

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: P533809

Luminaire Tested: **GALN-SA9B-730-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533809  
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-SA9B-730-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 800mA 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: 28571 lumens  
Efficiency: N/A  
Efficacy: 78.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

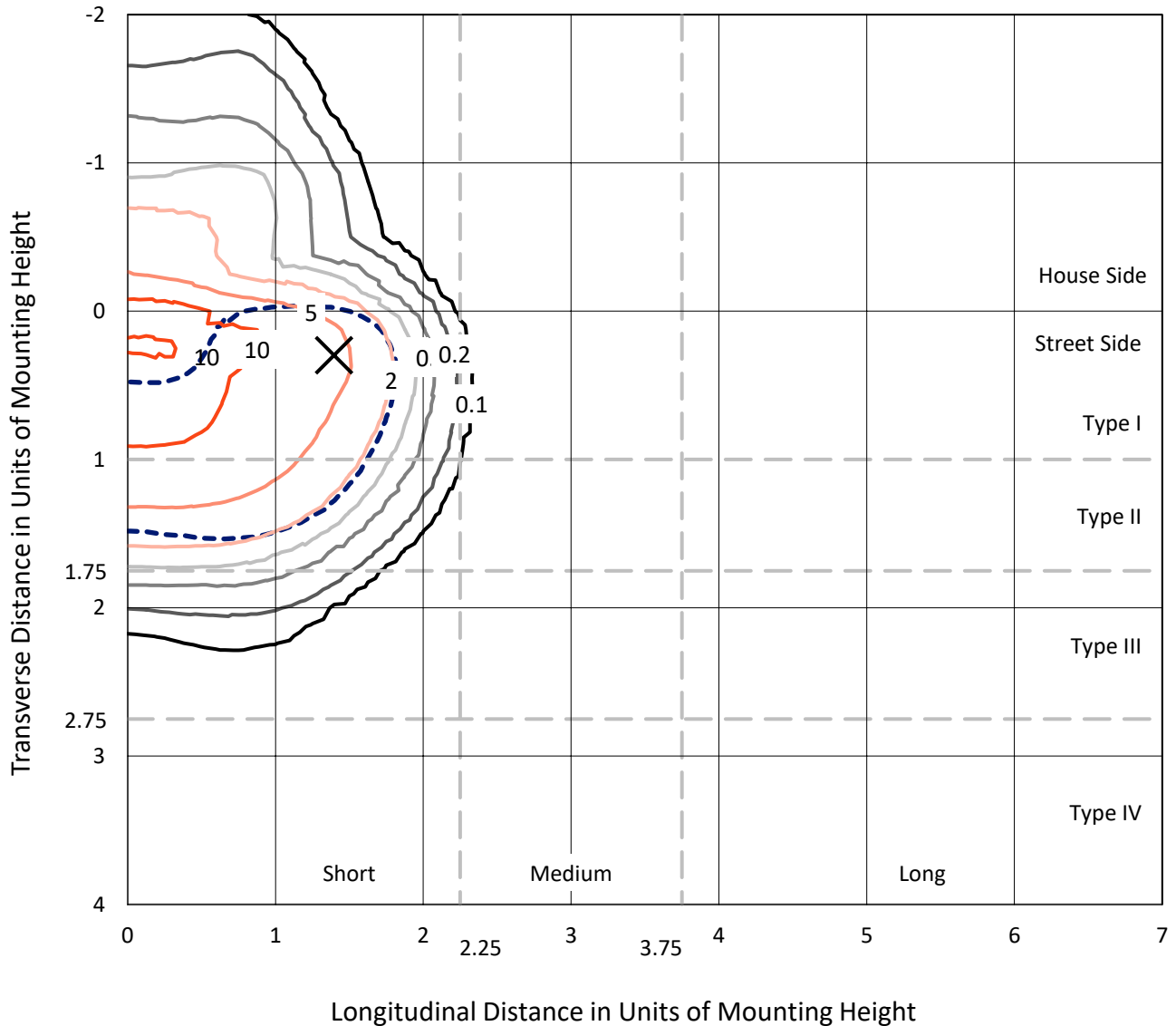
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

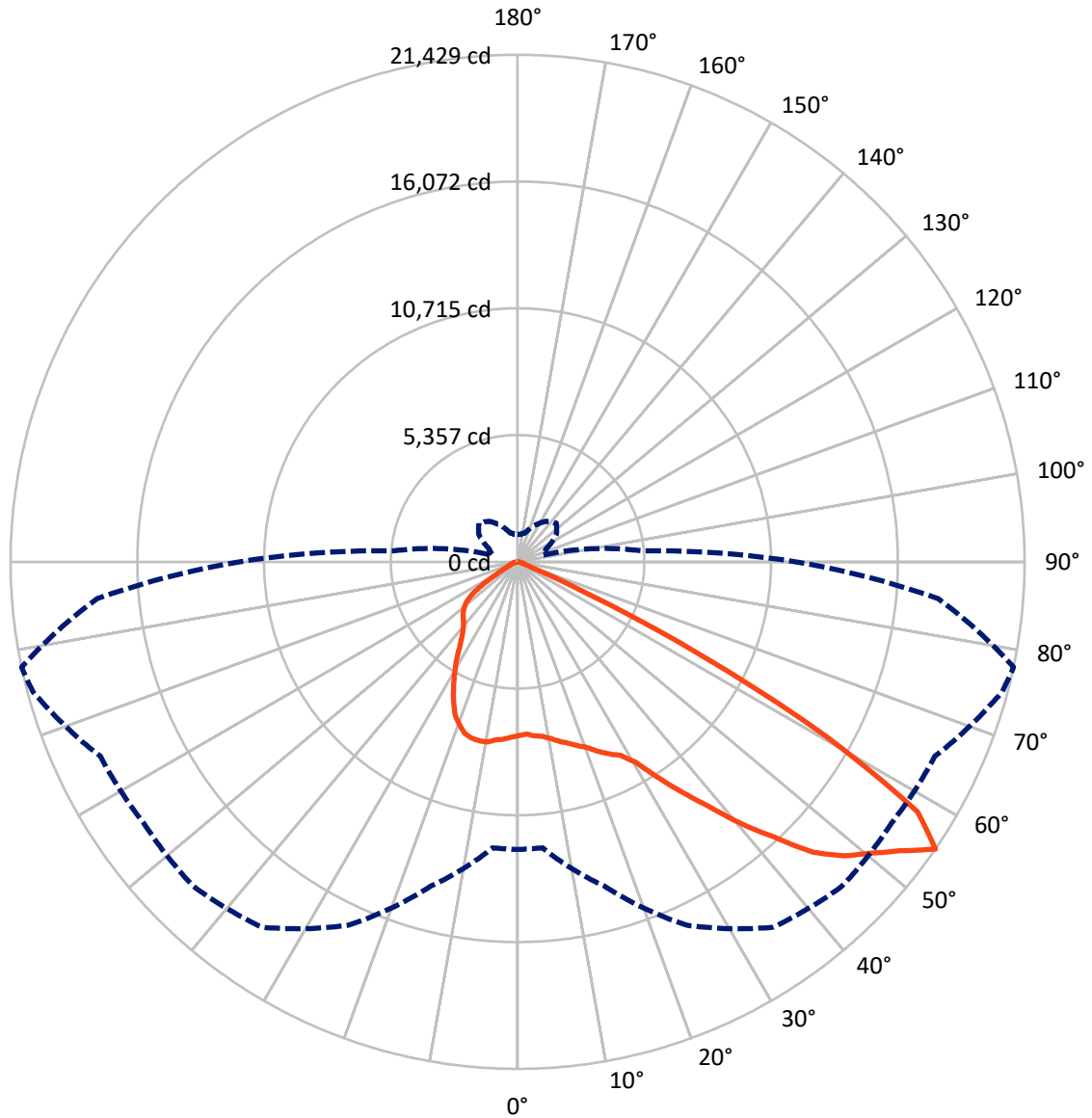
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 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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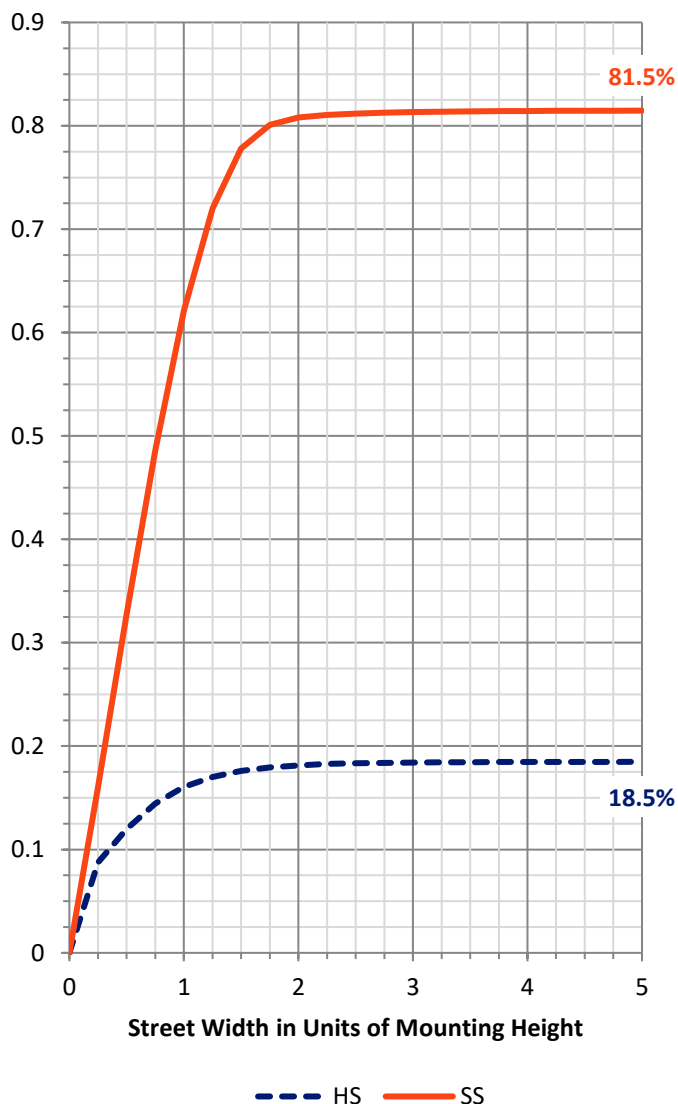
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5306.8	0.0	5306.8
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	23264.2	0.0	23264.2
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	28571.0	0.0	28571.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	655.0	2.3
10°-20°	1733.4	6.1
20°-30°	3038.4	10.6
30°-40°	5010.0	17.5
40°-50°	7290.2	25.5
50°-60°	8260.5	28.9
60°-70°	2361.8	8.3
70°-80°	183.4	0.6
80°-90°	38.1	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°	28571.0	100.0
0°-180°	28571.0	100.0

**Coefficient of Utilization**



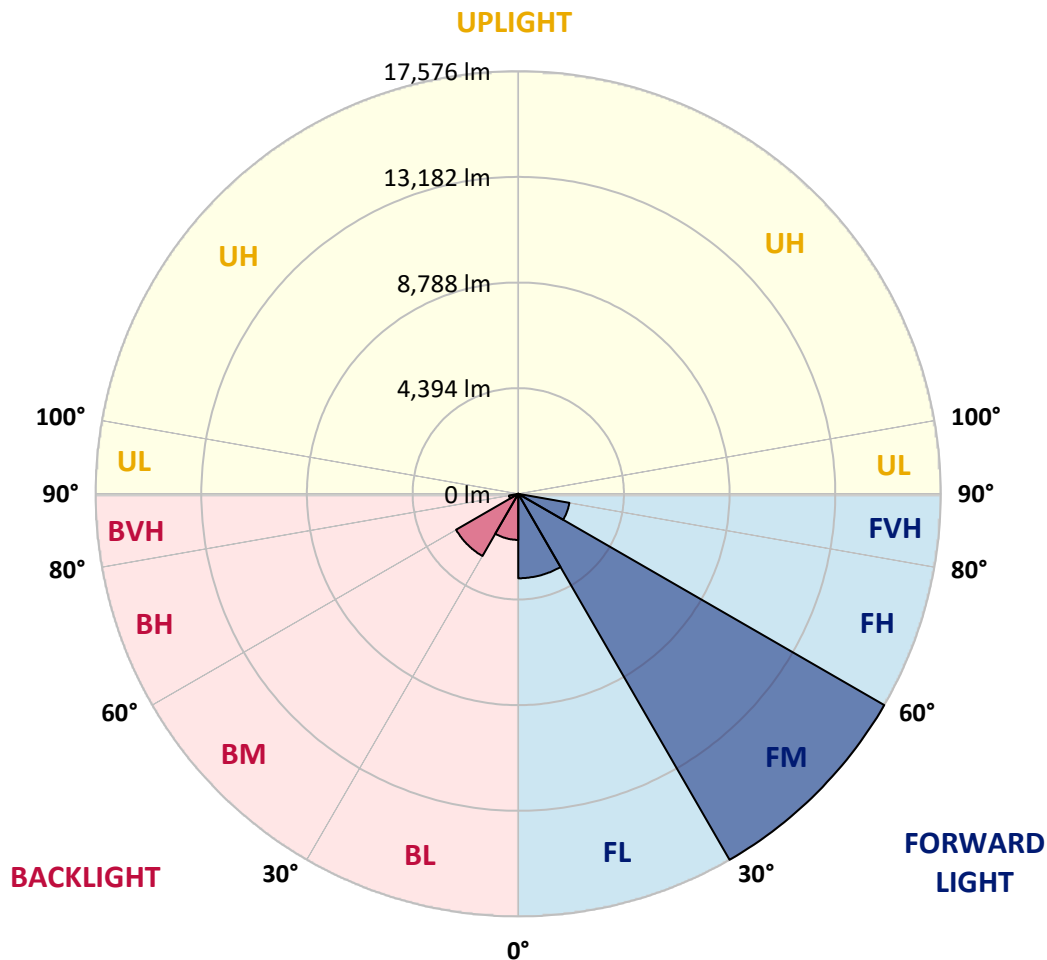
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3512.2	12.3			
FM (30°-60°)	17575.6	61.5			
FH (60°-80°)	2157.9	7.6			G2/5000
FVH (80°-90°)	18.6	0.1			G1/100
BL (0°-30°)	1914.7	6.7	B3/2500		
BM (30°-60°)	2985.1	10.4	B3/5000		
BH (60°-80°)	387.4	1.4	B1/500		G1/500
BVH (80°-90°)	19.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	7345.6	7345.6	7345.6	7345.6	7345.6	7345.6	7345.6	7345.6	7345.6	7345.6	7345.6
2.5°	6906.3	6972.7	6982.9	7064.7	7059.6	7197.5	7238.3	7243.5	7335.4	7289.4	7406.9
5°	6712.2	6676.4	6661.1	6804.1	6845.0	6967.6	7069.8	7131.1	7320.1	7386.5	7509.1
7.5°	6538.5	6538.5	6548.7	6676.4	6661.1	6819.5	6926.7	7115.8	7391.6	7447.8	7595.9
10°	6370.0	6308.7	6385.3	6518.1	6630.5	6702.0	6926.7	7105.5	7427.4	7590.8	7795.1
12.5°	6283.1	6313.8	6324.0	6421.0	6543.6	6758.2	6880.8	7177.0	7682.8	7779.8	7999.5
15°	6829.7	6768.4	6620.3	6533.4	6635.6	6737.7	7044.2	7345.6	7815.6	7953.5	8198.7
17.5°	7463.1	7412.0	7289.4	7054.5	6824.6	7013.6	7253.7	7529.5	7958.6	8162.9	8525.6
20°	8290.6	8208.9	8086.3	7626.6	7427.4	7223.0	7478.4	7805.4	8193.6	8377.5	8750.4
22.5°	9276.5	9276.5	9000.7	8443.9	8030.1	7836.0	7943.3	8132.3	8454.1	8704.4	9072.2
25°	10303.3	10272.6	10022.3	9445.1	8745.3	8515.4	8638.0	8770.8	8857.7	8995.6	9240.8
27.5°	11478.2	11299.4	10982.7	10344.1	9726.1	9281.6	9414.5	9297.0	9189.7	9261.2	9613.7
30°	12275.1	12387.4	11983.9	11370.9	10788.6	10293.1	10318.6	10216.4	9726.1	9828.2	10037.7
32.5°	13102.6	13174.1	12949.3	12612.2	12029.9	11452.6	11243.2	11156.4	10788.6	10834.5	10630.2
35°	13792.2	13930.1	13730.9	13582.8	13414.2	12949.3	12372.1	12653.1	12060.5	11948.1	11416.9
37.5°	14425.6	14384.7	14619.7	14466.5	14430.7	14103.8	13470.4	13526.6	13128.1	13102.6	12489.6
40°	14992.6	15002.8	15324.7	15396.2	15253.1	14670.8	13751.3	14195.7	14517.6	14548.2	13761.5
42.5°	15462.6	15600.5	15876.3	16453.6	16239.0	15268.5	14042.5	14527.8	15723.1	15912.1	14967.1
45°	15871.2	16152.2	16494.4	17010.4	16887.8	16116.4	14767.9	15212.3	17010.4	17505.9	16101.1
47.5°	15896.8	16264.6	16637.5	17403.7	17557.0	16571.1	15518.8	16295.2	18032.0	18568.4	16928.6
50°	15794.6	15988.7	16734.5	17567.2	17914.5	17311.8	16571.1	17204.5	19023.0	19360.2	17347.5
52.5°	14584.0	14732.1	16228.8	17720.4	18558.2	18149.5	17965.6	18471.3	20034.4	20284.7	17740.8
55°	12157.6	12132.0	14190.6	16949.1	18854.4	19390.8	19278.4	19457.2	21204.2	21429.0	17837.9
57.5°	8316.2	8781.0	10558.7	14114.0	17041.0	19099.6	19217.1	18920.8	19840.3	19927.2	15549.4
60°	4485.0	4679.1	6109.4	9419.6	12974.9	15564.7	15871.2	15334.9	15263.4	15018.2	11100.2
62.5°	1782.8	1879.8	2692.0	4663.8	7069.8	9460.4	10119.4	9899.7	9429.8	8786.1	5746.7
65°	848.0	909.3	1338.4	2181.2	3136.4	3943.5	4602.5	4806.8	3545.1	3192.6	1895.1
67.5°	577.2	623.2	975.7	1246.4	1118.7	1169.8	1522.2	1415.0	832.6	710.0	526.1
70°	439.3	470.0	781.6	848.0	500.6	352.5	393.3	367.8	342.3	347.4	342.3
72.5°	311.6	337.1	572.1	500.6	219.7	163.5	209.4	250.3	250.3	250.3	245.2
75°	189.0	214.5	332.0	194.1	86.8	86.8	132.8	168.6	178.8	183.9	173.7
77.5°	97.1	122.6	112.4	56.2	56.2	66.4	97.1	117.5	127.7	127.7	122.6
80°	20.4	20.4	20.4	30.6	56.2	71.5	97.1	107.3	122.6	122.6	112.4
82.5°	0.0	5.1	15.3	30.6	51.1	66.4	91.9	107.3	122.6	127.7	117.5
85°	0.0	5.1	10.2	20.4	35.8	40.9	35.8	30.6	30.6	30.6	30.6
87.5°	0.0	0.0	5.1	5.1	5.1	10.2	10.2	10.2	10.2	10.2	10.2
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°	7345.6	7345.6	7345.6	7345.6	7345.6	7345.6	7345.6	7345.6	7345.6	7345.6	7345.6
2.5°	7417.1	7432.5	7406.9	7401.8	7381.4	7442.7	7294.5	7258.8	7350.7	7263.9	7284.3
5°	7514.2	7549.9	7504.0	7427.4	7315.0	7141.3	6993.2	6799.0	6707.1	6640.7	6630.5
7.5°	7585.7	7611.2	7565.3	7320.1	6982.9	6543.6	6216.7	5976.6	5787.6	5731.4	5639.5
10°	7876.9	7882.0	7652.1	7110.6	6451.7	5874.5	5373.8	5006.1	4817.1	4699.6	4648.5
12.5°	8071.0	8060.8	7595.9	6696.9	5818.3	5052.0	4479.9	4035.5	3861.8	3805.6	3769.9
15°	8316.2	8260.0	7463.1	6272.9	5000.9	4173.4	3657.5	3351.0	3335.7	3299.9	3335.7
17.5°	8510.3	8351.9	7269.0	5501.6	4219.4	3437.8	3100.7	3121.1	3162.0	3197.7	3202.9
20°	8827.0	8500.1	6824.6	4827.3	3494.0	2947.4	2942.3	3034.3	3136.4	3177.3	3218.2
22.5°	9067.1	8561.4	6349.5	4107.0	2901.5	2748.2	2835.1	2973.0	3049.6	3090.5	3151.8
25°	9153.9	8392.8	5716.1	3386.8	2615.4	2656.3	2789.1	2881.0	2978.1	3024.1	2998.5
27.5°	9240.8	8306.0	4960.1	2789.1	2462.2	2595.0	2707.4	2799.3	2830.0	2891.3	2932.1
30°	9450.2	8004.6	4280.7	2411.1	2385.5	2554.1	2635.8	2666.5	2748.2	2784.0	2784.0
32.5°	9618.8	7887.1	3560.4	2232.3	2375.3	2574.5	2584.8	2584.8	2595.0	2569.4	2559.2
35°	9966.1	7483.5	2916.8	2125.0	2370.2	2579.7	2605.2	2518.4	2283.4	2191.4	2165.9
37.5°	10395.2	7223.0	2441.7	2099.5	2406.0	2640.9	2681.8	2354.9	2048.4	1900.3	1874.7
40°	10916.3	7039.1	2130.1	2089.3	2487.7	2784.0	2661.4	2227.2	1828.7	1614.2	1604.0
42.5°	11524.1	6870.6	1920.7	2084.2	2589.9	2932.1	2640.9	2119.9	1604.0	1461.0	1481.4
45°	12009.4	6778.6	1777.7	2048.4	2625.6	3019.0	2656.3	1930.9	1512.0	1420.1	1430.3
47.5°	12387.4	6584.5	1660.2	1987.1	2620.5	3049.6	2518.4	1854.3	1466.1	1491.6	1517.1
50°	12397.7	6324.0	1512.0	1854.3	2543.9	2993.4	2360.0	1782.8	1455.8	1563.1	1614.2
52.5°	12259.7	5956.2	1353.7	1665.3	2365.1	2799.3	2217.0	1752.1	1409.9	1399.7	1461.0
55°	11769.3	5266.6	1088.1	1348.6	1997.3	2308.9	2089.3	1695.9	1271.9	1154.5	1164.7
57.5°	9511.5	3775.0	802.0	965.5	1415.0	1690.8	1884.9	1670.4	1144.2	980.8	985.9
60°	5889.8	2140.3	587.4	659.0	873.5	1026.8	1527.4	1552.9	1021.6	827.5	817.3
62.5°	3024.1	1057.4	454.6	464.8	536.4	602.8	1047.2	1302.6	924.6	786.7	786.7
65°	1011.4	521.0	398.4	357.6	357.6	372.9	633.4	904.2	781.6	659.0	659.0
67.5°	434.2	388.2	347.4	311.6	286.1	270.7	357.6	526.1	582.3	500.6	480.2
70°	337.1	326.9	301.4	260.5	224.8	204.3	209.4	270.7	332.0	321.8	311.6
72.5°	250.3	250.3	240.1	204.3	173.7	148.1	137.9	143.0	158.4	163.5	168.6
75°	173.7	178.8	178.8	158.4	127.7	107.3	91.9	76.6	61.3	51.1	46.0
77.5°	117.5	122.6	132.8	117.5	97.1	71.5	56.2	40.9	25.5	10.2	10.2
80°	102.2	117.5	127.7	117.5	102.2	76.6	56.2	30.6	15.3	0.0	0.0
82.5°	107.3	117.5	132.8	112.4	97.1	71.5	56.2	35.8	15.3	5.1	0.0
85°	25.5	25.5	30.6	35.8	46.0	51.1	40.9	25.5	15.3	5.1	0.0
87.5°	10.2	10.2	10.2	10.2	10.2	5.1	5.1	5.1	5.1	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)