

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: P653819

Luminaire Tested: **GLAN-SA4A-840-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P653819  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA4A-840-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12871.5 lumens  
Efficiency: N/A  
Efficacy: 106.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

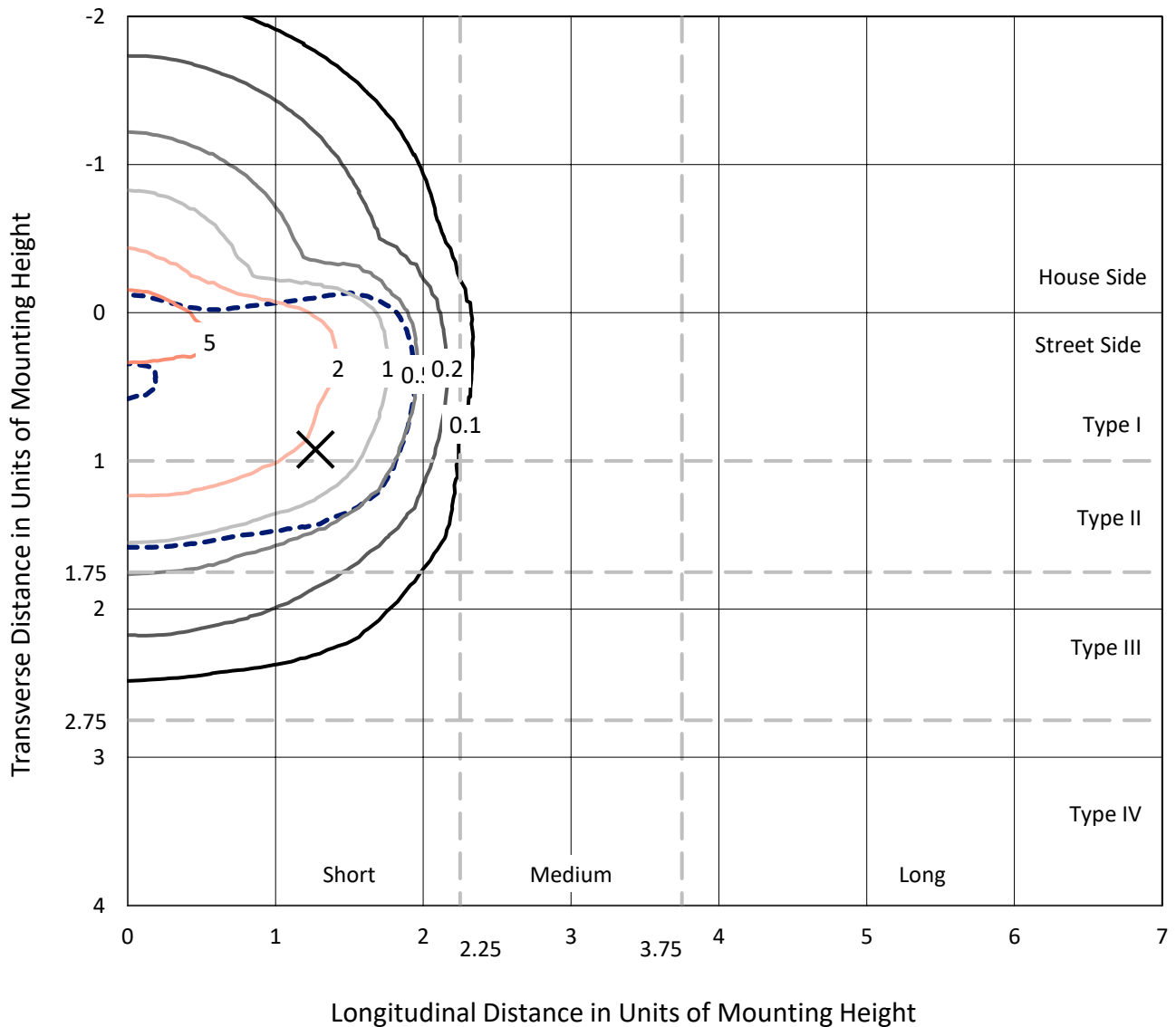
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

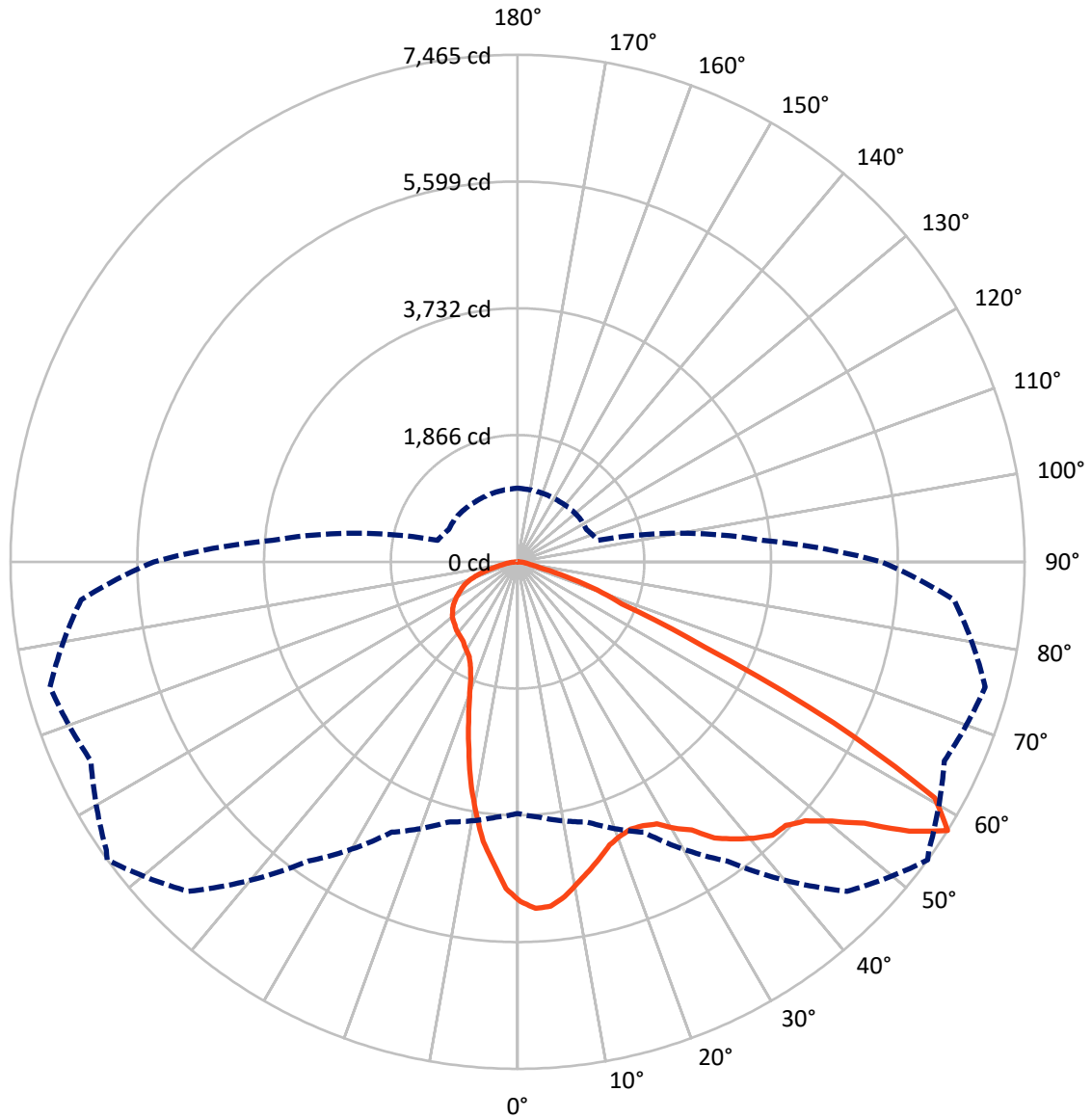
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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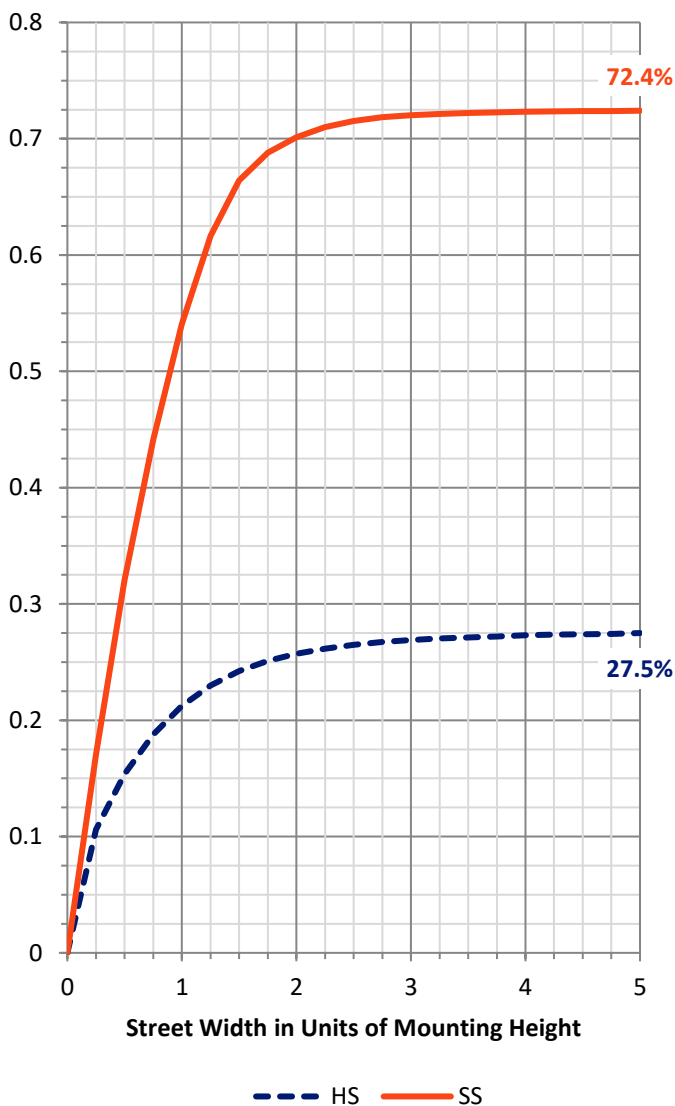
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3561.0	0.0	3561.0
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	9310.5	0.0	9310.5
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	12871.5	0.0	12871.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	431.5	3.4
10°-20°	999.0	7.8
20°-30°	1403.6	10.9
30°-40°	1962.2	15.2
40°-50°	2656.5	20.6
50°-60°	3235.7	25.1
60°-70°	1685.3	13.1
70°-80°	431.8	3.4
80°-90°	65.9	0.5
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°	12871.5	100.0
0°-180°	12871.5	100.0

**Coefficient of Utilization**



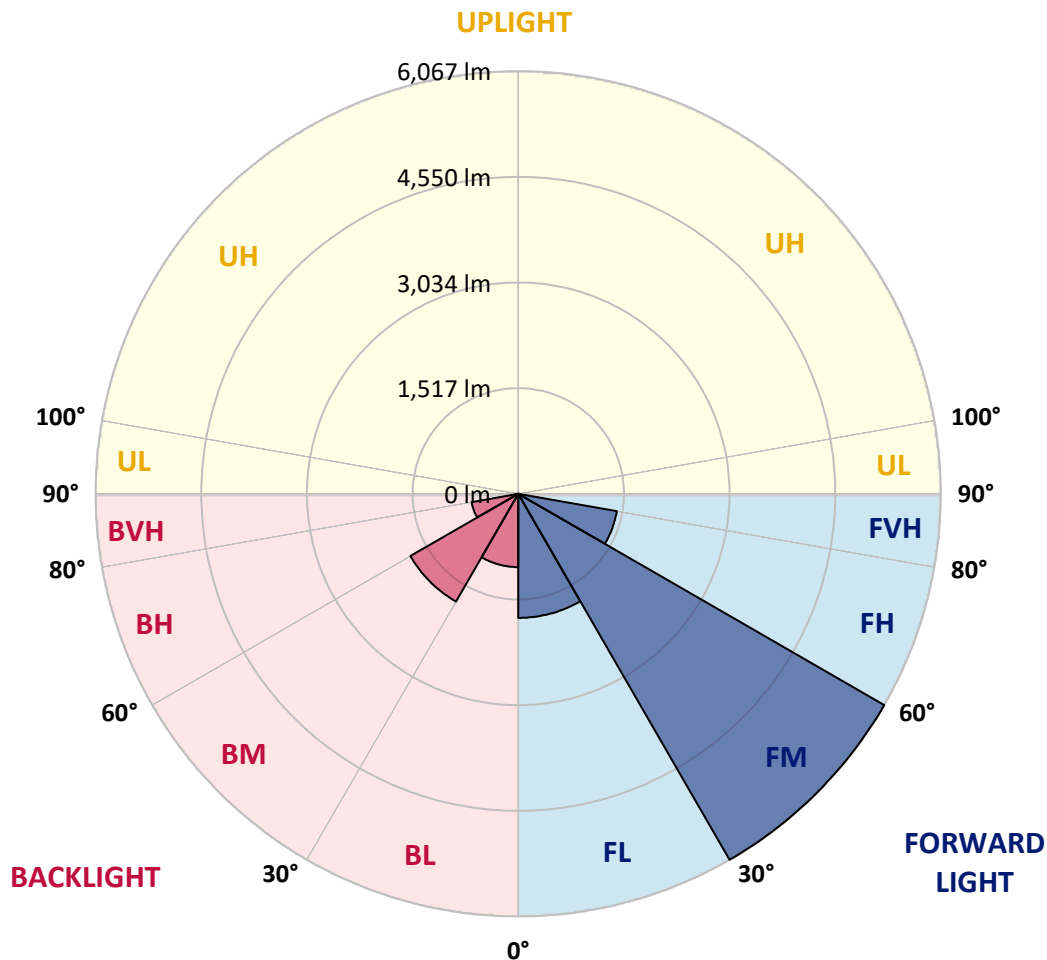
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1781.6	13.8			
FM (30°-60°)	6067.2	47.1			
FH (60°-80°)	1436.8	11.2			G1/1800
FVH (80°-90°)	24.9	0.2			G1/100
BL (0°-30°)	1052.4	8.2	B3/2500		
BM (30°-60°)	1787.2	13.9	B2/2500		
BH (60°-80°)	680.3	5.3	B2/1000		G2/1000
BVH (80°-90°)	41.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5003.0	5003.0	5003.0	5003.0	5003.0	5003.0	5003.0	5003.0	5003.0	5003.0	5003.0
2.5°	5145.3	5125.5	5128.8	5155.2	5122.1	5108.9	5108.9	5044.4	5049.4	5004.6	4993.1
5°	5026.2	4979.8	5011.3	5051.0	5057.6	5070.8	5092.3	5075.8	5029.5	4981.5	4903.7
7.5°	4715.2	4756.5	4768.0	4796.2	4855.8	4910.3	4978.2	4931.9	4930.2	4882.3	4835.9
10°	4442.2	4417.4	4480.2	4521.6	4620.9	4711.8	4816.1	4811.1	4835.9	4781.3	4701.9
12.5°	4170.9	4151.0	4180.8	4275.1	4414.0	4546.4	4670.5	4624.2	4756.5	4746.6	4576.1
15°	3883.0	3897.9	3940.8	4028.6	4210.6	4369.3	4526.5	4528.2	4645.7	4685.4	4457.0
17.5°	3681.1	3664.6	3719.2	3849.8	4012.0	4202.2	4380.9	4417.4	4597.7	4620.9	4420.6
20°	3530.6	3553.7	3624.9	3691.1	3878.0	4107.9	4309.8	4323.1	4587.7	4650.6	4362.8
22.5°	3494.2	3480.9	3504.1	3611.6	3765.5	4015.3	4271.8	4321.4	4586.1	4640.7	4253.5
25°	3456.1	3499.1	3497.5	3605.0	3717.5	3940.8	4303.1	4357.8	4673.8	4691.9	4268.4
27.5°	3542.1	3537.2	3583.5	3591.7	3730.8	3960.7	4369.3	4410.7	4819.4	4804.5	4280.0
30°	3628.2	3603.3	3631.5	3729.1	3793.6	4074.9	4551.3	4548.0	5008.0	4998.1	4316.4
32.5°	3734.0	3722.4	3740.7	3826.7	3935.9	4227.1	4705.2	4802.8	5199.9	5262.7	4442.2
35°	3753.9	3801.9	3844.9	3960.7	4116.2	4473.6	4994.7	5075.8	5421.6	5618.5	4682.0
37.5°	3879.6	3897.9	3998.8	4203.9	4346.2	4802.8	5178.4	5229.7	5623.4	5846.8	4935.2
40°	4013.7	4035.2	4187.3	4402.5	4597.7	5017.9	5350.4	5367.0	5687.9	6022.1	5100.6
42.5°	4195.7	4215.5	4366.1	4635.8	4897.1	5201.5	5502.7	5520.8	5683.0	6224.0	5363.6
45°	4384.2	4432.2	4609.3	4915.3	5150.3	5416.6	5537.4	5611.8	5729.3	6404.3	5577.1
47.5°	4649.0	4693.6	4839.2	5138.7	5413.3	5605.2	5697.9	5770.7	5840.2	6561.5	5714.4
50°	4930.2	4938.5	5115.5	5386.9	5588.7	5818.6	5997.3	6022.1	5985.7	6743.5	5947.7
52.5°	5137.0	5163.5	5300.8	5565.5	5866.6	6149.6	6394.4	6420.9	6349.7	6811.3	6027.1
55°	4794.5	4779.7	5003.0	5355.4	6053.6	6642.6	6998.2	7018.1	6614.5	7021.4	6286.8
57.5°	3706.0	3777.1	3967.3	4392.5	5378.5	6861.0	7464.8	7393.7	6932.1	7127.3	6452.3
60°	2693.4	2676.9	2804.2	3088.8	4053.4	5913.0	7057.8	7130.6	6672.3	6424.1	5320.7
62.5°	2193.7	2170.6	2180.5	2190.5	2615.7	3924.3	5224.7	5223.0	5138.7	4617.5	3588.5
65°	1753.7	1808.3	1813.3	1887.7	1942.3	2344.4	3027.6	3189.7	2777.8	2278.2	1652.8
67.5°	1321.9	1302.0	1368.2	1632.9	1735.5	1692.5	1652.8	1671.0	1187.9	857.0	807.4
70°	779.3	770.9	850.4	1138.2	1429.4	1345.1	1245.8	1247.5	815.6	598.9	666.7
72.5°	426.8	425.2	441.7	577.4	812.3	843.8	747.8	770.9	486.4	484.8	521.2
75°	238.3	233.3	228.3	254.8	292.8	309.4	316.0	319.3	334.2	373.9	388.8
77.5°	87.7	84.4	84.4	97.6	124.0	155.5	196.9	200.2	236.6	271.3	286.2
80°	29.8	33.1	44.7	61.2	82.8	110.8	134.0	137.3	167.1	190.2	195.2
82.5°	18.2	19.8	29.8	43.0	59.5	77.8	99.2	100.9	124.0	138.9	145.6
85°	8.2	9.9	16.6	26.5	38.0	51.3	53.0	53.0	51.3	53.0	49.6
87.5°	0.0	0.0	3.3	3.3	3.3	5.0	6.6	5.0	8.2	9.9	9.9
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°	5003.0	5003.0	5003.0	5003.0	5003.0	5003.0	5003.0	5003.0	5003.0	5003.0	5003.0
2.5°	4958.4	4940.1	4883.9	4834.2	4819.4	4753.2	4655.6	4667.1	4596.0	4629.1	4594.4
5°	4890.5	4829.3	4685.4	4624.2	4463.7	4390.9	4341.2	4217.1	4159.2	4147.6	4098.0
7.5°	4716.7	4678.7	4498.4	4333.0	4162.5	4017.0	3830.0	3702.6	3611.6	3586.8	3514.0
10°	4579.5	4495.1	4245.3	3993.8	3750.6	3497.5	3254.2	3064.0	2971.3	2863.9	2827.4
12.5°	4443.8	4316.4	3978.9	3656.3	3342.0	3022.6	2728.1	2496.5	2294.7	2246.7	2230.2
15°	4359.4	4137.7	3740.7	3351.9	2905.2	2488.3	2193.7	2041.6	1917.5	1866.2	1902.6
17.5°	4248.6	3990.5	3512.4	2994.5	2503.2	2119.3	1872.8	1778.5	1733.8	1738.8	1723.9
20°	4109.6	3851.5	3212.9	2670.3	2144.1	1838.1	1697.5	1662.7	1669.3	1680.9	1675.9
22.5°	4010.3	3682.7	2996.1	2339.4	1853.0	1682.6	1624.6	1599.8	1621.4	1631.3	1623.0
25°	3934.3	3538.8	2733.2	2046.6	1684.2	1594.9	1568.4	1566.8	1599.8	1613.0	1604.8
27.5°	3864.7	3404.8	2471.7	1823.2	1571.7	1527.0	1518.8	1538.6	1560.1	1573.3	1584.9
30°	3823.4	3302.3	2226.9	1636.2	1515.5	1494.0	1479.1	1497.2	1508.8	1522.0	1515.5
32.5°	3863.1	3229.4	1990.3	1530.4	1469.1	1447.6	1467.5	1455.9	1475.8	1487.3	1469.1
35°	3987.2	3164.9	1821.5	1474.1	1416.2	1424.5	1427.8	1422.8	1431.0	1421.1	1442.7
37.5°	4109.6	3141.8	1666.0	1426.1	1391.4	1391.4	1388.1	1378.1	1394.7	1391.4	1401.3
40°	4265.1	3156.7	1533.6	1374.9	1368.2	1364.9	1351.7	1350.1	1343.4	1345.1	1348.4
42.5°	4400.8	3189.7	1457.5	1341.7	1346.7	1353.3	1328.5	1308.7	1316.9	1300.4	1300.4
45°	4544.8	3219.5	1389.8	1318.6	1313.6	1312.0	1292.1	1280.5	1273.9	1275.5	1290.4
47.5°	4771.4	3262.6	1338.5	1287.2	1290.4	1265.6	1260.7	1245.8	1252.4	1262.3	1264.0
50°	4931.9	3353.6	1298.8	1250.7	1262.3	1245.8	1216.0	1209.4	1209.4	1225.9	1222.6
52.5°	5044.4	3480.9	1260.7	1211.0	1216.0	1202.8	1192.9	1178.0	1168.1	1191.2	1202.8
55°	5388.5	3692.7	1250.7	1178.0	1176.3	1163.1	1144.9	1130.0	1125.0	1128.3	1151.5
57.5°	5355.4	3626.5	1219.3	1120.0	1116.8	1098.5	1080.3	1075.4	1073.7	1077.1	1083.6
60°	4347.9	2678.5	1088.6	1053.9	1048.9	1045.6	1027.4	1007.5	997.6	1007.5	999.3
62.5°	2877.1	1793.4	959.6	974.5	977.7	969.5	939.7	919.9	923.2	934.8	916.5
65°	1412.9	1053.9	870.3	910.0	913.2	890.1	861.9	838.8	827.2	837.1	828.9
67.5°	807.4	805.7	797.4	838.8	837.1	814.0	769.3	749.5	729.6	732.9	728.0
70°	684.9	698.2	714.7	739.5	737.9	711.4	658.5	643.5	615.4	612.2	603.8
72.5°	539.3	562.5	598.9	617.1	602.2	569.1	534.4	509.6	484.8	469.9	474.8
75°	400.4	433.5	453.3	464.9	441.7	423.5	395.4	365.7	335.8	322.6	317.6
77.5°	291.2	301.1	319.3	327.6	312.7	294.5	278.0	248.2	220.0	201.8	196.9
80°	203.5	210.1	223.4	223.4	223.4	215.0	193.6	163.8	145.6	129.0	125.7
82.5°	142.3	148.9	162.1	155.5	153.9	143.9	130.7	107.6	87.7	76.1	72.8
85°	49.6	54.6	66.2	79.4	84.4	82.8	74.4	59.5	46.3	38.0	34.7
87.5°	11.6	11.6	13.2	11.6	11.6	13.2	11.6	11.6	11.6	8.2	6.6
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)