

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: P318352

Luminaire Tested: **GAN-SA8A-730-U-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318352  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA8A-730-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34021 lumens  
Efficiency: N/A  
Efficacy: 132.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

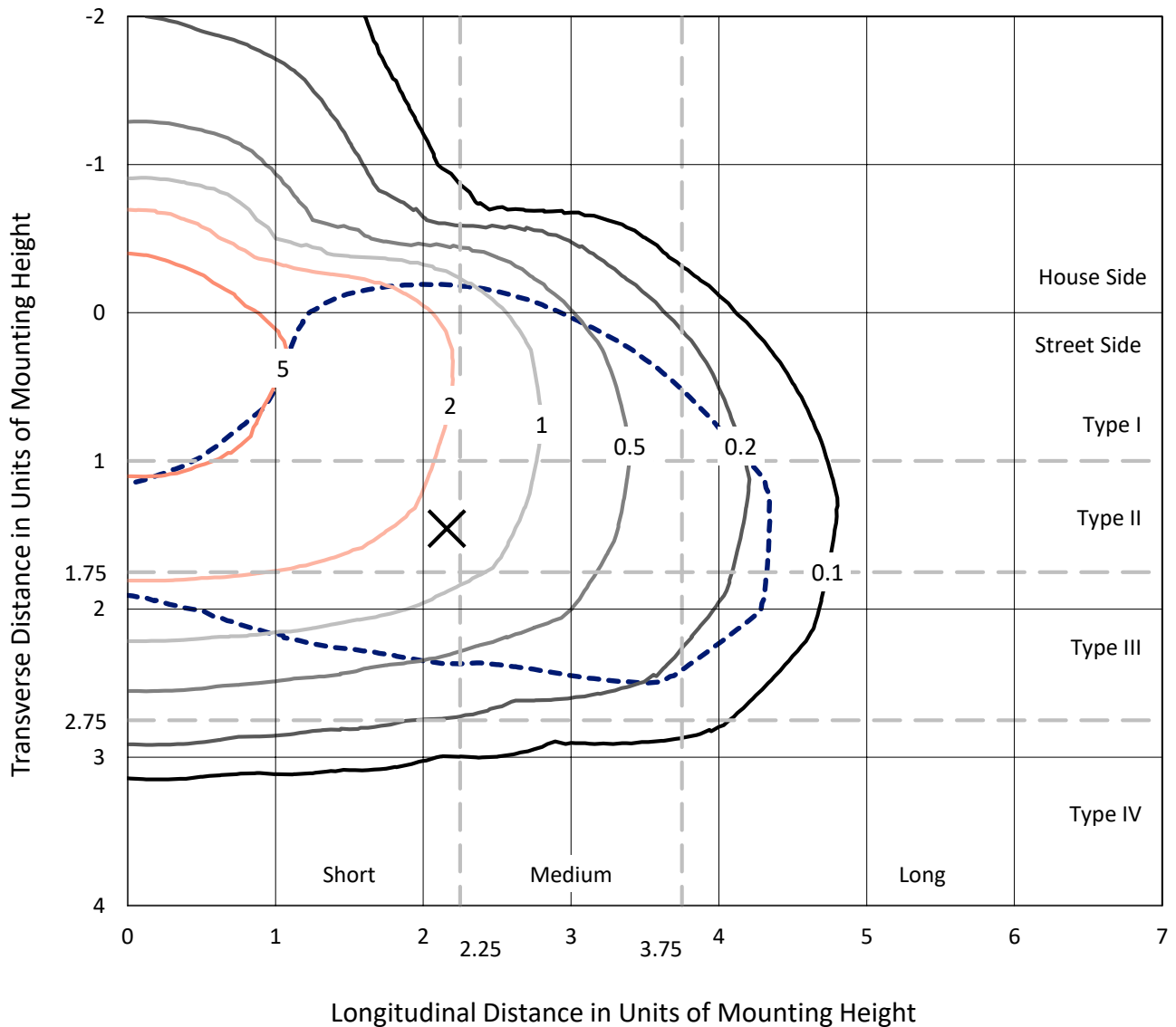
Input Watts (W): 257  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

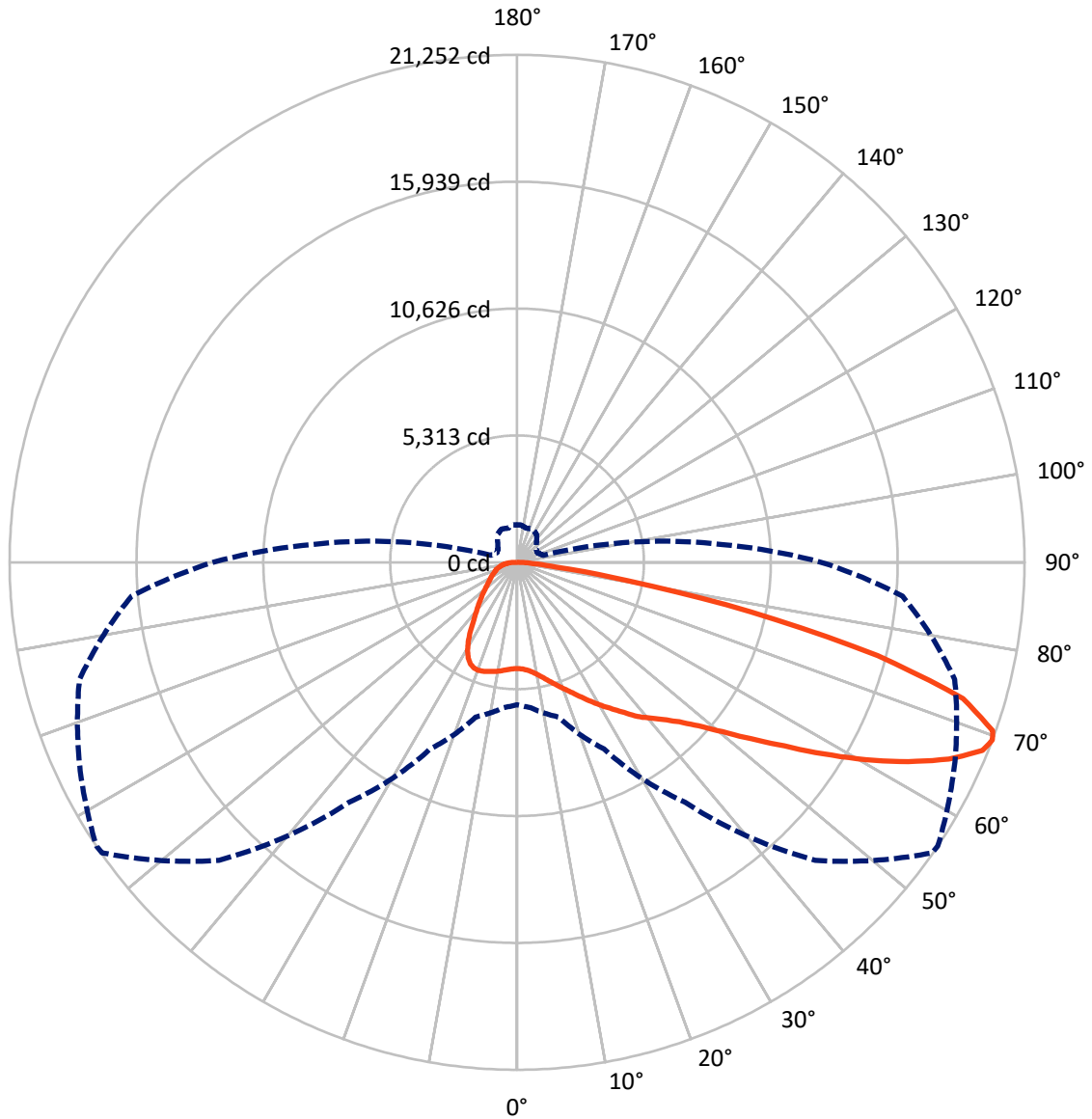
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7576.4	0.0	7576.4
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	26444.6	0.0	26444.6
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	34021.0	0.0	34021.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	436.8	1.3
10°-20°	1404.7	4.1
20°-30°	2452.1	7.2
30°-40°	3522.3	10.4
40°-50°	4874.7	14.3
50°-60°	7142.1	21.0
60°-70°	8707.5	25.6
70°-80°	4814.1	14.2
80°-90°	666.8	2.0
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°	34021.0	100.0
0°-180°	34021.0	100.0

**Coefficient of Utilization**



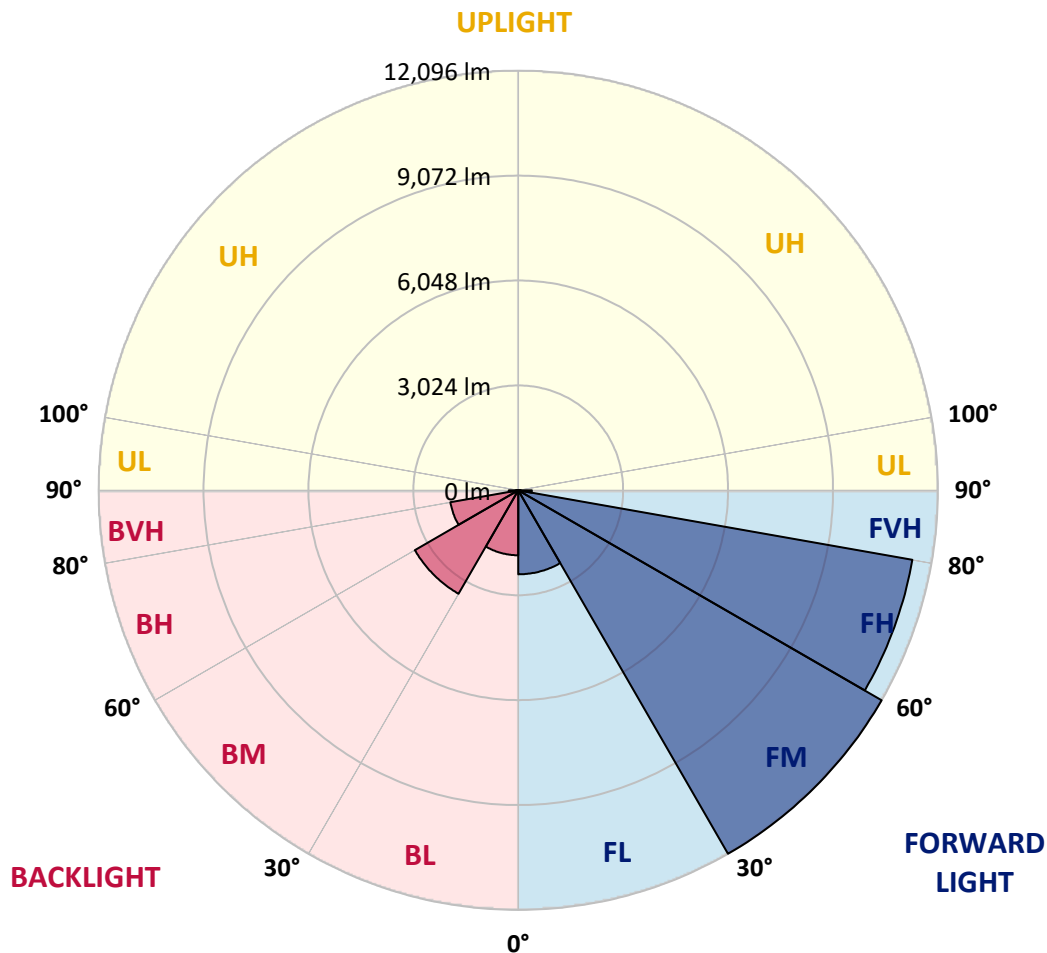
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2421.3	7.1			
FM (30°-60°)	12095.7	35.6			
FH (60°-80°)	11534.8	33.9			G4/12000
FVH (80°-90°)	392.7	1.2			G3/500
BL (0°-30°)	1872.3	5.5	B3/2500		
BM (30°-60°)	3443.3	10.1	B3/5000		
BH (60°-80°)	1986.8	5.8	B3/2500		G3/2500
BVH (80°-90°)	274.0	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4447.7	4447.7	4447.7	4447.7	4447.7	4447.7	4447.7	4447.7	4447.7	4447.7	4447.7
2.5°	4475.9	4480.5	4477.0	4486.4	4475.9	4482.9	4477.0	4477.0	4473.5	4463.0	4451.2
5°	4546.2	4555.6	4549.7	4559.1	4546.2	4548.5	4538.0	4538.0	4527.4	4505.2	4481.7
7.5°	4656.3	4666.9	4662.2	4671.6	4654.0	4654.0	4639.9	4638.8	4617.7	4581.3	4554.4
10°	4787.6	4801.7	4797.0	4811.1	4797.0	4801.7	4787.6	4787.6	4759.5	4707.9	4673.9
12.5°	4978.6	4996.2	4983.3	4982.2	4976.3	4985.7	4974.0	4971.6	4945.8	4875.5	4828.6
15°	5234.1	5252.9	5225.9	5223.6	5190.8	5187.3	5187.3	5183.7	5167.3	5083.0	5005.6
17.5°	5528.3	5534.2	5510.7	5473.2	5431.0	5404.1	5400.6	5409.9	5409.9	5311.5	5188.4
20°	5816.6	5827.2	5808.4	5766.2	5712.3	5672.5	5644.3	5663.1	5661.9	5544.7	5370.1
22.5°	6130.7	6155.3	6127.2	6073.3	6010.0	5965.5	5916.2	5932.7	5933.8	5789.7	5548.2
25°	6537.4	6515.1	6497.6	6421.4	6331.1	6285.4	6239.7	6256.1	6251.4	6053.4	5732.2
27.5°	6897.2	6901.9	6878.5	6797.6	6693.3	6592.5	6590.1	6600.7	6583.1	6327.6	5905.7
30°	7315.6	7318.0	7285.1	7212.5	7098.8	6968.7	6938.2	6955.8	6918.3	6587.8	6088.5
32.5°	7731.7	7743.4	7707.1	7619.2	7527.7	7369.5	7308.6	7320.3	7226.5	6853.8	6277.2
35°	8096.2	8112.6	8100.9	8042.3	7942.6	7806.7	7734.0	7727.0	7611.0	7179.7	6526.9
37.5°	8467.7	8482.9	8470.0	8420.8	8381.0	8236.8	8198.1	8198.1	7996.5	7512.5	6844.5
40°	8849.8	8873.2	8858.0	8790.0	8756.0	8690.4	8597.8	8575.5	8357.5	7912.2	7362.5
42.5°	9204.9	9235.3	9296.3	9256.4	9187.3	9196.7	9010.3	8998.6	8839.2	8502.8	8013.0
45°	9708.8	9753.4	9856.5	9826.0	9812.0	9760.4	9538.9	9528.3	9467.4	9297.5	8820.5
47.5°	10258.5	10319.4	10505.8	10511.7	10662.8	10565.6	10264.4	10228.0	10242.1	10249.1	9806.1
50°	10764.8	10831.6	11137.5	11281.7	11637.9	11659.0	11177.3	11144.5	11199.6	11361.4	10954.7
52.5°	11169.1	11253.5	11635.6	12081.0	12691.6	12865.0	12301.3	12276.7	12317.7	12596.6	12253.2
55°	11465.7	11557.1	11973.1	12784.2	13759.3	14065.2	13595.2	13571.7	13597.5	13952.6	13665.5
57.5°	11534.8	11557.1	12160.7	13257.6	14660.5	15395.4	15178.6	15131.7	15005.1	15314.5	15224.3
60°	11210.2	11299.2	12006.0	13424.1	15357.9	16706.8	16833.4	16774.8	16419.7	16672.8	16600.2
62.5°	10551.5	10710.9	11428.2	13170.9	15630.9	17778.0	18456.6	18386.3	17774.5	17938.6	17589.4
65°	9475.6	9543.6	10297.2	12297.8	15284.0	18463.7	19904.0	19868.9	19098.9	18842.2	17772.2
67.5°	7551.2	7678.9	8318.8	10473.0	13864.7	18382.8	21023.3	21019.8	19963.8	19177.4	17124.1
69°	5965.5	6097.9	6707.3	8627.1	12268.5	17643.3	21210.8	21251.8	20207.6	18973.5	16198.2
70°	4756.0	4909.5	5327.9	7266.4	10851.5	16668.2	21054.9	21128.8	20160.7	18637.1	15343.8
72.5°	2024.0	2148.3	2446.0	3745.7	6613.6	12446.6	19251.2	19530.2	19074.3	17057.3	12681.0
75°	883.7	922.4	1057.1	1527.1	2935.9	6774.2	15081.3	15597.0	16309.5	14417.9	9446.3
77.5°	646.9	663.4	737.2	896.6	1317.3	2558.5	9698.3	9998.3	11762.2	10491.7	5794.4
80°	500.4	512.2	569.6	658.7	860.2	1034.9	4423.1	4681.0	6613.6	5388.8	2413.1
82.5°	398.5	406.7	446.5	485.2	594.2	627.0	1468.5	1629.1	2441.3	1488.4	638.7
85°	370.4	379.7	393.8	353.9	380.9	368.0	635.2	664.5	737.2	584.8	267.2
87.5°	167.6	198.1	390.3	275.4	202.8	161.7	260.2	271.9	305.9	307.1	118.4
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°	4447.7	4447.7	4447.7	4447.7	4447.7	4447.7	4447.7	4447.7	4447.7	4447.7	4447.7
2.5°	4458.3	4454.8	4460.6	4446.6	4464.1	4463.0	4457.1	4459.5	4471.2	4470.0	4471.2
5°	4485.2	4482.9	4489.9	4479.4	4500.5	4507.5	4508.7	4519.2	4532.1	4535.6	4535.6
7.5°	4553.2	4553.2	4556.7	4542.7	4556.7	4555.6	4549.7	4560.2	4573.1	4574.3	4573.1
10°	4670.4	4671.6	4665.7	4629.4	4617.7	4586.0	4556.7	4557.9	4574.3	4587.2	4590.7
12.5°	4818.1	4813.4	4787.6	4720.8	4671.6	4607.1	4576.7	4575.5	4591.9	4602.4	4606.0
15°	4986.9	4974.0	4907.2	4798.2	4711.4	4648.1	4598.9	4587.2	4577.8	4566.1	4567.3
17.5°	5146.2	5116.9	5005.6	4854.4	4763.0	4678.6	4583.7	4507.5	4454.8	4424.3	4414.9
20°	5308.0	5250.6	5090.0	4907.2	4791.1	4637.6	4454.8	4300.1	4204.0	4159.4	4151.2
22.5°	5455.7	5363.1	5168.5	4962.2	4768.9	4499.3	4212.2	3987.1	3853.5	3793.8	3798.4
25°	5599.8	5470.9	5250.6	5000.9	4656.3	4255.5	3874.6	3598.0	3443.3	3376.5	3374.2
27.5°	5726.4	5579.9	5339.6	4969.3	4446.6	3908.6	3475.0	3205.4	3076.5	3019.1	3009.7
30°	5871.7	5717.0	5458.0	4848.6	4139.5	3507.8	3084.7	2894.8	2803.4	2746.0	2735.4
32.5°	6048.7	5903.4	5555.3	4629.4	3746.9	3089.4	2780.0	2647.5	2564.3	2499.9	2488.2
35°	6306.5	6149.5	5579.9	4315.3	3315.6	2758.9	2556.1	2420.2	2307.7	2224.5	2216.2
37.5°	6630.0	6457.7	5523.6	3908.6	2897.2	2544.4	2369.8	2202.2	2055.7	1938.5	1919.7
40°	7096.4	6836.3	5367.8	3439.8	2588.9	2379.2	2188.1	1997.1	1815.4	1678.3	1651.3
42.5°	7656.7	7280.5	5128.7	2973.4	2362.7	2211.6	2007.6	1770.9	1597.4	1500.2	1486.1
45°	8369.2	7742.2	4797.0	2565.5	2140.1	2044.0	1813.1	1595.1	1487.3	1415.8	1404.1
47.5°	9182.6	8260.2	4448.9	2233.8	1951.4	1886.9	1657.2	1516.6	1431.0	1374.8	1364.2
50°	10182.3	8845.1	4079.7	1961.9	1761.5	1698.2	1583.4	1473.2	1405.2	1361.9	1351.3
52.5°	11309.8	9504.9	3813.7	1747.4	1604.5	1558.8	1544.7	1449.8	1394.7	1361.9	1351.3
55°	12524.0	10176.5	3526.5	1567.0	1468.5	1481.4	1518.9	1452.1	1414.6	1374.8	1359.5
57.5°	13739.3	10870.3	3206.6	1414.6	1360.7	1424.0	1501.3	1456.8	1425.1	1386.5	1372.4
60°	14700.4	11309.8	2710.8	1286.9	1275.1	1360.7	1459.1	1421.6	1380.6	1381.8	1379.4
62.5°	15149.3	11286.3	2163.5	1173.2	1189.6	1275.1	1391.2	1366.6	1332.6	1378.3	1381.8
65°	14897.3	10723.8	1684.2	1070.0	1098.2	1186.1	1320.8	1339.6	1351.3	1439.2	1450.9
67.5°	13840.1	9629.1	1304.4	979.8	1015.0	1125.1	1327.9	1459.1	1474.4	1567.0	1565.8
69°	12746.7	8602.5	1133.3	932.9	973.9	1140.4	1419.3	1535.3	1477.9	1576.3	1562.3
70°	11830.2	7790.3	1041.9	901.3	955.2	1167.3	1480.2	1534.1	1460.3	1544.7	1521.3
72.5°	9111.1	5604.5	883.7	842.7	891.9	1116.9	1497.8	1500.2	1419.3	1435.7	1395.9
75°	6249.1	3541.8	771.2	763.0	795.8	1006.7	1441.6	1433.4	1312.6	1289.2	1256.4
77.5°	3445.7	1799.0	655.1	686.8	709.1	891.9	1310.3	1298.6	1199.0	1149.7	1138.0
80°	1329.0	787.6	553.2	610.6	624.7	772.3	1148.6	1138.0	1054.8	991.5	973.9
82.5°	501.6	412.5	457.1	528.6	523.9	637.6	972.8	966.9	886.0	793.4	765.3
85°	232.1	247.3	362.1	436.0	402.0	472.3	778.2	788.8	690.3	580.1	580.1
87.5°	98.4	138.3	256.7	329.3	270.7	318.8	570.8	545.0	500.4	346.9	325.8
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)