

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: P528193

Luminaire Tested: **GALN-SA3B-730-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528193  
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-SA3B-730-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 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: 9408 lumens  
Efficiency: N/A  
Efficacy: 77.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

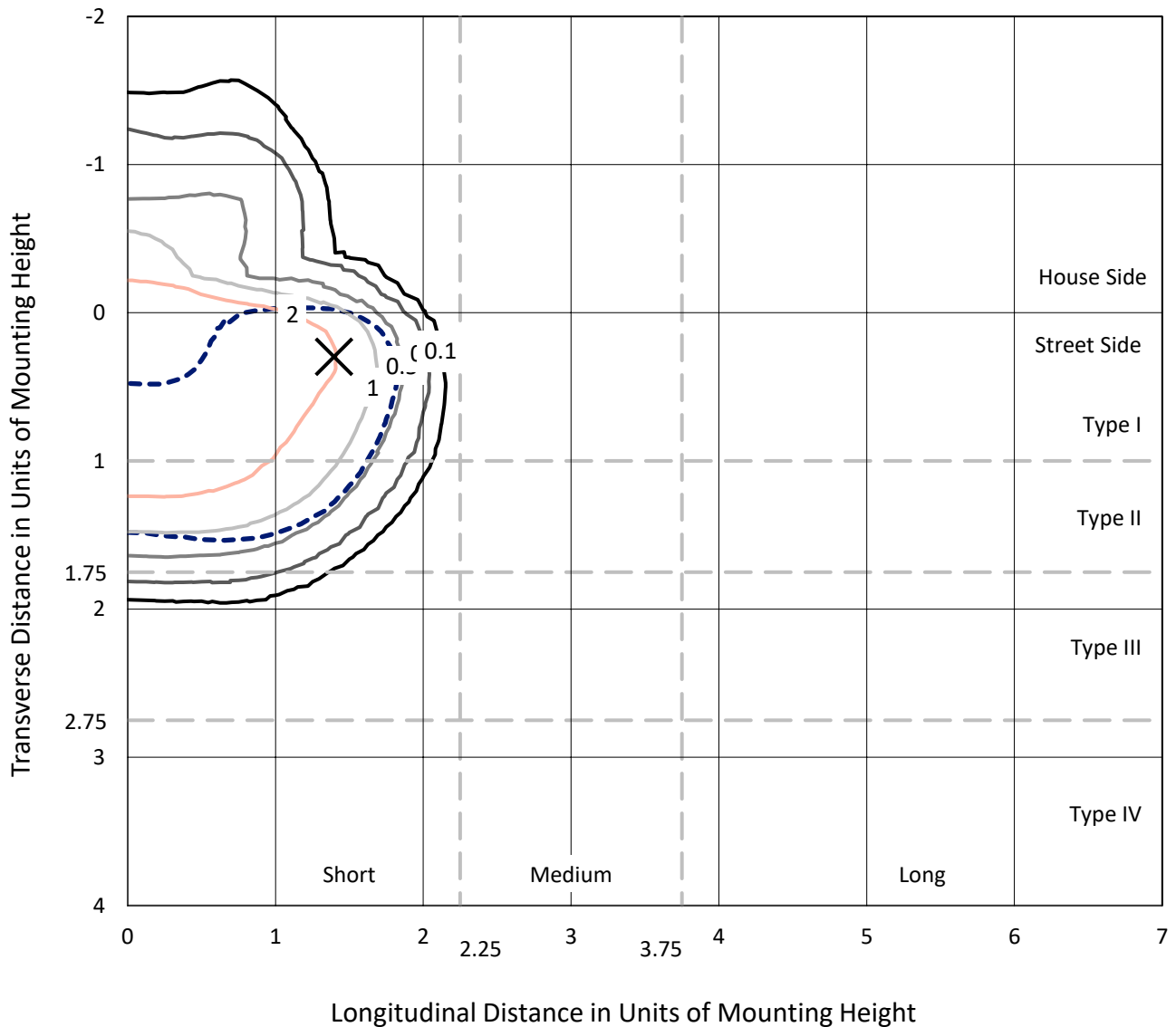
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

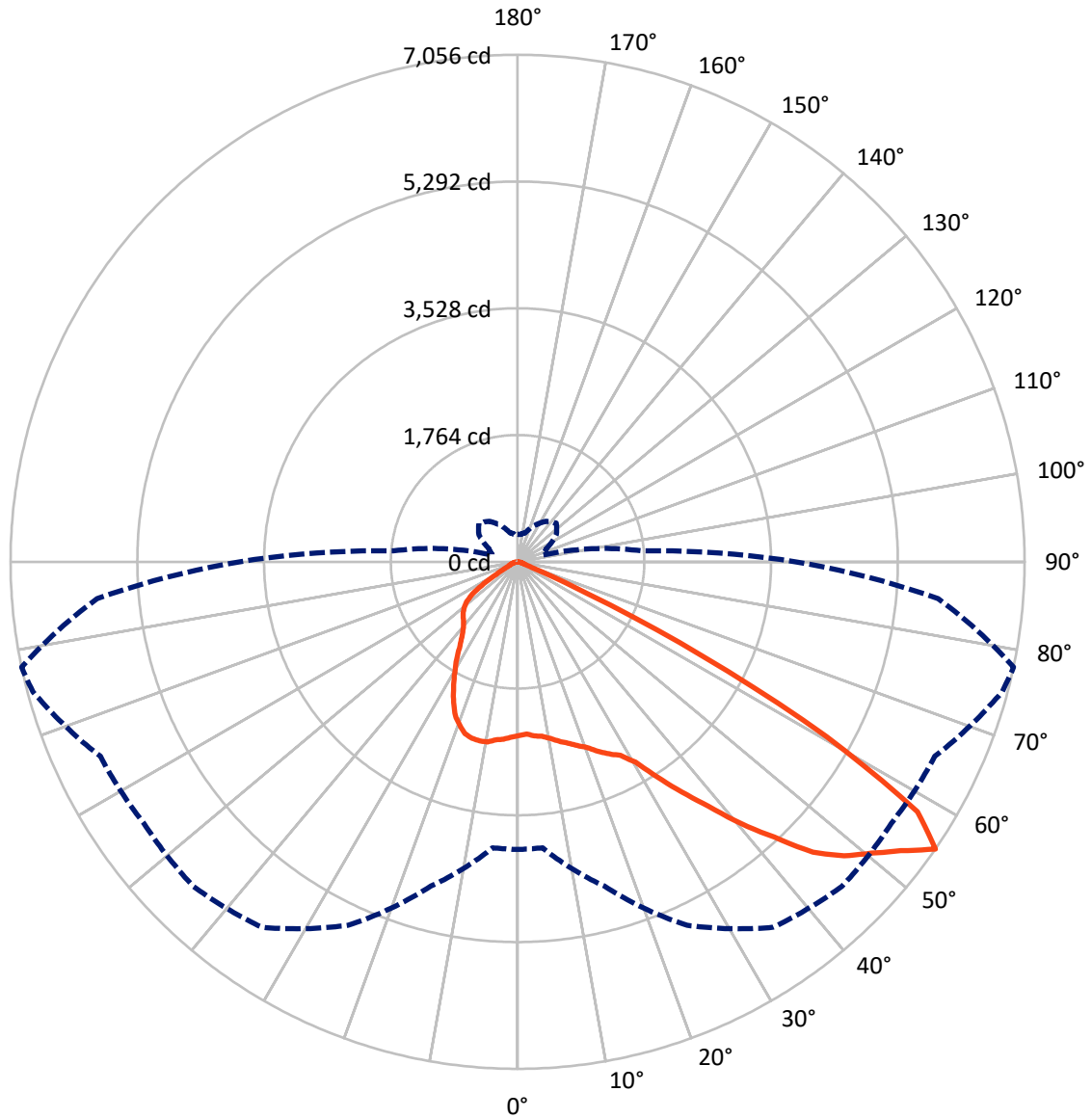
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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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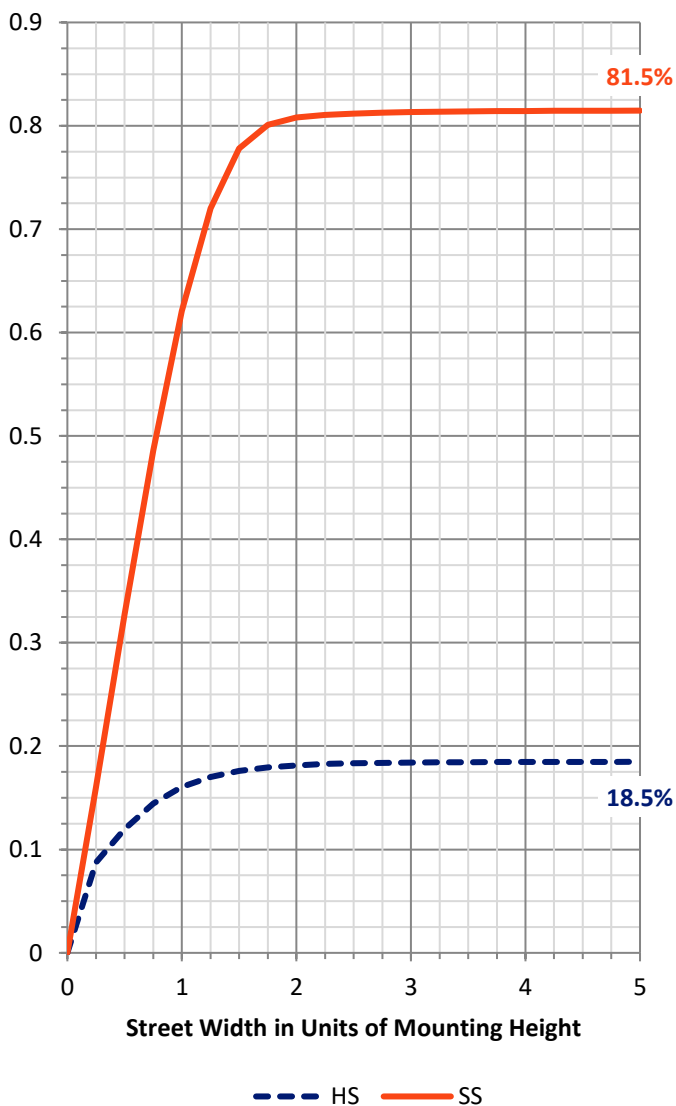
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1747.4	0.0	1747.4
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	7660.6	0.0	7660.6
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	9408.0	0.0	9408.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	215.7	2.3
10°-20°	570.8	6.1
20°-30°	1000.5	10.6
30°-40°	1649.7	17.5
40°-50°	2400.6	25.5
50°-60°	2720.1	28.9
60°-70°	777.7	8.3
70°-80°	60.4	0.6
80°-90°	12.6	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°	9408.0	100.0
0°-180°	9408.0	100.0

**Coefficient of Utilization**

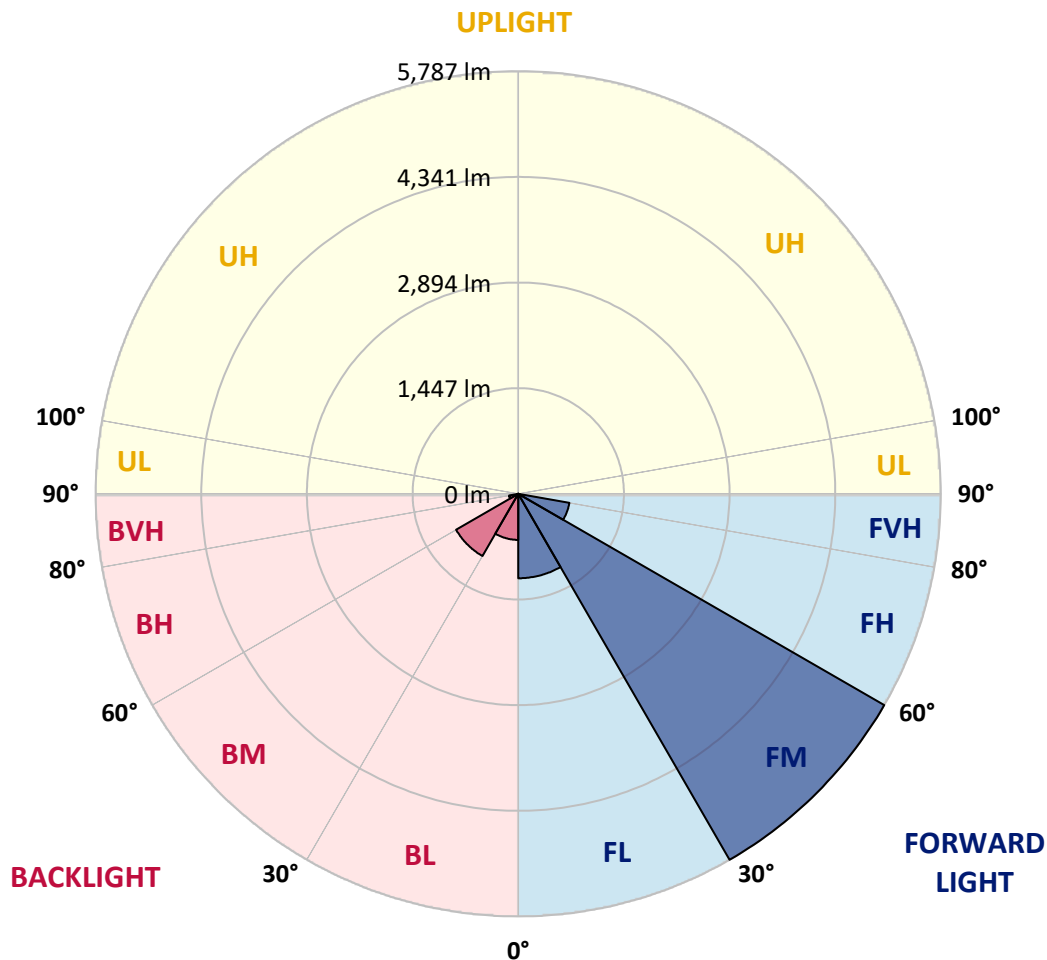


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1156.5	12.3			
FM (30°-60°)	5787.4	61.5			
FH (60°-80°)	710.5	7.6			G1/1800
FVH (80°-90°)	6.1	0.1			G0/10
BL (0°-30°)	630.5	6.7	B2/1000		
BM (30°-60°)	983.0	10.4	B1/1000		
BH (60°-80°)	127.6	1.4	B1/500		G1/500
BVH (80°-90°)	6.4	0.1			G0/10
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°	78°	85°
0°	2418.8	2418.8	2418.8	2418.8	2418.8	2418.8	2418.8	2418.8	2418.8	2418.8	2418.8
2.5°	2274.1	2296.0	2299.4	2326.3	2324.6	2370.0	2383.5	2385.2	2415.4	2400.3	2439.0
5°	2210.2	2198.5	2193.4	2240.5	2254.0	2294.3	2328.0	2348.2	2410.4	2432.3	2472.6
7.5°	2153.0	2153.0	2156.4	2198.5	2193.4	2245.6	2280.9	2343.1	2433.9	2452.4	2501.2
10°	2097.5	2077.3	2102.6	2146.3	2183.3	2206.9	2280.9	2339.7	2445.7	2499.5	2566.8
12.5°	2068.9	2079.0	2082.4	2114.3	2154.7	2225.4	2265.7	2363.3	2529.8	2561.8	2634.1
15°	2248.9	2228.7	2179.9	2151.4	2185.0	2218.6	2319.6	2418.8	2573.6	2619.0	2699.7
17.5°	2457.5	2440.7	2400.3	2322.9	2247.2	2309.5	2388.5	2479.4	2620.6	2687.9	2807.4
20°	2730.0	2703.1	2662.7	2511.3	2445.7	2378.4	2462.5	2570.2	2698.0	2758.6	2881.4
22.5°	3054.6	3054.6	2963.8	2780.4	2644.2	2580.3	2615.6	2677.8	2783.8	2866.2	2987.3
25°	3392.7	3382.6	3300.2	3110.1	2879.7	2804.0	2844.4	2888.1	2916.7	2962.1	3042.8
27.5°	3779.6	3720.7	3616.4	3406.2	3202.6	3056.3	3100.0	3061.3	3026.0	3049.6	3165.6
30°	4042.0	4079.0	3946.1	3744.3	3552.5	3389.4	3397.8	3364.1	3202.6	3236.3	3305.2
32.5°	4314.5	4338.0	4264.0	4153.0	3961.3	3771.2	3702.2	3673.6	3552.5	3567.6	3500.4
35°	4541.6	4587.0	4521.4	4472.6	4417.1	4264.0	4073.9	4166.5	3971.3	3934.3	3759.4
37.5°	4750.1	4736.7	4814.1	4763.6	4751.8	4644.2	4435.6	4454.1	4322.9	4314.5	4112.6
40°	4936.8	4940.2	5046.2	5069.7	5022.6	4830.9	4528.1	4674.4	4780.4	4790.5	4531.5
42.5°	5091.6	5137.0	5227.8	5417.9	5347.3	5027.7	4624.0	4783.8	5177.4	5239.6	4928.4
45°	5226.2	5318.7	5431.4	5601.3	5560.9	5306.9	4862.8	5009.2	5601.3	5764.4	5301.9
47.5°	5234.6	5355.7	5478.5	5730.8	5781.2	5456.6	5110.1	5365.8	5937.7	6114.3	5574.3
50°	5200.9	5264.8	5510.4	5784.6	5899.0	5700.5	5456.6	5665.2	6264.0	6375.0	5712.3
52.5°	4802.3	4851.1	5343.9	5835.1	6110.9	5976.4	5915.8	6082.3	6597.0	6679.5	5841.8
55°	4003.3	3994.9	4672.8	5581.1	6208.5	6385.1	6348.1	6407.0	6982.2	7056.2	5873.8
57.5°	2738.4	2891.5	3476.8	4647.5	5611.4	6289.2	6327.9	6230.4	6533.1	6561.7	5120.2
60°	1476.8	1540.8	2011.7	3101.7	4272.4	5125.2	5226.2	5049.5	5026.0	4945.3	3655.1
62.5°	587.0	619.0	886.4	1535.7	2328.0	3115.2	3332.2	3259.8	3105.1	2893.1	1892.3
65°	279.2	299.4	440.7	718.2	1032.8	1298.6	1515.5	1582.8	1167.3	1051.3	624.0
67.5°	190.1	205.2	321.3	410.4	368.4	385.2	501.3	465.9	274.2	233.8	173.3
70°	144.7	154.7	257.4	279.2	164.8	116.1	129.5	121.1	112.7	114.4	112.7
72.5°	102.6	111.0	188.4	164.8	72.3	53.8	69.0	82.4	82.4	82.4	80.7
75°	62.2	70.6	109.3	63.9	28.6	28.6	43.7	55.5	58.9	60.6	57.2
77.5°	32.0	40.4	37.0	18.5	18.5	21.9	32.0	38.7	42.1	42.1	40.4
80°	6.7	6.7	6.7	10.1	18.5	23.5	32.0	35.3	40.4	40.4	37.0
82.5°	0.0	1.7	5.0	10.1	16.8	21.9	30.3	35.3	40.4	42.1	38.7
85°	0.0	1.7	3.4	6.7	11.8	13.5	11.8	10.1	10.1	10.1	10.1
87.5°	0.0	0.0	1.7	1.7	1.7	3.4	3.4	3.4	3.4	3.4	3.4
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°	2418.8	2418.8	2418.8	2418.8	2418.8	2418.8	2418.8	2418.8	2418.8	2418.8	2418.8
2.5°	2442.4	2447.4	2439.0	2437.3	2430.6	2450.8	2402.0	2390.2	2420.5	2391.9	2398.6
5°	2474.3	2486.1	2470.9	2445.7	2408.7	2351.5	2302.7	2238.8	2208.5	2186.7	2183.3
7.5°	2497.9	2506.3	2491.1	2410.4	2299.4	2154.7	2047.1	1968.0	1905.8	1887.3	1857.0
10°	2593.7	2595.4	2519.7	2341.4	2124.4	1934.4	1769.5	1648.4	1586.2	1547.5	1530.7
12.5°	2657.7	2654.3	2501.2	2205.2	1915.9	1663.6	1475.2	1328.8	1271.6	1253.1	1241.4
15°	2738.4	2719.9	2457.5	2065.6	1646.7	1374.2	1204.4	1103.4	1098.4	1086.6	1098.4
17.5°	2802.3	2750.2	2393.6	1811.6	1389.4	1132.0	1021.0	1027.7	1041.2	1053.0	1054.7
20°	2906.6	2798.9	2247.2	1589.5	1150.5	970.5	968.9	999.1	1032.8	1046.2	1059.7
22.5°	2985.7	2819.1	2090.8	1352.4	955.4	904.9	933.5	979.0	1004.2	1017.6	1037.8
25°	3014.3	2763.6	1882.2	1115.2	861.2	874.7	918.4	948.7	980.6	995.8	987.4
27.5°	3042.8	2735.0	1633.3	918.4	810.8	854.5	891.5	921.8	931.9	952.0	965.5
30°	3111.8	2635.8	1409.6	793.9	785.5	841.0	867.9	878.0	904.9	916.7	916.7
32.5°	3167.3	2597.1	1172.4	735.1	782.2	847.8	851.1	851.1	854.5	846.1	842.7
35°	3281.7	2464.2	960.5	699.7	780.5	849.4	857.9	829.3	751.9	721.6	713.2
37.5°	3423.0	2378.4	804.0	691.3	792.3	869.6	883.1	775.4	674.5	625.7	617.3
40°	3594.6	2317.9	701.4	688.0	819.2	916.7	876.4	733.4	602.2	531.5	528.2
42.5°	3794.7	2262.4	632.5	686.3	852.8	965.5	869.6	698.1	528.2	481.1	487.8
45°	3954.5	2232.1	585.4	674.5	864.6	994.1	874.7	635.8	497.9	467.6	471.0
47.5°	4079.0	2168.2	546.7	654.3	862.9	1004.2	829.3	610.6	482.8	491.2	499.6
50°	4082.4	2082.4	497.9	610.6	837.7	985.7	777.1	587.0	479.4	514.7	531.5
52.5°	4036.9	1961.3	445.7	548.4	778.8	921.8	730.0	576.9	464.2	460.9	481.1
55°	3875.5	1734.2	358.3	444.1	657.7	760.3	688.0	558.4	418.8	380.1	383.5
57.5°	3132.0	1243.0	264.1	317.9	465.9	556.8	620.7	550.0	376.8	323.0	324.6
60°	1939.4	704.8	193.4	217.0	287.6	338.1	502.9	511.3	336.4	272.5	269.1
62.5°	995.8	348.2	149.7	153.1	176.6	198.5	344.8	428.9	304.5	259.0	259.0
65°	333.0	171.6	131.2	117.7	117.7	122.8	208.6	297.7	257.4	217.0	217.0
67.5°	143.0	127.8	114.4	102.6	94.2	89.1	117.7	173.3	191.8	164.8	158.1
70°	111.0	107.7	99.2	85.8	74.0	67.3	69.0	89.1	109.3	106.0	102.6
72.5°	82.4	82.4	79.1	67.3	57.2	48.8	45.4	47.1	52.1	53.8	55.5
75°	57.2	58.9	58.9	52.1	42.1	35.3	30.3	25.2	20.2	16.8	15.1
77.5°	38.7	40.4	43.7	38.7	32.0	23.5	18.5	13.5	8.4	3.4	3.4
80°	33.6	38.7	42.1	38.7	33.6	25.2	18.5	10.1	5.0	0.0	0.0
82.5°	35.3	38.7	43.7	37.0	32.0	23.5	18.5	11.8	5.0	1.7	0.0
85°	8.4	8.4	10.1	11.8	15.1	16.8	13.5	8.4	5.0	1.7	0.0
87.5°	3.4	3.4	3.4	3.4	3.4	1.7	1.7	1.7	1.7	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)