

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: P530037

Luminaire Tested: **GALN-SA5B-727-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530037  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5B-727-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14232 lumens  
Efficiency: N/A  
Efficacy: 69.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

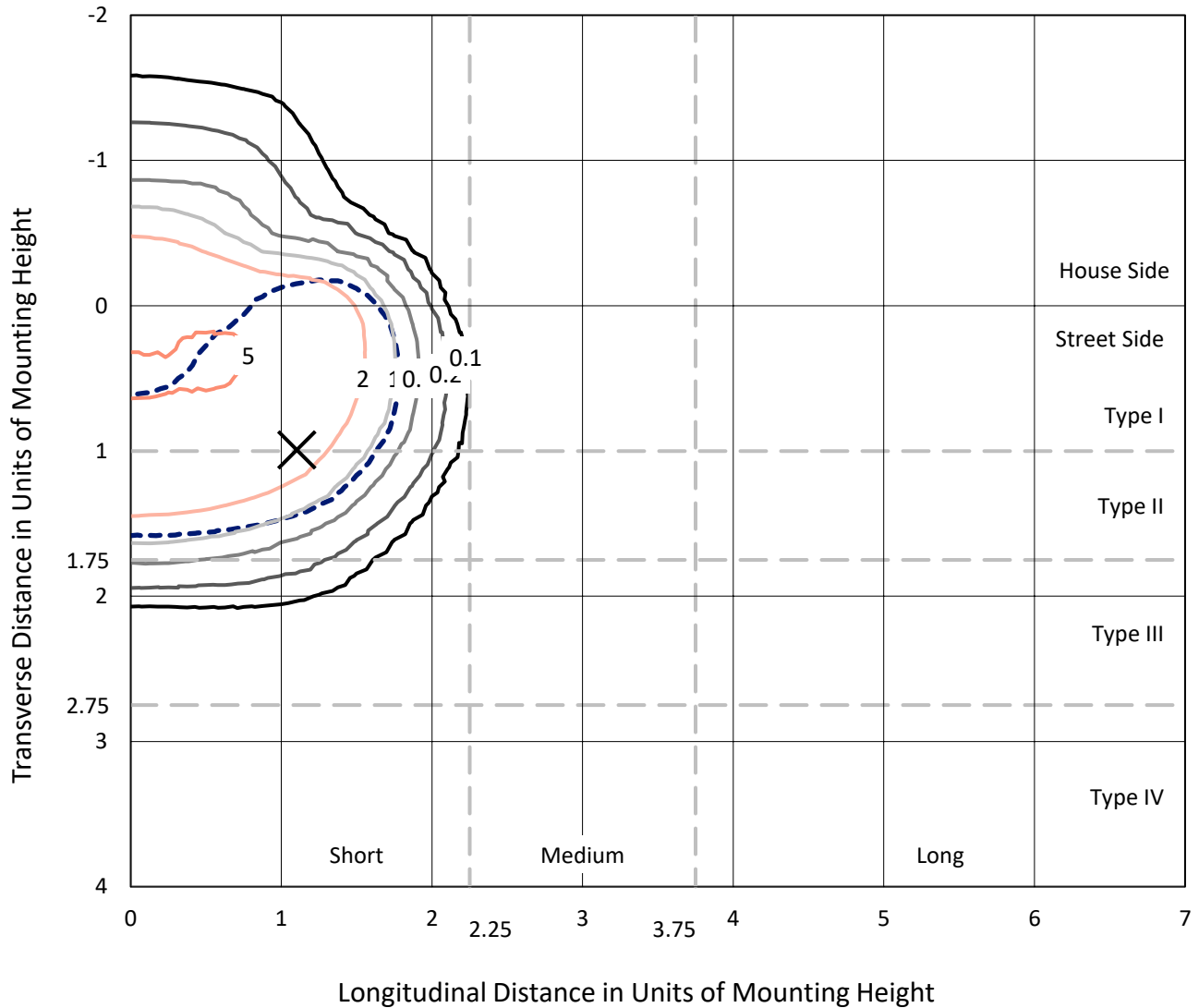
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P530037  
 CATALOG NUMBER: GALN-SA5B-727-U-T3-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

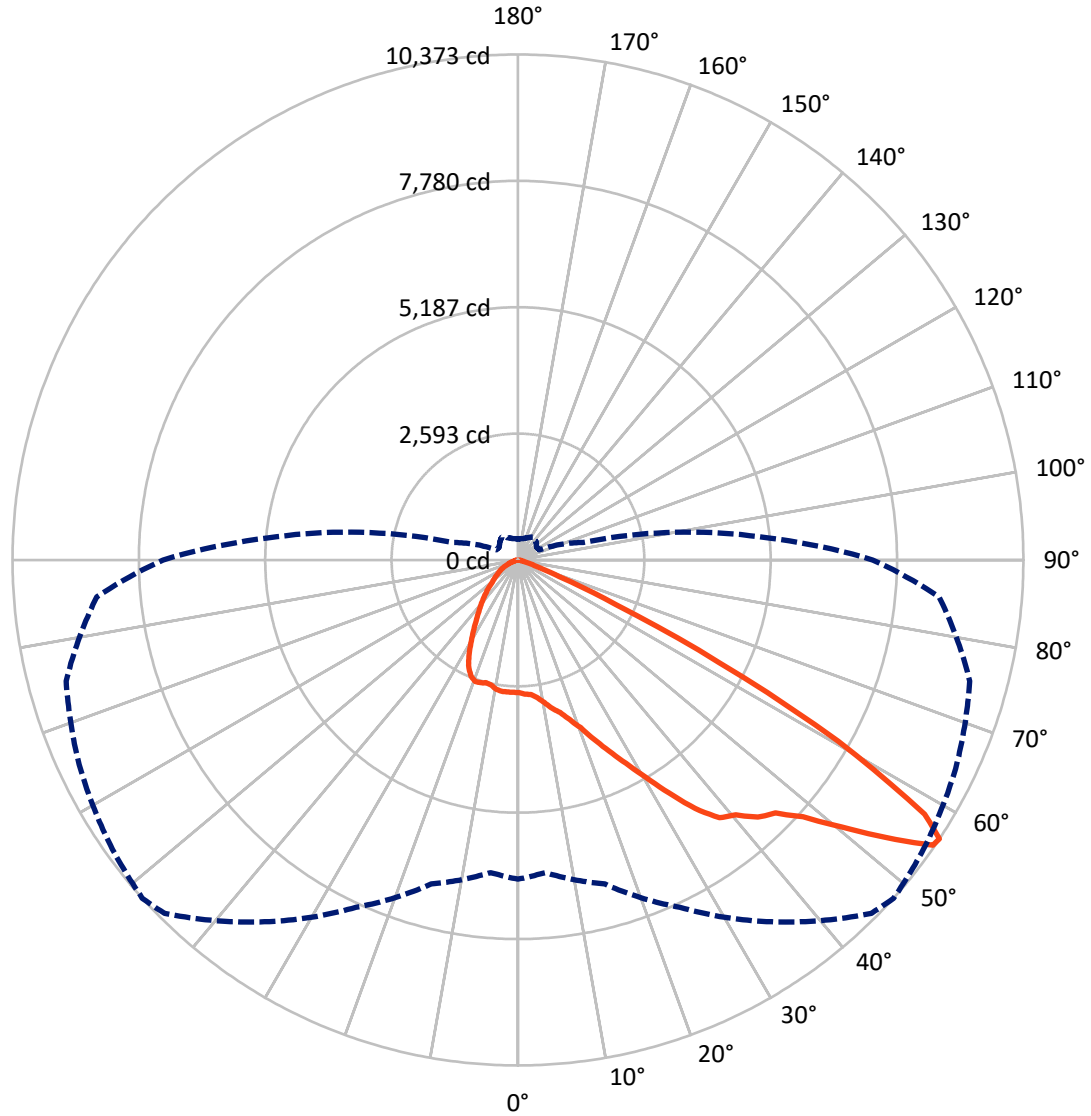
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type II - Short - N/A

REPORT NUMBER: P530037  
CATALOG NUMBER: GALN-SA5B-727-U-T3-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P530037  
 CATALOG NUMBER: GALN-SA5B-727-U-T3-GRSBK

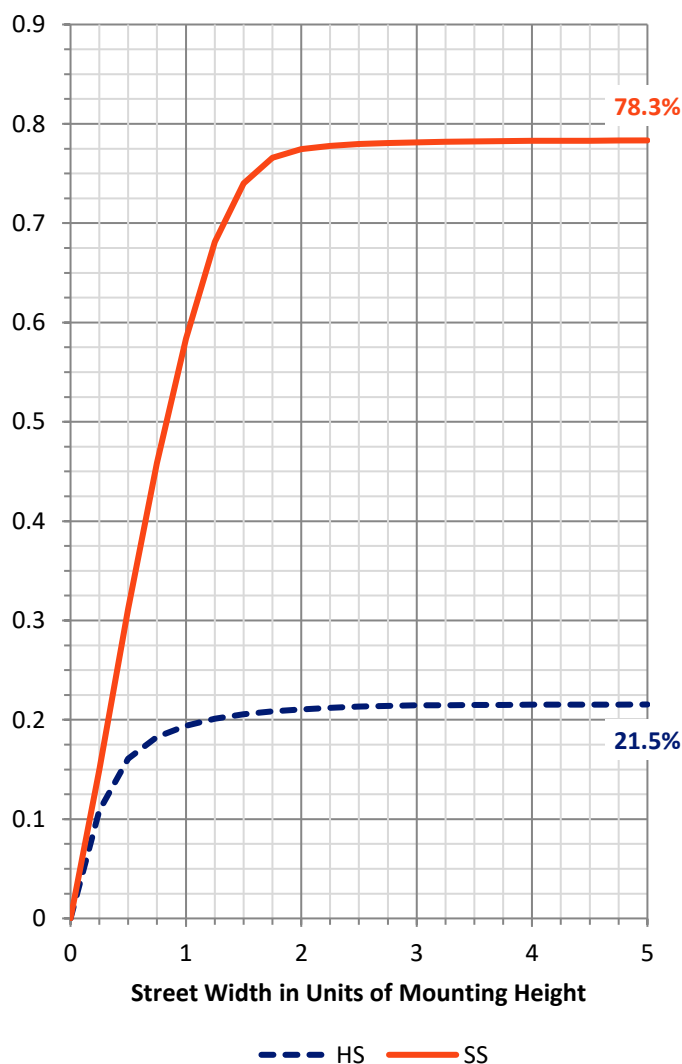
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3095.2	0.0	3095.2
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	11136.8	0.0	11136.8
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	14232.0	0.0	14232.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	264.8	1.9
10°-20°	846.2	5.9
20°-30°	1534.9	10.8
30°-40°	2411.0	16.9
40°-50°	3517.2	24.7
50°-60°	4237.6	29.8
60°-70°	1240.7	8.7
70°-80°	157.4	1.1
80°-90°	22.1	0.2
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°	14232.0	100.0
0°-180°	14232.0	100.0

**Coefficient of Utilization**

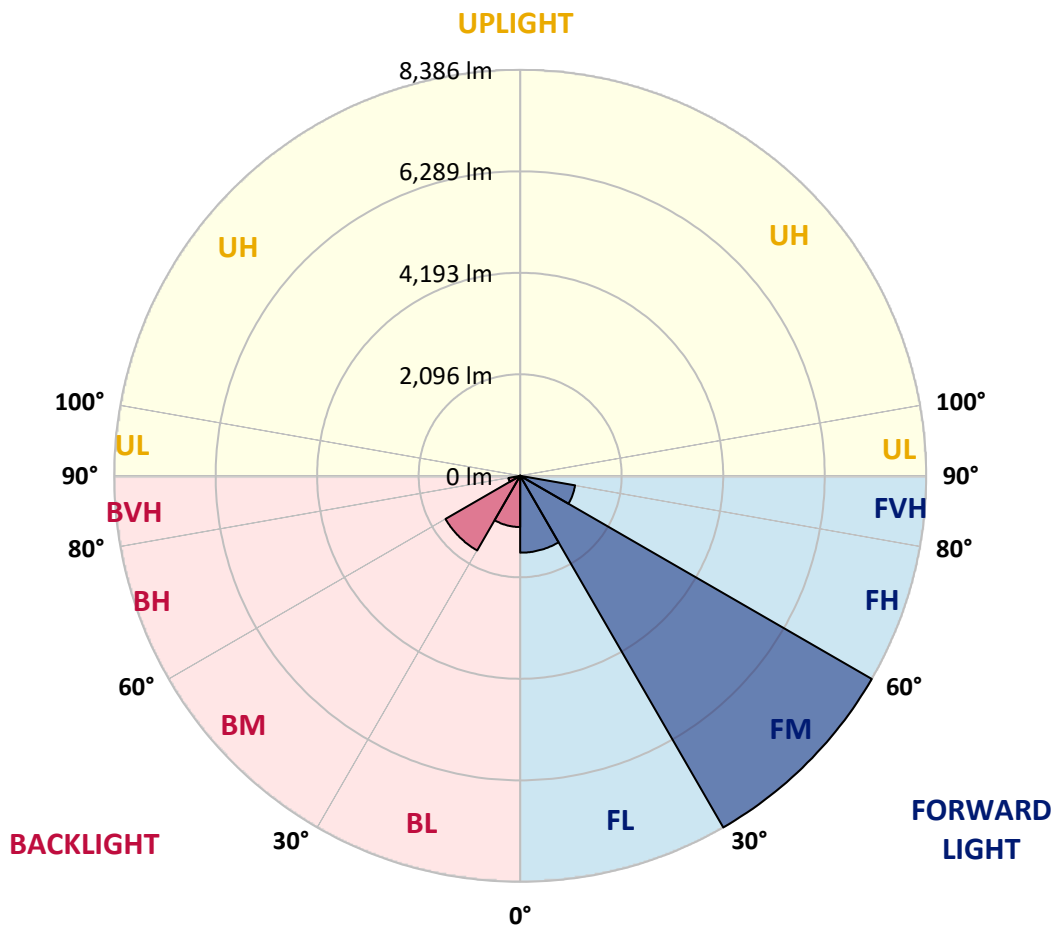


REPORT NUMBER: P530037  
 CATALOG NUMBER: GALN-SA5B-727-U-T3-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1588.0	11.2			
FM (30°-60°)	8385.5	58.9			
FH (60°-80°)	1152.2	8.1			G1/1800
FVH (80°-90°)	11.1	0.1			G1/100
BL (0°-30°)	1057.9	7.4	B3/2500		
BM (30°-60°)	1780.3	12.5	B2/2500		
BH (60°-80°)	245.9	1.7	B1/500		G1/500
BVH (80°-90°)	11.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**  
 Type II Short





REPORT NUMBER: P530037

CATALOG NUMBER: GALN-SA5B-727-U-T3-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	2718.3	2718.3	2718.3	2718.3	2718.3	2718.3	2718.3	2718.3	2718.3	2718.3	2718.3
2.5°	2767.6	2754.6	2754.6	2733.9	2757.2	2746.8	2754.6	2728.7	2754.6	2715.7	2746.8
5°	2780.5	2783.1	2772.7	2785.7	2785.7	2801.2	2775.3	2798.6	2811.6	2783.1	2770.1
7.5°	2847.9	2853.1	2850.5	2840.1	2860.8	2858.3	2855.7	2837.5	2842.7	2832.3	2816.8
10°	2980.0	2977.5	2990.4	2964.5	2948.9	2967.1	2972.3	2943.8	2923.0	2915.3	2866.0
12.5°	3171.8	3140.7	3122.6	3096.7	3104.4	3078.5	3125.2	3075.9	3065.6	3018.9	2969.7
15°	3327.3	3322.1	3324.7	3283.2	3236.6	3247.0	3247.0	3221.0	3205.5	3148.5	3078.5
17.5°	3646.0	3537.2	3560.5	3508.7	3469.8	3467.2	3443.9	3449.1	3407.6	3288.4	3182.2
20°	3894.8	3848.1	3811.9	3723.8	3664.2	3682.3	3671.9	3646.0	3633.1	3477.6	3327.3
22.5°	4117.6	4133.2	4073.6	4050.3	3967.3	3975.1	3995.8	3972.5	3874.1	3713.4	3490.5
25°	4431.2	4413.1	4332.7	4304.2	4226.5	4255.0	4335.3	4317.2	4255.0	3964.8	3617.5
27.5°	4801.8	4739.6	4755.1	4625.5	4550.4	4630.7	4726.6	4817.3	4641.1	4260.2	3767.8
30°	5063.5	4998.7	4993.5	4988.3	4970.2	5063.5	5174.9	5257.8	5115.3	4555.6	4016.6
32.5°	5193.1	5208.6	5252.7	5237.1	5395.2	5586.9	5703.5	5822.7	5643.9	5037.6	4345.7
35°	5537.7	5439.2	5537.7	5548.1	5711.3	6118.2	6265.9	6550.9	6506.9	5719.1	4747.3
37.5°	5739.8	5732.0	5745.0	5843.5	6001.5	6504.3	6714.2	6934.4	6851.5	6128.5	5247.5
40°	6074.1	6094.8	6092.2	6167.4	6341.0	6794.5	6880.0	7058.8	7066.6	6696.0	5983.4
42.5°	6610.5	6527.6	6473.2	6550.9	6794.5	7045.9	7216.9	7180.6	7437.2	7385.3	6929.2
45°	7092.5	7141.7	7061.4	7191.0	7279.1	7413.8	7408.6	7486.4	7812.9	8059.1	7641.9
47.5°	7543.4	7574.5	7613.4	7701.5	7893.2	7914.0	7869.9	7836.2	8287.1	8541.1	8193.8
50°	7812.9	7841.4	8022.8	8180.9	8538.5	8585.1	8611.0	8525.5	8831.3	8859.8	8714.7
52.5°	7740.3	7771.4	8025.4	8546.2	9116.3	9543.9	9466.2	9321.1	9302.9	9414.3	9196.7
55°	7097.7	7069.2	7419.0	8230.1	9297.7	10323.9	10334.3	10181.4	9888.6	9813.4	9124.1
56°	6550.9	6439.5	6885.2	7864.7	9064.5	10256.5	10373.1	10209.9	9935.2	9598.3	8675.8
57.5°	5366.7	5472.9	5916.0	6727.1	8258.6	9772.0	9839.3	9800.5	9593.1	9028.2	7634.1
60°	2959.3	3145.9	3537.2	4529.7	5879.8	7499.3	7553.8	7869.9	7908.8	6913.7	5252.7
62.5°	1256.8	1236.1	1642.9	2373.7	3348.0	4527.1	4628.1	4952.1	5011.7	3985.5	2635.4
65°	510.5	539.0	743.7	1194.6	1769.9	2062.7	2205.2	2311.5	2508.4	1645.5	971.8
67.5°	336.9	334.3	437.9	681.5	953.6	919.9	919.9	971.8	899.2	671.2	419.8
70°	241.0	248.8	313.6	471.6	593.4	440.5	422.4	404.2	458.7	443.1	339.5
72.5°	158.1	168.4	209.9	282.5	308.4	241.0	241.0	290.2	378.3	357.6	277.3
75°	103.7	106.2	129.6	163.3	152.9	124.4	137.3	194.4	274.7	264.3	196.9
77.5°	70.0	72.6	88.1	106.2	85.5	70.0	75.1	98.5	134.7	134.7	103.7
80°	25.9	28.5	36.3	33.7	38.9	49.2	54.4	67.4	80.3	80.3	70.0
82.5°	0.0	2.6	7.8	18.1	28.5	38.9	44.1	51.8	59.6	67.4	64.8
85°	0.0	2.6	7.8	13.0	20.7	23.3	25.9	18.1	15.5	15.5	13.0
87.5°	0.0	0.0	2.6	2.6	2.6	2.6	2.6	2.6	5.2	2.6	2.6
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: P530037

CATALOG NUMBER: GALN-SA5B-727-U-T3-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2718.3	2718.3	2718.3	2718.3	2718.3	2718.3	2718.3	2718.3	2718.3	2718.3	2718.3
2.5°	2718.3	2715.7	2715.7	2708.0	2723.5	2715.7	2720.9	2718.3	2684.6	2710.5	2692.4
5°	2746.8	2765.0	2736.5	2731.3	2710.5	2718.3	2718.3	2692.4	2715.7	2713.1	2708.0
7.5°	2819.4	2788.3	2757.2	2726.1	2720.9	2713.1	2684.6	2674.3	2692.4	2671.7	2702.8
10°	2850.5	2855.7	2809.0	2767.6	2728.7	2674.3	2635.4	2612.1	2583.6	2614.7	2632.8
12.5°	2993.0	2941.2	2860.8	2796.1	2663.9	2609.5	2570.6	2560.2	2609.5	2619.8	2601.7
15°	3042.2	3034.5	2930.8	2785.7	2648.4	2583.6	2591.3	2570.6	2575.8	2549.9	2555.1
17.5°	3143.3	3055.2	2933.4	2752.0	2645.8	2630.2	2583.6	2500.6	2454.0	2433.3	2451.4
20°	3254.7	3169.2	2993.0	2765.0	2669.1	2627.6	2474.7	2373.7	2277.8	2226.0	2228.6
22.5°	3353.2	3247.0	2967.1	2770.1	2689.8	2518.8	2334.8	2135.3	2016.1	1935.7	1938.3
25°	3472.4	3322.1	2977.5	2780.5	2635.4	2345.2	2080.8	1886.5	1744.0	1689.6	1707.7
27.5°	3539.8	3368.7	3034.5	2803.8	2492.9	2099.0	1813.9	1632.5	1549.6	1523.7	1521.1
30°	3741.9	3472.4	3104.4	2757.2	2254.5	1834.7	1570.4	1458.9	1378.6	1355.3	1360.5
32.5°	4042.5	3661.6	3195.1	2635.4	2010.9	1598.9	1412.3	1329.4	1254.2	1210.2	1205.0
35°	4293.9	3985.5	3291.0	2446.2	1728.4	1417.5	1300.9	1197.2	1083.2	1033.9	1021.0
37.5°	4773.3	4350.9	3270.3	2161.2	1458.9	1282.7	1181.7	1054.7	956.2	888.8	881.1
40°	5410.7	4778.4	3169.2	1813.9	1259.4	1163.5	1054.7	932.9	811.1	754.1	748.9
42.5°	6185.5	5301.9	2985.2	1461.5	1059.9	1044.3	945.8	805.9	697.1	655.6	658.2
45°	6815.2	5750.2	2798.6	1173.9	912.2	927.7	842.2	710.0	634.9	601.2	601.2
47.5°	7375.0	6053.4	2596.5	969.2	774.8	811.1	735.9	658.2	593.4	567.5	562.3
50°	7914.0	6361.7	2394.4	785.2	660.8	697.1	689.3	627.1	575.3	544.2	546.8
52.5°	8250.8	6411.0	2137.9	642.7	577.9	619.3	645.2	588.2	531.2	513.1	507.9
55°	7838.8	5776.1	1658.5	528.6	489.8	544.2	593.4	528.6	484.6	453.5	450.9
56°	7284.3	5164.5	1386.4	487.2	463.9	523.5	575.3	505.3	456.1	437.9	425.0
57.5°	6167.4	4226.5	1023.6	432.8	430.2	487.2	546.8	482.0	425.0	409.4	409.4
60°	3845.6	2378.9	619.3	362.8	373.2	432.8	492.4	430.2	378.3	378.3	386.1
62.5°	1751.7	989.9	375.7	308.4	321.3	373.2	437.9	388.7	360.2	388.7	393.9
65°	596.0	427.6	272.1	246.2	254.0	308.4	375.7	393.9	391.3	409.4	419.8
67.5°	334.3	274.7	228.0	204.7	199.5	228.0	308.4	393.9	378.3	370.6	375.7
70°	282.5	233.2	202.1	181.4	173.6	184.0	238.4	298.0	266.9	259.1	254.0
72.5°	228.0	194.4	176.2	163.3	139.9	119.2	108.8	114.0	127.0	134.7	147.7
75°	160.7	147.7	147.7	132.2	101.1	75.1	59.6	49.2	33.7	23.3	25.9
77.5°	90.7	90.7	93.3	80.3	64.8	49.2	36.3	25.9	13.0	5.2	2.6
80°	62.2	67.4	72.6	64.8	54.4	44.1	31.1	18.1	7.8	0.0	0.0
82.5°	62.2	70.0	75.1	64.8	54.4	41.5	31.1	18.1	7.8	2.6	0.0
85°	13.0	15.5	18.1	20.7	31.1	31.1	23.3	15.5	7.8	2.6	0.0
87.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	0.0	0.0
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)