

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: P654610

Luminaire Tested: **GLAN-SA9B-840-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P654610  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA9B-840-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43630.2 lumens  
Efficiency: N/A  
Efficacy: 119.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G5

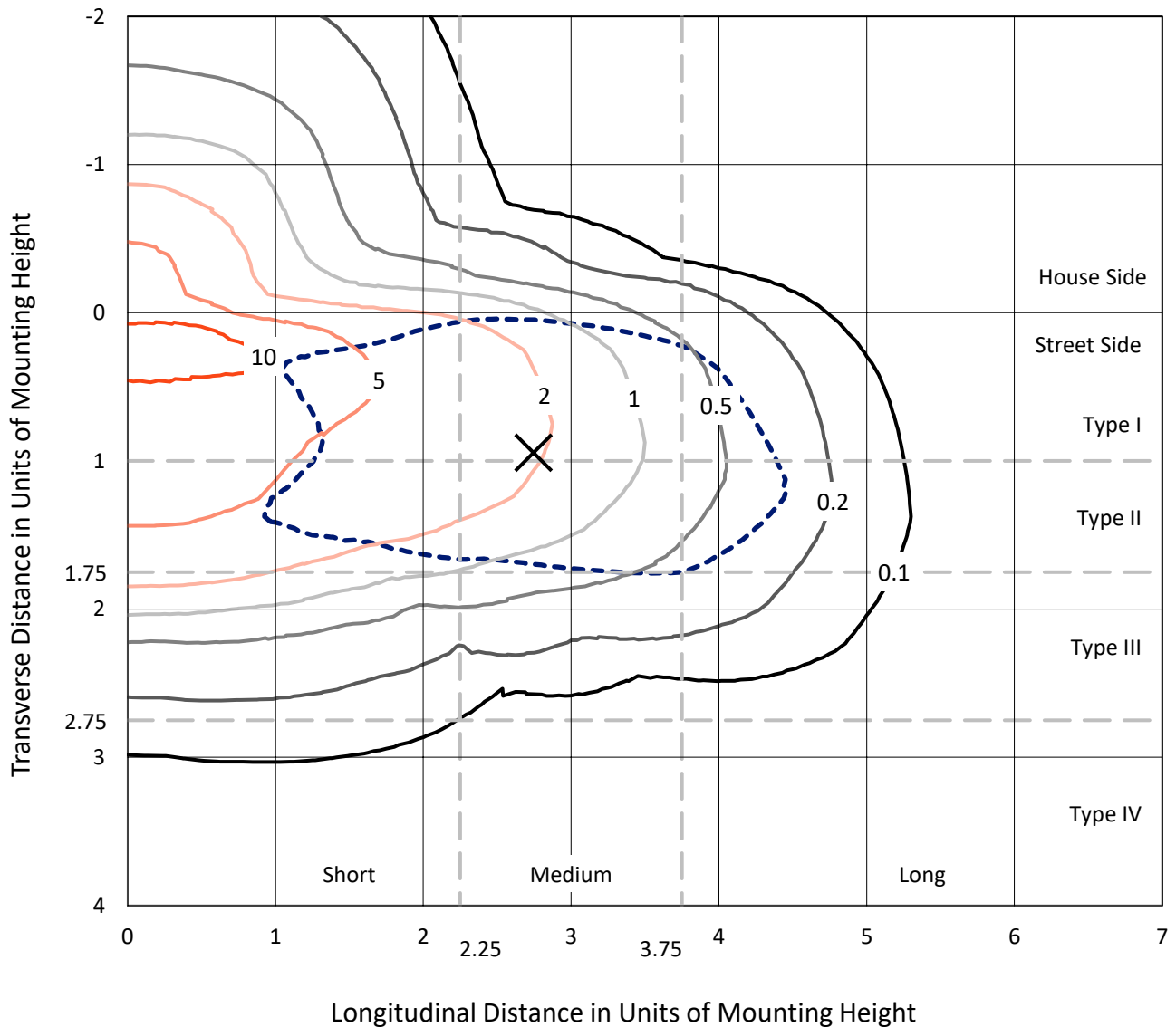
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P654610  
 CATALOG NUMBER: GLAN-SA9B-840-U-T2

### Iso-Footcandle Lines of Horizontal Illumination

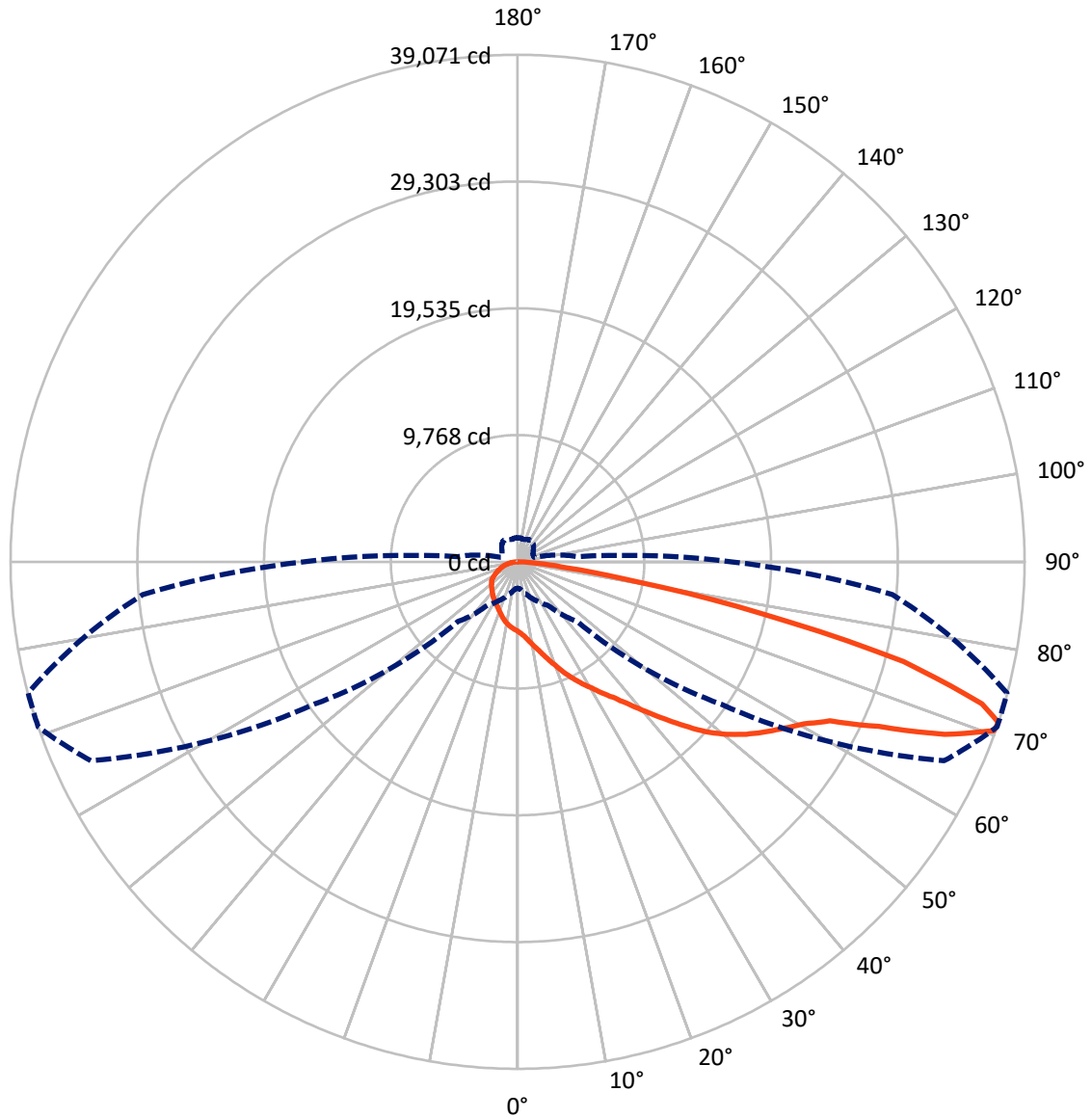
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc  
 Type II - Medium - N/A

REPORT NUMBER: P654610  
CATALOG NUMBER: GLAN-SA9B-840-U-T2

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P654610  
 CATALOG NUMBER: GLAN-SA9B-840-U-T2

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7846.8	0.0	7846.8
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	35783.5	0.0	35783.5
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	43630.2	0.0	43630.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	537.7	1.2
10°-20°	1746.8	4.0
20°-30°	3052.7	7.0
30°-40°	4540.4	10.4
40°-50°	6689.8	15.3
50°-60°	9365.8	21.5
60°-70°	10475.3	24.0
70°-80°	6398.7	14.7
80°-90°	823.1	1.9
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°	43630.2	100.0
0°-180°	43630.2	100.0

**Coefficient of Utilization**

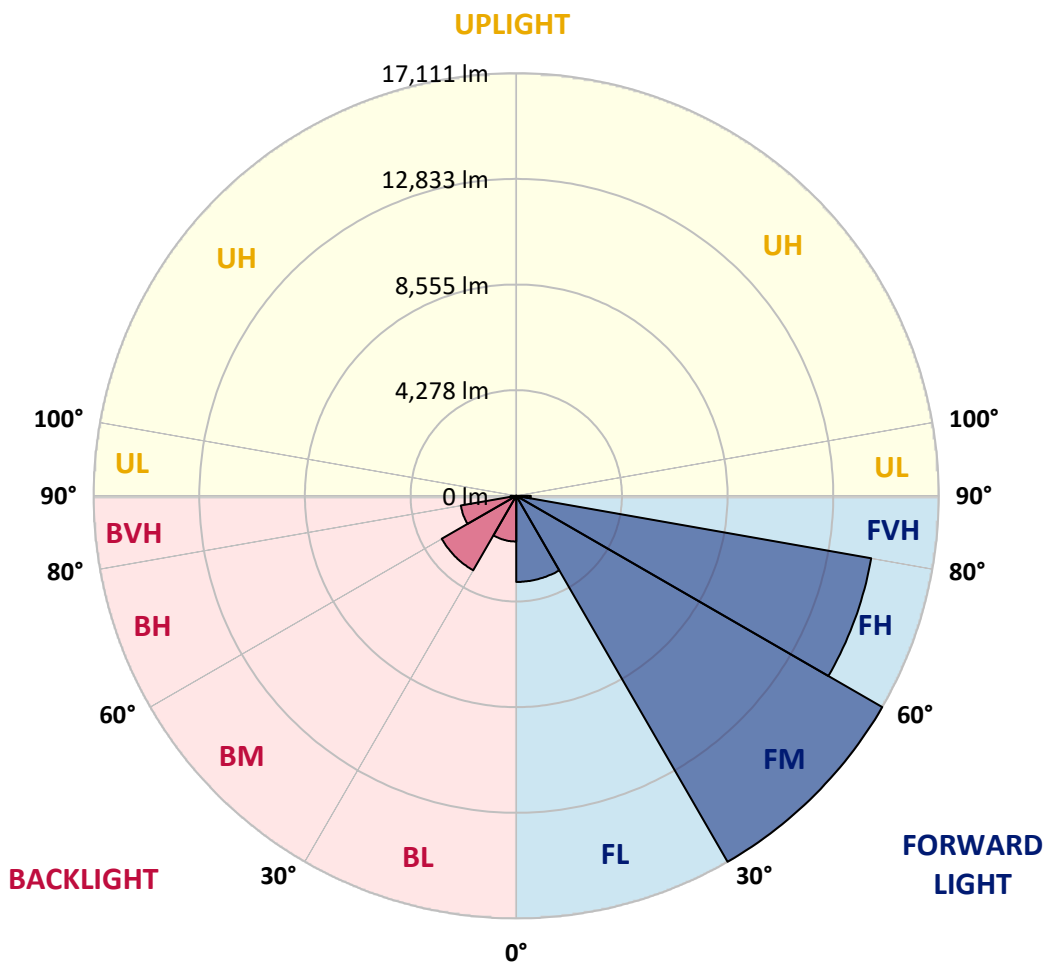


REPORT NUMBER: P654610  
 CATALOG NUMBER: GLAN-SA9B-840-U-T2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3486.1	8.0			
FM (30°-60°)	17110.9	39.2			
FH (60°-80°)	14594.2	33.4			G5
FVH (80°-90°)	592.3	1.4			G4/750
BL (0°-30°)	1851.0	4.2	B3/2500		
BM (30°-60°)	3485.1	8.0	B3/5000		
BH (60°-80°)	2279.8	5.2	B3/2500		G3/2500
BVH (80°-90°)	230.9	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type II Medium





REPORT NUMBER: P654610  
 CATALOG NUMBER: GLAN-SA9B-840-U-T2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	5354.7	5354.7	5354.7	5354.7	5354.7	5354.7	5354.7	5354.7	5354.7	5354.7	5354.7
2.5°	5944.7	5915.8	5918.3	5877.5	5824.8	5767.2	5685.7	5613.8	5556.2	5522.6	5424.3
5°	6587.3	6558.5	6522.5	6433.8	6395.5	6254.0	6074.1	5911.1	5786.4	5716.9	5520.2
7.5°	7107.7	7100.5	7090.9	7040.5	6942.2	6745.6	6592.1	6309.2	6124.5	5992.6	5656.9
10°	7429.1	7441.0	7448.2	7457.8	7417.0	7313.9	7102.9	6745.6	6510.6	6342.7	5834.4
12.5°	7592.1	7604.1	7644.9	7733.6	7788.8	7776.7	7604.1	7254.0	6930.3	6709.7	6023.8
15°	7692.8	7712.0	7784.0	7901.4	8086.0	8203.6	8119.7	7795.9	7441.0	7179.6	6249.2
17.5°	7803.1	7824.7	7903.8	8071.7	8313.9	8568.1	8659.2	8381.1	7995.0	7683.2	6501.0
20°	7865.5	7894.2	8006.9	8227.6	8510.5	8879.8	9182.0	9035.7	8613.6	8268.3	6791.2
22.5°	7966.2	7990.2	8086.0	8321.1	8659.2	9122.0	9704.7	9673.6	9301.9	8855.8	7110.1
25°	8239.5	8278.0	8325.9	8467.4	8793.5	9369.0	10138.8	10354.6	9968.5	9469.7	7402.7
27.5°	8755.1	8786.3	8783.9	8803.1	8987.8	9582.4	10515.3	11028.5	10630.4	10090.8	7685.6
30°	9342.7	9354.6	9364.2	9321.1	9361.8	9800.7	10860.6	11695.1	11297.0	10728.7	7932.6
32.5°	10057.3	10081.2	9999.7	9889.4	9855.8	10124.4	11145.9	12361.7	12085.9	11376.1	8177.2
35°	10901.4	10963.7	10798.2	10604.0	10467.3	10589.6	11529.6	13042.7	12894.1	12203.5	8500.9
37.5°	11865.3	11942.1	11788.6	11407.3	11213.1	11246.7	12030.8	13884.5	13915.6	13145.8	8983.0
40°	12654.3	12755.0	12759.8	12220.2	11925.3	11963.6	12666.3	14790.9	15148.2	14311.3	9551.2
42.5°	13174.7	13273.0	13376.1	13059.6	12750.2	12968.4	13407.2	15774.1	16534.2	15726.1	10345.0
45°	13745.4	13834.1	13891.6	13747.7	13575.1	14141.1	14301.7	16819.7	18011.4	17306.4	11213.1
47.5°	14407.3	14505.6	14560.7	14424.0	14359.2	15169.8	15265.7	17795.6	19589.3	18841.2	12172.3
50°	15289.7	15364.1	15335.3	15248.9	15234.5	15958.7	16191.4	18709.2	20891.4	20493.4	13167.5
52.5°	16388.0	16476.7	16507.9	16385.6	16330.5	16522.3	16937.2	19541.4	22076.1	21913.0	14229.8
55°	17052.2	17193.7	17668.5	17860.4	17992.3	17251.3	17740.5	20459.8	23138.3	23409.3	15371.2
57.5°	16200.9	16383.2	17445.5	18404.7	19644.5	19073.7	18879.5	21419.0	24200.7	24860.1	16738.1
60°	14124.3	14165.0	15534.3	17301.6	19795.5	21416.6	21255.9	22944.2	25351.8	26323.0	18539.0
62.5°	9798.2	9884.6	11503.3	14323.3	17929.9	22260.7	25299.0	25577.2	27001.6	28512.3	21179.2
65°	5052.6	4939.9	6414.6	9002.1	13517.6	20256.0	28574.7	30418.7	30579.4	31936.6	24896.1
67.5°	3110.2	3160.6	3851.2	5256.4	7992.5	14721.4	28231.8	36334.6	35488.1	36140.4	28346.8
70°	2335.6	2398.0	2872.8	3597.0	4872.8	8417.0	22704.3	37768.6	38950.8	38783.0	29397.2
71°	2031.1	2095.9	2589.9	3273.3	4093.4	6496.2	19128.9	36267.5	39070.8	39042.0	29001.5
72.5°	1731.4	1772.2	2158.2	2772.1	3450.7	4553.8	14371.3	32526.6	37404.1	38361.0	27589.1
75°	1359.6	1390.8	1563.5	2115.0	2716.9	2796.1	7712.0	24385.3	30720.9	32543.3	22968.1
77.5°	1107.8	1129.5	1218.2	1570.7	2095.9	1980.7	4045.5	15872.4	19246.4	21080.9	13529.6
80°	880.1	904.1	956.8	1064.7	1570.7	1412.5	1930.4	8042.9	9297.1	9277.9	5400.3
82.5°	683.4	690.6	752.9	781.7	1074.3	1002.4	1045.5	3405.2	3772.1	3896.8	1949.6
85°	431.6	453.2	666.7	599.5	642.7	587.5	515.5	1352.5	1666.6	1642.6	779.4
87.5°	131.9	139.1	225.4	254.2	285.4	256.6	189.5	398.0	486.8	527.6	194.3
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: P654610  
 CATALOG NUMBER: GLAN-SA9B-840-U-T2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5354.7	5354.7	5354.7	5354.7	5354.7	5354.7	5354.7	5354.7	5354.7	5354.7	5354.7
2.5°	5385.9	5359.5	5266.0	5189.3	5117.3	5038.2	4971.1	4951.9	4935.1	4927.9	4925.5
5°	5436.3	5357.2	5172.5	5021.4	4901.5	4791.3	4721.7	4690.5	4659.3	4659.3	4668.9
7.5°	5508.2	5364.3	5079.0	4853.6	4702.5	4599.3	4549.1	4544.3	4551.4	4558.6	4561.0
10°	5587.4	5359.5	4942.3	4661.7	4527.4	4479.5	4481.9	4522.6	4561.0	4589.8	4594.6
12.5°	5664.1	5330.8	4781.6	4481.9	4395.6	4405.2	4472.3	4563.4	4637.8	4678.5	4680.9
15°	5750.4	5285.2	4587.4	4311.6	4282.9	4357.2	4481.9	4621.0	4733.7	4800.8	4808.0
17.5°	5822.3	5208.5	4383.5	4146.1	4182.1	4318.8	4491.4	4671.3	4808.0	4891.9	4906.3
20°	5903.9	5110.2	4172.5	3987.9	4091.0	4275.6	4472.3	4666.5	4808.0	4889.6	4908.7
22.5°	5968.7	4971.1	3971.1	3858.4	4009.5	4222.9	4407.5	4563.4	4678.5	4721.7	4750.5
25°	5995.0	4796.1	3781.6	3752.9	3944.7	4136.5	4261.3	4350.0	4386.0	4381.2	4393.1
27.5°	5980.6	4594.6	3618.6	3668.9	3863.2	4002.2	4064.6	4057.4	3992.6	3932.8	3961.5
30°	5920.6	4354.8	3481.9	3582.7	3757.7	3834.5	3824.8	3731.3	3609.0	3496.3	3503.5
32.5°	5812.7	4095.8	3354.8	3484.3	3609.0	3642.5	3577.9	3455.5	3280.5	3134.2	3112.6
35°	5721.7	3848.8	3242.1	3371.6	3460.3	3443.6	3381.2	3223.0	3064.7	2935.2	2913.6
37.5°	5707.3	3637.7	3134.2	3244.5	3294.9	3270.9	3194.1	3059.9	3002.3	2904.0	2892.0
40°	5784.0	3489.1	3023.9	3110.2	3134.2	3115.0	3031.0	2954.3	3007.1	2983.1	2983.1
42.5°	5992.6	3410.0	2925.6	2976.0	2995.1	3009.5	2949.6	2884.8	2949.6	2839.2	2803.3
45°	6323.6	3412.4	2836.9	2844.0	2901.6	2951.9	2911.2	2815.2	2781.7	2561.1	2517.9
47.5°	6810.3	3493.9	2764.9	2719.4	2822.5	2906.4	2848.8	2709.8	2561.1	2414.8	2388.4
50°	7378.7	3640.2	2700.2	2589.9	2716.9	2848.8	2805.7	2642.6	2489.1	2400.4	2383.6
52.5°	8009.3	3824.8	2621.1	2446.0	2587.4	2822.5	2815.2	2633.0	2422.0	2362.0	2347.7
55°	8788.7	4007.1	2522.7	2278.1	2472.4	2800.9	2788.9	2553.9	2407.6	2364.5	2359.7
57.5°	9695.1	4270.9	2381.2	2107.9	2340.4	2712.1	2685.7	2505.9	2359.7	2328.5	2326.0
60°	11155.5	4680.9	2179.8	1952.0	2206.2	2556.3	2589.9	2424.4	2282.9	2275.7	2273.3
62.5°	13076.4	5256.4	1971.1	1791.3	2050.3	2354.9	2450.8	2314.1	2201.4	2237.3	2242.1
65°	15728.6	5740.8	1755.3	1654.6	1877.6	2160.6	2318.9	2211.0	2110.2	2179.8	2179.8
67.5°	17457.5	5750.4	1558.7	1513.1	1702.6	1997.5	2179.8	2088.6	1992.7	2110.2	2115.0
70°	17097.8	5038.2	1395.6	1364.4	1532.3	1822.4	2026.3	1954.4	1844.1	1949.6	1911.2
71°	16517.5	4642.6	1330.9	1306.9	1465.2	1738.5	1954.4	1894.4	1784.1	1853.6	1832.1
72.5°	15591.9	4031.1	1225.4	1230.2	1364.4	1633.1	1853.6	1791.3	1681.0	1719.3	1712.2
75°	13179.5	3520.3	1048.0	1069.5	1172.6	1453.2	1652.2	1604.3	1491.6	1491.6	1484.4
77.5°	8239.5	2460.3	870.4	882.5	995.2	1244.6	1419.6	1378.8	1270.9	1235.0	1225.4
80°	3074.3	1270.9	681.0	695.4	765.0	980.8	1175.0	1136.7	1026.4	985.6	947.2
82.5°	1163.0	637.9	501.2	489.2	563.6	748.2	920.8	875.3	788.9	690.6	661.9
85°	438.8	316.6	307.0	297.4	330.9	443.6	570.7	561.1	470.0	400.5	393.3
87.5°	115.1	103.1	119.9	88.7	93.5	83.9	86.3	36.0	16.8	7.2	4.8
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)