

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: P457112

Luminaire Tested: **GLAN-SA8B-830-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457112  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA8B-830-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37211 lumens  
Efficiency: N/A  
Efficacy: 114.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

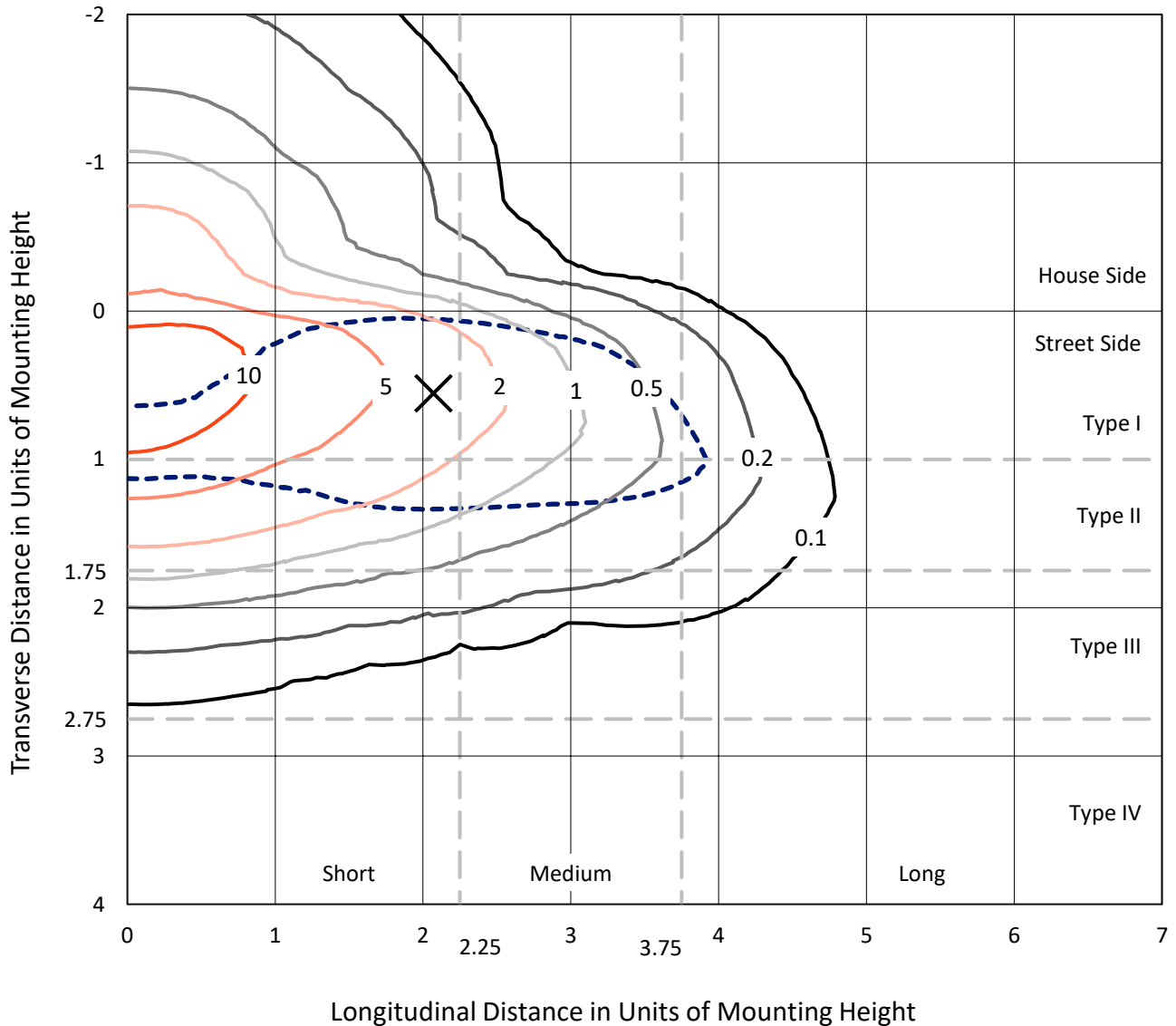
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P457112  
 CATALOG NUMBER: GLAN-SA8B-830-U-T2R

### Iso-Footcandle Lines of Horizontal Illumination

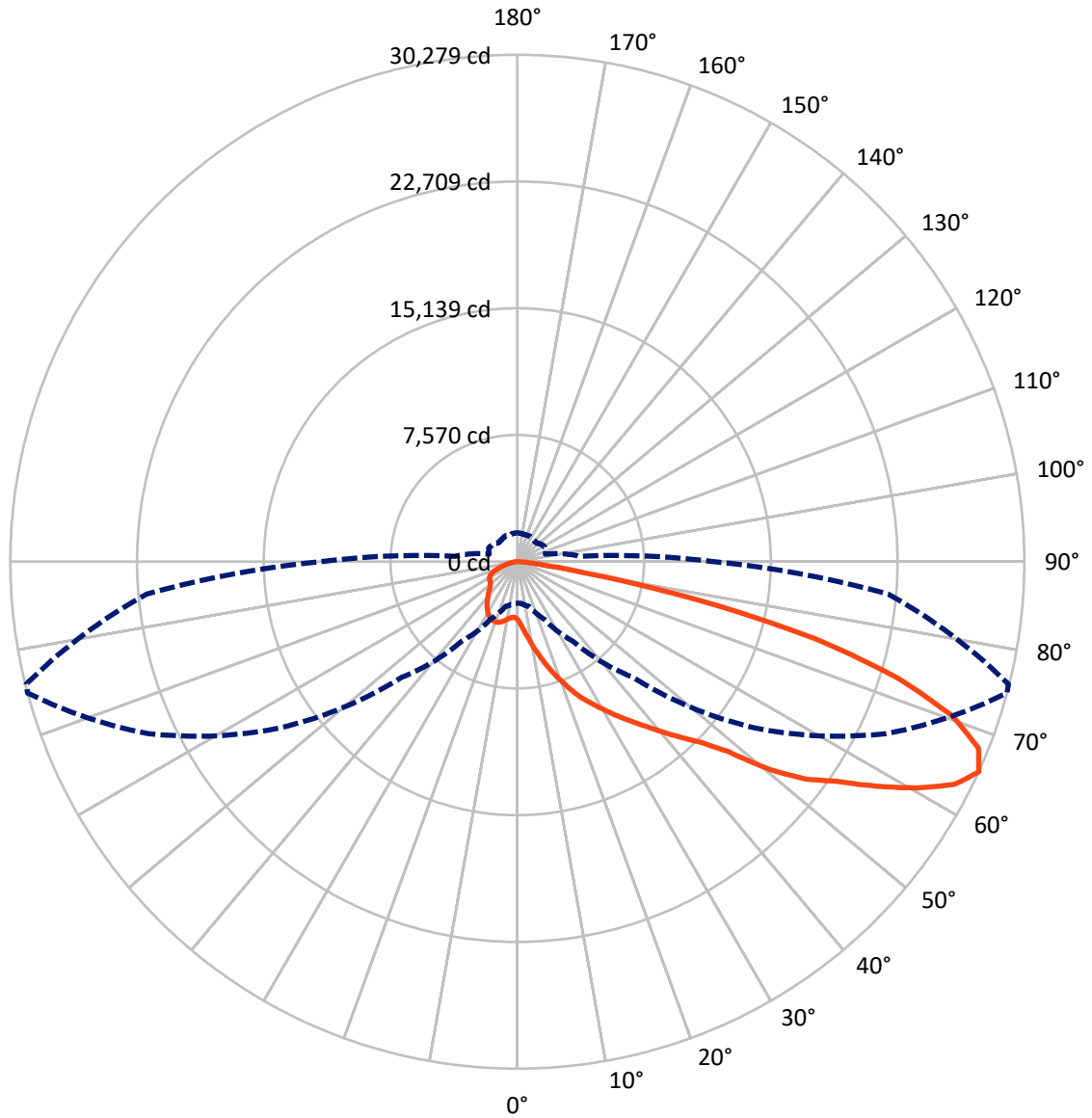
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 fc  
 Type II - Short - N/A

REPORT NUMBER: P457112  
CATALOG NUMBER: GLAN-SA8B-830-U-T2R

### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P457112

CATALOG NUMBER: GLAN-SA8B-830-U-T2R

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6255.7	0.0	6255.7
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	30955.4	0.0	30955.4
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	37211.0	0.0	37211.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	420.1	1.1
10°-20°	1645.3	4.4
20°-30°	3178.2	8.5
30°-40°	5162.4	13.9
40°-50°	7101.3	19.1
50°-60°	8384.2	22.5
60°-70°	7345.9	19.7
70°-80°	3507.0	9.4
80°-90°	466.6	1.3
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°	37211.0	100.0
0°-180°	37211.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P457112

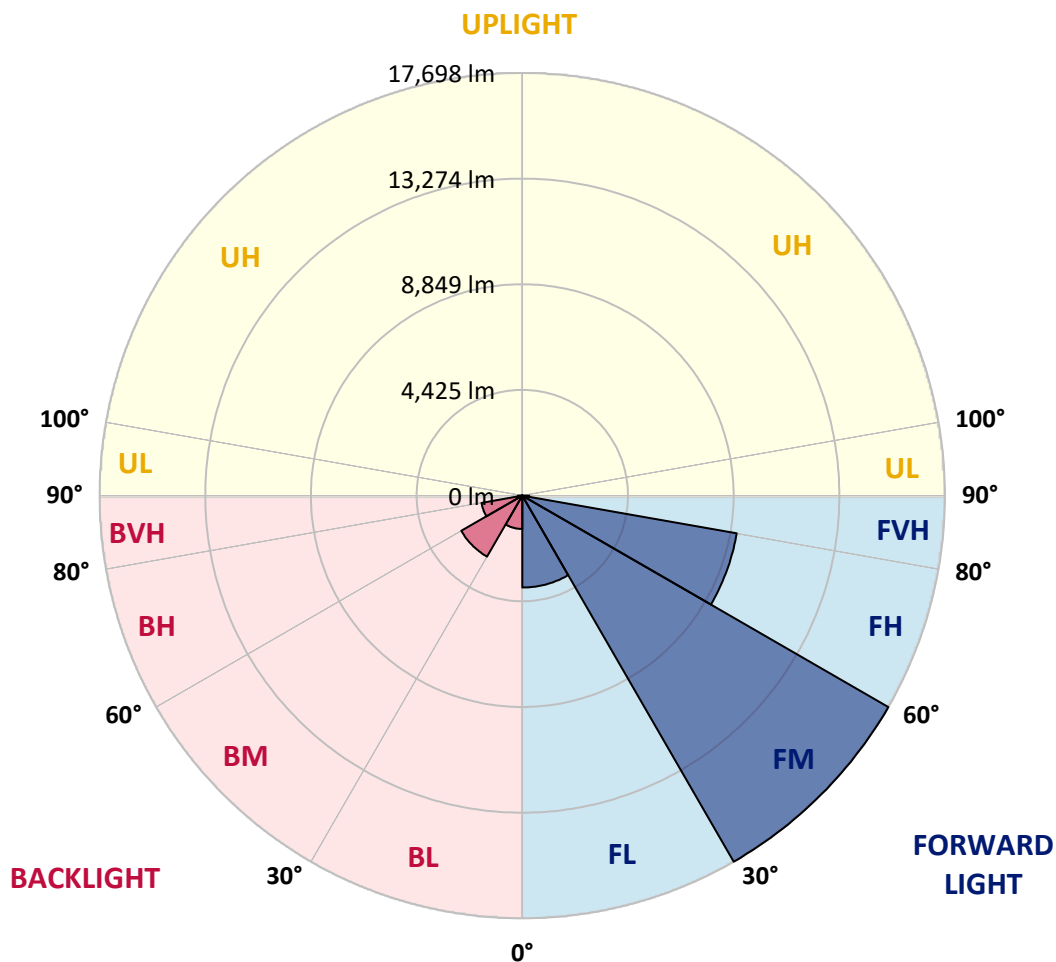
CATALOG NUMBER: GLAN-SA8B-830-U-T2R

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3847.0	10.3			
FM	(30°-60°)	17698.3	47.6			
FH	(60°-80°)	9118.4	24.5			G4/12000
FVH	(80°-90°)	291.6	0.8			G3/500
BL	(0°-30°)	1396.6	3.8	B3/2500		
BM	(30°-60°)	2949.5	7.9	B3/5000		
BH	(60°-80°)	1734.6	4.7	B3/2500		G3/2500
BVH	(80°-90°)	175.0	0.5			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 II Short





REPORT NUMBER: P457112

CATALOG NUMBER: GLAN-SA8B-830-U-T2R

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3457.4	3457.4	3457.4	3457.4	3457.4	3457.4	3457.4	3457.4	3457.4	3457.4	3457.4
2.5°	4593.7	4563.4	4531.1	4442.3	4347.4	4240.5	4087.1	3939.7	3744.0	3737.9	3592.6
5°	5867.2	5847.1	5703.8	5621.0	5401.0	5108.4	4860.1	4474.6	4117.4	4075.0	3792.4
7.5°	7037.9	6959.1	6904.7	6755.3	6537.3	6161.9	5681.6	5160.8	4563.4	4506.9	4038.6
10°	7919.9	7911.8	7883.5	7754.4	7590.9	7217.5	6684.7	5937.9	5128.5	5017.5	4337.4
12.5°	8579.9	8585.9	8581.9	8579.9	8462.8	8145.9	7568.7	6781.5	5699.7	5621.0	4682.5
15°	9013.8	9074.3	9098.6	9199.5	9209.6	8997.6	8501.1	7596.9	6343.6	6226.5	5053.9
17.5°	9300.4	9330.7	9443.7	9615.2	9754.5	9716.2	9274.2	8351.8	7001.5	6805.8	5439.4
20°	9574.9	9627.4	9714.1	9948.3	10194.5	10307.5	9996.7	9124.8	7653.4	7528.3	5865.2
22.5°	10146.1	10220.7	10251.0	10370.1	10580.0	10779.8	10638.5	9865.5	8367.9	8198.4	6317.3
25°	11112.8	11191.6	11106.8	11078.5	11147.1	11246.0	11215.8	10563.9	9042.0	8799.8	6745.2
27.5°	12372.3	12382.4	12216.9	12059.4	11889.9	11839.4	11746.6	11183.5	9627.4	9425.5	7175.1
30°	13724.5	13676.1	13401.6	13117.0	12830.4	12547.9	12281.4	11780.9	10279.3	10047.2	7596.9
32.5°	14979.9	14953.7	14648.9	14206.9	13722.5	13456.1	12917.2	12384.4	10977.6	10753.6	8030.9
35°	15920.5	15958.8	15623.8	15141.4	14612.6	14376.5	13696.3	13018.1	11700.2	11456.0	8503.2
37.5°	16588.5	16568.3	16271.6	15853.9	15389.6	15183.8	14606.5	13710.4	12477.2	12243.1	9019.8
40°	16826.7	16814.6	16594.6	16289.8	15995.1	15922.5	15559.2	14457.2	13367.3	13092.8	9641.5
42.5°	16675.3	16701.5	16556.2	16473.5	16419.0	16471.5	16505.8	15436.1	14338.1	14085.8	10315.6
45°	16211.1	16197.0	16176.8	16312.0	16618.8	16963.9	17442.3	16360.5	15393.7	15191.8	11219.8
47.5°	15381.6	15482.5	15532.9	15906.3	16576.4	17393.8	18520.0	17599.7	16925.6	16750.0	12598.3
50°	14221.0	14301.8	14600.5	15264.5	16263.6	17555.3	19573.6	19626.1	19480.8	19151.8	14095.9
52.5°	12408.6	12533.7	13149.3	14366.4	15621.8	17488.7	20211.4	21363.9	21555.6	21309.4	15571.3
55°	10380.2	10555.8	11205.7	12802.2	14737.7	17125.4	20651.4	22371.0	23135.9	22907.9	16992.2
57.5°	8394.2	8579.9	9247.9	10793.9	13195.7	16322.1	20940.0	23493.2	25287.5	24990.8	18760.2
60°	6291.1	6484.8	7058.0	8650.5	10999.8	14751.9	20744.2	24466.0	27437.0	27309.8	20530.3
62.5°	4058.8	4272.8	4771.3	6089.3	8454.7	12606.4	19696.7	25002.9	29297.8	29144.5	21822.0
65°	2472.4	2496.7	2771.1	3780.3	5786.5	9760.6	17301.0	24290.4	30278.7	30232.3	22215.6
67.5°	1598.5	1636.9	1762.0	2264.5	3469.5	6779.5	13833.5	21939.1	29705.5	29689.4	21402.2
70°	1350.3	1362.4	1418.9	1527.9	2016.3	4111.3	9714.1	18191.1	27527.8	27527.8	19446.5
72.5°	1207.0	1223.1	1243.3	1277.6	1439.1	2329.1	5796.6	14160.5	23767.7	23925.1	16552.2
75°	1095.9	1091.9	1104.0	1110.1	1227.1	1521.8	2997.2	10473.0	18386.8	18072.0	11986.8
77.5°	938.5	944.6	938.5	964.8	1083.8	1158.5	1521.8	7027.8	11143.1	10735.4	6016.6
80°	771.0	781.1	791.2	807.3	926.4	880.0	914.3	3203.1	4121.4	4034.6	1858.9
82.5°	579.3	593.4	609.5	647.9	728.6	581.3	577.2	1368.4	1487.5	1362.4	684.2
85°	234.1	276.5	417.8	456.1	458.2	318.9	355.2	571.2	607.5	593.4	268.4
87.5°	54.5	64.6	135.2	203.8	187.7	119.1	131.2	185.7	211.9	195.8	90.8
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: P457112  
 CATALOG NUMBER: GLAN-SA8B-830-U-T2R

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3457.4	3457.4	3457.4	3457.4	3457.4	3457.4	3457.4	3457.4	3457.4	3457.4	3457.4
2.5°	3526.0	3455.4	3334.3	3241.4	3174.8	3116.3	3079.9	3057.7	3049.7	3047.7	3049.7
5°	3645.1	3519.9	3328.2	3207.1	3140.5	3102.1	3079.9	3077.9	3079.9	3082.0	3075.9
7.5°	3808.6	3628.9	3378.7	3265.6	3215.2	3186.9	3176.8	3172.8	3174.8	3172.8	3172.8
10°	4026.5	3780.3	3477.6	3360.5	3318.1	3285.8	3269.7	3259.6	3251.5	3243.4	3239.4
12.5°	4266.7	3947.8	3584.5	3471.5	3411.0	3360.5	3324.2	3297.9	3279.8	3261.6	3257.6
15°	4535.2	4125.4	3703.6	3546.2	3459.4	3384.7	3322.1	3279.8	3247.5	3221.2	3219.2
17.5°	4791.5	4293.0	3784.3	3580.5	3453.3	3348.4	3265.6	3207.1	3166.7	3132.4	3128.4
20°	5066.0	4452.4	3820.7	3558.3	3392.8	3265.6	3156.6	3086.0	3039.6	3001.2	2995.2
22.5°	5342.5	4587.6	3816.6	3487.6	3287.8	3138.5	3023.4	2948.8	2894.3	2855.9	2841.8
25°	5606.9	4696.6	3766.2	3374.6	3142.5	2987.1	2870.0	2801.4	2753.0	2706.6	2706.6
27.5°	5845.0	4761.2	3671.3	3237.4	2993.2	2829.7	2736.8	2674.3	2629.9	2599.6	2581.4
30°	6079.2	4791.5	3542.1	3063.8	2835.7	2696.5	2621.8	2585.5	2545.1	2510.8	2506.7
32.5°	6289.1	4785.4	3380.7	2894.3	2686.4	2587.5	2557.2	2528.9	2486.6	2438.1	2426.0
35°	6492.9	4745.1	3188.9	2708.6	2561.2	2522.9	2531.0	2490.6	2413.9	2353.4	2343.3
37.5°	6714.9	4672.4	2979.0	2557.2	2456.3	2492.6	2512.8	2424.0	2298.9	2204.0	2181.8
40°	6971.3	4589.6	2761.1	2405.8	2373.5	2464.4	2464.4	2300.9	2129.3	2070.8	2054.6
42.5°	7272.0	4521.0	2579.4	2278.7	2304.9	2395.7	2385.6	2137.4	2066.8	2036.5	2028.4
45°	7748.3	4496.8	2391.7	2167.7	2248.4	2315.0	2232.3	2080.9	2040.5	2016.3	2008.2
47.5°	8501.1	4525.1	2226.2	2084.9	2183.8	2234.3	2060.7	2042.5	2014.3	1980.0	1975.9
50°	9199.5	4498.8	2109.1	2038.5	2127.3	2137.4	1990.1	1996.1	1980.0	1941.6	1933.5
52.5°	9770.7	4416.1	2034.5	2014.3	2078.9	1967.9	1923.5	1945.7	1939.6	1891.2	1883.1
55°	10398.4	4365.6	1998.1	2014.3	2046.6	1820.5	1860.9	1893.2	1885.1	1850.8	1848.8
57.5°	11159.3	4375.7	1971.9	2020.3	2014.3	1745.8	1798.3	1836.7	1834.6	1824.6	1824.6
60°	11938.3	4379.7	1931.5	2018.3	1975.9	1687.3	1733.7	1788.2	1792.3	1798.3	1798.3
62.5°	12196.7	4204.1	1852.8	1982.0	1891.2	1630.8	1673.2	1747.9	1743.8	1760.0	1762.0
65°	11714.3	3717.7	1735.8	1899.2	1782.2	1590.4	1626.8	1695.4	1673.2	1715.6	1723.6
67.5°	10662.8	3075.9	1554.1	1749.9	1661.1	1548.0	1596.5	1622.7	1582.4	1665.1	1667.1
70°	9215.6	2401.8	1324.0	1538.0	1523.8	1503.6	1572.3	1531.9	1475.4	1576.3	1556.1
72.5°	7705.9	1834.6	1057.6	1257.4	1340.2	1437.0	1529.9	1414.8	1336.1	1366.4	1330.1
75°	5788.5	1356.3	849.7	984.9	1116.1	1342.2	1491.5	1273.6	1152.5	1124.2	1116.1
77.5°	2950.8	886.0	635.8	736.7	837.6	1213.0	1439.1	1108.1	954.7	910.3	890.1
80°	1053.6	551.0	448.1	508.6	565.1	1043.5	1257.4	916.3	740.7	732.6	740.7
82.5°	488.4	355.2	300.7	333.0	335.0	696.3	958.7	684.2	563.1	855.8	722.6
85°	209.9	177.6	169.5	165.5	153.4	310.8	538.9	367.3	573.2	256.3	236.1
87.5°	62.6	70.6	62.6	46.4	34.3	34.3	54.5	20.2	14.1	10.1	10.1
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)