

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: P529123

Luminaire Tested: **GALN-SA4B-730-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529123  
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-SA4B-730-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 800mA 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: 12093 lumens  
Efficiency: N/A  
Efficacy: 73.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

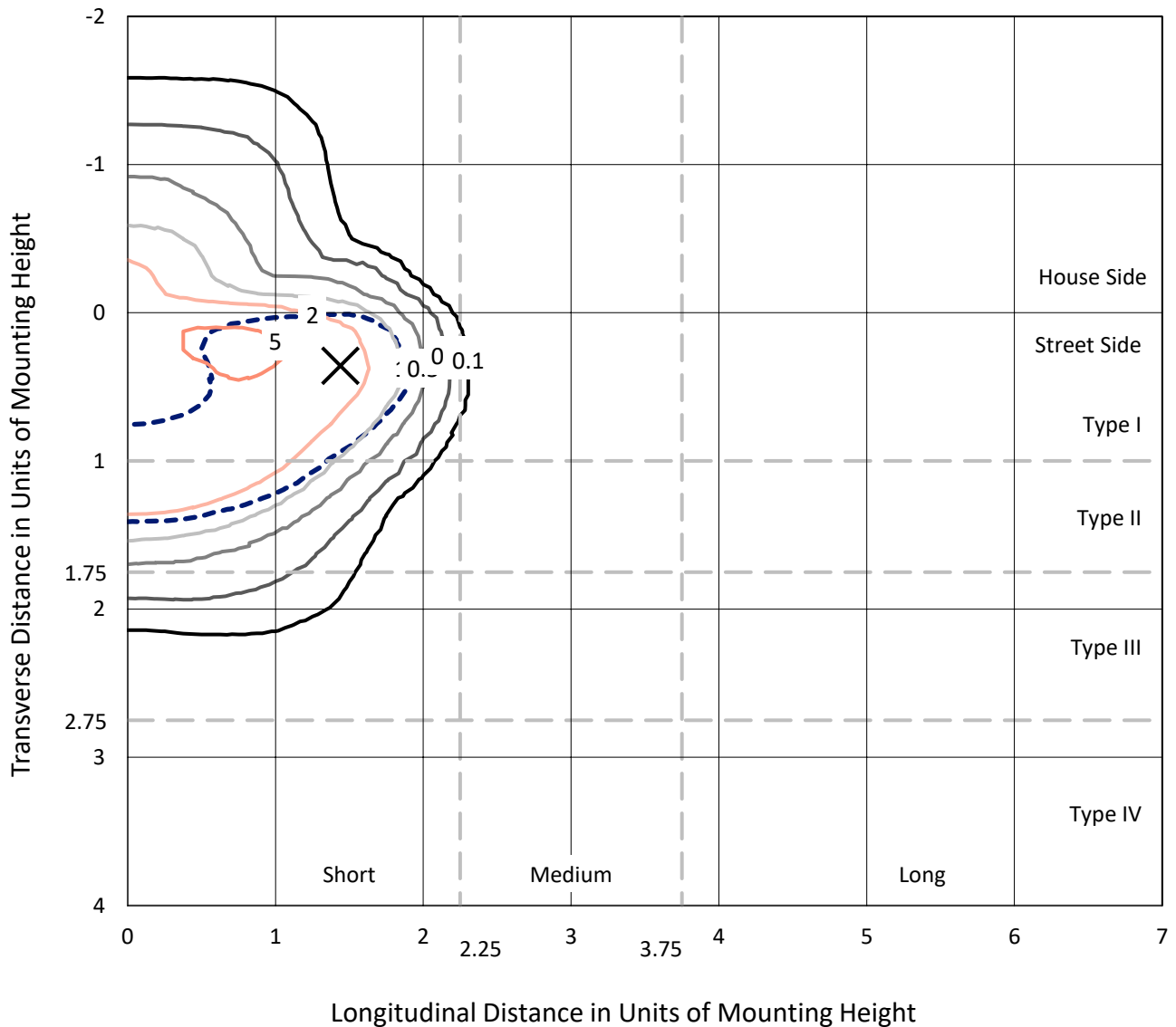
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

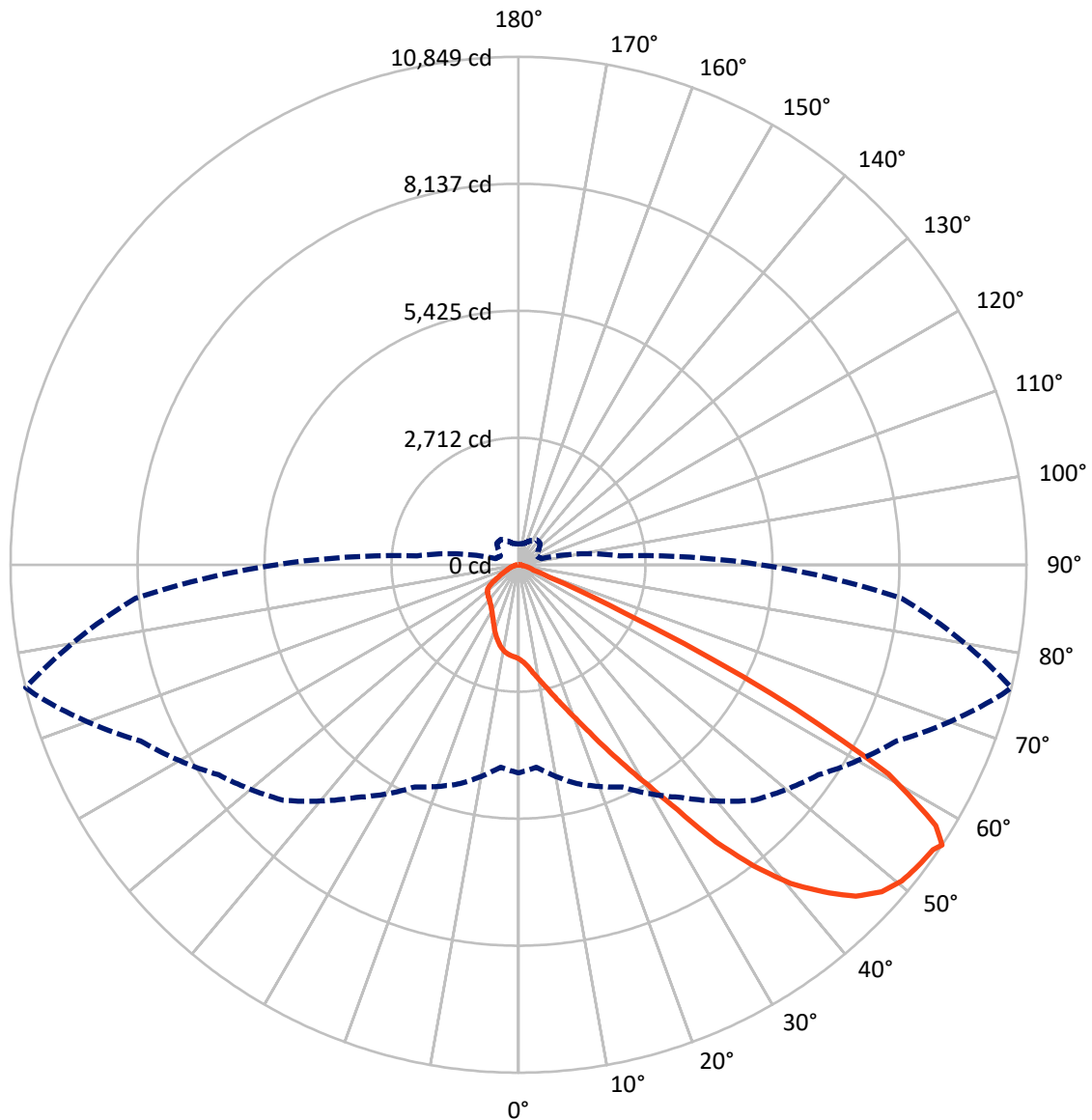
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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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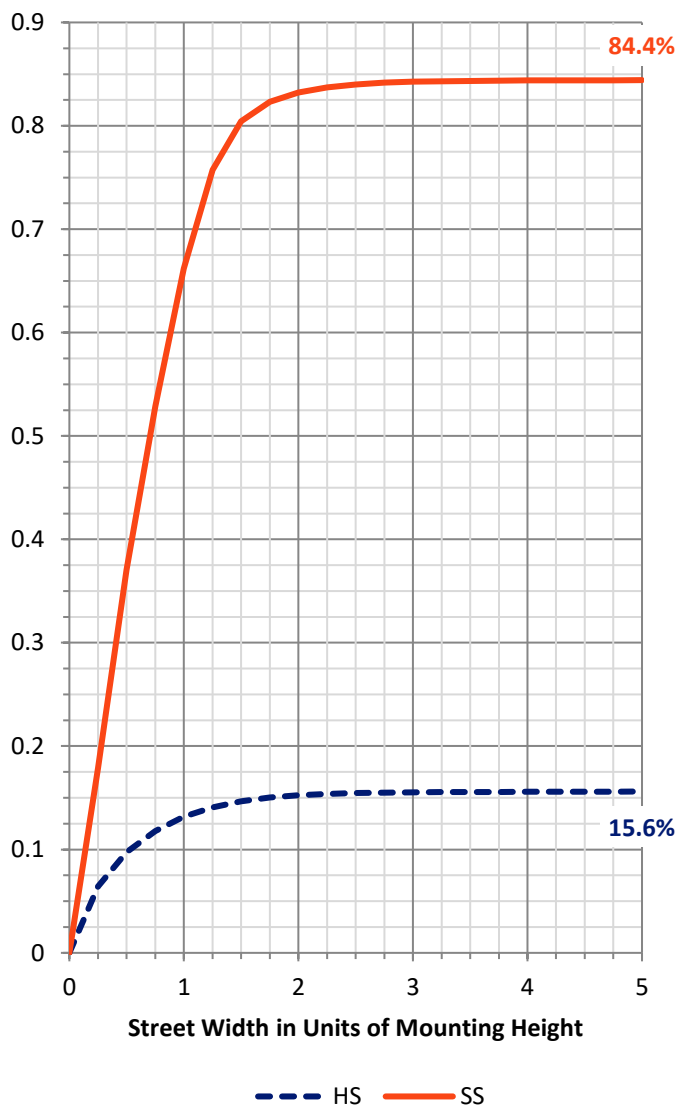
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1899.7	0.0	1899.7
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	10193.2	0.0	10193.2
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	12093.0	0.0	12093.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	202.8	1.7
10°-20°	651.4	5.4
20°-30°	1181.2	9.8
30°-40°	2037.1	16.8
40°-50°	3309.3	27.4
50°-60°	3488.1	28.8
60°-70°	1065.8	8.8
70°-80°	136.6	1.1
80°-90°	20.8	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°	12093.0	100.0
0°-180°	12093.0	100.0

**Coefficient of Utilization**



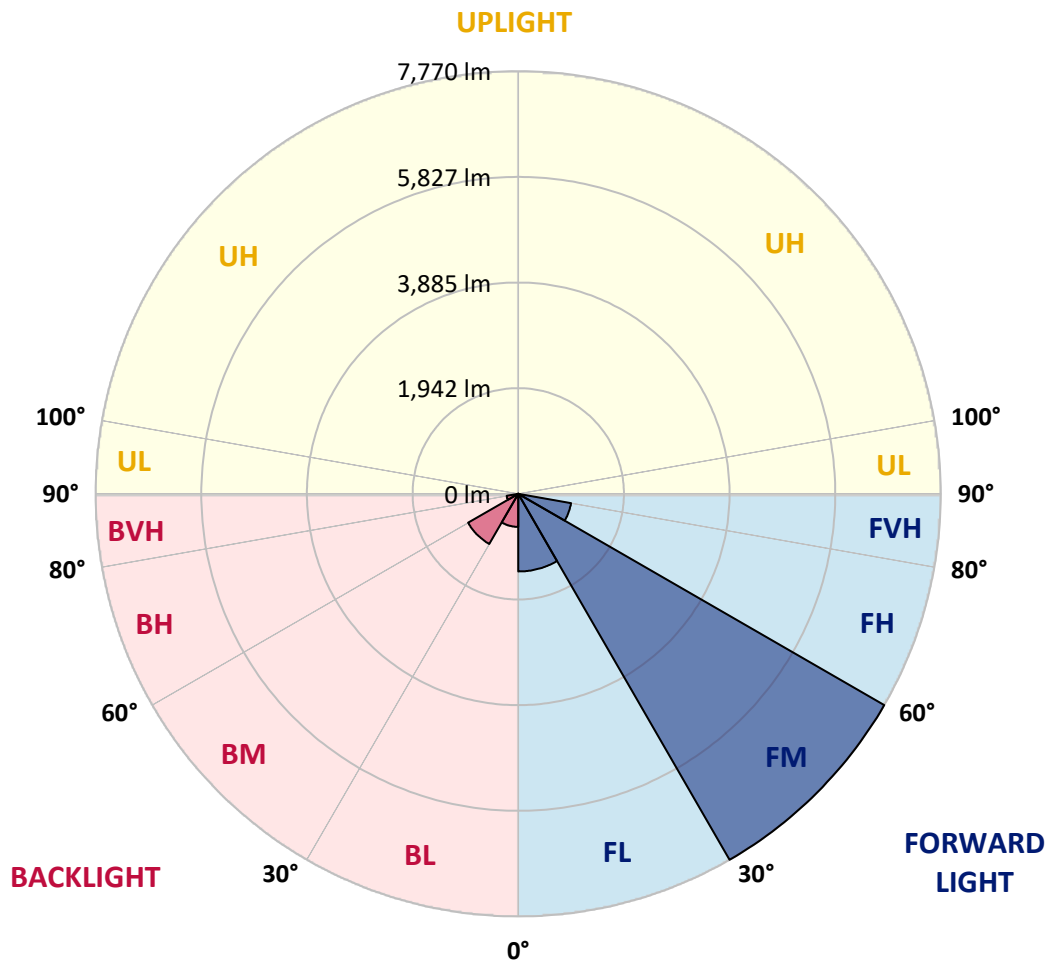
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1427.7	11.8			
FM (30°-60°)	7769.7	64.2			
FH (60°-80°)	985.7	8.2			G1/1800
FVH (80°-90°)	10.2	0.1			G1/100
BL (0°-30°)	607.7	5.0	B2/1000		
BM (30°-60°)	1064.7	8.8	B2/2500		
BH (60°-80°)	216.7	1.8	B1/500		G1/500
BVH (80°-90°)	10.6	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°	2012.9	2012.9	2012.9	2012.9	2012.9	2012.9	2012.9	2012.9	2012.9	2012.9	2012.9
2.5°	2318.3	2264.8	2267.0	2262.6	2255.9	2231.4	2157.8	2146.6	2097.6	2084.2	2039.6
5°	2596.9	2550.1	2576.9	2536.7	2498.8	2476.6	2356.2	2300.5	2222.4	2193.5	2131.0
7.5°	2770.8	2748.5	2739.6	2741.8	2706.2	2650.4	2596.9	2474.3	2369.6	2347.3	2215.7
10°	2855.5	2842.1	2855.5	2848.8	2864.4	2871.1	2777.5	2703.9	2550.1	2512.2	2307.1
12.5°	2875.6	2902.3	2913.5	2942.4	2980.3	3045.0	3038.3	2938.0	2732.9	2708.4	2447.6
15°	2924.6	2946.9	2935.8	2982.6	3053.9	3163.1	3221.1	3205.5	2984.8	2940.2	2610.3
17.5°	2969.2	2929.1	2967.0	3060.6	3131.9	3299.1	3439.5	3504.2	3259.0	3207.7	2759.7
20°	3029.4	3018.2	3011.5	3058.4	3185.4	3408.3	3687.0	3805.1	3566.6	3513.1	2973.7
22.5°	3212.2	3214.4	3209.9	3140.8	3232.2	3484.1	3903.2	4195.2	3934.4	3889.8	3216.6
25°	3452.9	3423.9	3401.6	3345.9	3334.8	3553.2	4121.6	4672.2	4375.8	4344.6	3479.7
27.5°	3707.0	3707.0	3640.2	3588.9	3517.6	3724.9	4322.3	5135.9	4908.5	4866.2	3709.3
30°	3983.4	3999.0	3990.1	3880.9	3836.3	3912.1	4527.3	5728.8	5519.3	5465.8	4088.2
32.5°	4391.4	4357.9	4395.8	4304.4	4172.9	4239.8	4850.6	6259.4	6312.9	6237.1	4585.3
35°	4930.8	4910.8	4886.2	4736.9	4580.8	4634.3	5307.5	6912.5	7309.3	7271.4	5086.9
37.5°	5414.5	5403.4	5383.3	5280.8	5100.2	5164.9	5826.9	7592.4	8281.2	8156.4	5795.7
40°	5922.8	5983.0	5918.3	5826.9	5662.0	5804.6	6437.7	7995.9	9099.3	8947.7	6337.4
42.5°	6611.6	6564.8	6593.7	6426.6	6337.4	6493.4	7050.7	8399.3	9734.6	9554.0	6912.5
45°	7345.0	7347.2	7269.2	7215.7	6983.8	7153.3	7427.4	8622.2	10240.6	10100.2	7347.2
47.5°	7815.3	7813.1	7897.8	7982.5	7744.0	7576.8	7683.8	8834.0	10501.4	10436.8	7505.5
50°	7741.7	7764.0	7873.3	8189.8	8314.6	8089.5	7924.5	8771.6	10619.5	10612.9	7641.4
52.5°	6734.2	6807.7	6990.5	7447.5	8076.1	8354.8	8176.4	8887.5	10677.5	10688.6	7844.3
55°	5127.0	5167.1	5514.9	6069.9	6765.4	7719.5	8076.1	8978.9	10722.1	10742.1	8089.5
56°	4447.1	4340.1	4841.7	5236.2	6067.7	7110.9	7822.0	8907.6	10695.3	10849.1	8212.1
57.5°	3357.1	3285.7	3691.4	4184.1	4984.3	6085.5	7032.9	8571.0	10514.8	10512.5	8036.0
60°	2041.9	1970.5	2282.6	2572.4	3020.5	3747.2	4752.5	6825.6	8889.7	9077.0	6506.8
62.5°	1214.9	1259.5	1567.1	1743.2	1888.1	1963.9	2458.7	4057.0	5931.7	6065.4	4036.9
65°	809.2	824.8	1056.6	1346.4	1411.0	1123.5	1000.9	1642.9	2572.4	2489.9	1665.2
67.5°	499.3	535.0	708.9	1012.0	1121.2	820.3	474.8	613.0	708.9	708.9	481.5
70°	303.2	321.0	472.6	688.8	769.0	528.3	345.5	345.5	341.1	334.4	287.6
72.5°	144.9	156.0	240.7	354.4	361.1	278.6	267.5	292.0	285.3	283.1	238.5
75°	62.4	66.9	84.7	111.5	127.1	118.1	162.7	209.5	216.2	209.5	171.6
77.5°	20.1	22.3	31.2	40.1	42.4	51.3	69.1	86.9	100.3	93.6	84.7
80°	2.2	4.5	8.9	20.1	31.2	40.1	51.3	58.0	64.6	64.6	60.2
82.5°	2.2	2.2	8.9	17.8	29.0	37.9	49.0	55.7	64.6	66.9	62.4
85°	0.0	2.2	6.7	15.6	24.5	24.5	22.3	22.3	15.6	15.6	15.6
87.5°	0.0	0.0	2.2	2.2	2.2	4.5	4.5	4.5	4.5	4.5	4.5
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°	2012.9	2012.9	2012.9	2012.9	2012.9	2012.9	2012.9	2012.9	2012.9	2012.9	2012.9
2.5°	2030.7	2026.3	1966.1	1928.2	1908.1	1868.0	1843.5	1825.7	1812.3	1796.7	1798.9
5°	2057.5	2041.9	1941.6	1872.5	1790.0	1745.4	1707.5	1676.3	1656.2	1651.8	1642.9
7.5°	2133.3	2050.8	1899.2	1774.4	1669.6	1625.0	1591.6	1571.5	1580.4	1560.4	1576.0
10°	2191.2	2068.6	1847.9	1667.4	1562.6	1529.2	1511.3	1526.9	1549.2	1540.3	1529.2
12.5°	2262.6	2086.5	1765.5	1564.8	1466.8	1442.2	1473.5	1502.4	1547.0	1564.8	1542.6
15°	2342.8	2106.5	1660.7	1446.7	1384.3	1404.3	1457.8	1509.1	1553.7	1576.0	1589.4
17.5°	2440.9	2099.8	1558.2	1353.1	1306.3	1364.2	1428.9	1475.7	1542.6	1576.0	1567.1
20°	2532.3	2077.5	1444.5	1259.5	1261.7	1315.2	1368.7	1444.5	1480.1	1524.7	1509.1
22.5°	2619.2	2037.4	1326.3	1194.8	1194.8	1277.3	1304.0	1353.1	1384.3	1406.6	1404.3
25°	2741.8	1961.6	1228.2	1132.4	1159.1	1212.6	1234.9	1250.5	1237.2	1255.0	1257.2
27.5°	2828.8	1883.6	1148.0	1076.7	1125.7	1165.8	1159.1	1150.2	1119.0	1094.5	1110.1
30°	2922.4	1792.2	1078.9	1038.8	1065.5	1101.2	1074.4	1047.7	998.6	958.5	960.8
32.5°	3056.1	1749.9	1018.7	994.2	1029.9	1034.3	1005.3	965.2	916.2	878.3	876.0
35°	3305.8	1723.1	967.4	965.2	971.9	974.1	945.1	896.1	876.0	844.8	856.0
37.5°	3555.5	1709.7	931.8	922.9	920.6	922.9	889.4	842.6	880.5	878.3	882.7
40°	3874.2	1769.9	880.5	869.4	871.6	871.6	829.2	815.9	882.7	889.4	891.6
42.5°	4197.4	1845.7	847.1	811.4	820.3	820.3	798.0	782.4	829.2	784.7	778.0
45°	4478.3	1957.2	811.4	753.4	775.7	786.9	780.2	753.4	724.5	648.7	648.7
47.5°	4569.7	2055.3	769.0	697.7	715.5	764.6	744.5	688.8	637.5	575.1	570.7
50°	4730.2	2162.2	735.6	633.1	671.0	731.2	711.1	655.4	597.4	552.8	555.1
52.5°	4895.2	2284.9	673.2	557.3	604.1	704.4	704.4	642.0	552.8	521.6	517.2
55°	5142.6	2280.4	561.7	457.0	539.4	664.3	675.4	575.1	494.9	470.3	470.3
56°	5178.3	2177.9	506.0	428.0	510.5	653.1	655.4	557.3	472.6	445.8	445.8
57.5°	4910.8	1966.1	443.6	392.3	474.8	633.1	635.3	541.7	454.7	416.8	412.4
60°	3778.4	1330.8	370.0	350.0	430.2	570.7	581.8	492.6	399.0	370.0	367.8
62.5°	2133.3	737.8	325.5	316.5	370.0	485.9	519.4	430.2	338.8	323.2	327.7
65°	974.1	405.7	274.2	256.3	298.7	374.5	419.1	354.4	278.6	260.8	260.8
67.5°	356.7	276.4	234.1	202.9	209.5	243.0	272.0	229.6	185.0	158.3	165.0
70°	254.1	231.8	205.1	176.1	162.7	158.3	156.0	129.3	91.4	71.3	75.8
72.5°	205.1	191.7	171.6	149.4	127.1	107.0	91.4	66.9	42.4	29.0	26.7
75°	147.1	140.4	124.8	107.0	89.2	75.8	62.4	42.4	22.3	11.1	11.1
77.5°	75.8	75.8	73.6	66.9	55.7	44.6	35.7	24.5	13.4	4.5	4.5
80°	58.0	62.4	64.6	58.0	51.3	40.1	29.0	17.8	8.9	2.2	2.2
82.5°	55.7	64.6	69.1	60.2	51.3	37.9	29.0	17.8	8.9	2.2	2.2
85°	13.4	13.4	20.1	22.3	29.0	31.2	24.5	15.6	6.7	2.2	2.2
87.5°	4.5	4.5	4.5	4.5	4.5	4.5	2.2	2.2	2.2	2.2	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)