

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: P318039

Luminaire Tested: **GAN-SA5B-730-U-T2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318039  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA5B-730-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25525 lumens  
Efficiency: N/A  
Efficacy: 121.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

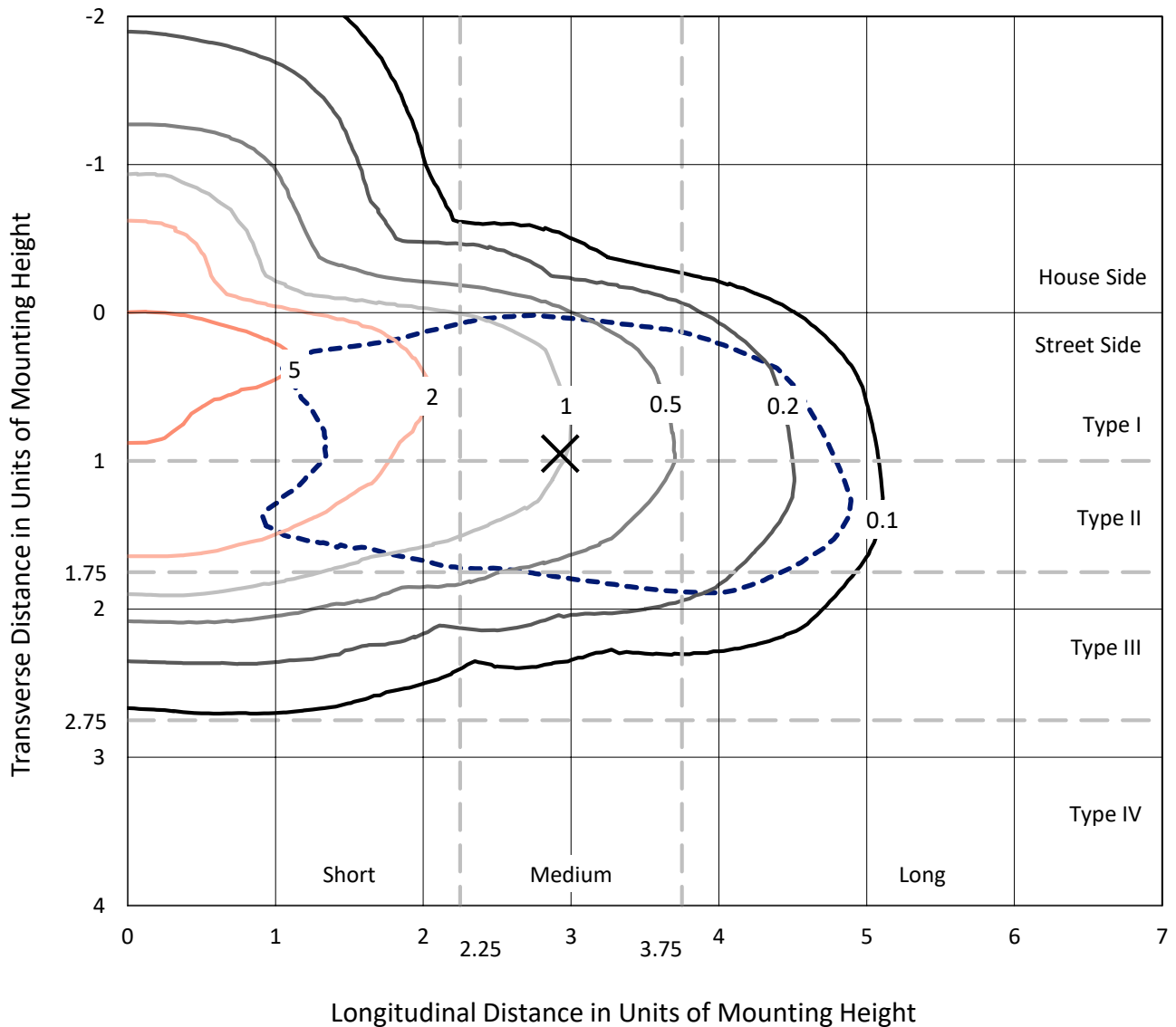
Input Watts (W): 210  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

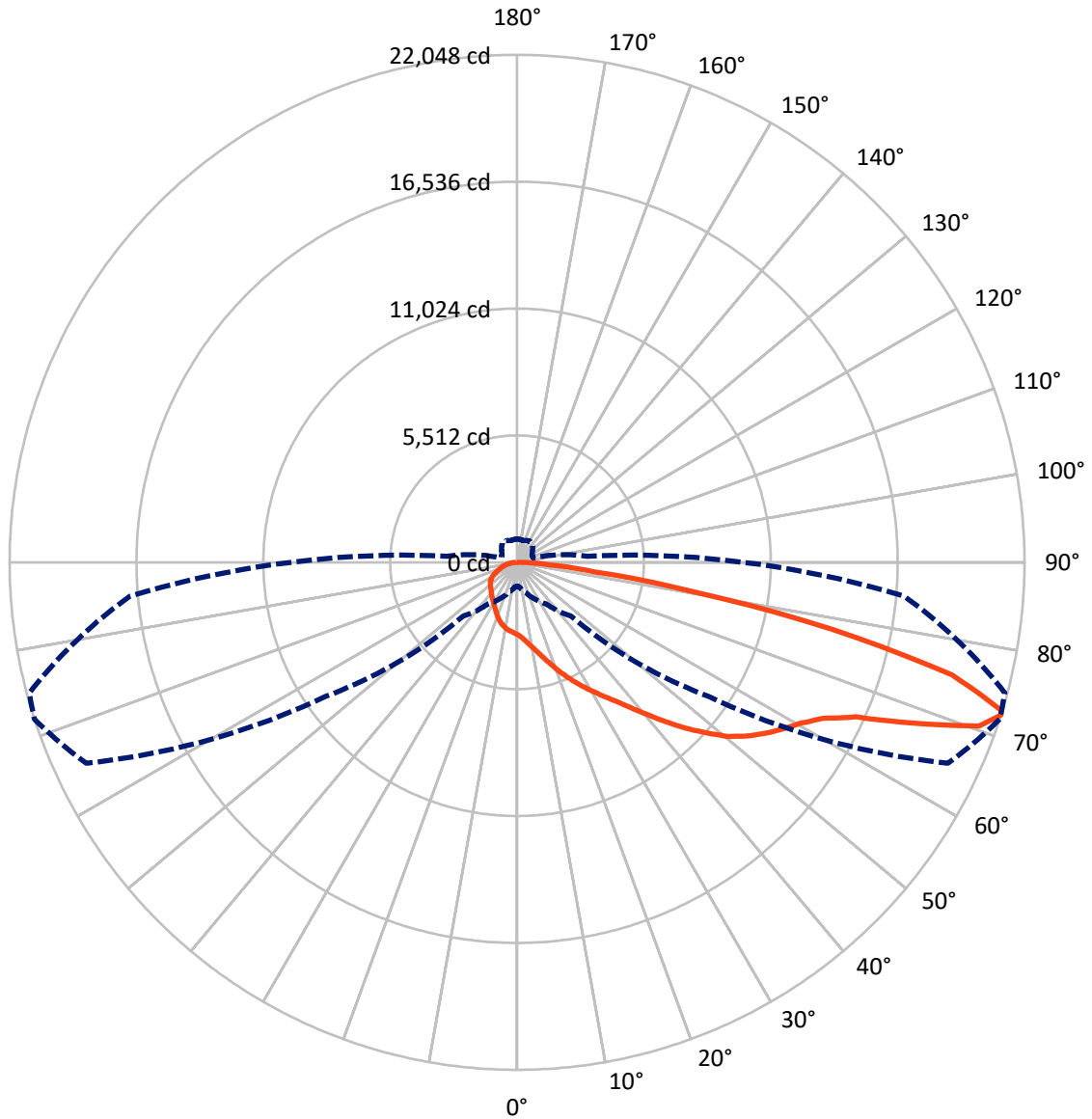
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4735.1	0.0	4735.1
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	20789.9	0.0	20789.9
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	25525.0	0.0	25525.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	314.7	1.2
10°-20°	1016.8	4.0
20°-30°	1781.8	7.0
30°-40°	2641.9	10.4
40°-50°	3863.9	15.1
50°-60°	5316.8	20.8
60°-70°	5919.1	23.2
70°-80°	4010.8	15.7
80°-90°	659.2	2.6
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°	25525.0	100.0
0°-180°	25525.0	100.0

**Coefficient of Utilization**

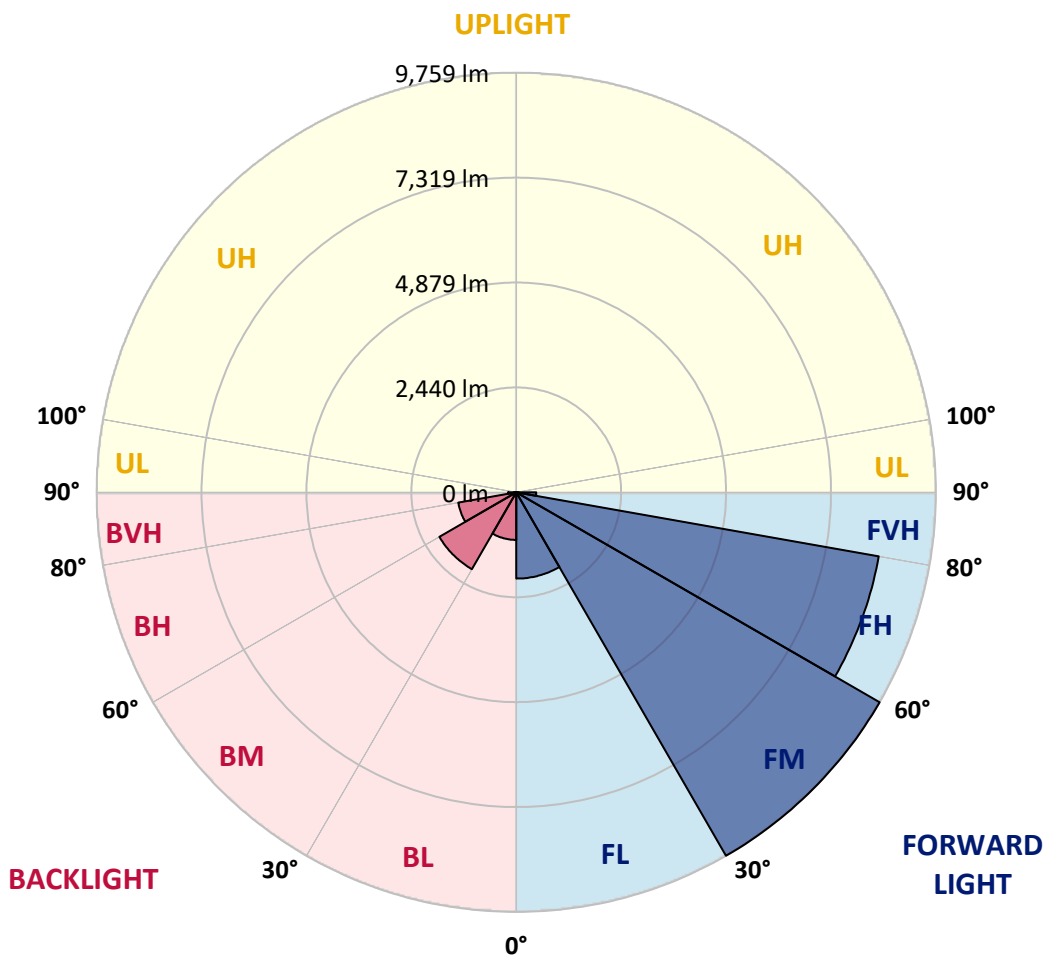


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2006.4	7.9			
FM (30°-60°)	9758.5	38.2			
FH (60°-80°)	8560.0	33.5			G4/12000
FVH (80°-90°)	465.0	1.8			G3/500
BL (0°-30°)	1106.9	4.3	B3/2500		
BM (30°-60°)	2064.0	8.1	B2/2500		
BH (60°-80°)	1369.9	5.4	B3/2500		G3/2500
BVH (80°-90°)	194.2	0.8			G2/225
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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3140.2	3140.2	3140.2	3140.2	3140.2	3140.2	3140.2	3140.2	3140.2	3140.2	3140.2
2.5°	3468.9	3463.7	3445.2	3445.2	3410.1	3380.2	3323.9	3286.1	3241.3	3225.5	3172.8
5°	3804.7	3806.4	3783.6	3767.8	3715.9	3652.6	3556.8	3469.8	3382.8	3347.7	3239.6
7.5°	4086.8	4083.3	4077.1	4063.9	4015.6	3950.6	3821.4	3692.2	3563.9	3511.1	3324.8
10°	4267.8	4275.8	4281.0	4287.2	4267.0	4220.4	4098.2	3940.9	3773.0	3701.0	3426.8
12.5°	4359.2	4373.3	4397.9	4440.1	4473.5	4468.2	4379.5	4212.5	4013.0	3922.4	3554.2
15°	4412.9	4431.3	4470.0	4545.6	4639.6	4693.2	4669.5	4518.3	4296.0	4184.4	3709.8
17.5°	4446.3	4461.2	4521.0	4622.0	4761.8	4904.2	4966.6	4840.0	4615.9	4488.4	3888.2
20°	4469.1	4480.5	4555.2	4673.9	4854.9	5081.7	5255.7	5224.1	4968.3	4803.1	4074.5
22.5°	4520.1	4529.8	4600.9	4720.5	4920.9	5213.5	5534.3	5581.8	5340.1	5152.9	4274.0
25°	4662.5	4662.5	4722.2	4805.7	4993.8	5327.8	5769.9	5979.9	5719.8	5501.8	4458.6
27.5°	4934.0	4931.4	4953.4	4982.4	5124.8	5443.8	5979.9	6331.5	6113.5	5875.3	4637.9
30°	5255.7	5273.3	5275.9	5261.9	5328.7	5588.8	6174.1	6702.3	6509.9	6253.2	4821.5
32.5°	5669.7	5681.1	5667.9	5621.3	5611.7	5794.5	6364.9	7090.8	6938.8	6647.9	4989.4
35°	6195.2	6173.3	6132.0	6037.0	5946.5	6069.6	6582.8	7479.3	7420.4	7125.1	5220.6
37.5°	6758.6	6759.5	6708.5	6493.2	6368.4	6421.1	6883.4	7919.6	8003.1	7692.8	5516.7
40°	7210.3	7234.1	7265.7	6982.7	6821.0	6893.9	7265.7	8430.2	8692.1	8366.1	5902.6
42.5°	7525.9	7553.1	7642.7	7465.2	7297.3	7432.7	7715.7	8975.1	9465.5	9143.0	6354.3
45°	7859.8	7874.8	7938.1	7861.6	7754.4	8059.3	8222.8	9539.4	10283.8	9970.9	6859.7
47.5°	8211.4	8227.2	8292.2	8241.3	8185.0	8644.7	8751.9	10071.1	11067.7	10880.5	7399.3
50°	8645.5	8656.1	8717.6	8625.3	8642.9	9085.9	9224.7	10558.9	11889.5	11697.9	7940.7
52.5°	9237.9	9240.6	9325.8	9242.3	9159.7	9409.3	9631.7	11018.5	12533.7	12443.2	8482.1
55°	9702.0	9730.1	10009.6	9992.0	9944.5	9702.8	9971.8	11456.2	13108.5	13151.6	9056.9
57.5°	9405.8	9515.6	10081.6	10480.7	10869.1	10433.2	10431.4	11949.3	13642.9	13846.8	9688.8
60°	8237.7	8387.2	9221.2	10106.2	11321.7	11704.1	11385.9	12551.3	14182.5	14535.8	10480.7
62.5°	5883.2	6129.3	7259.6	8672.8	10701.3	12546.0	13328.2	13506.6	14916.4	15333.8	11509.8
65°	2974.1	3160.5	4107.9	5810.3	8549.8	11995.8	15439.3	15598.4	16191.6	16562.5	13094.4
67.5°	1807.0	1877.3	2339.6	3231.6	5241.6	9344.3	16128.3	19084.9	18659.5	18856.4	15354.0
70°	1331.5	1383.4	1671.6	2146.2	3014.6	5483.3	14013.8	21573.0	21293.5	21271.6	17023.9
72°	1037.1	1074.9	1329.7	1734.0	2204.2	3289.7	10157.2	20654.6	22047.6	21936.9	16871.0
72.5°	983.5	1016.9	1248.9	1632.1	2082.9	2982.0	9132.4	20035.0	21993.1	21943.0	16673.2
75°	774.3	798.0	924.6	1262.1	1630.3	1691.8	5004.3	15526.3	19510.3	20321.5	14996.3
77.5°	640.7	644.2	711.0	918.4	1270.9	1196.2	2458.2	10772.4	13970.7	14862.8	10623.0
80°	522.1	526.4	558.1	644.2	961.5	885.0	1167.2	6194.4	7822.0	7831.7	5051.8
82.5°	415.7	416.6	451.7	471.1	690.8	632.8	668.8	2908.2	3418.0	3287.9	1815.8
85°	292.7	286.5	441.2	386.7	451.7	406.0	369.1	1151.3	1413.2	1351.7	568.6
87.5°	97.6	101.1	196.0	250.5	263.7	230.3	164.4	441.2	533.5	529.1	180.2
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°	3140.2	3140.2	3140.2	3140.2	3140.2	3140.2	3140.2	3140.2	3140.2	3140.2	3140.2
2.5°	3156.1	3127.9	3086.6	3040.9	3004.9	2968.0	2940.7	2926.7	2910.9	2897.7	2913.5
5°	3189.5	3136.7	3048.8	2962.7	2899.4	2843.2	2802.8	2781.7	2762.3	2749.1	2750.9
7.5°	3243.9	3158.7	3011.0	2885.4	2797.5	2736.8	2695.5	2681.5	2669.2	2665.6	2670.0
10°	3302.0	3176.3	2960.9	2794.0	2693.8	2643.7	2625.2	2634.9	2643.7	2651.6	2660.4
12.5°	3367.9	3192.1	2888.0	2686.7	2601.5	2582.2	2600.6	2642.8	2673.6	2692.0	2703.4
15°	3454.0	3206.2	2803.6	2579.5	2522.4	2544.4	2606.8	2679.7	2733.3	2767.6	2772.9
17.5°	3533.1	3205.3	2695.5	2471.4	2458.2	2522.4	2616.4	2719.3	2791.3	2839.7	2849.3
20°	3614.8	3181.5	2569.8	2365.9	2393.2	2498.7	2620.8	2744.7	2831.8	2888.0	2901.2
22.5°	3691.3	3140.2	2431.9	2270.1	2338.7	2467.0	2604.1	2729.8	2816.8	2862.5	2876.6
25°	3743.2	3068.2	2292.1	2189.3	2290.4	2428.3	2549.6	2650.7	2715.7	2738.6	2742.1
27.5°	3769.5	2974.1	2160.3	2119.0	2240.3	2365.1	2448.6	2498.7	2517.1	2515.4	2511.8
30°	3773.0	2850.2	2046.9	2061.9	2182.3	2271.9	2311.5	2301.8	2278.1	2237.6	2241.1
32.5°	3761.6	2710.5	1952.0	2007.4	2108.4	2158.5	2160.3	2113.7	2050.4	1986.3	1968.7
35°	3765.1	2573.4	1868.5	1945.8	2018.8	2040.8	2020.5	1952.0	1865.9	1783.2	1765.7
37.5°	3803.8	2453.8	1796.4	1874.7	1919.5	1924.7	1895.7	1823.7	1760.4	1679.5	1672.5
40°	3896.1	2368.6	1727.9	1794.7	1820.2	1822.8	1781.5	1730.5	1735.8	1692.7	1691.8
42.5°	4062.2	2331.7	1667.2	1711.2	1727.0	1732.3	1700.6	1668.1	1713.8	1685.7	1676.0
45°	4276.6	2340.5	1616.3	1629.4	1658.4	1683.1	1663.7	1624.2	1641.7	1519.6	1479.2
47.5°	4524.5	2396.7	1575.8	1559.1	1609.2	1655.8	1625.9	1566.2	1503.8	1382.5	1359.6
50°	4814.5	2483.7	1538.9	1489.7	1555.6	1618.9	1589.0	1503.8	1409.7	1350.8	1342.9
52.5°	5116.8	2590.1	1502.0	1413.2	1487.9	1590.8	1575.8	1489.7	1373.7	1315.7	1305.1
55°	5459.6	2697.3	1455.4	1324.5	1415.0	1577.6	1569.7	1438.7	1346.4	1313.9	1306.0
57.5°	5885.9	2819.4	1393.9	1232.2	1346.4	1530.1	1505.5	1408.0	1318.3	1293.7	1291.1
60°	6441.3	2999.6	1305.1	1133.8	1263.0	1457.2	1451.9	1363.1	1273.5	1255.9	1252.4
62.5°	7274.5	3297.6	1183.0	1035.3	1169.8	1333.3	1381.6	1302.5	1226.0	1225.2	1226.9
65°	8566.5	3745.8	1050.3	949.2	1075.8	1228.7	1299.9	1240.1	1177.7	1195.3	1197.9
67.5°	10064.1	4117.6	920.2	864.8	980.0	1129.4	1226.0	1177.7	1113.5	1159.2	1160.1
70°	10562.4	3785.3	805.9	781.3	880.6	1033.6	1146.1	1109.1	1044.1	1089.8	1085.4
72°	9829.4	3055.9	732.1	718.0	805.9	954.5	1074.9	1045.0	980.8	1011.6	1000.2
72.5°	9598.3	2913.5	713.7	702.2	785.7	934.3	1056.4	1029.2	965.0	991.4	980.8
75°	8562.1	2530.3	613.5	616.1	685.5	835.8	952.7	943.9	878.0	880.6	877.1
77.5°	6210.2	1855.3	516.8	534.4	583.6	734.7	848.1	842.8	770.8	757.6	755.0
80°	2881.8	946.6	421.0	428.9	479.9	614.3	723.3	716.3	658.3	641.6	631.9
82.5°	987.0	450.0	316.4	321.7	371.8	494.8	627.5	623.1	574.8	542.3	522.1
85°	352.4	224.1	221.5	216.2	265.4	389.3	546.7	522.9	451.7	384.9	383.2
87.5°	114.3	95.8	114.3	113.4	154.7	263.7	397.3	338.4	327.8	272.5	267.2
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)