

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: P648003

Luminaire Tested: **GALN-SA6A-835-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648003  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6A-835-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12525.6 lumens  
Efficiency: N/A  
Efficacy: 68.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

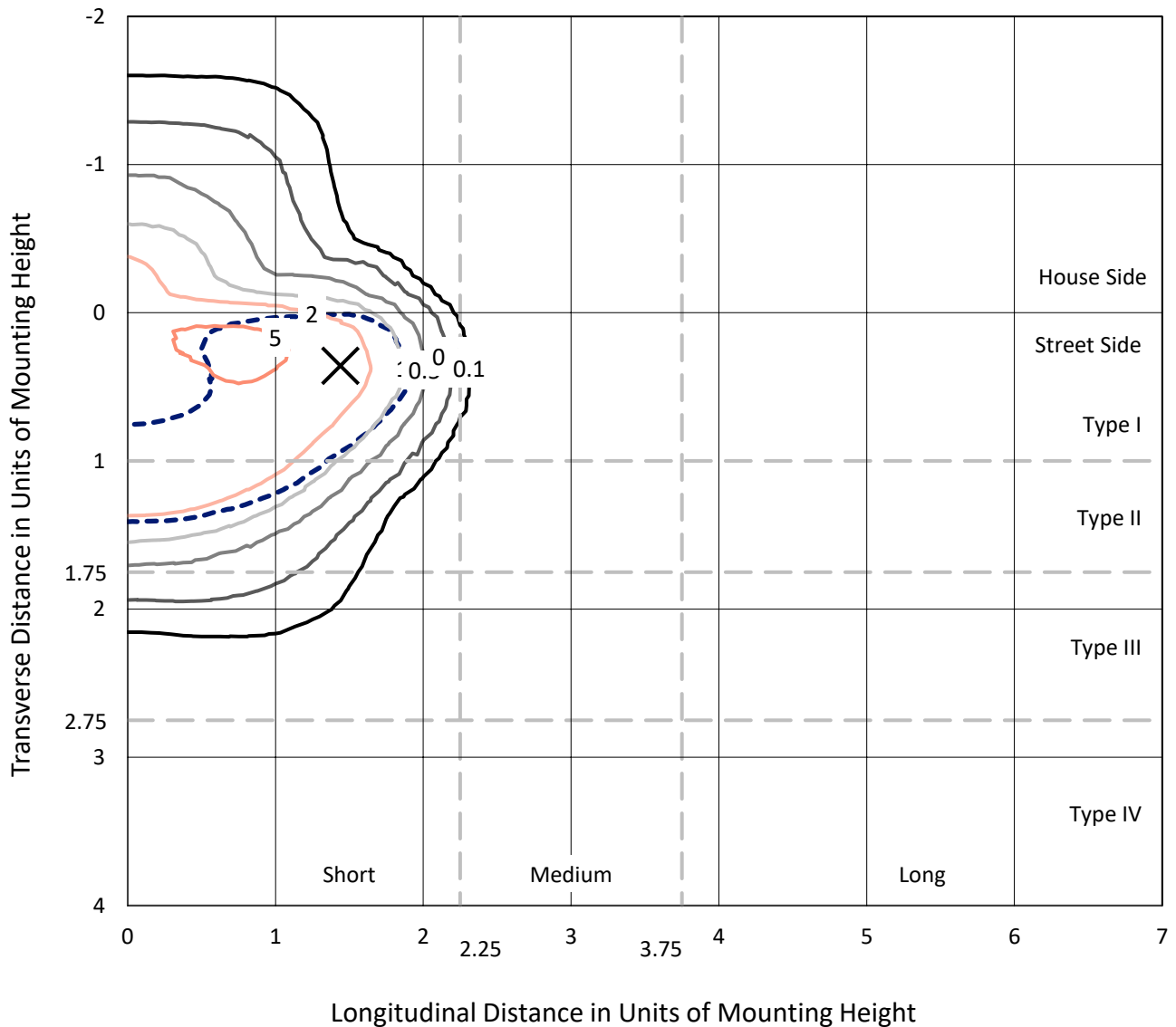
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

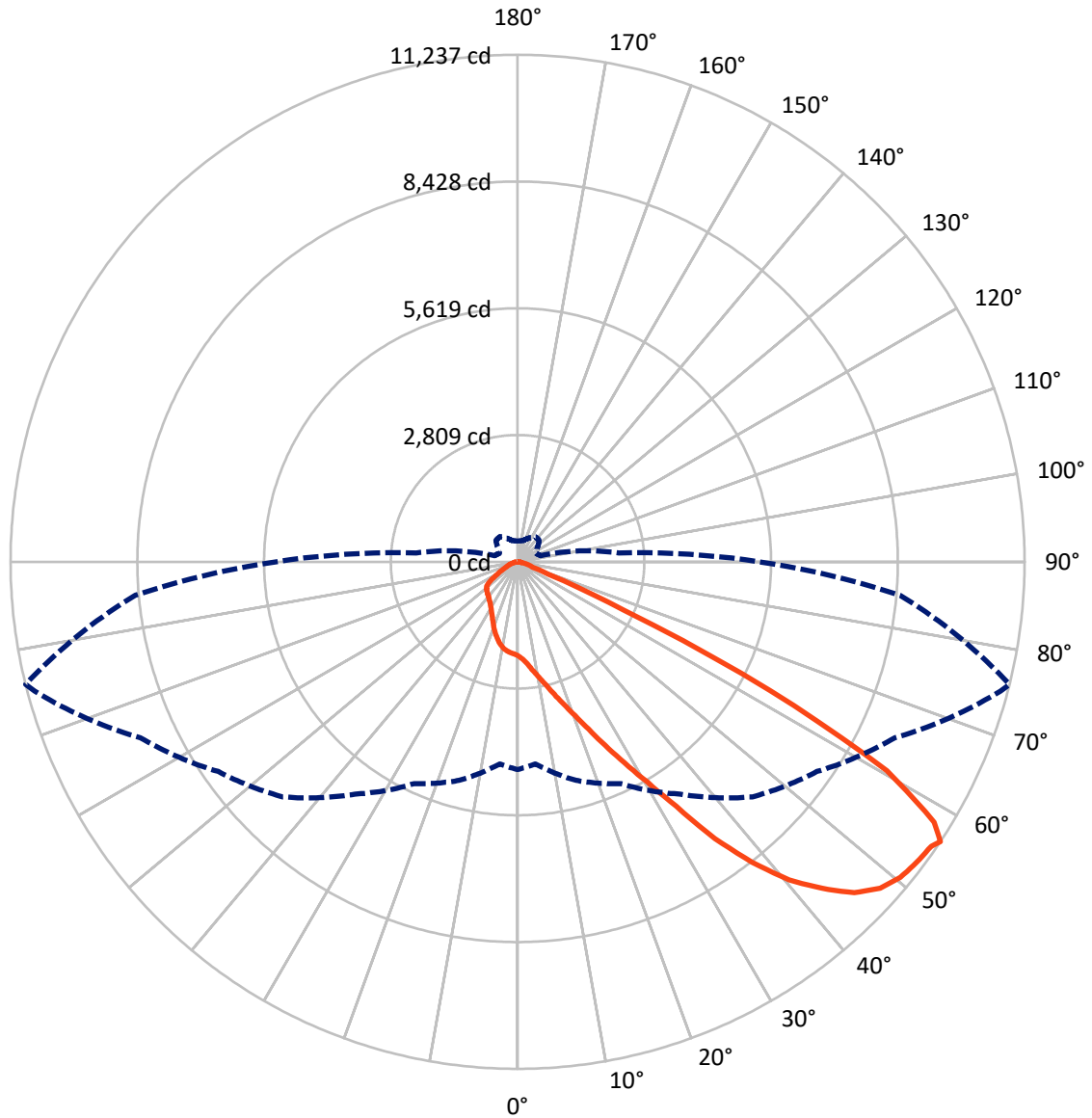
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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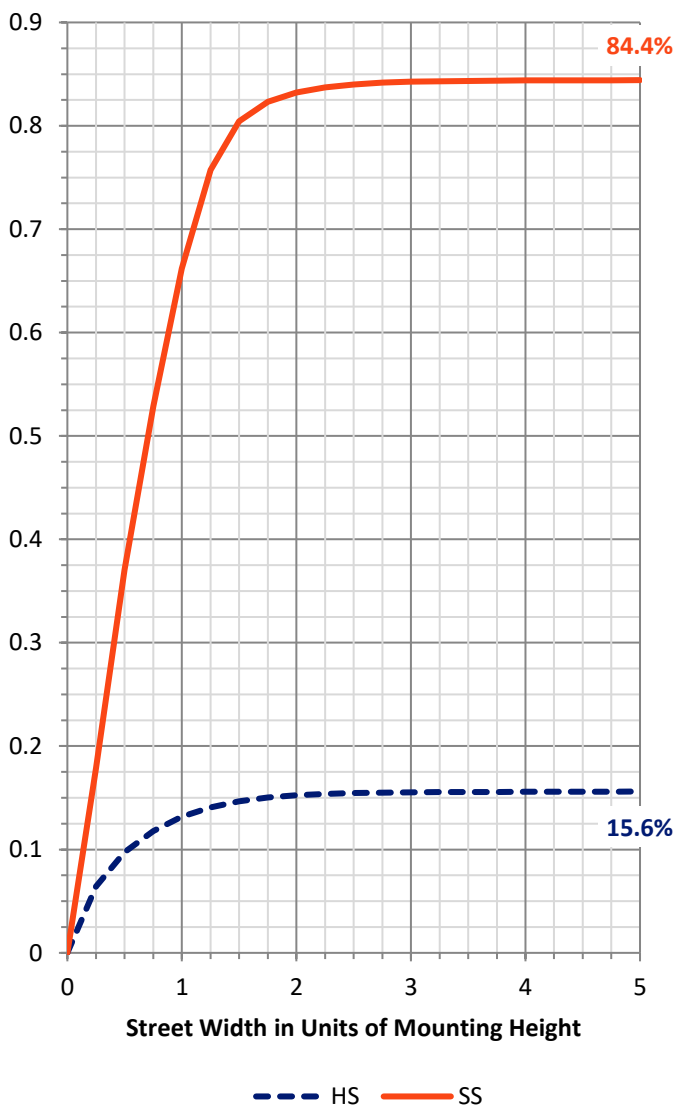
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1967.7	0.0	1967.7
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	10557.9	0.0	10557.9
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	12525.6	0.0	12525.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	210.0	1.7
10°-20°	674.7	5.4
20°-30°	1223.5	9.8
30°-40°	2109.9	16.8
40°-50°	3427.7	27.4
50°-60°	3612.9	28.8
60°-70°	1103.9	8.8
70°-80°	141.5	1.1
80°-90°	21.5	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°	12525.6	100.0
0°-180°	12525.6	100.0

**Coefficient of Utilization**

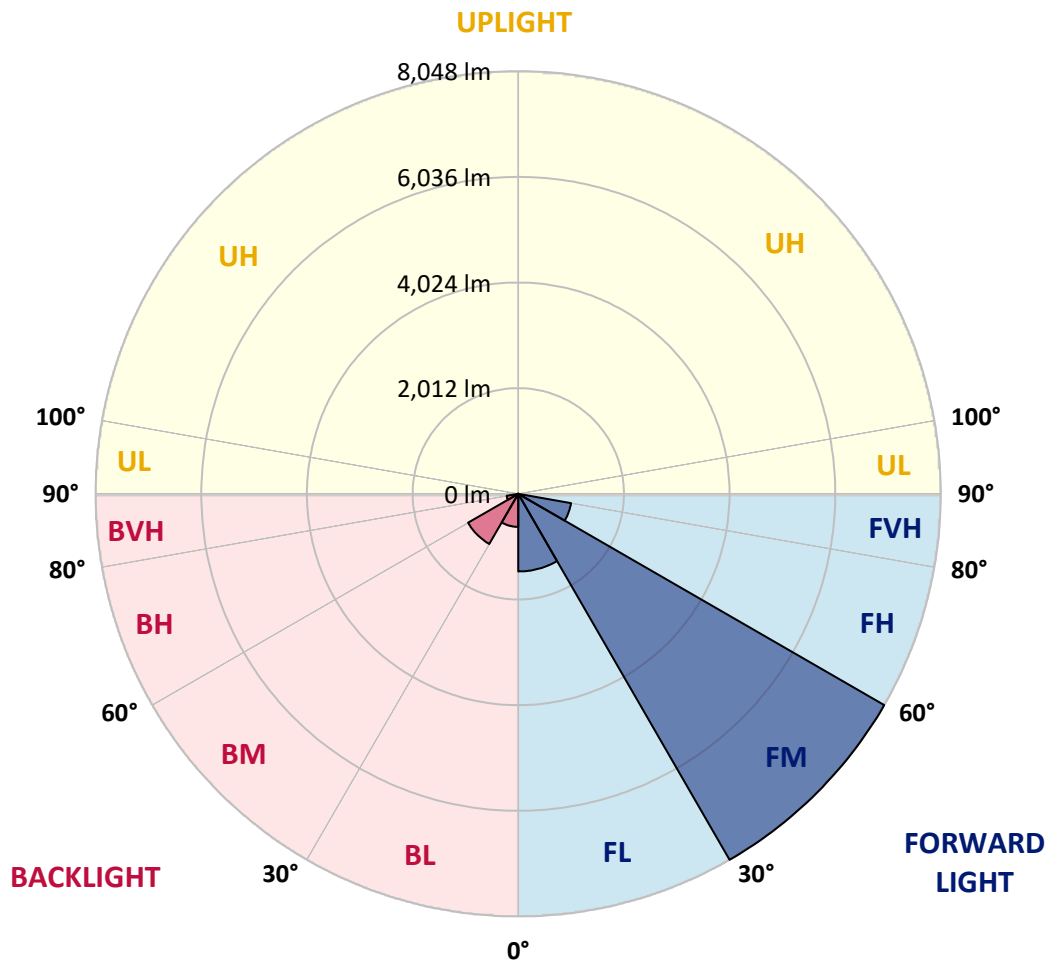


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1478.8	11.8			
FM (30°-60°)	8047.7	64.2			
FH (60°-80°)	1020.9	8.2			G1/1800
FVH (80°-90°)	10.5	0.1			G1/100
BL (0°-30°)	629.5	5.0	B2/1000		
BM (30°-60°)	1102.8	8.8	B2/2500		
BH (60°-80°)	224.5	1.8	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: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2084.9	2084.9	2084.9	2084.9	2084.9	2084.9	2084.9	2084.9	2084.9	2084.9	2084.9
2.5°	2401.2	2345.8	2348.1	2343.5	2336.6	2311.2	2235.0	2223.4	2172.7	2158.8	2112.6
5°	2689.8	2641.4	2669.1	2627.5	2588.3	2565.2	2440.5	2382.7	2301.9	2272.0	2207.3
7.5°	2869.9	2846.8	2837.6	2839.9	2803.0	2745.3	2689.8	2562.8	2454.3	2431.2	2295.1
10°	2957.7	2943.8	2957.7	2950.7	2966.9	2973.8	2876.8	2800.6	2641.4	2602.1	2389.7
12.5°	2978.5	3006.2	3017.7	3047.7	3087.0	3153.9	3147.0	3043.1	2830.7	2805.3	2535.1
15°	3029.3	3052.4	3040.8	3089.2	3163.2	3276.3	3336.3	3320.2	3091.6	3045.4	2703.7
17.5°	3075.4	3033.9	3073.1	3170.1	3244.0	3417.2	3562.6	3629.5	3375.6	3322.5	2858.4
20°	3137.8	3126.2	3119.3	3167.8	3299.4	3530.2	3818.8	3941.2	3694.2	3638.8	3080.0
22.5°	3327.1	3329.4	3324.8	3253.2	3347.9	3608.8	4042.9	4345.3	4075.2	4029.0	3331.7
25°	3576.4	3546.4	3523.3	3465.6	3454.0	3680.3	4269.1	4839.4	4532.3	4500.0	3604.1
27.5°	3839.7	3839.7	3770.4	3717.3	3643.4	3858.2	4476.9	5319.6	5084.2	5040.2	3841.9
30°	4125.9	4142.1	4132.9	4019.8	3973.6	4052.1	4689.3	5933.8	5716.8	5661.3	4234.5
32.5°	4548.4	4513.8	4553.1	4458.4	4322.2	4391.5	5024.1	6483.3	6538.8	6460.2	4749.4
35°	5107.2	5086.4	5061.1	4906.4	4744.7	4800.2	5497.4	7159.8	7570.8	7531.5	5268.9
37.5°	5608.2	5596.7	5575.9	5469.7	5282.7	5349.7	6035.4	7864.1	8577.5	8448.2	6003.1
40°	6134.6	6197.1	6130.0	6035.4	5864.5	6012.3	6668.0	8281.9	9424.8	9267.8	6564.1
42.5°	6848.1	6799.7	6829.6	6656.5	6564.1	6725.7	7303.0	8699.8	10082.8	9895.9	7159.8
45°	7607.7	7610.1	7529.2	7473.8	7233.7	7409.2	7693.1	8930.7	10607.0	10461.5	7610.1
47.5°	8094.9	8092.6	8180.3	8268.1	8021.1	7847.9	7958.7	9150.1	10877.1	10810.2	7774.0
50°	8018.7	8041.8	8154.9	8482.8	8612.1	8378.9	8208.0	9085.4	10999.5	10992.5	7914.8
52.5°	6975.1	7051.3	7240.6	7714.0	8365.0	8653.6	8468.9	9205.5	11059.5	11071.1	8125.0
55°	5310.4	5352.0	5712.1	6287.1	7007.5	7995.6	8365.0	9300.2	11105.7	11126.4	8378.9
56°	4606.2	4495.4	5014.9	5423.5	6284.7	7365.3	8101.9	9226.2	11078.0	11237.3	8505.9
57.5°	3477.1	3403.3	3823.5	4333.7	5162.6	6303.2	7284.5	8877.7	10891.0	10888.6	8323.5
60°	2115.0	2041.0	2364.3	2664.5	3128.6	3881.3	4922.5	7069.8	9207.8	9401.7	6739.6
62.5°	1258.4	1304.5	1623.2	1805.5	1955.6	2034.2	2546.7	4202.1	6143.9	6282.5	4181.4
65°	838.1	854.3	1094.4	1394.5	1461.5	1163.7	1036.7	1701.6	2664.5	2579.0	1724.7
67.5°	517.2	554.1	734.2	1048.2	1161.3	849.6	491.8	634.9	734.2	734.2	498.7
70°	314.0	332.5	489.5	713.5	796.5	547.2	357.9	357.9	353.3	346.3	297.9
72.5°	150.1	161.6	249.4	367.1	374.0	288.6	277.1	302.5	295.5	293.2	247.0
75°	64.7	69.3	87.8	115.4	131.6	122.4	168.6	217.0	223.9	217.0	177.8
77.5°	20.7	23.1	32.3	41.6	43.8	53.1	71.6	90.0	103.9	96.9	87.8
80°	2.3	4.6	9.2	20.7	32.3	41.6	53.1	60.1	66.9	66.9	62.3
82.5°	2.3	2.3	9.2	18.5	30.0	39.2	50.8	57.7	66.9	69.3	64.7
85°	0.0	2.3	6.9	16.1	25.4	25.4	23.1	23.1	16.1	16.1	16.1
87.5°	0.0	0.0	2.3	2.3	2.3	4.6	4.6	4.6	4.6	4.6	4.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2084.9	2084.9	2084.9	2084.9	2084.9	2084.9	2084.9	2084.9	2084.9	2084.9	2084.9
2.5°	2103.4	2098.8	2036.4	1997.2	1976.4	1934.9	1909.4	1890.9	1877.1	1861.0	1863.2
5°	2131.1	2115.0	2011.1	1939.5	1854.0	1807.9	1768.6	1736.3	1715.5	1710.9	1701.6
7.5°	2209.6	2124.2	1967.1	1837.9	1729.3	1683.1	1648.5	1627.8	1637.0	1616.2	1632.4
10°	2269.6	2142.6	1914.0	1727.1	1618.5	1583.9	1565.5	1581.6	1604.7	1595.4	1583.9
12.5°	2343.5	2161.1	1828.6	1620.8	1519.3	1493.8	1526.1	1556.2	1602.3	1620.8	1597.7
15°	2426.6	2181.9	1720.1	1498.4	1433.8	1454.6	1510.0	1563.1	1609.3	1632.4	1646.3
17.5°	2528.2	2174.9	1613.9	1401.5	1353.0	1413.0	1480.0	1528.5	1597.7	1632.4	1623.2
20°	2622.9	2151.8	1496.2	1304.5	1306.8	1362.3	1417.6	1496.2	1533.1	1579.2	1563.1
22.5°	2712.9	2110.3	1373.8	1237.5	1237.5	1323.0	1350.7	1401.5	1433.8	1456.9	1454.6
25°	2839.9	2031.8	1272.2	1172.9	1200.7	1256.0	1279.1	1295.3	1281.5	1299.9	1302.2
27.5°	2930.0	1951.0	1189.1	1115.1	1166.0	1207.5	1200.7	1191.4	1159.1	1133.6	1149.8
30°	3026.9	1856.3	1117.5	1075.9	1103.6	1140.6	1112.9	1085.2	1034.3	992.8	995.1
32.5°	3165.4	1812.5	1055.2	1029.7	1066.7	1071.3	1041.3	999.7	948.9	909.7	907.4
35°	3424.1	1784.8	1002.1	999.7	1006.7	1009.0	979.0	928.2	907.4	875.1	886.6
37.5°	3682.7	1770.9	965.1	955.9	953.5	955.9	921.3	872.7	912.0	909.7	914.3
40°	4012.8	1833.2	912.0	900.4	902.8	902.8	858.9	845.0	914.3	921.3	923.5
42.5°	4347.6	1911.8	877.4	840.4	849.6	849.6	826.6	810.4	858.9	812.8	805.8
45°	4638.5	2027.2	840.4	780.4	803.5	815.0	808.1	780.4	750.3	671.9	671.9
47.5°	4733.2	2128.8	796.5	722.7	741.1	791.9	771.2	713.5	660.3	595.7	591.1
50°	4899.5	2239.6	761.9	655.7	695.0	757.3	736.6	678.8	618.8	572.6	574.9
52.5°	5070.3	2366.6	697.3	577.2	625.7	729.6	729.6	664.9	572.6	540.3	535.7
55°	5326.6	2362.0	581.8	473.3	558.7	688.0	699.6	595.7	512.6	487.2	487.2
56°	5363.6	2255.7	524.1	443.3	528.8	676.5	678.8	577.2	489.5	461.8	461.8
57.5°	5086.4	2036.4	459.5	406.4	491.8	655.7	658.0	561.0	471.0	431.7	427.1
60°	3913.5	1378.4	383.3	362.5	445.6	591.1	602.6	510.3	413.3	383.3	380.9
62.5°	2209.6	764.2	337.1	327.8	383.3	503.3	538.0	445.6	350.9	334.8	339.4
65°	1009.0	420.2	284.0	265.5	309.4	387.9	434.1	367.1	288.6	270.1	270.1
67.5°	369.4	286.3	242.4	210.1	217.0	251.7	281.6	237.8	191.6	164.0	170.9
70°	263.2	240.1	212.4	182.4	168.6	164.0	161.6	133.9	94.7	73.9	78.5
72.5°	212.4	198.6	177.8	154.7	131.6	110.8	94.7	69.3	43.8	30.0	27.7
75°	152.4	145.5	129.3	110.8	92.4	78.5	64.7	43.8	23.1	11.5	11.5
77.5°	78.5	78.5	76.2	69.3	57.7	46.2	37.0	25.4	13.9	4.6	4.6
80°	60.1	64.7	66.9	60.1	53.1	41.6	30.0	18.5	9.2	2.3	2.3
82.5°	57.7	66.9	71.6	62.3	53.1	39.2	30.0	18.5	9.2	2.3	2.3
85°	13.9	13.9	20.7	23.1	30.0	32.3	25.4	16.1	6.9	2.3	2.3
87.5°	4.6	4.6	4.6	4.6	4.6	4.6	2.3	2.3	2.3	2.3	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)