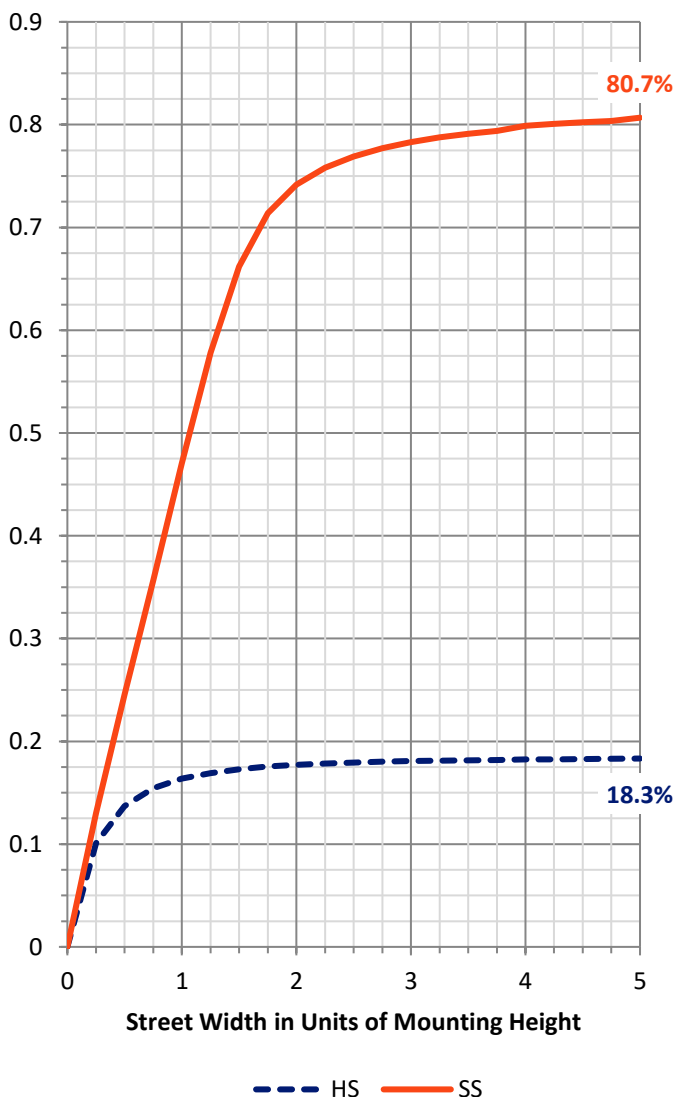
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4830.5	0.0	4830.5
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	21234.2	0.0	21234.2
	% Fixture	81.5	0.0	81.5
Total	Lumens	26064.7	0.0	26064.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	525.6	2.0
10°-20°	1260.6	4.8
20°-30°	1693.3	6.5
30°-40°	2227.5	8.5
40°-50°	3240.4	12.4
50°-60°	5061.8	19.4
60°-70°	6340.8	24.3
70°-80°	4836.6	18.6
80°-90°	878.3	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°	26064.7	100.0
0°-180°	26064.7	100.0

Coefficient of Utilization

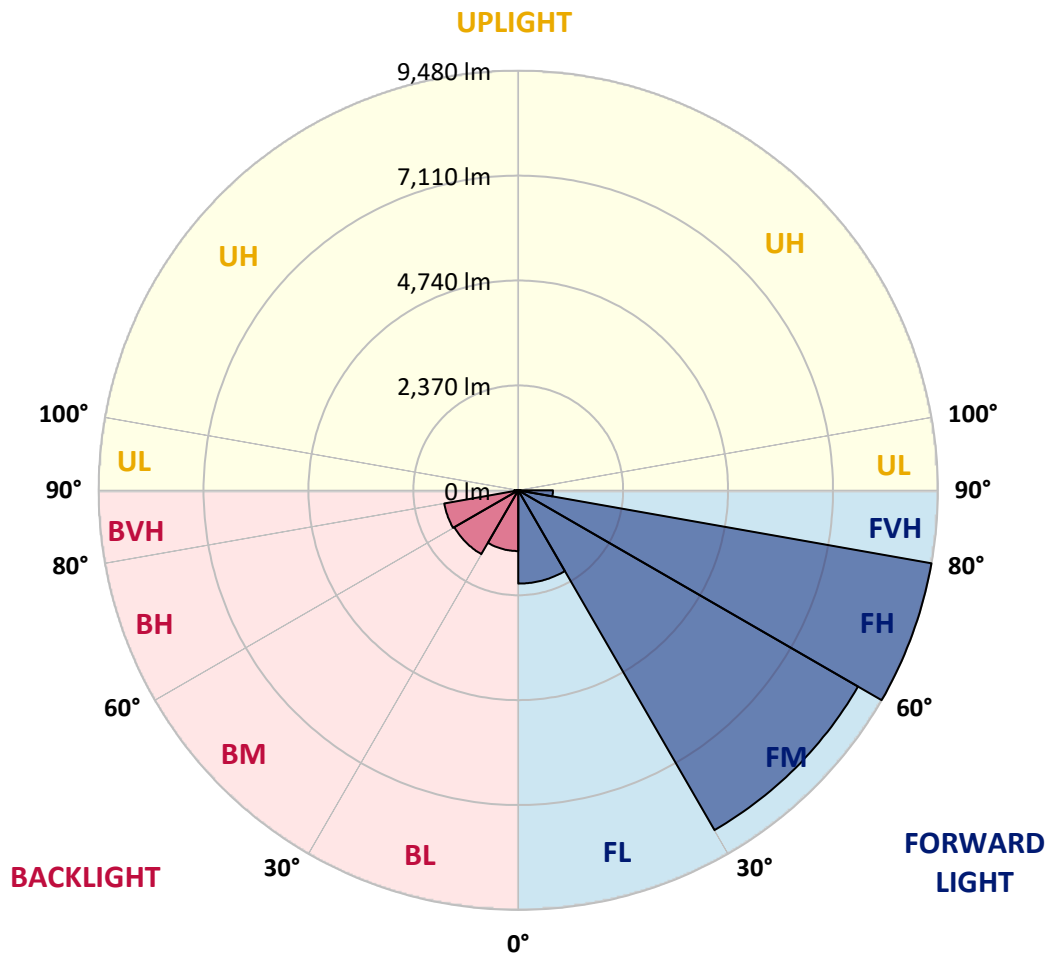


REPORT NUMBER: P383193
 CATALOG NUMBER: GAN-SA5B-735-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2107.7	8.1			
FM (30°-60°)	8863.3	34.0			
FH (60°-80°)	9480.0	36.4			G4/12000
FVH (80°-90°)	783.2	3.0			G5
BL (0°-30°)	1371.7	5.3	B3/2500		
BM (30°-60°)	1666.4	6.4	B2/2500		
BH (60°-80°)	1697.3	6.5	B3/2500		G3/2500
BVH (80°-90°)	95.1	0.4			G1/100
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





REPORT NUMBER: P383193

CATALOG NUMBER: GAN-SA5B-735-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5970.9	5970.9	5970.9	5970.9	5970.9	5970.9	5970.9	5970.9	5970.9	5970.9	5970.9
2.5°	5860.3	5851.2	5878.3	5906.1	5916.9	5934.9	5961.9	5977.2	5976.3	5979.0	5970.0
5°	5471.4	5459.8	5513.7	5557.9	5642.5	5737.9	5853.9	5936.8	5938.5	5985.3	5998.0
7.5°	5103.4	5095.3	5157.4	5228.5	5326.6	5472.4	5660.5	5838.7	5849.5	5976.3	6020.4
10°	4808.3	4806.4	4866.7	4944.1	5058.4	5221.3	5437.3	5698.3	5714.5	5933.1	6024.0
12.5°	4577.8	4581.4	4633.6	4721.8	4842.5	5012.5	5246.5	5540.8	5566.8	5864.7	6003.4
15°	4407.8	4422.1	4464.4	4553.6	4672.4	4845.2	5085.4	5395.0	5434.6	5788.3	5991.6
17.5°	4310.6	4326.8	4356.5	4430.3	4541.9	4708.3	4936.0	5275.3	5311.3	5729.8	5992.6
20°	4281.8	4295.3	4312.4	4357.4	4451.9	4603.1	4818.2	5167.3	5206.0	5682.9	6001.5
22.5°	4338.5	4348.4	4350.1	4346.6	4404.2	4527.4	4732.6	5088.1	5129.5	5652.4	6007.8
25°	4460.0	4473.5	4463.6	4430.3	4411.3	4487.0	4688.6	5035.9	5077.3	5629.8	5995.3
27.5°	4642.6	4644.4	4636.3	4593.2	4504.0	4491.5	4675.1	5005.3	5044.9	5603.7	5969.1
30°	4891.0	4902.7	4888.3	4829.8	4684.0	4563.5	4691.3	4975.6	5011.6	5570.5	5926.8
32.5°	5181.7	5210.5	5209.6	5148.4	4939.6	4724.5	4757.9	4957.6	4985.5	5535.3	5875.6
35°	5483.2	5522.8	5596.6	5570.5	5312.2	4979.2	4885.6	4986.4	5005.3	5530.9	5839.5
37.5°	5796.4	5836.0	5988.0	6058.2	5755.8	5343.6	5087.2	5088.1	5097.1	5585.7	5836.8
40°	6123.9	6166.2	6394.8	6577.5	6330.9	5805.3	5412.1	5300.5	5290.5	5720.7	5889.9
42.5°	6582.9	6620.7	6895.1	7128.2	6968.9	6396.6	5861.1	5628.0	5607.4	5985.3	6060.0
45°	7163.3	7195.7	7487.3	7736.5	7654.6	7071.5	6425.3	6078.9	6075.3	6426.3	6404.7
47.5°	7853.5	7878.8	8140.6	8381.8	8411.5	7848.1	7134.5	6774.6	6716.1	7031.0	6938.4
50°	8572.6	8600.4	8778.6	9037.8	9258.3	8887.5	8047.0	7626.8	7548.4	7829.2	7694.2
52.5°	9048.6	9085.5	9240.3	9568.8	10210.4	10026.8	9126.0	8659.9	8541.1	8796.6	8693.1
55°	8836.2	8919.0	9155.7	9682.1	10971.8	11767.2	10457.0	9864.8	9730.8	9943.2	9882.0
57.5°	7870.6	7984.0	8307.1	9119.8	11078.8	13300.7	12469.2	11284.0	11189.5	11128.4	11156.2
60°	6105.9	6214.8	6615.3	7674.5	10332.8	14420.2	15497.4	13033.5	12896.6	12318.0	12343.2
62.5°	4321.4	4266.5	4540.9	5315.8	8396.2	14551.6	18943.1	15373.2	14923.2	13574.2	13463.6
65°	3295.4	3282.9	3406.2	3652.8	5085.4	12979.4	20995.9	19305.9	18603.0	15051.9	14790.9
67.5°	2707.8	2685.4	2806.8	3165.9	3274.8	8373.7	21040.9	23868.4	23178.1	16891.4	16326.2
70°	2226.4	2201.2	2314.6	2778.1	3026.4	4246.6	17708.4	26540.3	26503.3	19220.3	17485.3
71°	1996.0	1978.0	2113.9	2628.6	2973.3	3539.3	15289.5	26547.4	26658.1	20008.6	17416.9
72.5°	1625.3	1631.5	1775.5	2339.8	2933.7	3125.4	11237.2	25310.1	25544.0	20760.1	16795.1
75°	1079.8	1085.3	1274.3	1799.8	2844.7	3057.9	6176.1	21237.9	21668.1	20310.2	15325.5
77.5°	725.3	723.5	852.2	1234.7	2478.4	3057.9	3621.2	15884.4	16356.8	16160.6	11814.9
80°	499.5	495.9	586.8	852.2	1876.3	3094.8	2799.7	11131.9	11275.0	8727.4	4801.9
82.5°	306.0	308.7	383.3	602.1	1277.0	2785.2	2643.1	6069.9	5914.2	2447.7	1199.6
85°	175.5	174.6	244.8	407.6	819.9	2350.6	2577.3	2612.4	2396.5	737.0	433.7
87.5°	63.0	67.5	131.3	225.9	469.8	1636.9	2186.8	1358.8	1224.8	332.9	196.2
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: P383193
 CATALOG NUMBER: GAN-SA5B-735-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5970.9	5970.9	5970.9	5970.9	5970.9	5970.9	5970.9	5970.9	5970.9	5970.9	5970.9
2.5°	5963.7	5969.1	5962.8	5926.8	5896.2	5846.8	5818.8	5780.2	5768.4	5763.0	5777.5
5°	5986.2	5988.0	5934.9	5840.4	5734.2	5609.1	5519.1	5408.5	5356.3	5333.8	5348.2
7.5°	6006.9	5998.8	5882.7	5701.8	5505.6	5287.9	5094.4	4917.1	4813.6	4771.3	4774.9
10°	6009.6	5975.4	5789.1	5509.3	5205.1	4885.6	4588.6	4315.1	4142.3	4029.8	4064.0
12.5°	5981.7	5924.1	5651.4	5260.0	4837.9	4402.4	4001.0	3590.7	3344.1	3229.8	3233.4
15°	5960.1	5855.7	5482.3	4966.6	4399.7	3822.8	3274.8	2792.4	2529.6	2412.7	2357.7
17.5°	5942.2	5781.9	5286.1	4636.3	3882.2	3150.6	2491.9	2061.7	1917.7	1883.5	1869.2
20°	5916.9	5703.7	5067.4	4253.9	3292.7	2398.3	1819.6	1607.2	1608.1	1647.7	1653.1
22.5°	5881.8	5614.5	4834.4	3824.7	2660.1	1746.7	1426.4	1365.2	1427.2	1502.9	1516.4
25°	5829.6	5509.3	4575.1	3350.4	2028.4	1342.6	1218.5	1215.8	1291.4	1370.6	1382.2
27.5°	5755.8	5371.6	4287.2	2841.0	1494.8	1141.1	1091.6	1110.5	1166.3	1223.9	1228.3
30°	5656.8	5211.4	3969.5	2303.8	1171.7	1016.0	1010.6	1027.7	1061.9	1102.4	1106.0
32.5°	5547.9	5048.5	3630.2	1783.6	1003.4	948.5	953.9	962.0	978.2	994.4	998.0
35°	5449.0	4882.1	3282.9	1355.3	923.3	904.4	900.8	899.0	900.8	895.4	896.3
37.5°	5385.1	4744.4	2921.1	1079.0	877.4	865.7	854.9	841.4	826.1	817.2	818.9
40°	5361.7	4641.7	2554.9	932.3	839.6	831.5	810.8	782.0	764.1	758.7	758.7
42.5°	5424.7	4588.6	2201.2	858.5	808.1	794.6	760.4	727.2	713.7	712.7	711.8
45°	5617.2	4610.2	1864.6	818.0	779.3	753.2	708.3	680.3	671.4	673.1	672.2
47.5°	5962.8	4746.1	1576.6	791.0	750.5	716.4	666.0	643.4	632.6	632.6	633.5
50°	6550.5	5063.8	1347.2	768.5	726.2	682.2	635.3	607.5	593.0	592.2	592.2
52.5°	7406.3	5632.5	1204.1	749.6	699.2	651.5	604.8	569.6	552.5	549.0	547.2
55°	8478.9	6447.9	1164.5	737.0	663.3	618.3	567.9	532.8	513.8	505.7	504.8
57.5°	9678.6	7439.6	1242.8	721.8	626.4	578.7	527.3	494.1	474.3	464.4	463.4
60°	10892.5	8522.2	1562.2	700.2	595.7	535.5	486.0	455.3	435.6	424.8	422.9
62.5°	12108.3	9663.2	2214.7	698.3	574.1	494.1	443.7	417.5	398.7	387.0	384.3
65°	13479.8	10912.3	2956.2	746.0	566.9	456.3	400.5	379.8	363.6	352.8	351.8
67.5°	15054.6	12322.5	2885.1	844.1	591.3	422.1	359.9	343.7	332.1	323.1	322.1
70°	15793.5	12102.0	1793.5	913.4	625.4	388.7	321.3	309.6	300.6	294.3	291.6
71°	15483.9	11491.0	1503.8	905.3	621.8	374.4	306.0	297.0	287.9	282.5	279.8
72.5°	14639.7	10479.4	1254.5	842.3	581.4	348.3	286.2	277.1	269.0	262.8	261.0
75°	13137.0	9359.1	1004.3	673.1	463.4	294.3	251.1	241.2	234.8	231.3	227.7
77.5°	9657.0	6679.1	776.6	531.8	341.0	240.2	214.2	207.0	200.7	195.3	192.6
80°	3699.5	2587.3	522.9	396.8	250.2	189.8	172.8	169.2	162.9	159.3	159.3
82.5°	996.2	773.0	279.0	240.2	167.4	138.6	132.3	130.5	125.1	117.9	118.8
85°	403.2	341.0	156.6	132.3	102.6	81.9	89.1	90.0	83.7	74.7	75.5
87.5°	177.3	144.9	87.3	58.5	45.0	31.5	40.5	40.5	36.9	30.6	27.9
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)