

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: P522800

Luminaire Tested: **GALN-SA6A-827-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522800  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6A-827-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19950 lumens  
Efficiency: N/A  
Efficacy: 109.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

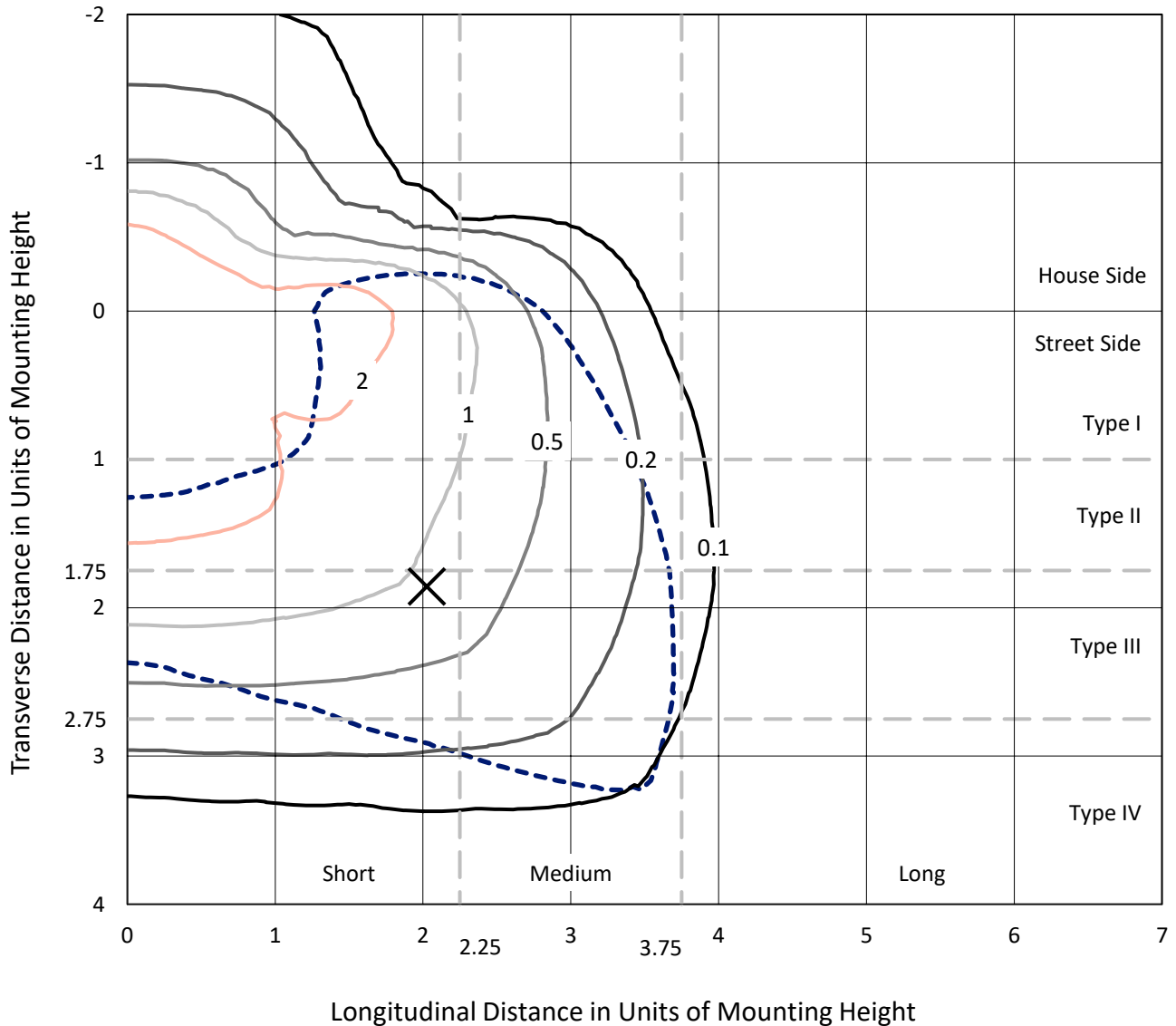
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P522800  
 CATALOG NUMBER: GALN-SA6A-827-U-T4W

### Iso-Footcandle Lines of Horizontal Illumination

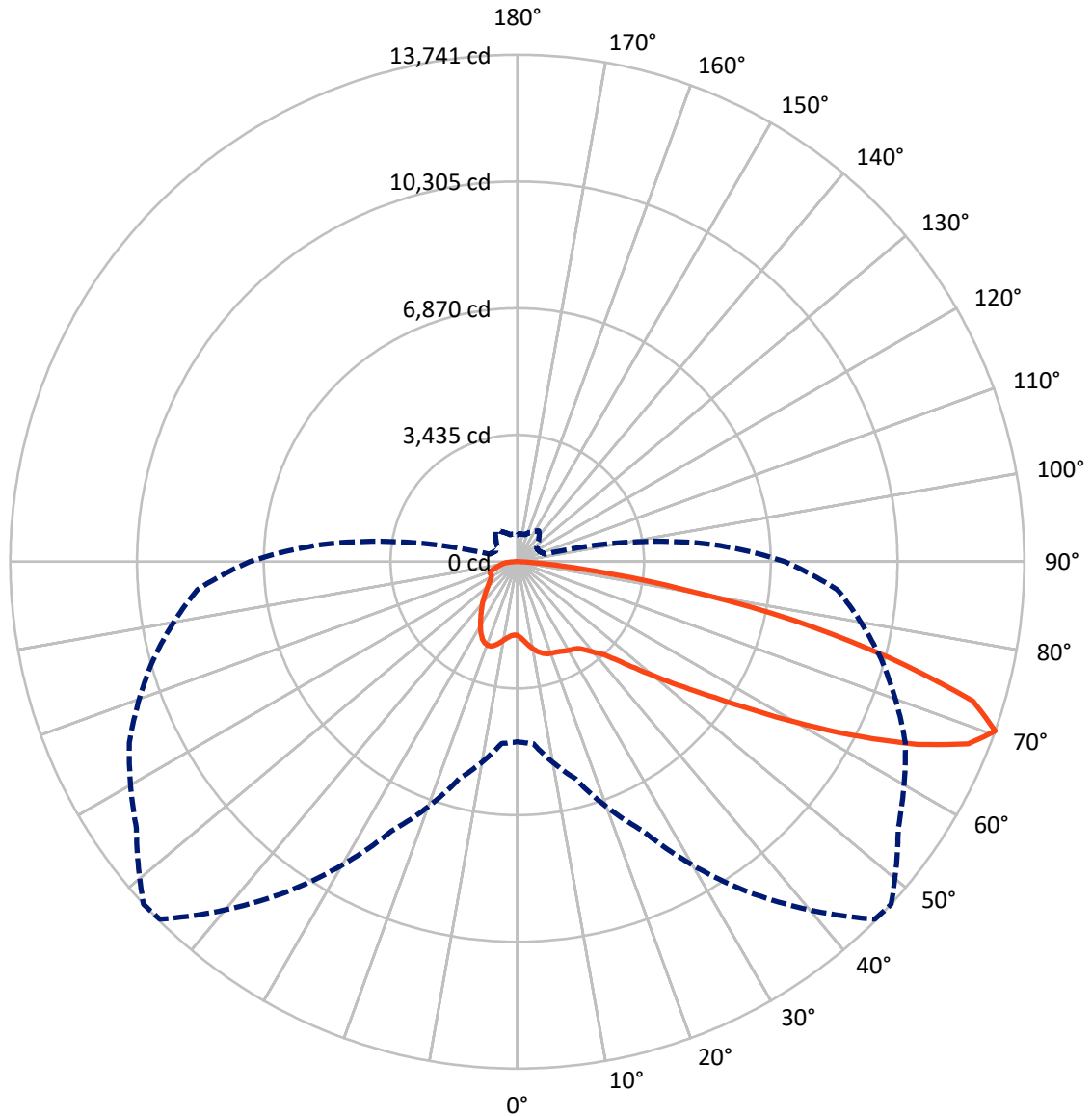
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc  
 Type IV - Short - N/A

REPORT NUMBER: P522800  
CATALOG NUMBER: GALN-SA6A-827-U-T4W

### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P522800

CATALOG NUMBER: GALN-SA6A-827-U-T4W

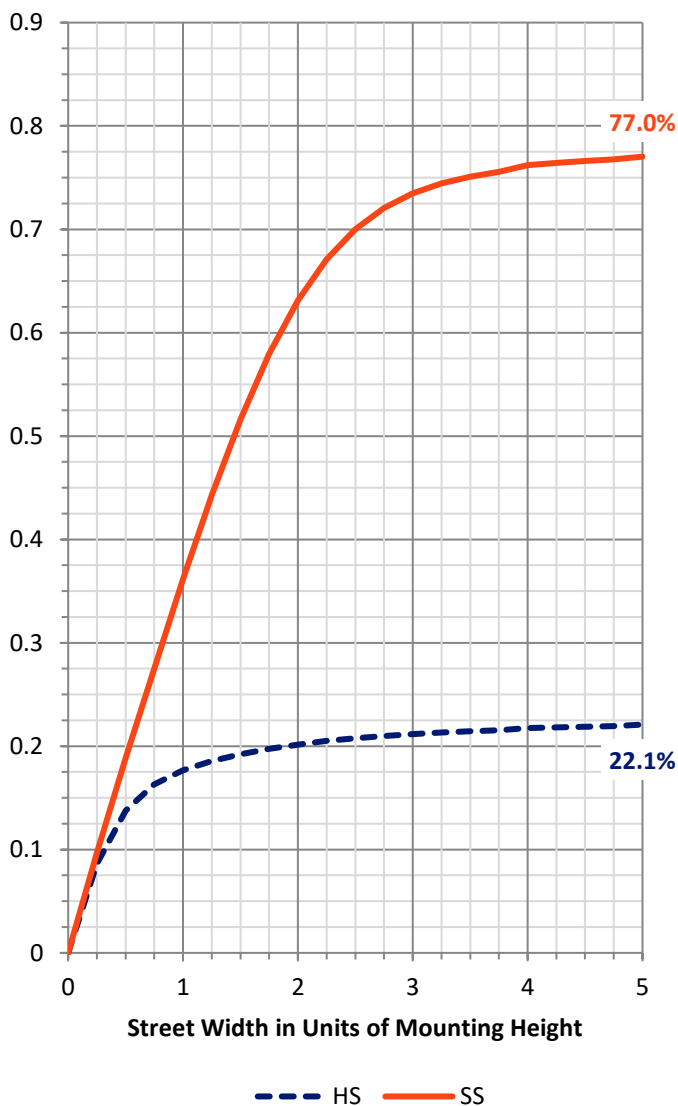
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4517.1	0.0	4517.1
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	15432.9	0.0	15432.9
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	19950.0	0.0	19950.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	206.4	1.0
10°-20°	690.2	3.5
20°-30°	1147.7	5.8
30°-40°	1626.7	8.2
40°-50°	2401.4	12.0
50°-60°	4159.3	20.8
60°-70°	5875.1	29.4
70°-80°	3377.3	16.9
80°-90°	466.0	2.3
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°	19950.0	100.0
0°-180°	19950.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P522800

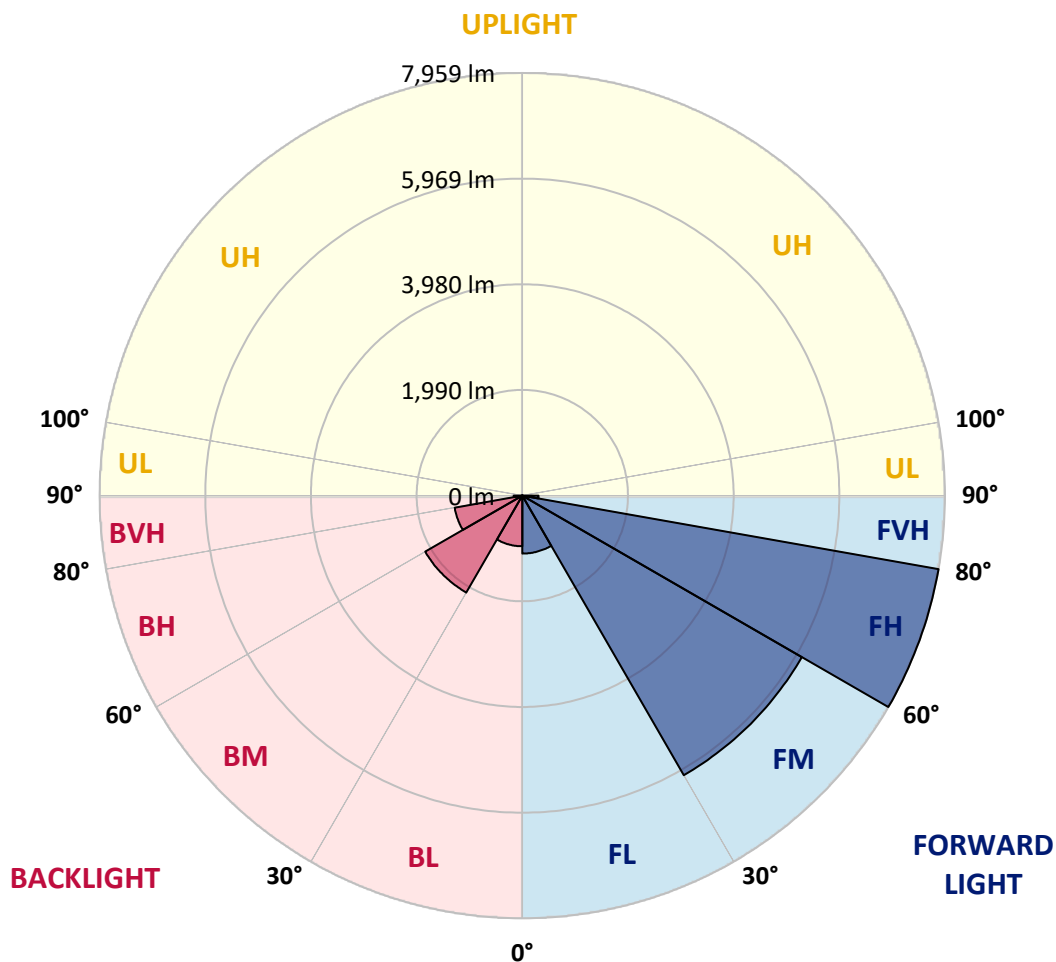
CATALOG NUMBER: GALN-SA6A-827-U-T4W

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1090.9	5.5			
FM	(30°-60°)	6078.4	30.5			
FH	(60°-80°)	7959.2	39.9			G4/12000
FVH	(80°-90°)	304.4	1.5			G3/500
BL	(0°-30°)	953.4	4.8	B2/1000		
BM	(30°-60°)	2108.9	10.6	B2/2500		
BH	(60°-80°)	1293.2	6.5	B3/2500		G3/2500
BVH	(80°-90°)	161.6	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 IV Short





REPORT NUMBER: P522800

CATALOG NUMBER: GALN-SA6A-827-U-T4W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	2002.7	2002.7	2002.7	2002.7	2002.7	2002.7	2002.7	2002.7	2002.7	2002.7	2002.7
2.5°	2131.9	2124.4	2123.4	2107.4	2098.8	2082.8	2076.4	2061.5	2043.3	2025.2	2008.1
5°	2299.5	2299.5	2292.0	2269.6	2234.4	2198.1	2182.1	2153.3	2102.0	2060.4	2025.2
7.5°	2471.4	2473.5	2458.6	2425.5	2375.3	2316.6	2301.7	2259.0	2186.4	2125.5	2073.2
10°	2619.8	2619.8	2599.5	2554.7	2491.7	2427.6	2412.7	2364.6	2283.5	2207.7	2139.4
12.5°	2733.0	2733.0	2706.3	2647.5	2579.2	2521.6	2504.5	2458.6	2382.8	2298.5	2212.0
15°	2806.6	2801.3	2771.4	2705.2	2639.0	2588.8	2577.1	2538.7	2469.3	2383.9	2286.7
17.5°	2809.8	2807.7	2778.9	2723.3	2665.7	2631.5	2624.1	2598.4	2544.0	2462.9	2360.4
20°	2747.9	2752.2	2733.0	2693.5	2665.7	2650.7	2647.5	2639.0	2600.6	2524.8	2422.3
22.5°	2681.7	2689.2	2671.0	2649.7	2647.5	2662.5	2664.6	2666.8	2642.2	2568.5	2474.6
25°	2665.7	2671.0	2652.9	2633.7	2645.4	2684.9	2693.5	2702.0	2682.8	2620.9	2536.5
27.5°	2746.8	2742.6	2707.3	2665.7	2673.2	2726.5	2738.3	2747.9	2738.3	2684.9	2613.4
30°	2976.4	2962.5	2892.0	2770.3	2731.9	2769.2	2781.0	2807.7	2807.7	2768.2	2696.7
32.5°	3360.7	3334.0	3204.8	2965.7	2832.2	2809.8	2821.6	2865.3	2887.7	2856.8	2778.9
35°	3827.2	3799.4	3614.8	3293.4	3015.9	2890.9	2887.7	2936.9	2996.6	2927.2	2825.8
37.5°	4295.9	4267.0	4045.0	3684.1	3283.8	3061.8	3042.5	3059.6	3085.2	2958.2	2890.9
40°	4764.5	4730.4	4536.1	4120.8	3611.6	3288.1	3237.9	3161.0	3150.4	3059.6	3016.9
42.5°	5228.9	5197.9	5099.7	4610.8	4004.4	3509.1	3432.2	3299.8	3340.4	3285.9	3248.6
45°	5697.6	5699.7	5595.1	5160.6	4478.4	3916.9	3813.3	3606.2	3702.3	3682.0	3703.4
47.5°	6112.8	6107.5	6070.1	5694.4	5066.6	4442.1	4308.7	4068.5	4232.9	4307.6	4470.9
50°	6515.3	6512.1	6514.2	6299.7	5749.9	5066.6	4919.3	4667.4	5037.8	5297.2	5589.7
52.5°	7091.8	7109.9	6980.8	6924.2	6580.4	5804.3	5642.0	5381.6	5989.0	6397.9	6969.0
55°	7670.4	7655.5	7554.0	7612.8	7449.4	6677.6	6507.8	6300.7	7048.0	7495.3	8353.6
57.5°	8011.0	8016.3	8119.9	8407.0	8522.3	7766.5	7612.8	7452.6	8238.3	8555.4	9585.6
60°	8317.3	8341.9	8639.8	9182.1	9494.9	9104.1	8967.5	8811.6	9330.5	9456.4	10655.3
62.5°	8413.4	8489.2	9009.1	9820.5	10442.9	10613.7	10443.9	10100.2	10370.3	10321.2	11380.2
65°	7934.1	8037.6	8969.6	10059.6	11289.4	12046.3	11938.5	11300.1	11256.3	10960.6	11498.7
67.5°	6672.2	6775.8	7972.5	9557.9	11639.6	13286.8	13179.0	12175.5	11794.4	11020.4	10601.9
70°	4881.9	4947.1	6091.5	8047.3	10936.1	13703.2	13740.5	12602.5	11602.2	10208.0	8704.9
72.5°	2813.0	2957.1	3758.9	5661.3	8934.4	12650.6	12910.0	11714.3	10387.3	8515.9	6086.2
75°	1209.5	1212.7	1738.0	3122.6	6050.9	10168.5	10419.4	9710.5	8157.2	5888.7	3249.6
77.5°	575.4	586.1	764.4	1394.2	3330.8	7025.6	7702.4	6860.1	5217.2	2829.0	1227.7
80°	373.6	381.1	467.6	691.8	1633.4	4073.8	4545.7	3957.4	2301.7	1011.0	529.5
82.5°	226.3	228.5	312.8	422.8	898.9	1844.7	2174.6	1717.7	982.2	605.3	311.7
85°	137.7	138.8	190.0	261.6	545.5	637.3	654.4	649.1	576.5	396.1	166.5
87.5°	66.2	68.3	98.2	123.8	214.6	197.5	186.8	216.7	272.2	213.5	71.5
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: P522800  
 CATALOG NUMBER: GALN-SA6A-827-U-T4W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2002.7	2002.7	2002.7	2002.7	2002.7	2002.7	2002.7	2002.7	2002.7	2002.7	2002.7
2.5°	2000.6	1997.4	1989.9	1986.7	1984.6	1985.7	1984.6	1984.6	1985.7	1985.7	1985.7
5°	2010.2	2004.9	1993.1	1993.1	1999.5	2014.5	2028.4	2039.0	2050.8	2049.7	2049.7
7.5°	2051.8	2042.2	2028.4	2032.6	2048.6	2072.1	2096.7	2120.2	2143.7	2145.8	2144.7
10°	2112.7	2103.1	2088.1	2093.5	2119.1	2154.3	2185.3	2219.5	2245.1	2252.5	2250.4
12.5°	2182.1	2162.9	2150.1	2165.0	2205.6	2252.5	2282.4	2308.1	2326.2	2336.9	2332.6
15°	2252.5	2234.4	2219.5	2250.4	2299.5	2343.3	2358.2	2362.5	2365.7	2376.4	2374.3
17.5°	2320.9	2296.3	2291.0	2331.5	2378.5	2397.7	2389.2	2371.0	2357.2	2365.7	2364.6
20°	2381.7	2362.5	2360.4	2400.9	2419.1	2400.9	2364.6	2332.6	2308.1	2310.2	2309.1
22.5°	2439.4	2424.4	2426.6	2443.6	2414.8	2352.9	2293.1	2249.3	2222.7	2228.0	2231.2
25°	2503.4	2488.5	2493.8	2466.1	2371.0	2263.2	2176.8	2139.4	2128.7	2139.4	2146.9
27.5°	2586.7	2577.1	2573.9	2467.1	2293.1	2130.8	2032.6	2018.8	2028.4	2051.8	2063.6
30°	2676.4	2676.4	2659.3	2449.0	2186.4	1971.8	1886.4	1888.5	1921.6	1954.7	1966.4
32.5°	2762.8	2781.0	2727.6	2399.9	2048.6	1817.0	1751.9	1754.0	1782.8	1823.4	1834.1
35°	2834.4	2886.7	2786.3	2310.2	1886.4	1686.7	1637.6	1608.8	1609.9	1640.8	1649.4
37.5°	2932.6	3029.7	2820.5	2176.8	1713.4	1575.7	1520.2	1470.0	1436.9	1424.1	1424.1
40°	3103.4	3246.4	2829.0	1979.3	1550.1	1470.0	1391.0	1331.2	1267.2	1209.5	1198.9
42.5°	3392.7	3573.1	2811.9	1751.9	1402.8	1353.7	1276.8	1203.1	1114.5	1033.4	1027.0
45°	3905.1	3998.0	2766.0	1515.9	1271.5	1241.6	1166.8	1086.8	992.8	920.2	914.9
47.5°	4726.1	4594.8	2705.2	1306.7	1151.9	1143.4	1085.7	992.8	898.9	848.7	843.4
50°	5925.0	5534.2	2696.7	1155.1	1055.8	1060.1	1013.1	927.7	845.5	803.9	797.5
52.5°	7368.3	6669.0	2753.2	1048.3	971.5	987.5	964.0	885.0	812.4	777.2	770.8
55°	8768.9	7689.6	2787.4	965.1	892.5	922.4	925.6	859.4	793.2	758.0	753.7
57.5°	9905.9	8458.3	2635.8	889.3	824.2	870.1	893.5	844.4	783.6	756.9	752.6
60°	10696.9	8821.2	2204.5	822.0	774.0	828.4	881.8	845.5	807.1	810.3	812.4
62.5°	10948.9	8660.0	1653.6	771.8	739.8	814.5	901.0	889.3	849.8	874.3	878.6
65°	10531.5	7993.9	1198.9	732.3	709.9	824.2	958.7	921.3	834.8	853.0	853.0
67.5°	9134.0	6886.8	933.0	696.0	675.8	842.3	1016.3	918.1	799.6	821.0	801.7
70°	7245.5	5327.1	777.2	655.5	639.5	815.6	1021.7	885.0	758.0	762.2	725.9
72.5°	4808.3	3502.7	668.3	617.0	584.0	733.4	977.9	842.3	717.4	692.8	656.5
75°	2356.1	1746.5	582.9	569.0	511.4	638.4	918.1	801.7	673.6	635.2	614.9
77.5°	912.8	743.0	497.5	508.2	445.2	562.6	839.1	744.1	616.0	563.7	547.7
80°	443.0	421.7	407.8	423.8	366.2	479.3	766.5	693.9	562.6	505.0	481.5
82.5°	275.4	260.5	312.8	329.9	281.8	437.7	727.0	651.2	495.3	418.5	399.3
85°	139.9	149.5	209.2	225.3	201.8	348.0	598.9	488.9	357.6	296.8	298.9
87.5°	53.4	71.5	110.0	118.5	107.8	183.6	329.9	285.0	229.5	155.9	144.1
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)