

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: P530813

Luminaire Tested: **GALN-SA6A-740-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530813  
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-740-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 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: 15997 lumens  
Efficiency: N/A  
Efficacy: 87.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

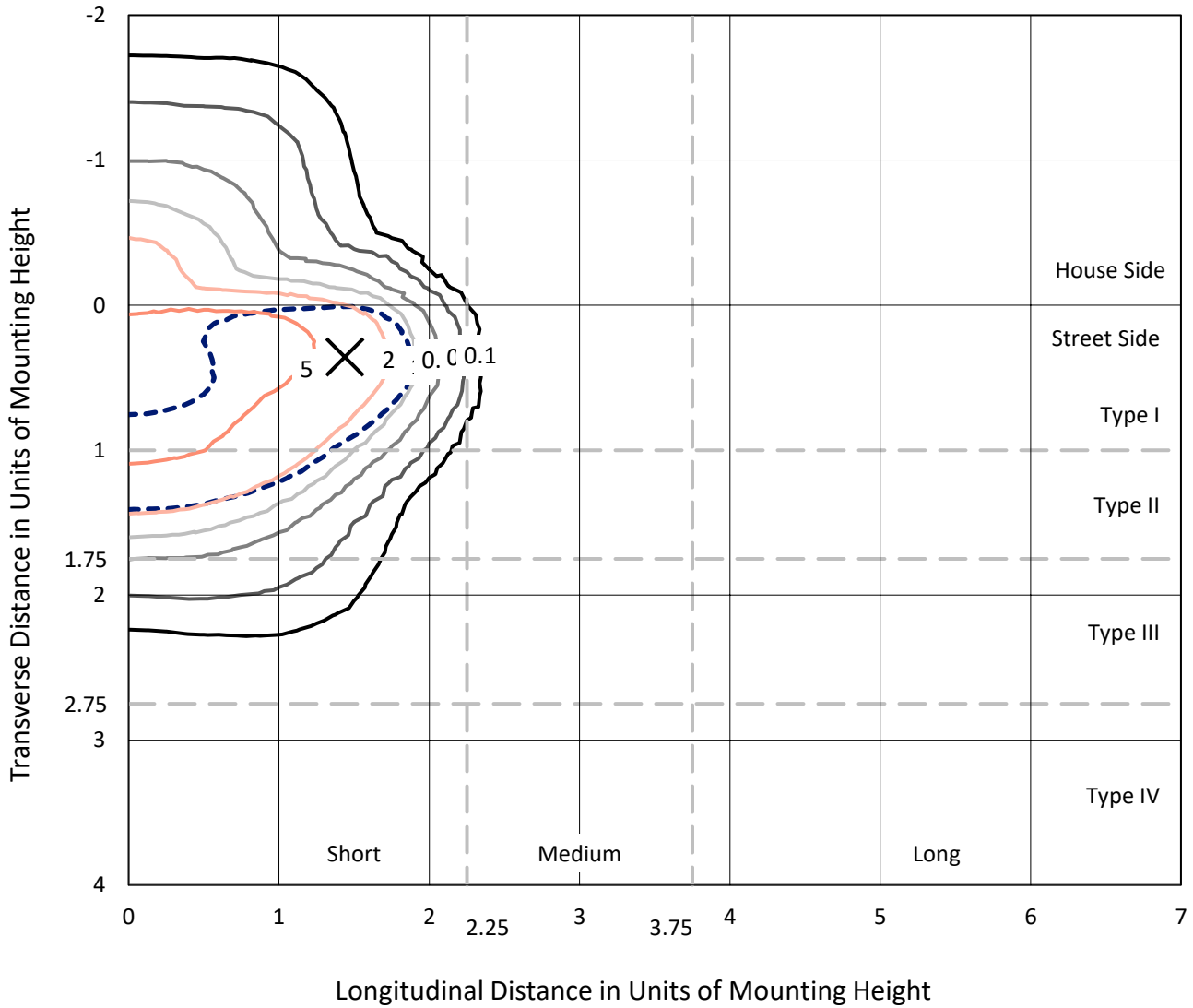
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

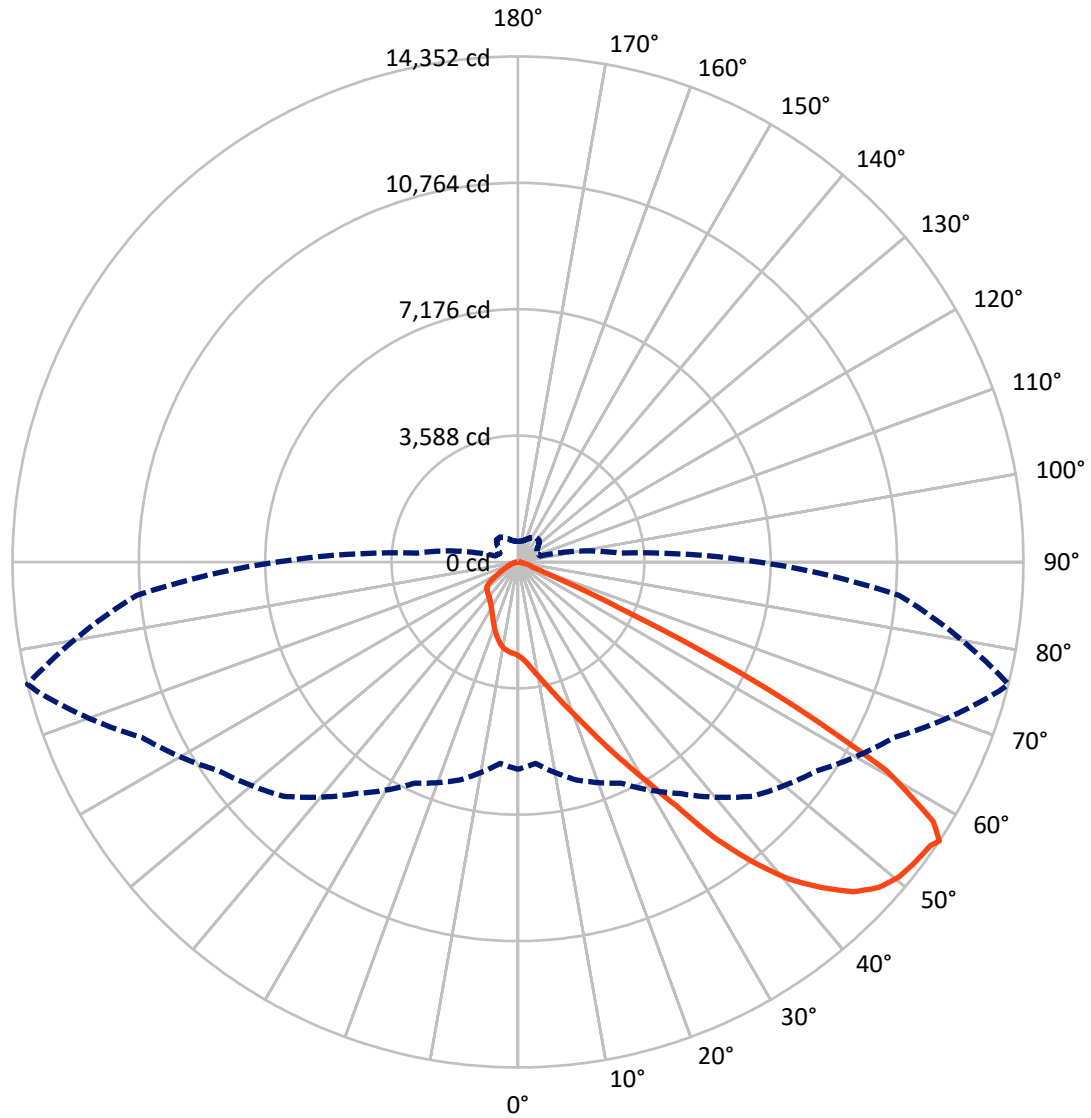
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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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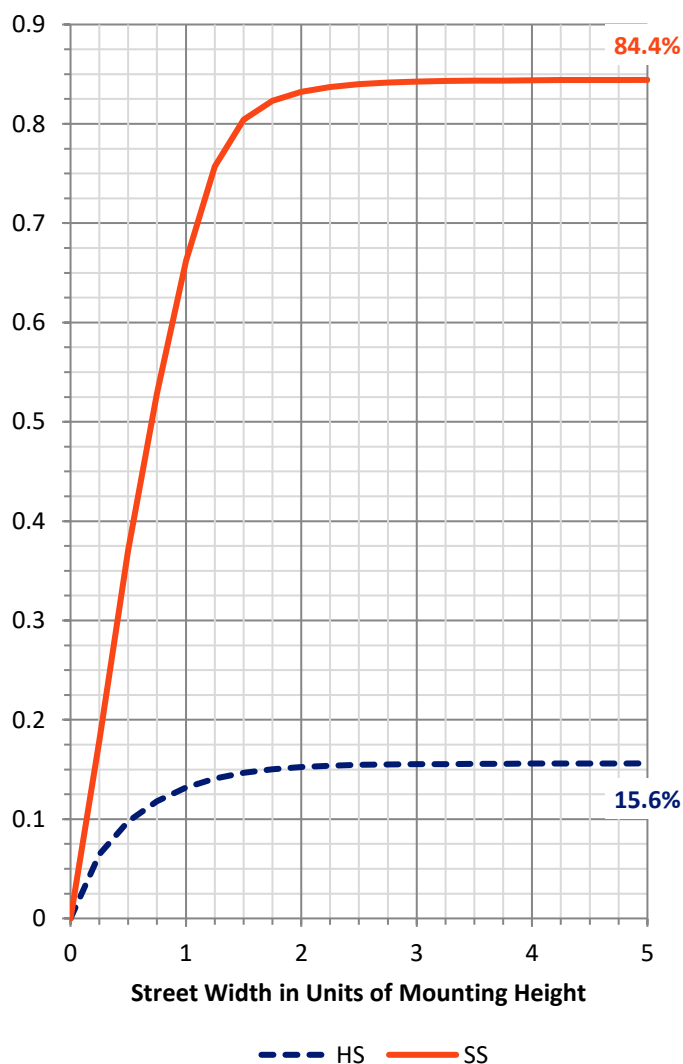
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2513.0	0.0	2513.0
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	13484.0	0.0	13484.0
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	15997.0	0.0	15997.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	268.2	1.7
10°-20°	861.7	5.4
20°-30°	1562.5	9.8
30°-40°	2694.7	16.8
40°-50°	4377.6	27.4
50°-60°	4614.2	28.8
60°-70°	1409.8	8.8
70°-80°	180.7	1.1
80°-90°	27.5	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°	15997.0	100.0
0°-180°	15997.0	100.0

**Coefficient of Utilization**

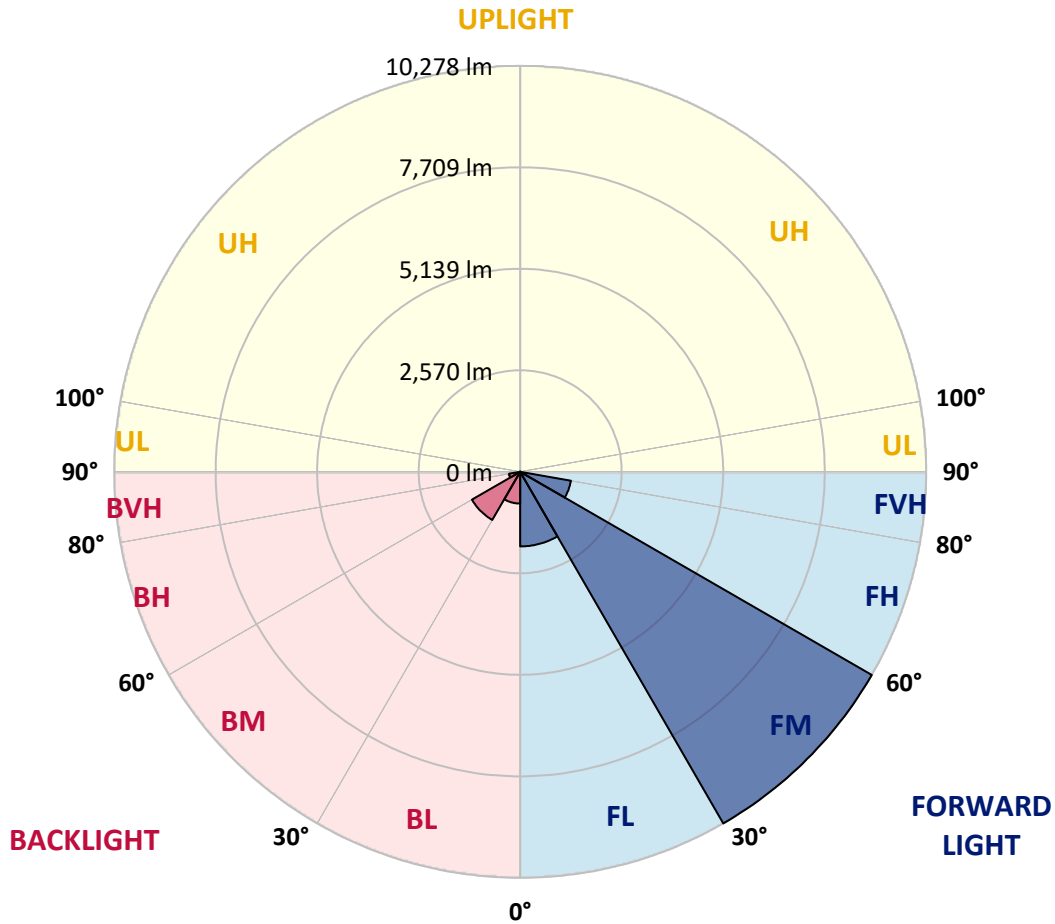


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1888.6	11.8			
FM (30°-60°)	10278.1	64.2			
FH (60°-80°)	1303.9	8.2			G1/1800
FVH (80°-90°)	13.4	0.1			G1/100
BL (0°-30°)	803.9	5.0	B2/1000		
BM (30°-60°)	1408.4	8.8	B2/2500		
BH (60°-80°)	286.7	1.8	B1/500		G1/500
BVH (80°-90°)	14.0	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°	2662.7	2662.7	2662.7	2662.7	2662.7	2662.7	2662.7	2662.7	2662.7	2662.7	2662.7
2.5°	3066.7	2995.9	2998.9	2993.0	2984.1	2951.7	2854.4	2839.6	2774.8	2757.1	2698.1
5°	3435.3	3373.4	3408.8	3355.7	3305.6	3276.1	3116.8	3043.1	2939.9	2901.6	2819.0
7.5°	3665.3	3635.8	3624.0	3627.0	3579.8	3506.1	3435.3	3273.1	3134.5	3105.0	2931.1
10°	3777.4	3759.7	3777.4	3768.5	3789.1	3798.0	3674.1	3576.8	3373.4	3323.2	3052.0
12.5°	3803.9	3839.3	3854.0	3892.4	3942.5	4028.0	4019.2	3886.5	3615.2	3582.7	3237.7
15°	3868.8	3898.3	3883.5	3945.4	4039.8	4184.3	4260.9	4240.3	3948.4	3889.4	3453.0
17.5°	3927.7	3874.7	3924.8	4048.6	4143.0	4364.2	4549.9	4635.4	4311.1	4243.3	3650.6
20°	4007.4	3992.6	3983.8	4045.7	4213.8	4508.6	4877.2	5033.5	4718.0	4647.2	3933.6
22.5°	4249.2	4252.1	4246.2	4154.8	4275.7	4608.9	5163.3	5549.6	5204.6	5145.6	4255.1
25°	4567.6	4529.3	4499.8	4426.1	4411.3	4700.3	5452.2	6180.6	5788.4	5747.1	4603.0
27.5°	4903.8	4903.8	4815.3	4747.5	4653.1	4927.4	5717.6	6793.9	6493.2	6437.1	4906.7
30°	5269.4	5290.1	5278.3	5133.8	5074.8	5175.1	5988.9	7578.3	7301.1	7230.3	5408.0
32.5°	5809.0	5764.8	5814.9	5694.0	5520.1	5608.5	6416.5	8280.1	8350.9	8250.6	6065.6
35°	6522.6	6496.1	6463.7	6266.1	6059.7	6130.5	7021.0	9144.1	9669.0	9618.8	6729.1
37.5°	7162.5	7147.8	7121.2	6985.6	6746.7	6832.3	7708.0	10043.5	10954.6	10789.5	7666.8
40°	7834.8	7914.5	7828.9	7708.0	7489.8	7678.6	8516.0	10577.2	12036.8	11836.3	8383.3
42.5°	8746.0	8684.1	8722.4	8501.3	8383.3	8589.7	9326.9	11110.9	12877.2	12638.4	9144.1
45°	9716.1	9719.1	9615.9	9545.1	9238.4	9462.6	9825.2	11405.8	13546.6	13360.8	9719.1
47.5°	10338.3	10335.4	10447.4	10559.5	10244.0	10022.8	10164.4	11685.9	13891.6	13806.1	9928.5
50°	10241.0	10270.5	10415.0	10833.7	10998.9	10701.0	10482.8	11603.3	14047.9	14039.0	10108.3
52.5°	8908.2	9005.5	9247.3	9851.8	10683.3	11051.9	10816.0	11756.7	14124.5	14139.3	10376.7
55°	6782.1	6835.2	7295.2	8029.5	8949.5	10211.5	10683.3	11877.6	14183.5	14210.0	10701.0
56°	5882.8	5741.2	6404.7	6926.6	8026.5	9406.5	10347.2	11783.2	14148.1	14351.6	10863.2
57.5°	4440.8	4346.5	4883.1	5534.8	6593.4	8050.1	9303.3	11338.0	13909.3	13906.3	10630.3
60°	2701.1	2606.7	3019.5	3402.9	3995.6	4956.9	6286.7	9029.1	11759.6	12007.3	8607.4
62.5°	1607.1	1666.0	2073.0	2305.9	2497.6	2597.9	3252.5	5366.7	7846.6	8023.6	5340.2
65°	1070.4	1091.0	1397.7	1781.0	1866.6	1486.2	1324.0	2173.2	3402.9	3293.8	2202.7
67.5°	660.5	707.7	937.7	1338.7	1483.2	1085.1	628.1	810.9	937.7	937.7	636.9
70°	401.0	424.6	625.1	911.2	1017.3	698.9	457.1	457.1	451.2	442.3	380.4
72.5°	191.7	206.4	318.5	468.9	477.7	368.6	353.9	386.3	377.4	374.5	315.5
75°	82.6	88.5	112.1	147.4	168.1	156.3	215.3	277.2	286.0	277.2	227.1
77.5°	26.5	29.5	41.3	53.1	56.0	67.8	91.4	115.0	132.7	123.8	112.1
80°	2.9	5.9	11.8	26.5	41.3	53.1	67.8	76.7	85.5	85.5	79.6
82.5°	2.9	2.9	11.8	23.6	38.3	50.1	64.9	73.7	85.5	88.5	82.6
85°	0.0	2.9	8.8	20.6	32.4	32.4	29.5	29.5	20.6	20.6	20.6
87.5°	0.0	0.0	2.9	2.9	2.9	5.9	5.9	5.9	5.9	5.9	5.9
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°	2662.7	2662.7	2662.7	2662.7	2662.7	2662.7	2662.7	2662.7	2662.7	2662.7	2662.7
2.5°	2686.3	2680.4	2600.8	2550.7	2524.1	2471.1	2438.6	2415.0	2397.3	2376.7	2379.6
5°	2721.7	2701.1	2568.4	2477.0	2367.8	2308.9	2258.7	2217.5	2190.9	2185.0	2173.2
7.5°	2822.0	2712.9	2512.3	2347.2	2208.6	2149.6	2105.4	2078.9	2090.7	2064.1	2084.8
10°	2898.6	2736.4	2444.5	2205.7	2067.1	2022.8	1999.3	2019.9	2049.4	2037.6	2022.8
12.5°	2993.0	2760.0	2335.4	2070.0	1940.3	1907.8	1949.1	1987.5	2046.4	2070.0	2040.5
15°	3099.1	2786.6	2196.8	1913.7	1831.2	1857.7	1928.5	1996.3	2055.3	2084.8	2102.5
17.5°	3228.9	2777.7	2061.2	1789.9	1728.0	1804.6	1890.2	1952.1	2040.5	2084.8	2073.0
20°	3349.8	2748.2	1910.8	1666.0	1669.0	1739.8	1810.5	1910.8	1958.0	2016.9	1996.3
22.5°	3464.8	2695.2	1754.5	1580.5	1580.5	1689.6	1725.0	1789.9	1831.2	1860.7	1857.7
25°	3627.0	2594.9	1624.8	1498.0	1533.4	1604.1	1633.6	1654.3	1636.6	1660.1	1663.1
27.5°	3742.0	2491.7	1518.6	1424.2	1489.1	1542.2	1533.4	1521.6	1480.3	1447.8	1468.5
30°	3865.8	2370.8	1427.2	1374.1	1409.5	1456.7	1421.3	1385.9	1321.0	1268.0	1270.9
32.5°	4042.7	2314.8	1347.6	1315.1	1362.3	1368.2	1329.9	1276.8	1211.9	1161.8	1158.9
35°	4373.0	2279.4	1279.8	1276.8	1285.7	1288.6	1250.3	1185.4	1158.9	1117.6	1132.3
37.5°	4703.3	2261.7	1232.6	1220.8	1217.8	1220.8	1176.6	1114.6	1164.8	1161.8	1167.7
40°	5124.9	2341.3	1164.8	1150.0	1153.0	1153.0	1096.9	1079.2	1167.7	1176.6	1179.5
42.5°	5552.5	2441.6	1120.5	1073.3	1085.1	1085.1	1055.7	1035.0	1096.9	1038.0	1029.1
45°	5924.0	2589.0	1073.3	996.7	1026.2	1040.9	1032.1	996.7	958.3	858.1	858.1
47.5°	6044.9	2718.8	1017.3	923.0	946.5	1011.4	984.9	911.2	843.3	760.8	754.9
50°	6257.3	2860.3	973.1	837.4	887.6	967.2	940.7	866.9	790.3	731.3	734.2
52.5°	6475.5	3022.5	890.5	737.2	799.1	931.8	931.8	849.2	731.3	690.0	684.1
55°	6802.8	3016.6	743.1	604.5	713.6	878.7	893.5	760.8	654.6	622.2	622.2
56°	6850.0	2880.9	669.4	566.2	675.3	864.0	866.9	737.2	625.1	589.8	589.8
57.5°	6496.1	2600.8	586.8	519.0	628.1	837.4	840.4	716.5	601.5	551.4	545.5
60°	4998.1	1760.4	489.5	463.0	569.1	754.9	769.6	651.7	527.8	489.5	486.5
62.5°	2822.0	976.0	430.5	418.7	489.5	642.8	687.1	569.1	448.2	427.6	433.5
65°	1288.6	536.7	362.7	339.1	395.1	495.4	554.4	468.9	368.6	345.0	345.0
67.5°	471.8	365.6	309.6	268.3	277.2	321.4	359.7	303.7	244.7	209.4	218.2
70°	336.2	306.7	271.3	233.0	215.3	209.4	206.4	171.0	120.9	94.4	100.3
72.5°	271.3	253.6	227.1	197.6	168.1	141.5	120.9	88.5	56.0	38.3	35.4
75°	194.6	185.8	165.1	141.5	118.0	100.3	82.6	56.0	29.5	14.7	14.7
77.5°	100.3	100.3	97.3	88.5	73.7	59.0	47.2	32.4	17.7	5.9	5.9
80°	76.7	82.6	85.5	76.7	67.8	53.1	38.3	23.6	11.8	2.9	2.9
82.5°	73.7	85.5	91.4	79.6	67.8	50.1	38.3	23.6	11.8	2.9	2.9
85°	17.7	17.7	26.5	29.5	38.3	41.3	32.4	20.6	8.8	2.9	2.9
87.5°	5.9	5.9	5.9	5.9	5.9	5.9	2.9	2.9	2.9	2.9	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)