

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: P651479

Luminaire Tested: **GALN-SA6D-840-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651479  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6D-840-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23463.1 lumens  
Efficiency: N/A  
Efficacy: 63.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

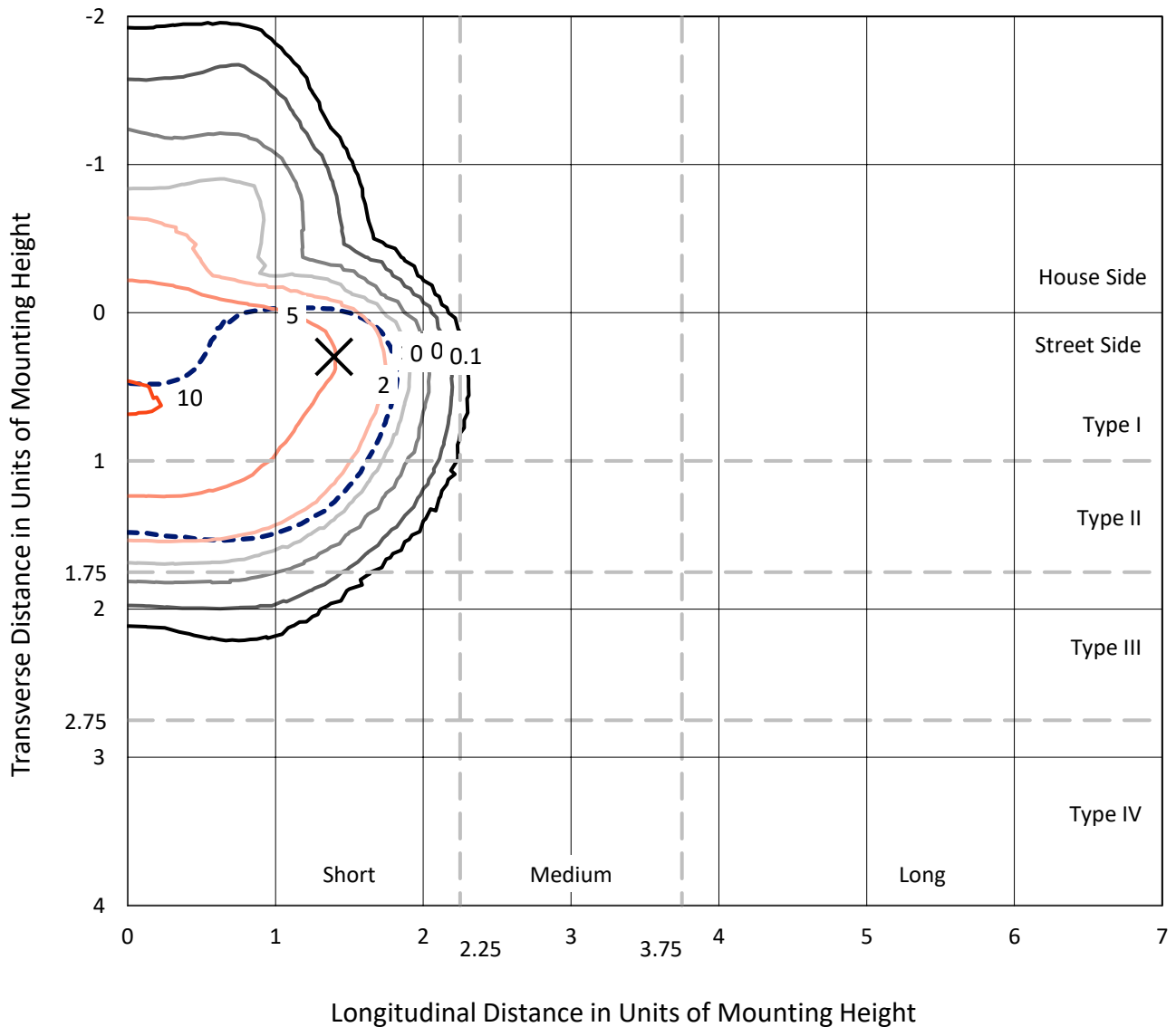
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

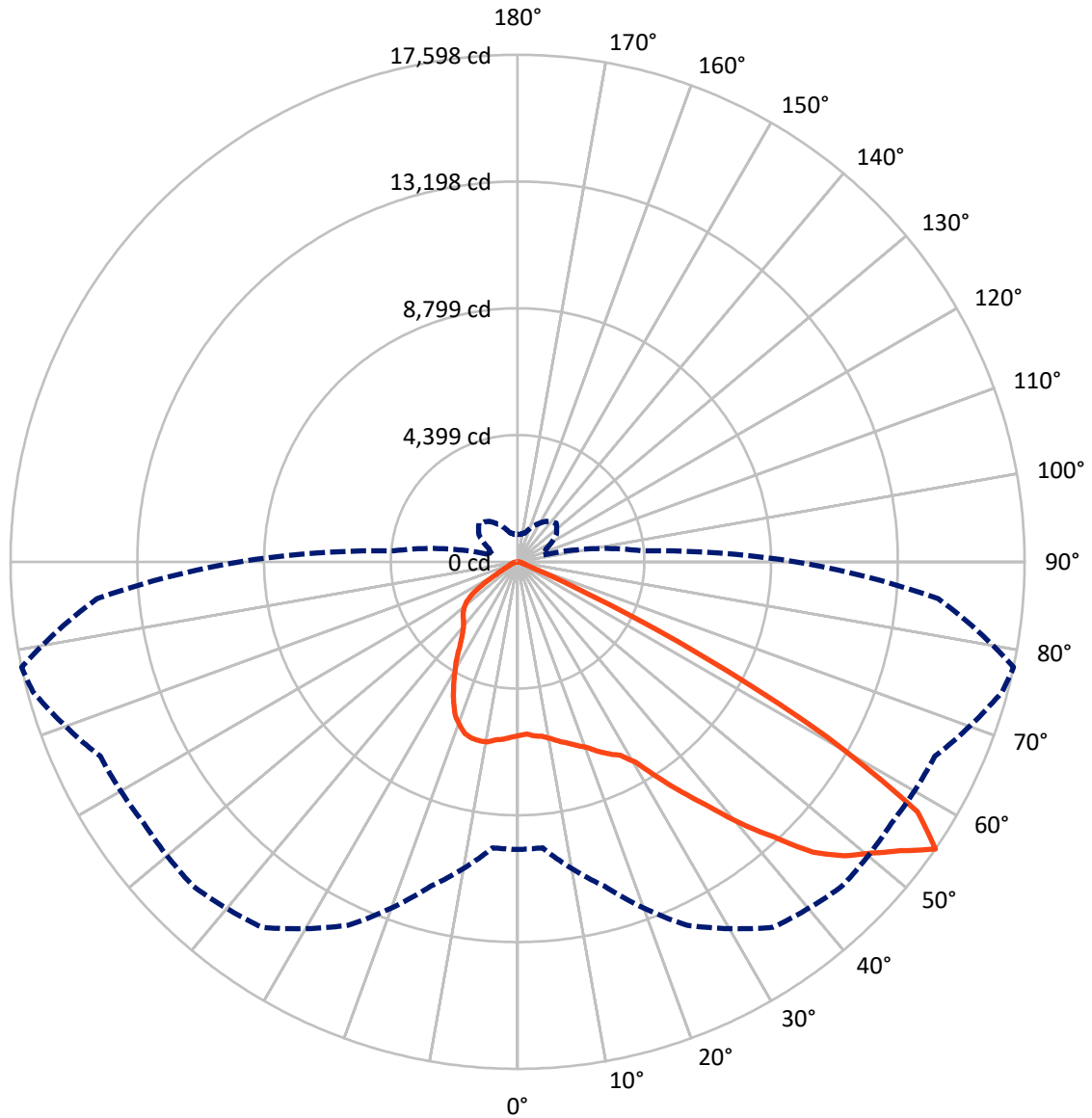
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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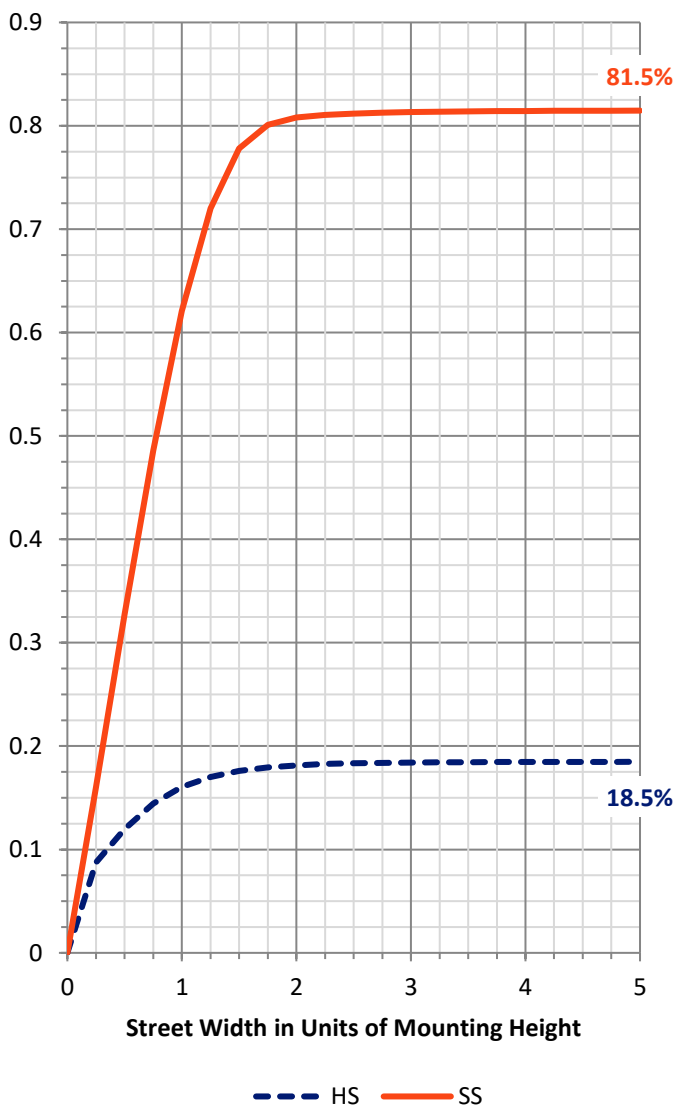
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4358.0	0.0	4358.0
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	19105.1	0.0	19105.1
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	23463.1	0.0	23463.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	537.9	2.3
10°-20°	1423.5	6.1
20°-30°	2495.2	10.6
30°-40°	4114.3	17.5
40°-50°	5986.9	25.5
50°-60°	6783.7	28.9
60°-70°	1939.6	8.3
70°-80°	150.6	0.6
80°-90°	31.3	0.1
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°	23463.1	100.0
0°-180°	23463.1	100.0

**Coefficient of Utilization**

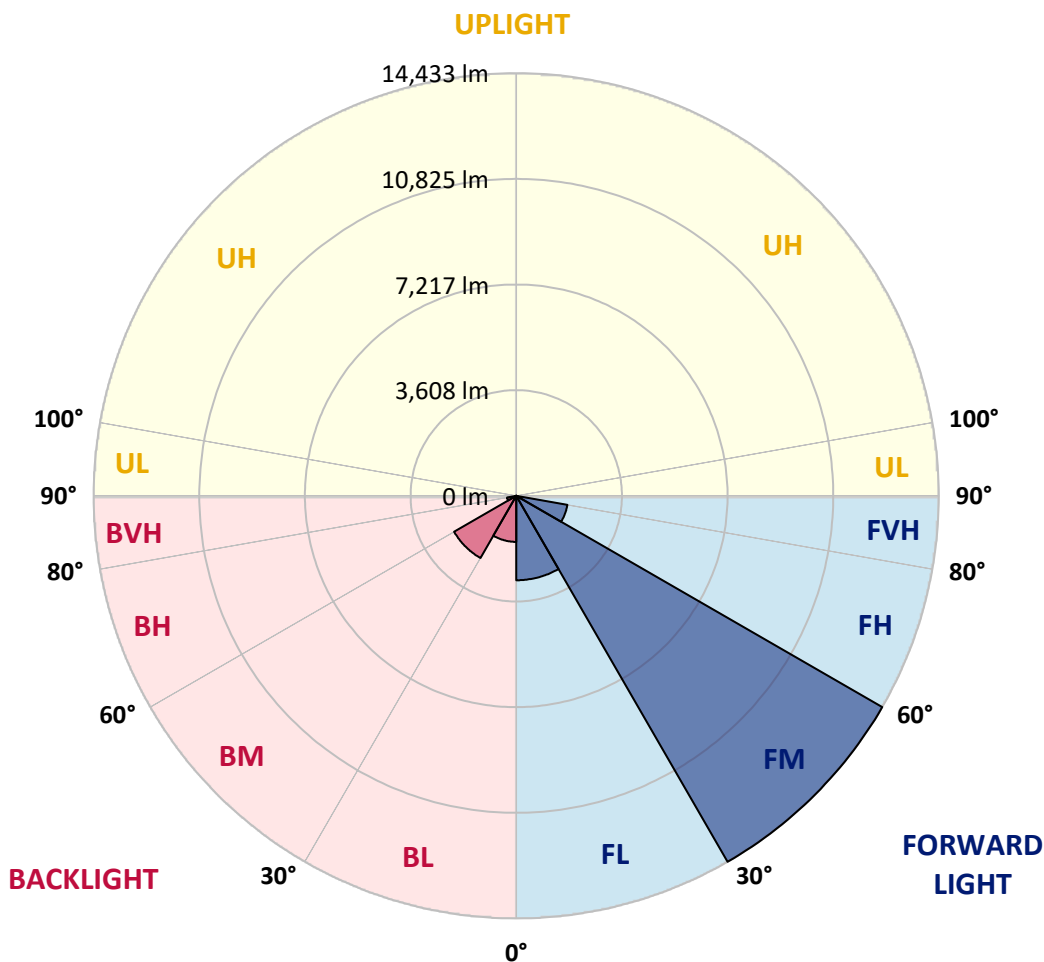


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2884.3	12.3			
FM (30°-60°)	14433.4	61.5			
FH (60°-80°)	1772.1	7.6			G1/1800
FVH (80°-90°)	15.3	0.1			G1/100
BL (0°-30°)	1572.4	6.7	B3/2500		
BM (30°-60°)	2451.4	10.4	B2/2500		
BH (60°-80°)	318.1	1.4	B1/500		G1/500
BVH (80°-90°)	16.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	6032.3	6032.3	6032.3	6032.3	6032.3	6032.3	6032.3	6032.3	6032.3	6032.3	6032.3
2.5°	5671.6	5726.1	5734.5	5801.6	5797.4	5910.7	5944.3	5948.5	6024.0	5986.2	6082.7
5°	5512.2	5482.8	5470.2	5587.7	5621.2	5721.9	5805.8	5856.2	6011.4	6066.0	6166.6
7.5°	5369.5	5369.5	5377.9	5482.8	5470.2	5600.3	5688.4	5843.6	6070.1	6116.3	6237.9
10°	5231.1	5180.8	5243.7	5352.8	5445.1	5503.8	5688.4	5835.2	6099.5	6233.7	6401.5
12.5°	5159.8	5185.0	5193.3	5273.1	5373.7	5549.9	5650.6	5893.9	6309.3	6388.9	6569.3
15°	5608.7	5558.3	5436.6	5365.3	5449.3	5533.2	5784.9	6032.3	6418.3	6531.5	6733.0
17.5°	6128.9	6086.9	5986.2	5793.2	5604.5	5759.7	5956.9	6183.4	6535.7	6703.5	7001.4
20°	6808.4	6741.3	6640.6	6263.1	6099.5	5931.7	6141.4	6409.9	6728.8	6879.7	7186.0
22.5°	7618.0	7618.0	7391.5	6934.3	6594.5	6435.1	6523.2	6678.4	6942.7	7148.2	7450.3
25°	8461.2	8436.1	8230.5	7756.5	7181.8	6993.0	7093.7	7202.7	7274.1	7387.3	7588.7
27.5°	9426.1	9279.3	9019.2	8494.8	7987.2	7622.2	7731.3	7634.9	7546.7	7605.5	7895.0
30°	10080.5	10172.8	9841.4	9338.0	8859.8	8452.9	8473.8	8389.9	7987.2	8071.2	8243.1
32.5°	10760.1	10818.8	10634.3	10357.4	9879.1	9405.2	9233.1	9161.9	8859.8	8897.5	8729.7
35°	11326.4	11439.7	11276.0	11154.4	11016.0	10634.3	10160.2	10391.0	9904.3	9812.0	9375.7
37.5°	11846.6	11813.0	12006.0	11880.1	11850.8	11582.3	11062.1	11108.3	10781.0	10760.1	10256.7
40°	12312.2	12320.6	12584.9	12643.7	12526.2	12047.9	11292.9	11657.9	11922.1	11947.2	11301.3
42.5°	12698.2	12811.5	13037.9	13512.0	13335.8	12538.8	11532.0	11930.5	12912.1	13067.3	12291.3
45°	13033.7	13264.5	13545.6	13969.3	13868.6	13235.2	12127.6	12492.6	13969.3	14376.1	13222.5
47.5°	13054.8	13356.8	13663.1	14292.3	14418.1	13608.5	12744.3	13382.0	14808.2	15248.7	13902.2
50°	12970.8	13130.3	13742.7	14426.5	14711.8	14216.8	13608.5	14128.6	15622.1	15898.9	14246.1
52.5°	11976.6	12098.3	13327.4	14552.3	15240.3	14904.7	14753.7	15169.0	16452.7	16658.2	14569.1
55°	9984.0	9963.1	11653.7	13918.9	15483.7	15924.1	15831.8	15978.7	17413.3	17597.9	14648.9
57.5°	6829.4	7211.2	8671.0	11590.7	13994.4	15685.0	15781.4	15538.1	16293.3	16364.6	12769.5
60°	3683.2	3842.6	5017.2	7735.5	10655.2	12782.1	13033.7	12593.3	12534.6	12333.2	9115.7
62.5°	1464.0	1543.7	2210.7	3830.0	5805.8	7769.1	8310.3	8129.9	7743.9	7215.4	4719.4
65°	696.3	746.7	1099.1	1791.2	2575.7	3238.5	3779.7	3947.5	2911.3	2621.8	1556.4
67.5°	474.1	511.7	801.2	1023.6	918.7	960.7	1250.1	1162.0	683.8	583.1	432.1
70°	360.8	385.9	641.9	696.3	411.1	289.5	323.0	302.0	281.1	285.3	281.1
72.5°	255.9	276.9	469.9	411.1	180.4	134.2	172.0	205.5	205.5	205.5	201.3
75°	155.2	176.2	272.7	159.4	71.3	71.3	109.1	138.4	146.8	151.0	142.6
77.5°	79.7	100.7	92.3	46.2	46.2	54.5	79.7	96.5	104.9	104.9	100.7
80°	16.8	16.8	16.8	25.1	46.2	58.7	79.7	88.1	100.7	100.7	92.3
82.5°	0.0	4.2	12.6	25.1	42.0	54.5	75.5	88.1	100.7	104.9	96.5
85°	0.0	4.2	8.4	16.8	29.4	33.6	29.4	25.1	25.1	25.1	25.1
87.5°	0.0	0.0	4.2	4.2	4.2	8.4	8.4	8.4	8.4	8.4	8.4
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°	6032.3	6032.3	6032.3	6032.3	6032.3	6032.3	6032.3	6032.3	6032.3	6032.3	6032.3
2.5°	6091.1	6103.6	6082.7	6078.5	6061.8	6112.1	5990.4	5961.1	6036.5	5965.2	5982.0
5°	6170.8	6200.2	6162.4	6099.5	6007.2	5864.5	5742.9	5583.5	5508.0	5453.5	5445.1
7.5°	6229.5	6250.5	6212.7	6011.4	5734.5	5373.7	5105.3	4908.1	4752.9	4706.7	4631.2
10°	6468.6	6472.8	6284.0	5839.4	5298.2	4824.2	4413.1	4111.1	3955.9	3859.3	3817.4
12.5°	6628.1	6619.7	6237.9	5499.6	4778.1	4148.8	3679.0	3314.0	3171.4	3125.2	3095.9
15°	6829.4	6783.3	6128.9	5151.5	4106.9	3427.3	3003.6	2751.9	2739.3	2710.0	2739.3
17.5°	6988.8	6858.8	5969.4	4518.0	3465.0	2823.2	2546.4	2563.1	2596.7	2626.0	2630.2
20°	7248.9	6980.5	5604.5	3964.2	2869.3	2420.5	2416.3	2491.8	2575.7	2609.3	2642.8
22.5°	7446.0	7030.8	5214.4	3372.7	2382.7	2256.9	2328.2	2441.5	2504.4	2538.0	2588.3
25°	7517.4	6892.3	4694.2	2781.3	2147.8	2181.4	2290.5	2366.0	2445.6	2483.4	2462.4
27.5°	7588.7	6821.0	4073.3	2290.5	2022.0	2131.0	2223.4	2298.9	2324.0	2374.3	2408.0
30°	7760.7	6573.5	3515.4	1980.1	1959.0	2097.5	2164.6	2189.8	2256.9	2286.3	2286.3
32.5°	7899.1	6477.0	2923.9	1833.2	1950.7	2114.3	2122.7	2122.7	2131.0	2110.1	2101.7
35°	8184.4	6145.6	2395.3	1745.1	1946.5	2118.5	2139.4	2068.1	1875.2	1799.7	1778.6
37.5°	8536.7	5931.7	2005.2	1724.1	1975.8	2168.8	2202.3	1933.9	1682.2	1560.6	1539.5
40°	8964.6	5780.7	1749.3	1715.7	2043.0	2286.3	2185.6	1829.0	1501.8	1325.6	1317.3
42.5°	9463.9	5642.3	1577.3	1711.5	2126.9	2408.0	2168.8	1741.0	1317.3	1199.8	1216.5
45°	9862.4	5566.7	1459.8	1682.2	2156.2	2479.3	2181.4	1585.7	1241.7	1166.2	1174.6
47.5°	10172.8	5407.3	1363.3	1631.9	2152.0	2504.4	2068.1	1522.8	1204.0	1224.9	1245.9
50°	10181.2	5193.3	1241.7	1522.8	2089.1	2458.2	1938.1	1464.0	1195.6	1283.7	1325.6
52.5°	10067.9	4891.3	1111.6	1367.6	1942.3	2298.9	1820.6	1438.9	1157.8	1149.4	1199.8
55°	9665.2	4325.0	893.6	1107.5	1640.2	1896.1	1715.7	1392.7	1044.5	948.1	956.5
57.5°	7811.0	3100.1	658.6	792.8	1162.0	1388.6	1547.9	1371.8	939.6	805.4	809.6
60°	4836.8	1757.7	482.4	541.2	717.4	843.2	1254.3	1275.3	839.0	679.6	671.2
62.5°	2483.4	868.3	373.3	381.7	440.4	495.0	860.0	1069.8	759.3	646.1	646.1
65°	830.6	427.9	327.2	293.7	293.7	306.2	520.2	742.5	641.9	541.2	541.2
67.5°	356.6	318.8	285.3	255.9	234.9	222.4	293.7	432.1	478.2	411.1	394.3
70°	276.9	268.4	247.5	214.0	184.6	167.8	172.0	222.4	272.7	264.2	255.9
72.5°	205.5	205.5	197.1	167.8	142.6	121.7	113.3	117.5	130.0	134.2	138.4
75°	142.6	146.8	146.8	130.0	104.9	88.1	75.5	62.9	50.4	42.0	37.8
77.5°	96.5	100.7	109.1	96.5	79.7	58.7	46.2	33.6	20.9	8.4	8.4
80°	83.9	96.5	104.9	96.5	83.9	62.9	46.2	25.1	12.6	0.0	0.0
82.5°	88.1	96.5	109.1	92.3	79.7	58.7	46.2	29.4	12.6	4.2	0.0
85°	20.9	20.9	25.1	29.4	37.8	42.0	33.6	20.9	12.6	4.2	0.0
87.5°	8.4	8.4	8.4	8.4	8.4	4.2	4.2	4.2	4.2	0.0	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)