

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: McGRAW-EDISON

Report Number: P530738

Luminaire Tested: **GALN-SA6A-727-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530738  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6A-727-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19929 lumens  
Efficiency: N/A  
Efficacy: 109.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

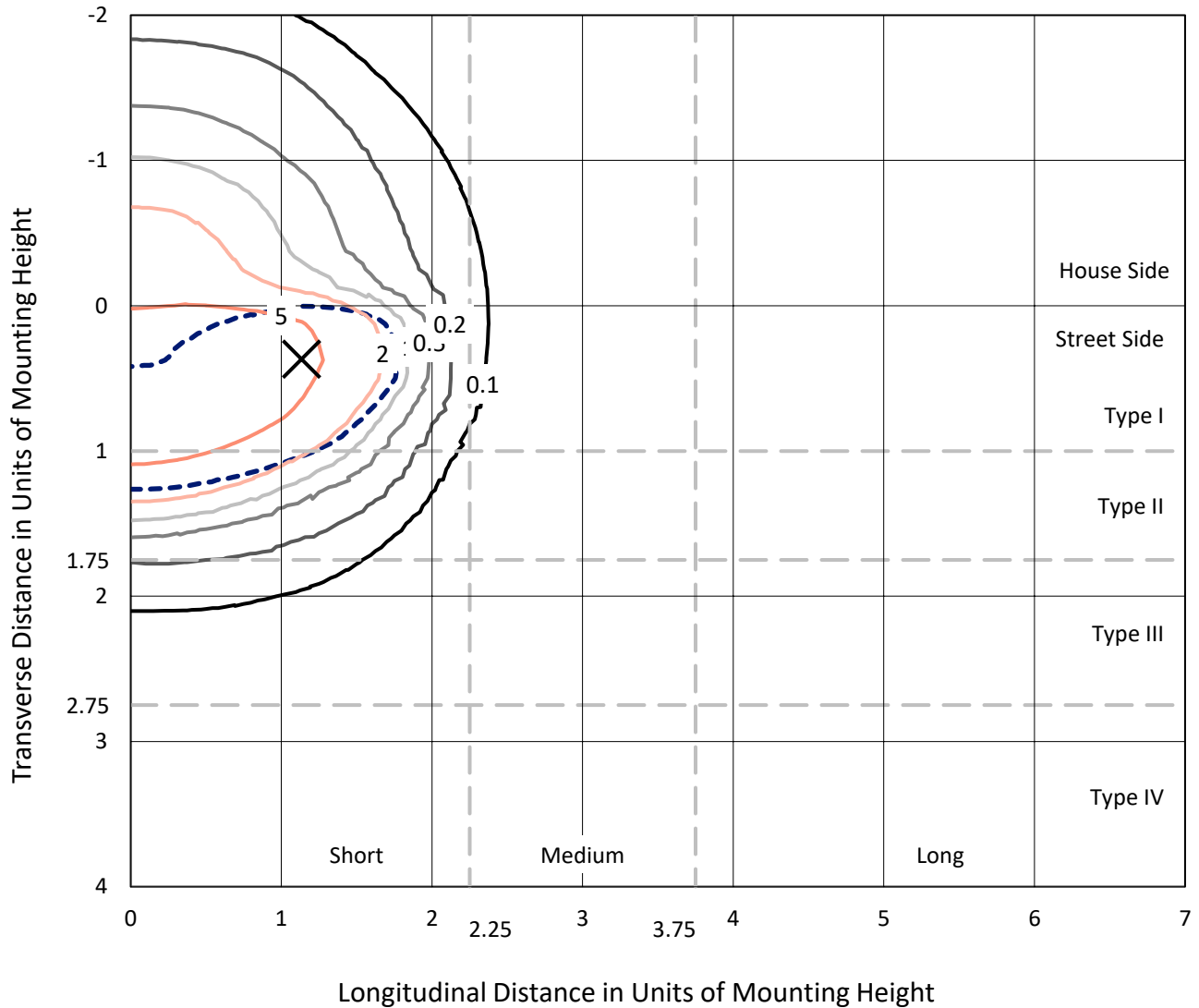
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P530738  
 CATALOG NUMBER: GALN-SA6A-727-U-T2R-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

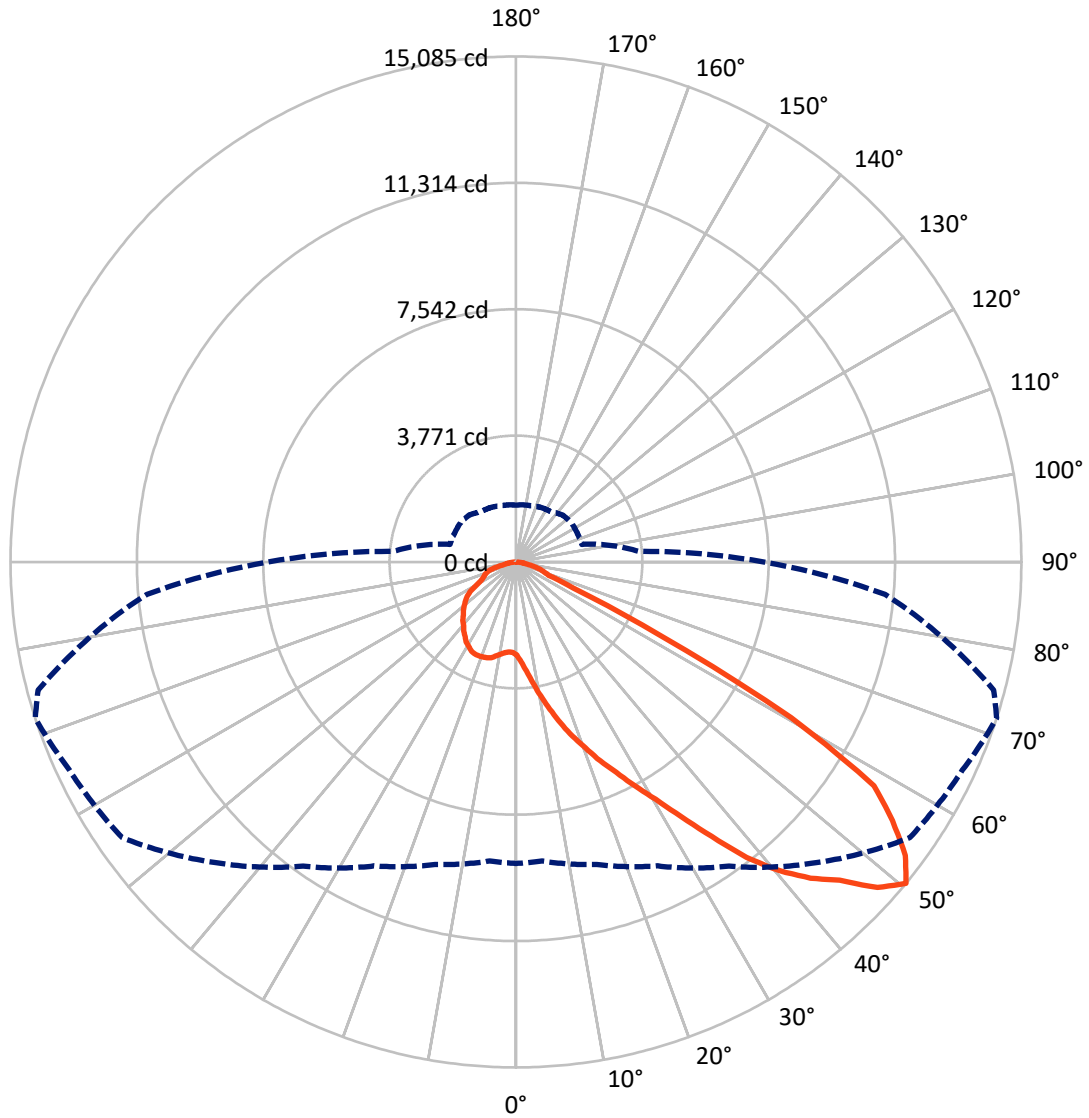
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc  
 Type II - Short - N/A

REPORT NUMBER: P530738  
CATALOG NUMBER: GALN-SA6A-727-U-T2R-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P530738  
 CATALOG NUMBER: GALN-SA6A-727-U-T2R-GRSWH

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4565.9	0.0	4565.9
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	15363.1	0.0	15363.1
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	19929.0	0.0	19929.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	326.3	1.6
10°-20°	1219.9	6.1
20°-30°	2365.3	11.9
30°-40°	3918.5	19.7
40°-50°	5482.9	27.5
50°-60°	4625.5	23.2
60°-70°	1409.9	7.1
70°-80°	494.6	2.5
80°-90°	86.0	0.4
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°	19929.0	100.0
0°-180°	19929.0	100.0

**Coefficient of Utilization**



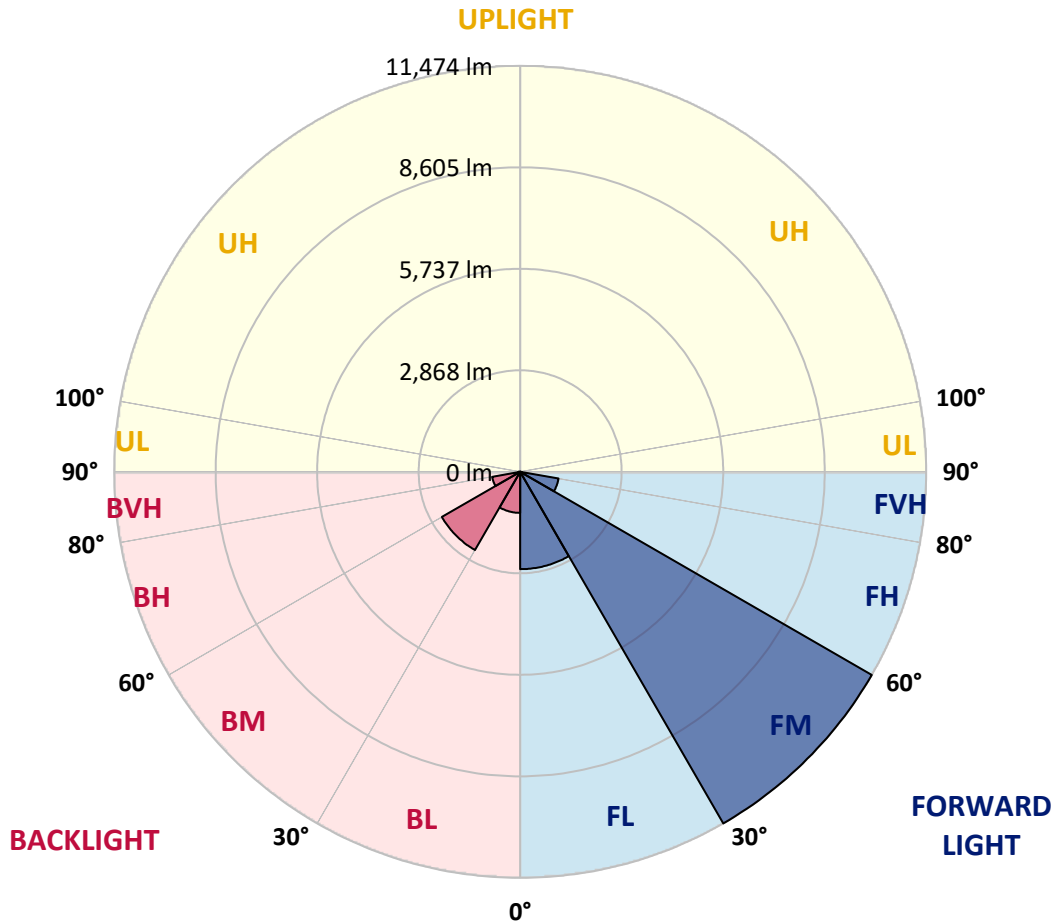
REPORT NUMBER: P530738  
 CATALOG NUMBER: GALN-SA6A-727-U-T2R-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2750.9	13.8			
FM (30°-60°)	11473.7	57.6			
FH (60°-80°)	1100.1	5.5			G1/1800
FVH (80°-90°)	38.5	0.2			G1/100
BL (0°-30°)	1160.7	5.8	B3/2500		
BM (30°-60°)	2553.3	12.8	B3/5000		
BH (60°-80°)	804.4	4.0	B2/1000		G2/1000
BVH (80°-90°)	47.5	0.2			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





REPORT NUMBER: P530738

CATALOG NUMBER: GALN-SA6A-727-U-T2R-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2774.3	2774.3	2774.3	2774.3	2774.3	2774.3	2774.3	2774.3	2774.3	2774.3	2774.3
2.5°	3568.3	3546.2	3479.6	3457.4	3378.5	3235.4	3186.1	3040.6	2979.0	2922.2	2855.7
5°	4512.8	4409.3	4401.9	4276.1	4093.6	3987.6	3671.9	3459.8	3265.0	3166.4	2983.9
7.5°	5114.6	5117.0	5117.0	5013.4	4867.9	4599.2	4315.6	3933.3	3639.9	3494.4	3183.6
10°	5686.7	5637.4	5610.2	5600.4	5501.7	5240.3	4937.0	4463.5	4061.6	3891.4	3334.1
12.5°	6091.1	6049.2	6110.8	6078.8	6007.3	5837.1	5551.0	5011.0	4507.9	4278.6	3575.7
15°	6283.5	6313.0	6362.4	6451.1	6419.1	6355.0	6039.3	5573.2	4988.8	4729.9	3790.3
17.5°	6579.4	6498.0	6557.2	6668.2	6756.9	6727.3	6547.3	5980.1	5464.7	5146.6	4078.8
20°	6786.5	6739.7	6769.3	6897.5	6964.1	7131.8	7038.1	6512.8	5920.9	5585.6	4419.1
22.5°	7378.4	7309.3	7213.1	7232.9	7257.5	7375.9	7398.1	7097.2	6451.1	6096.0	4742.2
25°	8108.3	8044.2	7930.8	7814.9	7743.3	7721.1	7797.6	7555.9	6959.1	6591.7	5089.9
27.5°	8912.2	8803.7	8732.2	8493.0	8300.7	8271.1	8234.1	8103.4	7560.9	7163.8	5482.0
30°	9694.0	9607.7	9511.5	9129.3	8929.5	8897.4	8715.0	8751.9	8214.4	7772.9	5925.9
32.5°	10285.8	10293.2	10073.7	9785.2	9597.8	9427.6	9361.1	9467.1	9052.8	8697.7	6421.5
35°	10764.2	10786.4	10576.8	10315.4	10113.2	10231.6	10202.0	10251.3	10054.0	9620.0	6998.6
37.5°	11230.3	11119.3	10894.9	10769.2	10663.1	10857.9	11109.5	11151.4	11188.4	10677.9	7669.4
40°	11306.8	11316.6	11185.9	11274.7	11141.5	11435.0	12019.4	11965.2	12115.6	11669.3	8396.8
42.5°	11198.3	11220.4	11272.2	11398.0	11718.6	12071.2	12939.3	12717.3	12899.8	12502.8	9104.6
45°	11020.7	10929.5	10993.6	11472.0	12026.8	12811.0	13780.2	13607.6	13548.4	13215.5	9948.0
47.5°	10172.4	10266.1	10465.8	11055.2	11888.7	12939.3	14377.0	14337.5	14515.1	14280.8	10714.9
50°	8996.1	8959.1	9343.8	10007.2	11082.4	12687.7	14344.9	14702.5	15084.7	14759.2	11057.7
52.5°	6737.2	6934.5	7264.9	8088.6	9622.5	11316.6	13644.6	14241.3	14552.1	14483.0	10781.5
55°	4258.8	4318.0	4517.8	5496.8	6877.8	9082.4	11696.4	13079.8	13634.7	13893.6	10527.5
57.5°	2069.0	1958.0	2202.2	2988.8	3972.8	6108.4	9020.7	11393.1	12599.0	13067.5	9975.1
60°	1080.1	1122.0	1218.2	1499.3	2054.2	3171.3	5622.6	7592.9	9435.0	10155.1	7560.9
62.5°	895.2	910.0	974.1	1114.6	1366.2	1824.9	2870.5	3701.5	4811.2	5459.8	4300.8
65°	759.5	766.9	836.0	929.7	1090.0	1284.8	1477.2	1546.2	1871.7	1921.0	1528.9
67.5°	633.8	641.2	715.1	803.9	907.5	959.3	1008.6	1003.7	1040.7	1025.9	1023.4
70°	488.3	495.7	572.1	665.8	717.6	688.0	840.9	875.4	890.2	902.6	922.3
72.5°	352.6	367.4	426.6	493.2	466.1	535.1	693.0	744.7	764.5	771.9	796.5
75°	256.5	261.4	276.2	256.5	295.9	372.4	488.3	552.4	577.1	584.4	621.4
77.5°	113.4	115.9	118.4	148.0	189.9	231.8	291.0	342.8	377.3	387.2	397.0
80°	59.2	61.7	76.4	101.1	135.6	170.2	212.1	241.7	263.9	266.3	276.2
82.5°	37.0	39.5	54.3	71.5	96.2	125.8	155.4	180.0	197.3	199.7	202.2
85°	17.3	22.2	32.1	44.4	64.1	81.4	83.8	71.5	76.4	78.9	74.0
87.5°	4.9	7.4	9.9	7.4	9.9	9.9	12.3	14.8	14.8	14.8	17.3
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: P530738

CATALOG NUMBER: GALN-SA6A-727-U-T2R-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2774.3	2774.3	2774.3	2774.3	2774.3	2774.3	2774.3	2774.3	2774.3	2774.3	2774.3
2.5°	2818.7	2796.5	2710.2	2678.1	2594.3	2609.1	2564.7	2562.2	2552.3	2549.9	2547.4
5°	2887.7	2818.7	2715.1	2636.2	2589.3	2584.4	2552.3	2552.3	2562.2	2569.6	2552.3
7.5°	3001.2	2922.2	2747.2	2673.2	2631.3	2623.9	2601.7	2584.4	2606.6	2599.2	2579.5
10°	3131.9	2993.8	2808.8	2744.7	2675.6	2658.4	2658.4	2665.8	2628.8	2641.1	2621.4
12.5°	3277.4	3092.4	2887.7	2813.7	2732.4	2722.5	2717.6	2663.3	2683.0	2673.2	2623.9
15°	3462.3	3205.8	2988.8	2863.1	2794.0	2749.6	2685.5	2675.6	2663.3	2638.7	2616.5
17.5°	3662.1	3329.1	3035.7	2877.9	2774.3	2742.2	2692.9	2641.1	2604.1	2609.1	2591.8
20°	3832.2	3442.6	3052.9	2892.7	2759.5	2697.8	2621.4	2589.3	2549.9	2547.4	2544.9
22.5°	4034.4	3595.5	3077.6	2853.2	2715.1	2651.0	2599.2	2542.5	2515.4	2480.8	2498.1
25°	4276.1	3654.7	3082.5	2831.0	2683.0	2569.6	2542.5	2480.8	2471.0	2421.6	2431.5
27.5°	4451.2	3686.7	3043.1	2762.0	2609.1	2522.8	2473.4	2429.0	2411.8	2374.8	2364.9
30°	4685.5	3736.0	2959.2	2675.6	2535.1	2438.9	2409.3	2399.4	2350.1	2310.7	2305.7
32.5°	4951.8	3768.1	2905.0	2586.9	2458.6	2384.7	2399.4	2352.6	2290.9	2256.4	2246.6
35°	5163.9	3780.4	2769.4	2485.8	2406.8	2360.0	2342.7	2332.9	2244.1	2212.0	2187.4
37.5°	5486.9	3753.3	2655.9	2414.2	2350.1	2332.9	2318.1	2251.5	2150.4	2103.5	2069.0
40°	5864.2	3745.9	2510.4	2313.1	2295.9	2315.6	2271.2	2167.6	2027.1	1975.3	1950.6
42.5°	6226.7	3797.7	2419.2	2258.9	2236.7	2244.1	2182.4	2027.1	1958.0	1928.4	1889.0
45°	6833.4	3906.2	2268.8	2175.0	2165.2	2160.2	2086.3	1923.5	1884.0	1847.1	1839.7
47.5°	7380.8	3834.7	2172.6	2088.7	2098.6	2071.5	1913.6	1861.9	1817.5	1780.5	1768.1
50°	7412.9	3664.5	2036.9	2022.1	2024.6	1977.8	1827.3	1792.8	1736.1	1711.4	1694.2
52.5°	7245.2	3385.9	1911.2	1916.1	1923.5	1847.1	1721.3	1696.6	1649.8	1615.3	1605.4
55°	6774.2	2951.8	1787.9	1807.6	1827.3	1681.8	1642.4	1580.7	1543.7	1494.4	1496.9
57.5°	5967.8	2377.3	1615.3	1647.3	1689.2	1528.9	1499.3	1422.9	1368.6	1329.2	1324.3
60°	3999.9	1691.7	1356.3	1368.6	1462.4	1398.2	1395.8	1319.3	1245.3	1210.8	1191.1
62.5°	2360.0	1292.2	1171.4	1159.0	1156.6	1193.6	1255.2	1228.1	1131.9	1065.3	1085.1
65°	1235.5	1117.1	1090.0	1048.1	1023.4	1013.5	1060.4	1072.7	1008.6	937.1	932.2
67.5°	1038.2	1038.2	1016.0	1001.2	966.7	924.8	895.2	855.7	845.8	826.1	801.5
70°	944.5	969.2	961.8	927.2	897.6	850.8	774.3	710.2	648.6	626.4	641.2
72.5°	823.7	848.3	848.3	831.1	791.6	720.1	646.1	572.1	520.3	480.9	475.9
75°	633.8	646.1	675.7	656.0	604.2	559.8	483.3	406.9	357.6	320.6	313.2
77.5°	404.4	424.2	424.2	421.7	384.7	342.8	293.5	239.2	202.2	175.1	167.7
80°	268.8	281.1	291.0	281.1	256.5	224.4	187.4	150.4	123.3	101.1	96.2
82.5°	197.3	212.1	219.5	209.6	185.0	160.3	133.2	106.0	78.9	61.7	56.7
85°	76.4	78.9	88.8	106.0	103.6	101.1	81.4	59.2	44.4	32.1	29.6
87.5°	19.7	17.3	19.7	19.7	17.3	14.8	14.8	14.8	14.8	7.4	9.9
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)