

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: P653870

Luminaire Tested: **GLAN-SA5A-840-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P653870  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA5A-840-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16324.6 lumens  
Efficiency: N/A  
Efficacy: 106.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

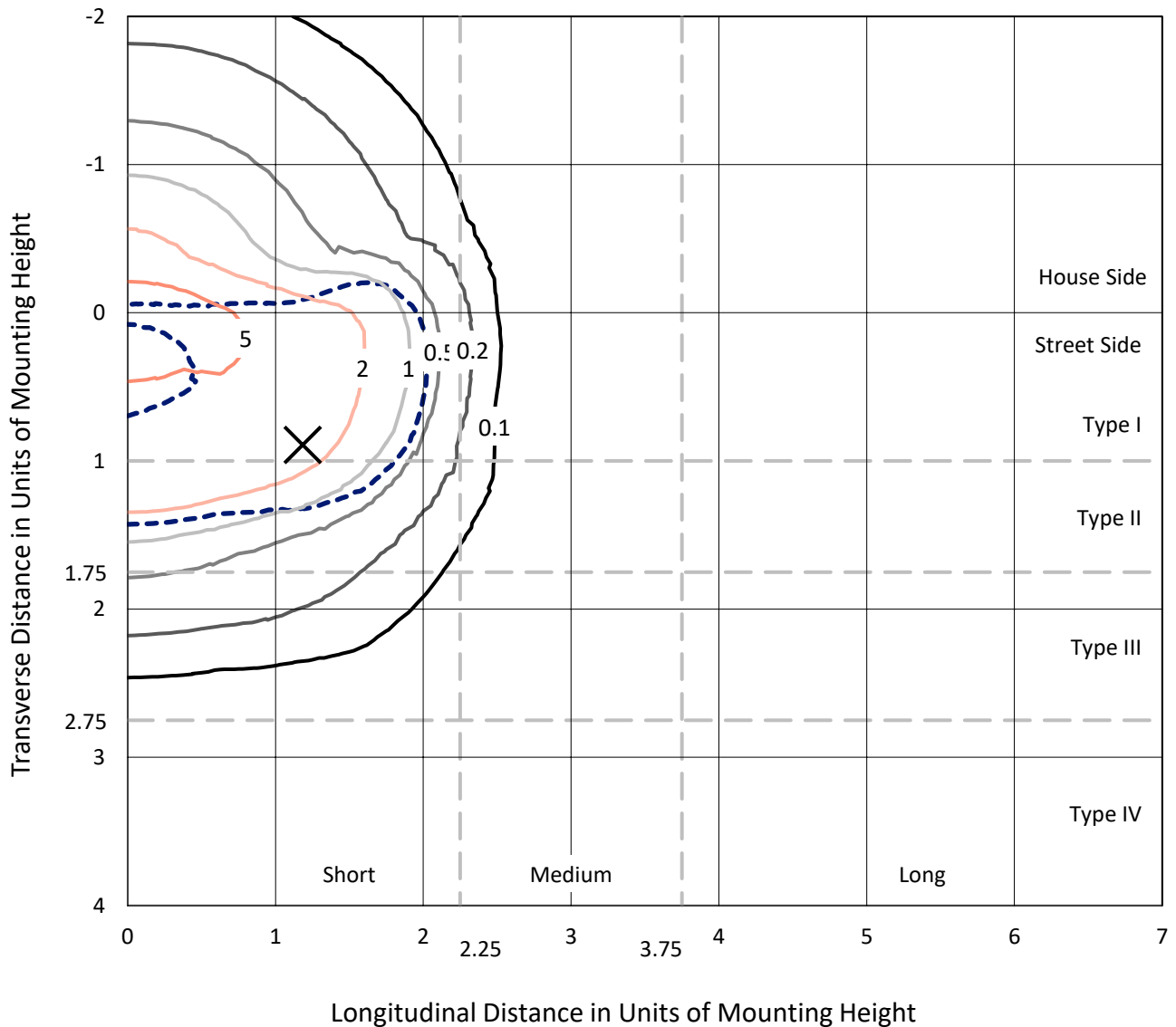
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

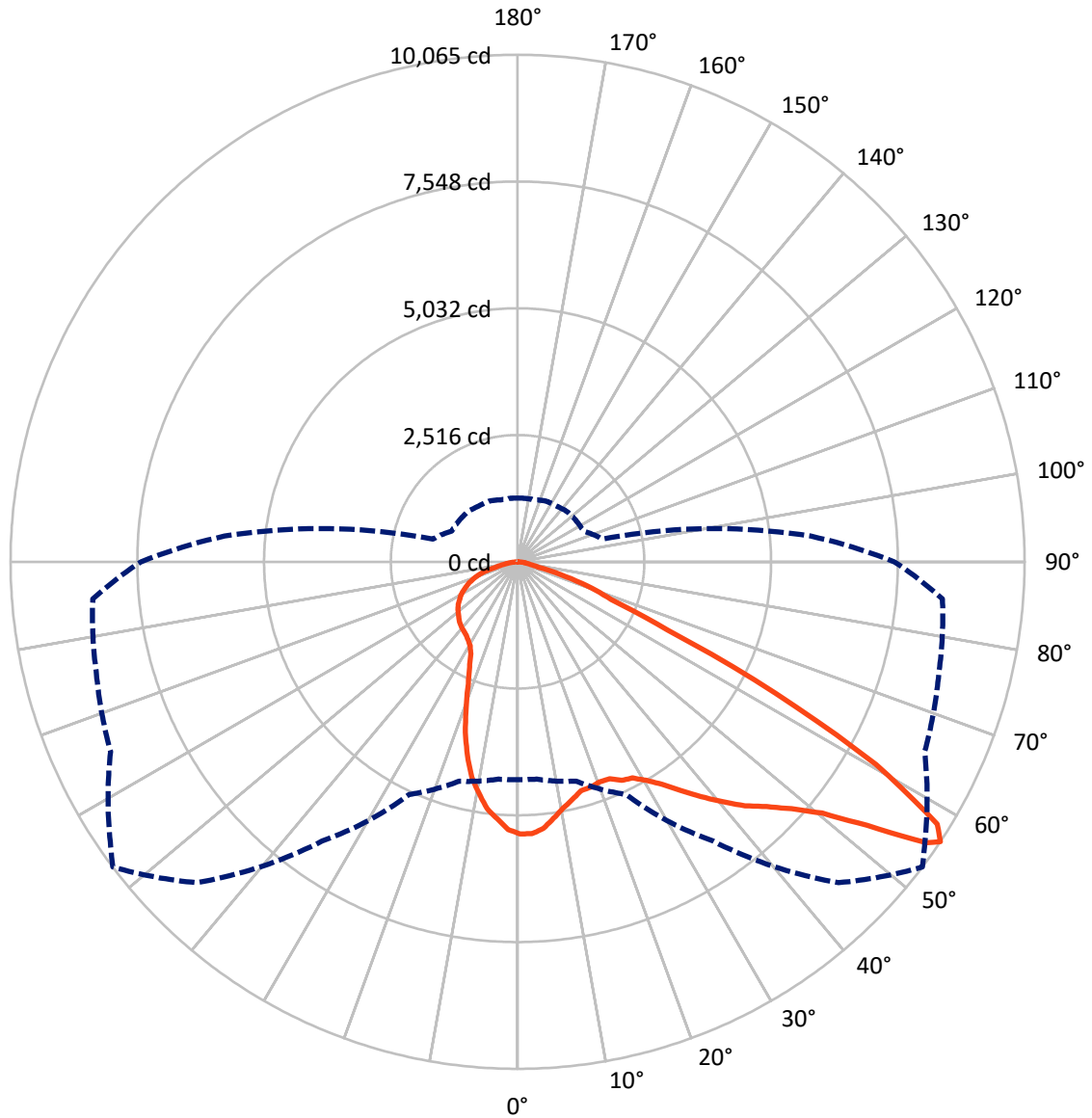
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4763.9	0.0	4763.9
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	11560.8	0.0	11560.8
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	16324.6	0.0	16324.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	478.1	2.9
10°-20°	1194.2	7.3
20°-30°	1760.9	10.8
30°-40°	2516.0	15.4
40°-50°	3462.9	21.2
50°-60°	4092.2	25.1
60°-70°	2180.9	13.4
70°-80°	553.3	3.4
80°-90°	86.3	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°	16324.6	100.0
0°-180°	16324.6	100.0

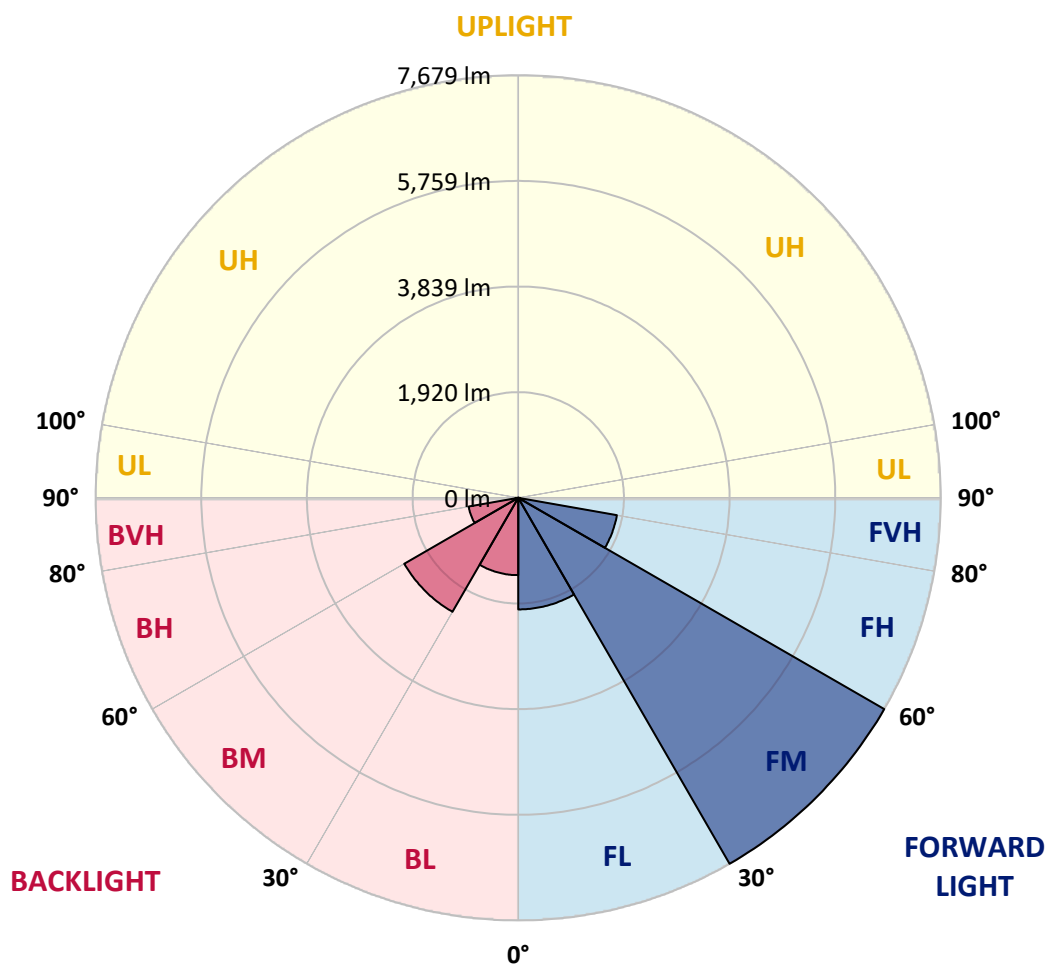


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2028.1	12.4			
FM (30°-60°)	7678.8	47.0			
FH (60°-80°)	1819.2	11.1			G2/5000
FVH (80°-90°)	34.7	0.2			G1/100
BL (0°-30°)	1405.1	8.6	B3/2500		
BM (30°-60°)	2392.3	14.7	B2/2500		
BH (60°-80°)	915.0	5.6	B2/1000		G2/1000
BVH (80°-90°)	51.6	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°	53°	55°	65°	75°	85°
0°	5400.8	5400.8	5400.8	5400.8	5400.8	5400.8	5400.8	5400.8	5400.8	5400.8	5400.8
2.5°	5333.8	5287.8	5315.0	5304.5	5390.4	5415.5	5402.9	5413.4	5461.5	5438.5	5390.4
5°	4984.1	5049.0	5061.6	5093.0	5143.2	5241.7	5319.2	5340.1	5363.1	5469.9	5459.4
7.5°	4665.8	4709.8	4686.7	4778.9	4887.8	5046.9	5141.2	5157.9	5369.4	5428.1	5472.1
10°	4464.8	4420.8	4525.5	4550.7	4674.2	4856.4	4969.5	5038.5	5231.2	5463.6	5490.9
12.5°	4278.3	4263.7	4326.5	4397.8	4535.9	4724.4	4839.6	4866.9	5164.2	5409.2	5537.0
15°	4140.2	4123.4	4186.2	4238.6	4399.9	4567.4	4714.0	4791.4	5090.9	5377.8	5497.2
17.5°	4031.2	4029.1	4064.8	4159.0	4324.4	4464.8	4701.4	4705.6	5053.2	5426.0	5530.7
20°	4024.9	4022.8	4029.1	4133.9	4284.6	4456.4	4661.6	4699.3	5053.2	5392.5	5532.8
22.5°	4077.3	4043.9	4081.5	4148.6	4257.4	4471.0	4676.3	4760.1	5174.7	5557.9	5627.0
25°	4161.1	4169.5	4190.5	4213.4	4276.2	4504.6	4806.1	4875.2	5317.1	5700.3	5756.8
27.5°	4314.0	4309.8	4318.2	4330.7	4385.1	4535.9	4858.5	5036.4	5614.4	5953.7	5897.2
30°	4538.0	4523.4	4556.9	4600.9	4550.7	4636.4	5032.3	5166.3	5890.9	6209.2	6054.2
32.5°	4741.1	4795.6	4858.5	4877.3	4816.6	4833.3	5262.6	5398.7	6121.2	6523.3	6246.9
35°	4994.5	5038.5	5122.3	5181.0	5170.5	5120.3	5576.8	5756.8	6454.2	6753.7	6450.0
37.5°	5241.7	5294.0	5432.3	5606.1	5509.7	5486.7	5911.8	6060.5	6556.8	6877.2	6598.7
40°	5639.6	5637.5	5876.2	5966.2	6052.1	6012.3	6259.5	6309.7	6611.3	6850.0	6602.9
42.5°	6106.6	6077.2	6320.2	6460.5	6571.5	6575.7	6621.7	6605.0	6636.4	6711.8	6558.9
45°	6550.5	6613.4	6858.4	7109.6	7220.7	7233.2	6927.5	6896.0	6680.4	6672.0	6475.1
47.5°	7092.9	7107.5	7308.6	7639.5	7897.1	7809.1	7323.3	7254.1	6873.1	6937.9	6615.5
50°	7124.4	7233.2	7413.3	7802.8	8594.4	8571.4	7836.4	7706.5	7183.0	7314.9	7007.0
52.5°	6466.8	6441.6	6655.3	7291.9	8542.0	9329.5	8686.6	8376.6	7848.9	7748.4	7641.6
55°	4927.6	4986.2	5174.7	5817.6	7417.5	9340.0	9844.7	9591.3	8561.0	8389.2	8265.7
56°	4322.3	4330.7	4508.7	5095.1	6768.3	9006.9	10064.5	9859.3	8914.9	8653.0	8464.6
57.5°	3583.1	3535.0	3627.1	3947.5	5712.8	8303.4	9823.7	10024.7	9329.5	8937.9	8676.1
60°	2820.8	2810.4	2772.7	2831.3	3610.3	6255.3	8177.7	8630.0	9287.6	8669.8	8309.6
62.5°	2303.6	2251.2	2326.6	2410.4	2508.8	3880.5	5746.4	6012.3	7373.6	6921.2	6242.7
65°	1786.3	1761.2	1855.4	2127.6	2186.3	2464.8	3273.2	3478.4	4353.8	4276.2	3765.3
67.5°	1229.3	1233.5	1315.2	1729.8	2027.1	2002.0	2004.1	2110.9	2272.1	1687.9	1470.1
70°	779.0	776.9	820.9	1114.1	1631.4	1648.1	1564.3	1532.9	1453.3	879.5	931.9
72.5°	500.5	485.8	508.9	615.7	843.9	975.9	1005.2	1024.1	841.8	691.0	749.7
75°	282.7	268.0	259.7	286.9	333.0	385.3	423.0	435.6	487.9	523.5	555.0
77.5°	85.9	77.5	94.3	125.6	165.4	221.9	270.1	278.5	328.7	370.6	402.1
80°	37.7	41.9	58.6	83.8	117.2	157.1	190.6	203.1	236.7	268.0	276.4
82.5°	23.0	25.1	39.8	56.5	81.7	111.0	136.2	140.3	173.8	199.0	205.2
85°	8.4	10.5	20.9	33.5	52.4	71.2	71.2	77.5	71.2	71.2	77.5
87.5°	0.0	0.0	2.1	4.2	4.2	6.3	8.4	8.4	10.5	12.5	14.6
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°	5400.8	5400.8	5400.8	5400.8	5400.8	5400.8	5400.8	5400.8	5400.8	5400.8	5400.8
2.5°	5415.5	5405.0	5388.3	5327.6	5321.3	5302.4	5197.7	5181.0	5197.7	5147.4	5151.6
5°	5405.0	5436.5	5310.8	5250.0	5137.0	5055.3	4961.1	4912.9	4827.0	4772.6	4833.3
7.5°	5451.1	5438.5	5281.5	5149.5	4979.9	4772.6	4607.2	4512.9	4362.1	4320.2	4351.7
10°	5434.4	5367.3	5183.1	5009.2	4688.8	4506.7	4238.6	3978.9	3836.5	3763.2	3752.7
12.5°	5411.3	5392.5	5084.6	4785.1	4448.0	4064.8	3687.8	3442.8	3210.3	3109.8	3124.5
15°	5438.5	5279.4	4900.3	4521.3	4073.1	3570.5	3164.3	2848.0	2686.8	2621.9	2621.9
17.5°	5426.0	5225.0	4812.4	4226.0	3658.5	3063.8	2617.7	2427.1	2360.1	2360.1	2378.9
20°	5432.3	5260.5	4634.4	3930.7	3168.5	2580.0	2255.4	2186.3	2215.6	2226.1	2236.6
22.5°	5467.8	5143.2	4460.6	3606.1	2714.0	2207.2	2048.1	2050.2	2102.5	2159.1	2148.6
25°	5511.8	5097.2	4249.1	3283.6	2366.4	2025.0	1974.8	1968.5	2008.3	2037.7	2041.8
27.5°	5474.2	5017.6	4033.4	2881.6	2081.6	1903.6	1893.1	1897.3	1909.9	1968.5	1949.7
30°	5597.7	5040.6	3763.2	2544.4	1924.5	1863.8	1851.2	1845.0	1863.8	1880.6	1865.9
32.5°	5750.6	4959.0	3562.1	2219.8	1847.1	1834.5	1809.3	1801.0	1811.4	1794.7	1803.1
35°	5817.6	4944.3	3300.4	1987.4	1786.3	1775.9	1761.2	1759.1	1761.2	1746.5	1734.0
37.5°	5855.3	5013.5	3000.9	1880.6	1748.6	1759.1	1725.6	1721.4	1683.7	1692.1	1698.4
40°	5920.2	4906.6	2758.0	1778.0	1725.6	1704.6	1675.4	1669.0	1643.9	1629.3	1643.9
42.5°	5825.9	4875.2	2519.3	1734.0	1692.1	1669.0	1648.1	1612.5	1604.1	1591.6	1583.2
45°	5750.6	4695.1	2305.7	1679.5	1652.3	1639.7	1599.9	1562.2	1530.9	1543.4	1524.6
47.5°	5807.1	4632.3	2094.2	1633.5	1597.8	1583.2	1543.4	1514.1	1482.7	1468.0	1463.8
50°	6033.2	4749.5	1916.1	1599.9	1551.8	1543.4	1491.0	1457.5	1428.2	1417.8	1422.0
52.5°	6573.6	5070.0	1794.7	1530.9	1507.8	1470.1	1440.8	1398.9	1380.1	1346.5	1367.5
55°	7258.3	5591.4	1763.2	1465.9	1453.3	1419.9	1380.1	1348.6	1313.1	1285.8	1279.5
56°	7478.3	5840.6	1738.2	1440.8	1419.9	1401.0	1348.6	1329.8	1273.3	1267.0	1262.8
57.5°	7656.2	6060.5	1742.3	1392.6	1371.7	1354.9	1323.5	1277.5	1239.7	1216.7	1227.2
60°	7254.1	5673.0	1662.7	1319.4	1315.2	1283.7	1239.7	1218.8	1172.7	1145.5	1139.2
62.5°	5392.5	3851.2	1348.6	1225.1	1223.0	1189.5	1139.2	1116.2	1107.8	1070.1	1070.1
65°	3105.6	2414.6	1166.5	1147.6	1130.8	1097.3	1047.0	1028.2	1007.3	994.7	984.2
67.5°	1325.6	1252.3	1059.7	1057.6	1038.7	996.8	946.5	917.3	890.0	864.9	877.4
70°	961.2	975.9	957.1	946.5	923.5	871.2	827.2	791.6	749.7	732.9	745.5
72.5°	762.3	793.7	820.9	823.0	795.8	735.0	686.8	638.7	592.7	569.6	580.1
75°	578.0	599.0	626.1	632.4	592.7	550.8	504.7	454.4	418.8	391.6	395.8
77.5°	416.7	412.5	437.7	433.5	414.6	385.3	343.5	297.4	257.6	232.5	234.6
80°	284.8	291.1	305.8	303.7	280.6	261.8	230.3	192.7	163.3	142.4	138.2
82.5°	199.0	209.4	221.9	211.5	192.7	173.8	150.8	123.5	100.5	83.8	79.6
85°	71.2	81.7	94.3	100.5	106.8	102.6	85.9	69.1	50.3	41.9	39.8
87.5°	14.6	16.7	18.8	18.8	18.8	16.7	14.6	14.6	12.5	6.3	6.3
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)