

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: P651718

Luminaire Tested: **GALN-SA2A-840-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651718  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2A-840-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6978.6 lumens  
Efficiency: N/A  
Efficacy: 110.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

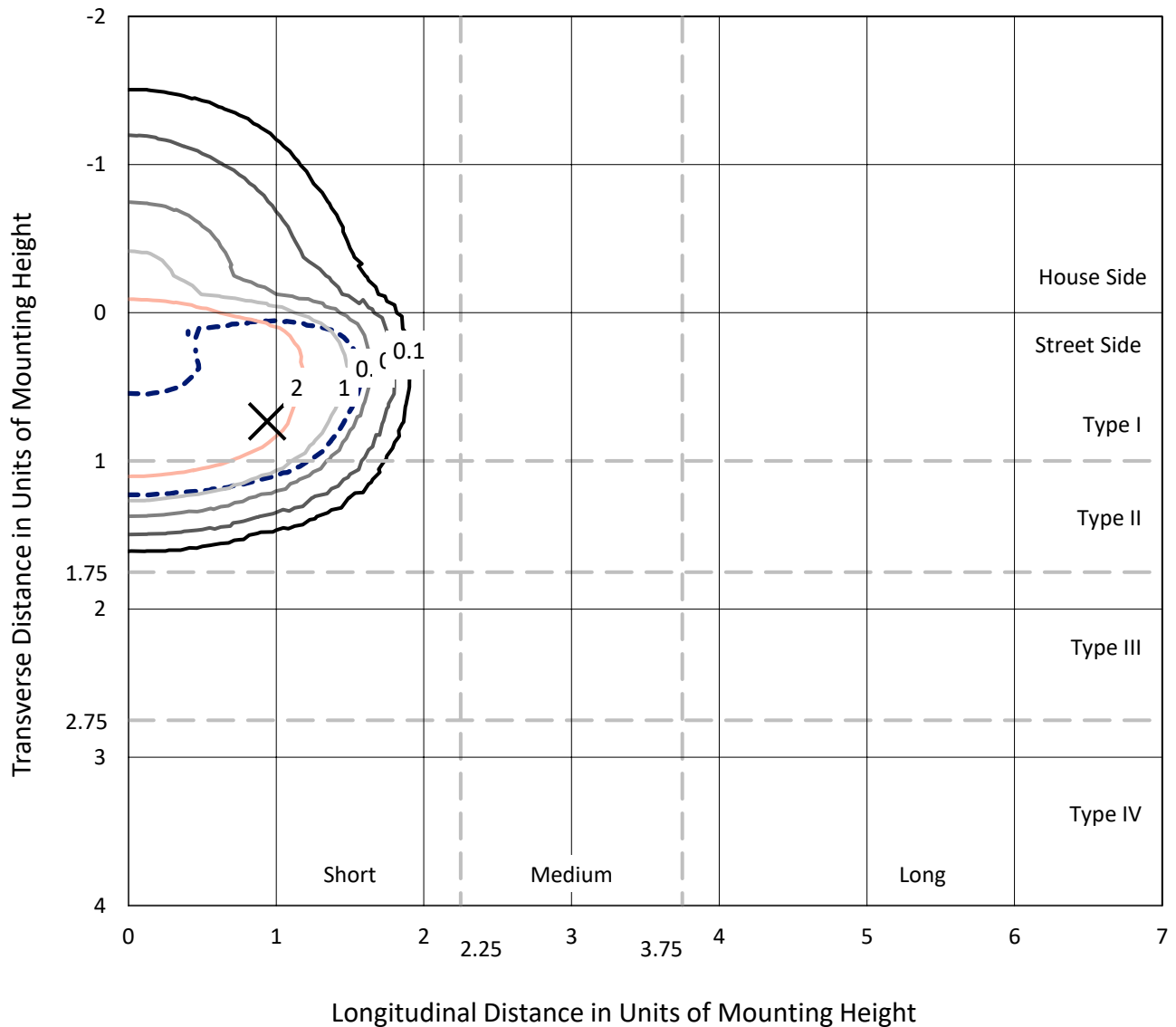
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P651718  
 CATALOG NUMBER: GALN-SA2A-840-U-AFL-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

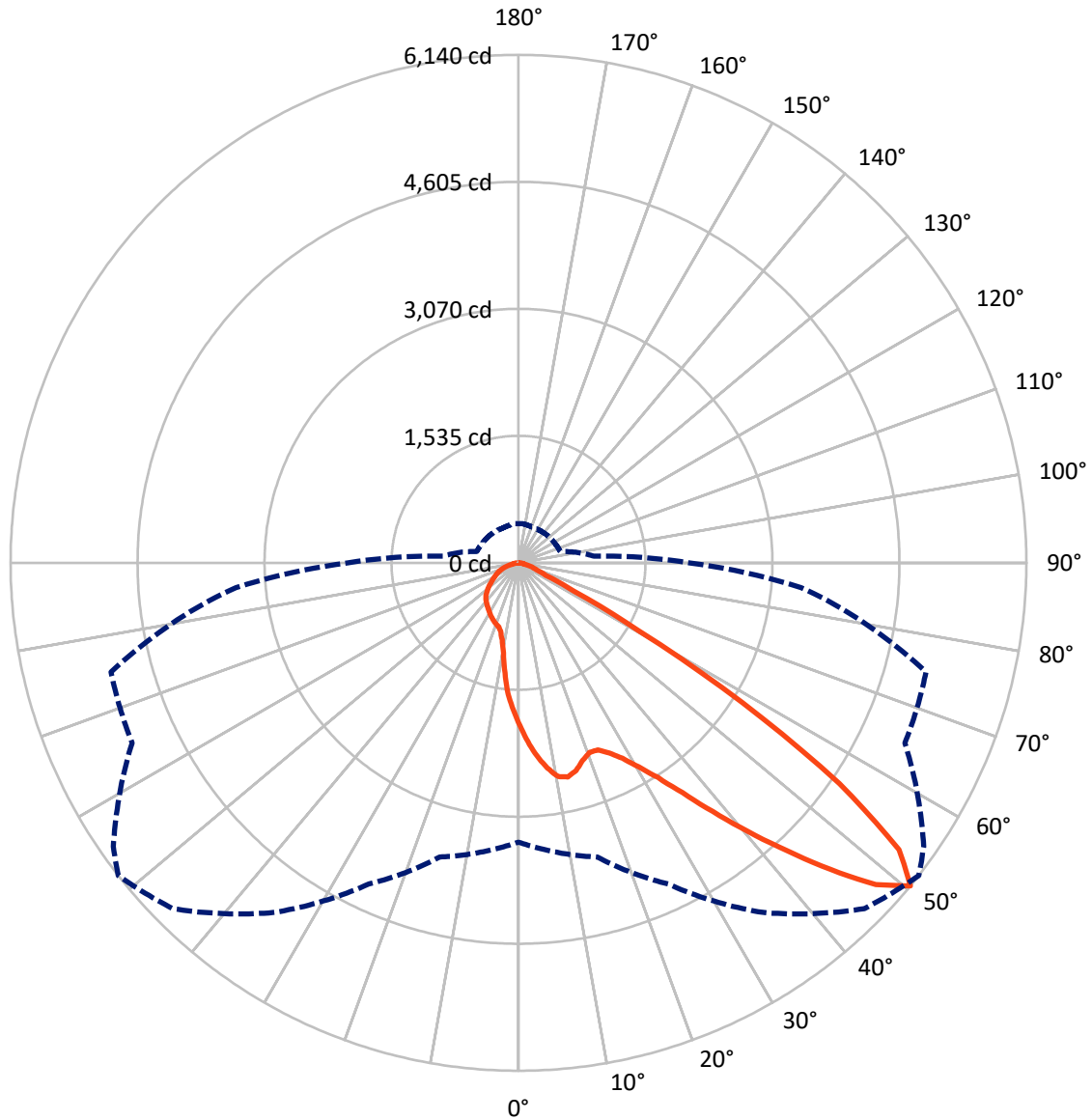
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc  
 Type II - Short - N/A

REPORT NUMBER: P651718  
CATALOG NUMBER: GALN-SA2A-840-U-AFL-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P651718  
 CATALOG NUMBER: GALN-SA2A-840-U-AFL-GRSWH

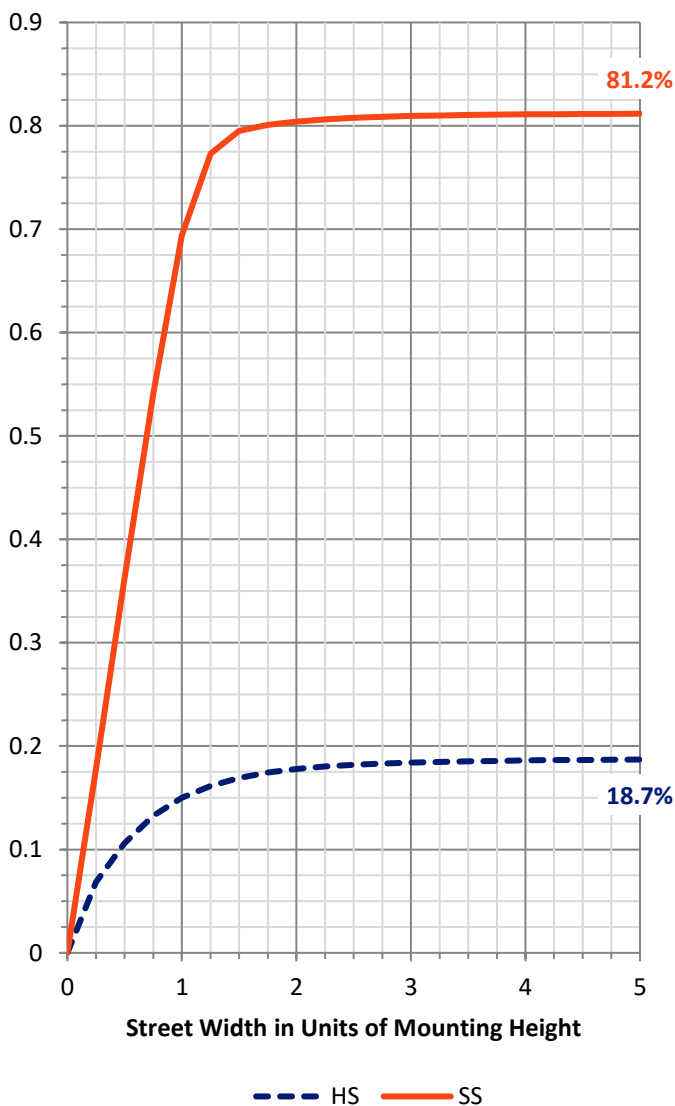
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1311.8	0.0	1311.8
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	5666.8	0.0	5666.8
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	6978.6	0.0	6978.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	181.3	2.6
10°-20°	486.0	7.0
20°-30°	818.6	11.7
30°-40°	1373.6	19.7
40°-50°	2101.3	30.1
50°-60°	1532.0	22.0
60°-70°	341.0	4.9
70°-80°	123.0	1.8
80°-90°	21.8	0.3
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°	6978.6	100.0
0°-180°	6978.6	100.0

**Coefficient of Utilization**

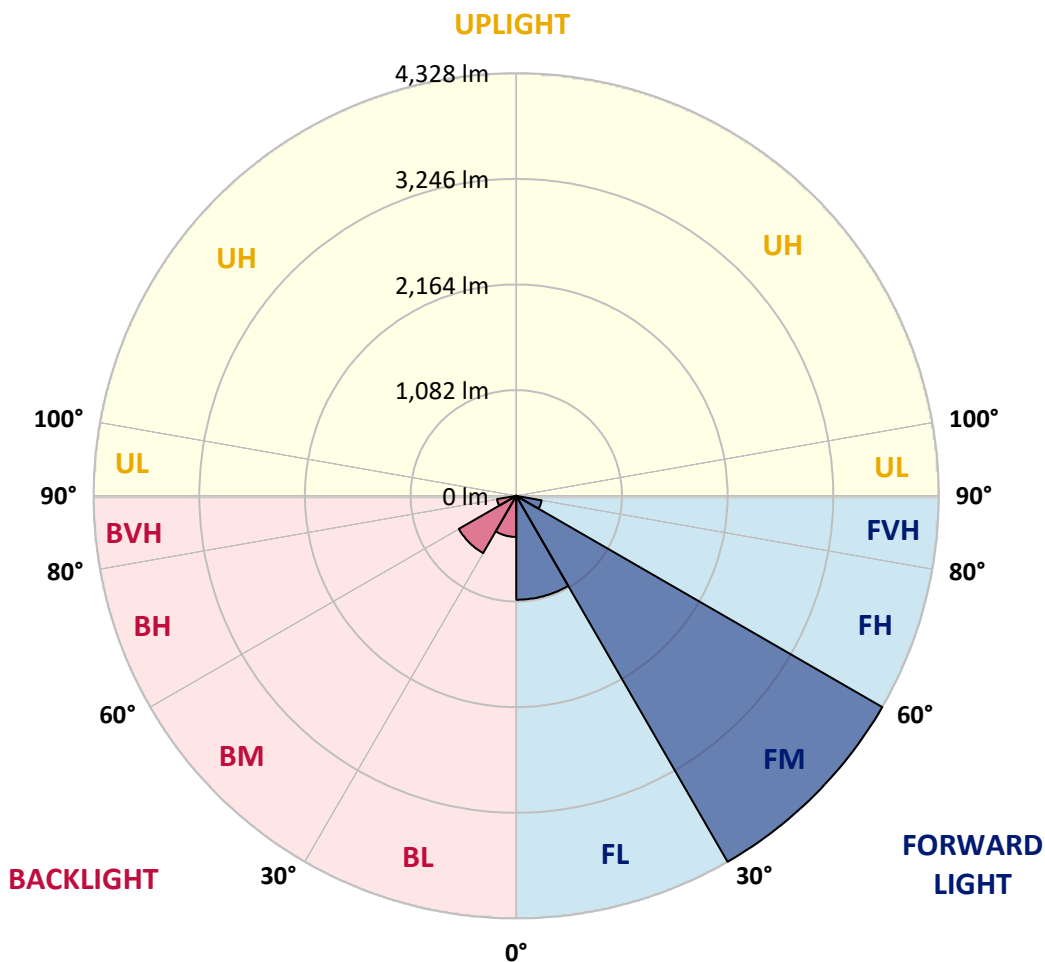


REPORT NUMBER: P651718  
 CATALOG NUMBER: GALN-SA2A-840-U-AFL-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1064.5	15.3			
FM (30°-60°)	4328.5	62.0			
FH (60°-80°)	264.1	3.8			G0/660
FVH (80°-90°)	9.8	0.1			G0/10
BL (0°-30°)	421.4	6.0	B1/500		
BM (30°-60°)	678.5	9.7	B1/1000		
BH (60°-80°)	199.9	2.9	B1/500		G1/500
BVH (80°-90°)	12.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type II Short





REPORT NUMBER: P651718

CATALOG NUMBER: GALN-SA2A-840-U-AFL-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	1967.2	1967.2	1967.2	1967.2	1967.2	1967.2	1967.2	1967.2	1967.2	1967.2	1967.2
2.5°	2316.2	2271.6	2276.7	2244.7	2210.2	2200.1	2164.8	2131.2	2105.9	2052.1	2002.5
5°	2531.5	2518.0	2497.9	2472.6	2446.6	2382.6	2346.5	2304.4	2211.9	2128.7	2046.2
7.5°	2562.6	2560.1	2571.0	2571.0	2580.3	2555.9	2504.6	2475.1	2376.8	2241.3	2088.3
10°	2344.0	2351.5	2404.5	2473.5	2569.3	2635.8	2627.4	2619.8	2512.2	2327.1	2137.9
12.5°	2169.9	2153.0	2184.2	2243.0	2386.8	2547.5	2656.0	2656.8	2629.1	2464.2	2174.1
15°	2071.5	2083.2	2091.7	2119.4	2227.9	2413.8	2604.7	2661.0	2783.0	2560.9	2231.3
17.5°	2134.5	2095.0	2093.3	2100.1	2155.6	2295.2	2509.6	2606.3	2867.1	2685.4	2301.9
20°	2217.0	2216.1	2192.6	2184.2	2183.3	2307.8	2447.4	2578.6	2911.6	2846.9	2373.4
22.5°	2361.6	2361.6	2322.9	2304.4	2264.9	2366.7	2455.8	2545.0	2985.6	2957.9	2407.9
25°	2603.8	2564.3	2497.9	2452.4	2429.7	2465.9	2545.0	2624.8	3050.4	3075.6	2479.4
27.5°	2827.5	2765.3	2732.5	2654.3	2624.0	2603.0	2675.3	2756.0	3126.1	3259.0	2518.0
30°	3081.5	3070.6	3011.7	2910.8	2835.9	2797.3	2863.7	2943.6	3264.8	3446.5	2607.2
32.5°	3535.6	3436.4	3356.5	3232.9	3110.9	3028.5	3094.1	3147.1	3495.3	3642.5	2704.7
35°	4026.0	3994.0	3856.1	3633.2	3446.5	3372.5	3411.2	3450.7	3763.6	3941.9	2868.7
37.5°	4507.9	4464.2	4350.7	4163.0	3936.0	3785.4	3813.2	3859.4	4064.6	4345.6	3068.9
40°	4854.4	4800.6	4743.4	4715.7	4490.3	4284.1	4268.2	4279.9	4471.8	4724.1	3290.9
42.5°	4879.7	4946.1	4963.8	5075.6	5022.6	4853.6	4755.2	4757.7	4860.3	5098.3	3515.5
45°	4826.7	4765.3	4895.6	5200.9	5375.8	5454.9	5289.2	5268.2	5100.8	5315.3	3627.3
47.5°	4270.7	4287.5	4507.9	4990.7	5496.1	5849.3	5810.6	5740.8	5229.5	5307.7	3609.7
50°	3375.9	3477.6	3682.0	4283.3	5159.7	5911.6	6139.5	5978.0	5153.0	5099.2	3429.7
52.5°	2248.1	2290.1	2424.7	3200.9	4148.7	5284.2	5761.0	5798.0	5082.3	4825.8	3201.8
55°	1000.8	997.4	1186.7	1672.0	2603.0	4020.9	4707.2	4932.6	4810.7	4547.5	2979.7
57.5°	423.9	438.2	515.5	722.4	1280.0	2426.4	3189.2	3386.8	3699.6	3734.1	2285.9
60°	286.8	288.5	309.5	361.6	535.7	1139.6	1672.8	1910.0	2133.7	2118.6	1212.7
62.5°	225.4	231.3	247.3	268.3	317.9	517.2	748.5	880.5	894.8	752.7	460.0
65°	192.6	193.4	209.4	227.1	248.9	301.1	360.8	367.5	371.7	358.3	338.1
67.5°	158.9	160.6	173.2	193.4	213.6	230.4	247.3	255.7	275.0	312.9	307.8
70°	126.2	128.7	139.6	156.4	174.9	185.0	206.0	213.6	231.3	260.7	272.5
72.5°	95.9	96.7	106.0	117.7	134.6	144.7	162.3	170.7	182.5	207.7	218.7
75°	69.0	71.5	78.2	84.1	86.6	93.4	110.2	119.4	136.2	147.2	148.0
77.5°	36.2	37.8	39.5	39.5	47.9	60.6	71.5	76.5	88.3	96.7	92.5
80°	14.3	15.1	19.3	26.1	33.6	43.7	51.3	53.8	63.9	69.0	71.5
82.5°	8.4	9.3	12.6	18.5	24.4	31.1	37.0	39.5	46.3	52.1	53.8
85°	4.2	5.0	7.6	11.8	16.0	19.3	18.5	17.7	17.7	16.8	17.7
87.5°	1.7	1.7	2.5	2.5	2.5	3.4	4.2	4.2	4.2	5.0	5.0
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: P651718

CATALOG NUMBER: GALN-SA2A-840-U-AFL-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1967.2	1967.2	1967.2	1967.2	1967.2	1967.2	1967.2	1967.2	1967.2	1967.2	1967.2
2.5°	1969.7	1936.1	1904.9	1847.8	1785.5	1767.9	1695.5	1669.5	1651.0	1629.1	1622.4
5°	1979.8	1935.2	1835.1	1719.9	1628.3	1510.5	1433.1	1349.8	1289.3	1274.1	1269.9
7.5°	2000.8	1924.3	1751.9	1577.8	1390.2	1230.4	1108.4	1042.8	984.8	981.4	975.6
10°	2024.4	1891.5	1661.1	1387.6	1148.0	999.9	926.8	898.2	883.9	880.5	878.8
12.5°	2043.7	1884.8	1559.3	1202.6	976.4	887.3	865.4	862.9	868.8	870.4	873.8
15°	2052.1	1857.9	1436.5	1037.0	869.6	836.8	846.0	856.1	860.3	871.3	862.9
17.5°	2068.1	1823.4	1285.0	905.8	809.9	815.8	831.7	843.5	850.3	857.8	846.9
20°	2076.5	1792.3	1142.9	827.5	788.9	799.8	821.7	830.9	839.3	842.7	830.1
22.5°	2068.9	1728.3	1017.6	764.5	768.7	783.0	802.3	812.4	807.4	793.9	786.3
25°	2048.8	1638.4	887.3	724.1	740.1	765.3	780.4	772.9	763.6	756.1	753.5
27.5°	2047.9	1528.2	793.1	687.1	715.7	750.2	745.1	738.4	742.6	736.7	730.0
30°	2052.1	1421.3	715.7	666.1	698.0	714.8	720.7	714.0	719.1	708.1	711.5
32.5°	2030.3	1317.0	665.2	641.7	677.0	676.2	695.5	700.6	688.8	666.1	669.4
35°	2039.5	1232.9	622.3	630.8	653.5	653.5	668.6	662.7	631.6	618.1	621.5
37.5°	2103.4	1150.5	601.3	615.6	630.8	637.5	632.4	607.2	599.6	599.6	601.3
40°	2164.0	1079.8	588.7	612.2	609.7	613.9	576.9	579.4	579.4	580.3	576.1
42.5°	2217.8	1031.9	578.6	592.1	596.3	574.4	551.7	549.2	555.1	554.2	550.9
45°	2237.1	992.4	564.3	569.4	572.7	536.6	525.6	520.6	527.3	529.8	533.2
47.5°	2163.1	959.6	548.3	538.2	531.5	508.0	493.7	484.4	492.8	507.1	510.5
50°	2068.1	916.7	523.1	503.8	489.5	479.4	469.3	460.0	465.9	476.0	473.5
52.5°	1927.7	849.4	491.1	471.0	446.6	449.1	439.8	434.8	438.2	438.2	435.6
55°	1727.5	698.0	437.3	423.0	402.8	409.6	411.2	404.5	397.8	403.7	398.6
57.5°	1179.1	492.8	390.2	390.2	370.0	379.3	378.4	362.5	346.5	348.2	344.8
60°	682.1	392.7	359.9	356.6	335.6	343.1	344.8	333.9	309.5	311.2	307.8
62.5°	387.7	335.6	314.5	309.5	305.3	312.0	312.0	297.7	276.7	278.4	275.0
65°	329.7	311.2	280.9	280.1	278.4	280.1	273.3	258.2	239.7	232.1	233.0
67.5°	299.4	287.6	258.2	250.6	245.6	244.7	232.1	217.8	209.4	202.7	201.8
70°	262.4	253.1	231.3	221.2	216.1	204.4	191.7	182.5	170.7	167.4	170.7
72.5°	207.7	206.9	198.5	187.5	176.6	167.4	156.4	143.8	132.9	130.4	124.5
75°	143.8	145.5	147.2	145.5	136.2	124.5	111.9	101.8	88.3	80.7	79.1
77.5°	94.2	96.7	99.2	95.9	90.0	79.1	70.6	58.0	47.9	42.0	41.2
80°	69.0	72.3	74.0	71.5	64.8	56.3	47.1	37.0	29.4	24.4	24.4
82.5°	53.0	56.3	58.0	53.8	47.1	40.4	33.6	26.1	20.2	16.0	15.1
85°	18.5	17.7	21.0	21.9	26.1	24.4	20.2	15.1	11.8	8.4	7.6
87.5°	5.0	5.0	5.9	5.9	5.0	4.2	4.2	4.2	3.4	2.5	2.5
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)