

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: P651144

Luminaire Tested: **GALN-SA9C-840-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651144  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9C-840-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 54626.3 lumens  
Efficiency: N/A  
Efficacy: 113.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G5

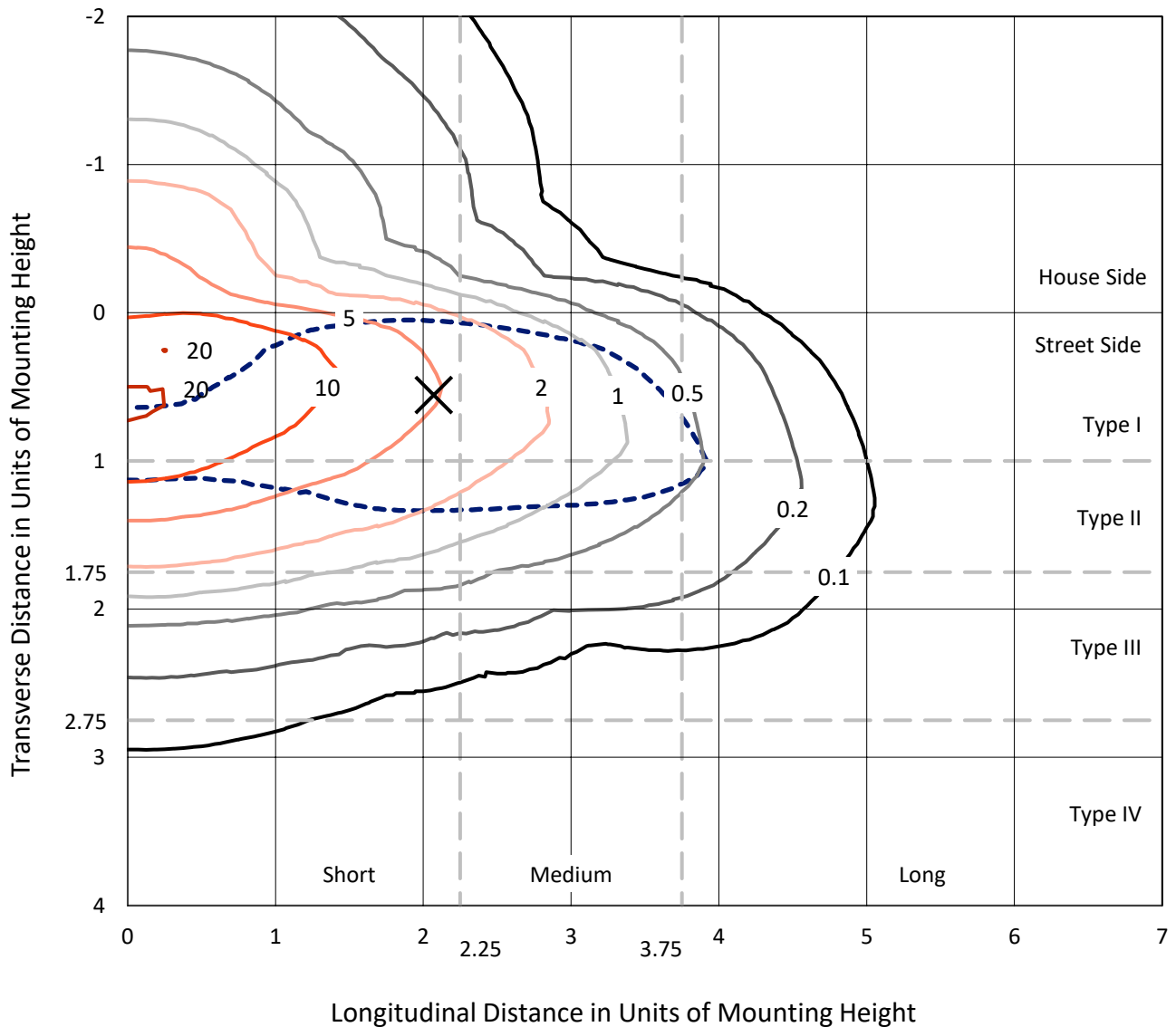
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

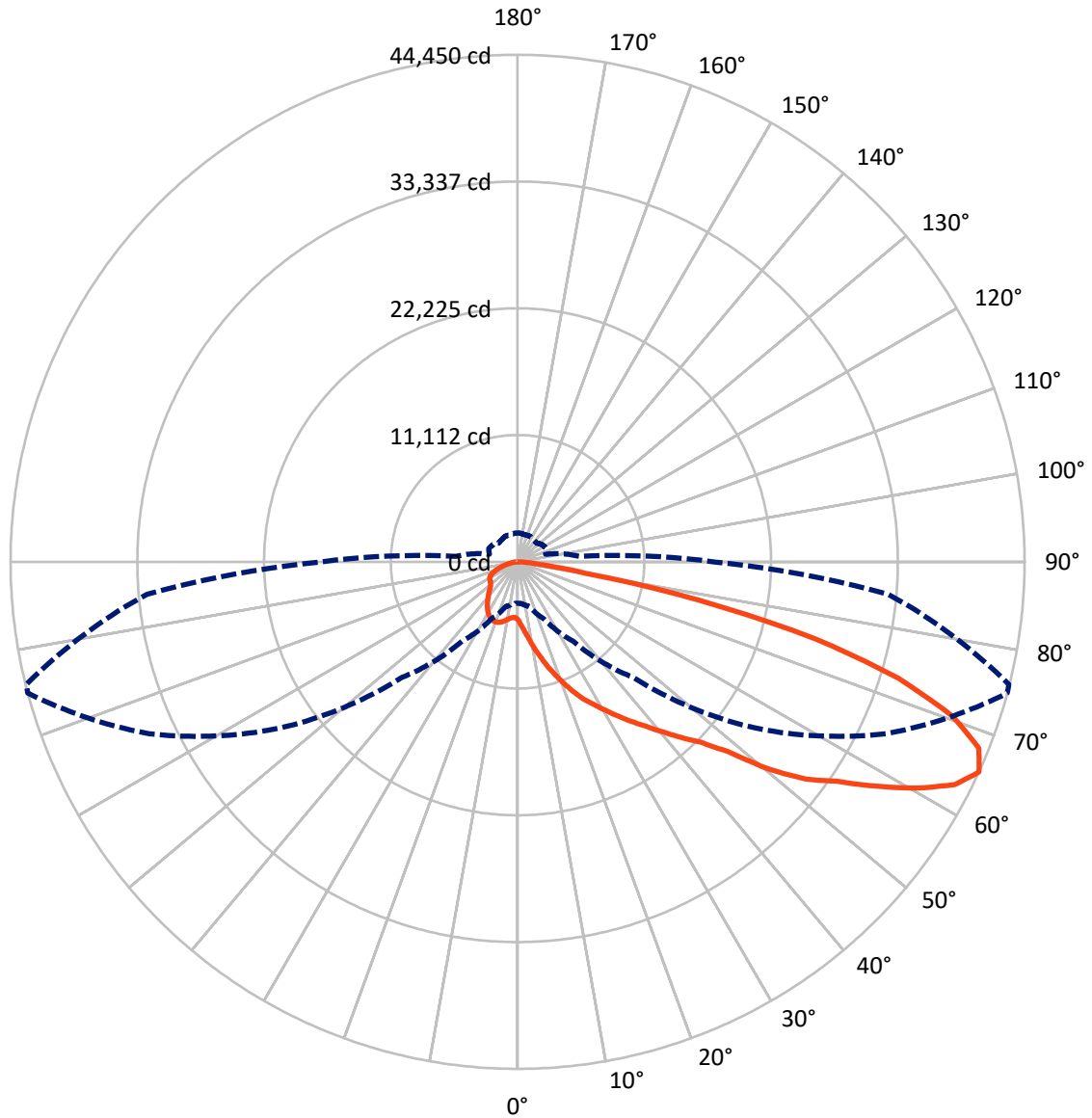
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical



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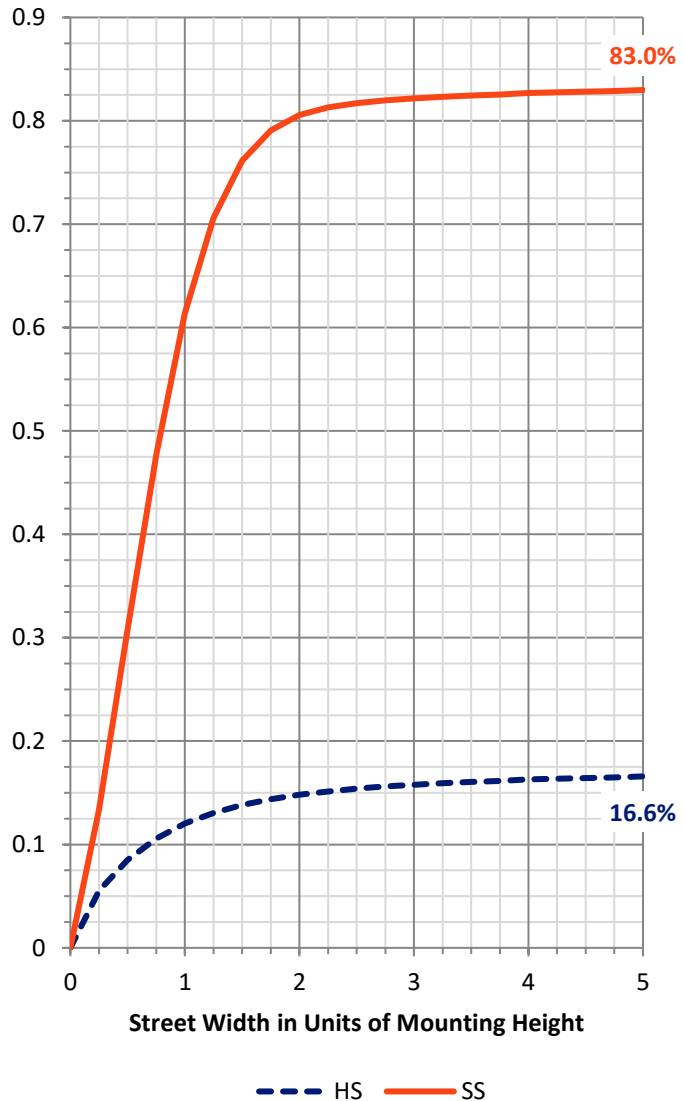
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9183.4	0.0	9183.4
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	45442.9	0.0	45442.9
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	54626.3	0.0	54626.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	616.7	1.1
10°-20°	2415.4	4.4
20°-30°	4665.6	8.5
30°-40°	7578.4	13.9
40°-50°	10424.8	19.1
50°-60°	12308.1	22.5
60°-70°	10784.0	19.7
70°-80°	5148.3	9.4
80°-90°	685.0	1.3
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°	54626.3	100.0
0°-180°	54626.3	100.0

**Coefficient of Utilization**

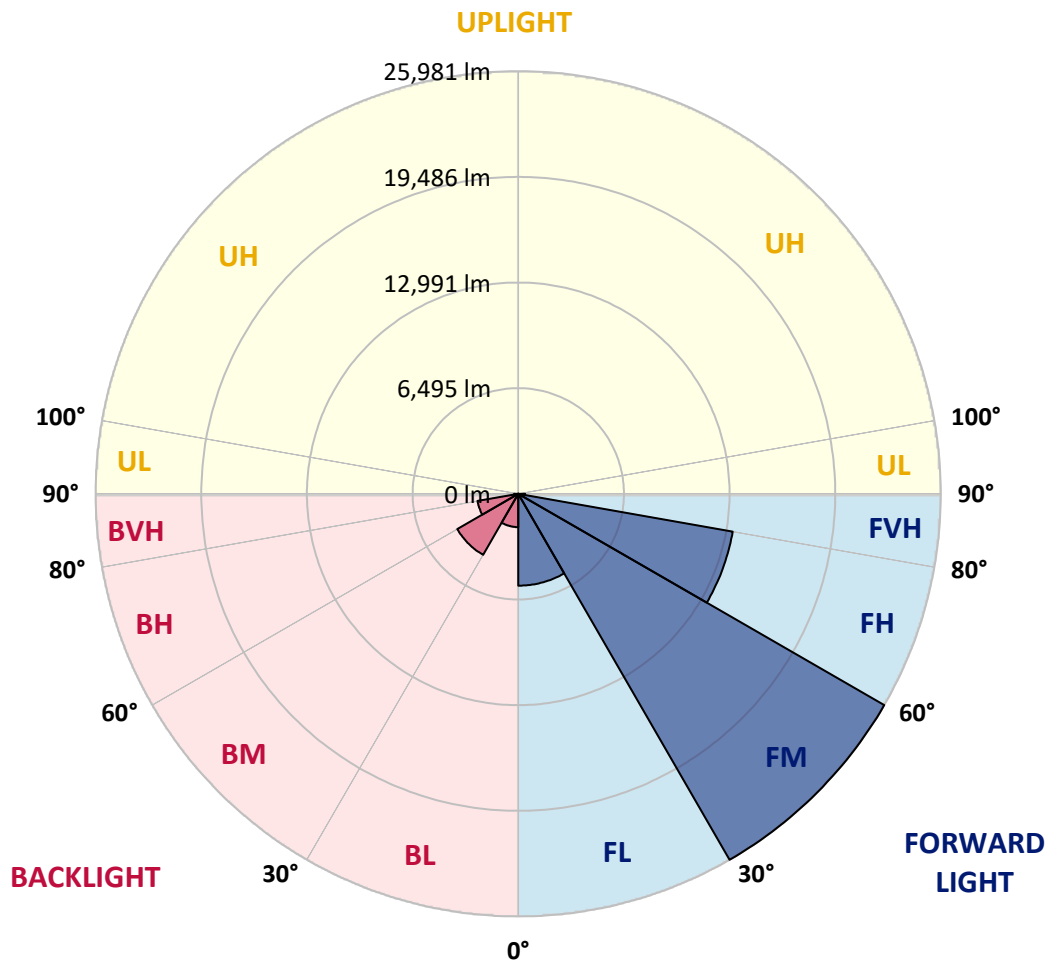


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5647.5	10.3			
FM (30°-60°)	25981.4	47.6			
FH (60°-80°)	13385.9	24.5			G5
FVH (80°-90°)	428.1	0.8			G3/500
BL (0°-30°)	2050.2	3.8	B3/2500		
BM (30°-60°)	4329.9	7.9	B3/5000		
BH (60°-80°)	2546.4	4.7	B4/5000		G4/5000
BVH (80°-90°)	256.9	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5075.4	5075.4	5075.4	5075.4	5075.4	5075.4	5075.4	5075.4	5075.4	5075.4	5075.4
2.5°	6743.6	6699.2	6651.7	6521.4	6382.1	6225.1	5999.9	5783.6	5496.2	5487.4	5274.0
5°	8613.2	8583.6	8373.2	8251.7	7928.8	7499.1	7134.7	6568.8	6044.4	5982.1	5567.3
7.5°	10331.7	10216.1	10136.2	9916.9	9596.9	9045.8	8340.6	7576.1	6699.2	6616.2	5928.8
10°	11626.5	11614.6	11573.2	11383.5	11143.5	10595.4	9813.2	8716.9	7528.8	7365.8	6367.3
12.5°	12595.3	12604.2	12598.3	12595.3	12423.5	11958.3	11111.0	9955.4	8367.3	8251.7	6874.0
15°	13232.4	13321.3	13356.8	13504.9	13519.7	13208.7	12479.8	11152.4	9312.5	9140.6	7419.1
17.5°	13653.1	13697.5	13863.5	14115.3	14319.8	14263.4	13614.6	12260.5	10278.4	9990.9	7985.0
20°	14056.1	14133.1	14260.5	14604.2	14965.7	15131.6	14675.3	13395.4	11235.3	11051.7	8610.2
22.5°	14894.6	15004.2	15048.7	15223.4	15531.6	15824.9	15617.5	14482.7	12284.2	12035.4	9274.0
25°	16313.8	16429.4	16304.9	16263.4	16364.2	16509.3	16464.9	15507.9	13273.8	12918.3	9902.1
27.5°	18162.7	18177.5	17934.5	17703.4	17454.5	17380.4	17244.2	16417.5	14133.1	13836.8	10533.2
30°	20147.8	20076.7	19673.8	19256.0	18835.3	18420.4	18029.4	17294.6	15090.1	14749.4	11152.4
32.5°	21990.7	21952.2	21504.9	20856.0	20144.9	19753.7	18962.7	18180.5	16115.3	15786.4	11789.5
35°	23371.5	23427.7	22935.9	22227.8	21451.5	21104.8	20106.4	19110.8	17176.0	16817.5	12482.8
37.5°	24352.2	24322.6	23887.0	23273.7	22592.2	22290.0	21442.6	20127.1	18316.7	17973.0	13241.3
40°	24701.9	24684.0	24361.1	23913.7	23481.1	23374.4	22841.1	21223.4	19623.4	19220.5	14153.9
42.5°	24479.6	24518.1	24304.8	24183.3	24103.3	24180.3	24230.7	22660.4	21048.5	20678.2	15143.5
45°	23798.1	23777.4	23747.7	23946.3	24396.7	24903.3	25605.5	24017.4	22598.2	22301.9	16470.8
47.5°	22580.3	22728.5	22802.6	23350.7	24334.4	25534.4	27187.7	25836.6	24847.0	24589.2	18494.5
50°	20876.7	20995.2	21433.7	22408.5	23875.1	25771.4	28734.4	28811.4	28598.0	28115.1	20693.0
52.5°	18216.0	18399.7	19303.4	21090.0	22933.0	25673.6	29670.6	31362.5	31644.0	31282.4	22858.9
55°	15238.2	15496.0	16450.1	18793.7	21635.2	25140.3	30316.5	32841.0	33963.9	33629.1	24944.8
57.5°	12322.8	12595.3	13576.1	15845.7	19371.5	23961.1	30740.2	34488.3	37122.3	36686.9	27540.3
60°	9235.4	9519.9	10361.3	12699.0	16147.9	21655.9	30452.9	35916.5	40277.8	40091.2	30138.7
62.5°	5958.4	6272.5	7004.4	8939.2	12411.6	18506.4	28915.1	36704.6	43009.7	42784.5	32035.0
65°	3629.6	3665.2	4068.1	5549.5	8494.7	14328.6	25398.1	35658.7	44449.6	44381.5	32612.8
67.5°	2346.6	2402.9	2586.7	3324.4	5093.3	9952.4	20307.8	32206.9	43608.2	43584.5	31418.8
70°	1982.2	2000.0	2082.9	2242.9	2960.0	6035.4	14260.5	26704.8	40411.2	40411.2	28547.7
72.5°	1771.8	1795.5	1825.1	1875.5	2112.6	3419.2	8509.5	20787.8	34891.3	35122.4	24298.8
75°	1608.8	1602.9	1620.7	1629.6	1801.4	2234.0	4399.9	15374.6	26992.1	26529.9	17596.7
77.5°	1377.7	1386.6	1377.7	1416.2	1591.1	1700.8	2234.0	10316.9	16358.3	15759.8	8832.4
80°	1131.8	1146.6	1161.4	1185.1	1360.0	1291.9	1342.2	4702.1	6050.2	5922.8	2728.9
82.5°	850.3	871.1	894.8	951.1	1069.6	853.3	847.4	2008.9	2183.7	2000.0	1004.4
85°	343.7	406.0	613.3	669.6	672.5	468.1	521.5	838.5	891.8	871.1	394.1
87.5°	80.0	94.8	198.5	299.2	275.5	174.8	192.6	272.6	311.1	287.4	133.3
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°	5075.4	5075.4	5075.4	5075.4	5075.4	5075.4	5075.4	5075.4	5075.4	5075.4	5075.4
2.5°	5176.2	5072.5	4894.7	4758.5	4660.7	4574.7	4521.4	4488.8	4477.0	4474.0	4477.0
5°	5351.0	5167.4	4885.9	4708.1	4610.3	4554.0	4521.4	4518.4	4521.4	4524.4	4515.5
7.5°	5591.1	5327.3	4959.9	4794.0	4719.9	4678.5	4663.6	4657.7	4660.7	4657.7	4657.7
10°	5911.1	5549.5	5105.1	4933.2	4871.1	4823.6	4799.9	4785.1	4773.3	4761.4	4755.5
12.5°	6263.6	5795.5	5262.1	5096.2	5007.3	4933.2	4879.9	4841.4	4814.7	4788.1	4782.2
15°	6657.7	6056.2	5437.0	5205.9	5078.5	4968.8	4877.0	4814.7	4767.3	4728.8	4725.8
17.5°	7034.0	6302.1	5555.5	5256.2	5069.5	4915.5	4794.0	4708.1	4648.8	4598.4	4592.5
20°	7436.9	6536.2	5608.8	5223.6	4980.7	4794.0	4634.0	4530.3	4462.2	4405.8	4397.0
22.5°	7842.8	6734.7	5602.9	5119.9	4826.6	4607.3	4438.5	4328.8	4248.8	4192.6	4171.8
25°	8231.0	6894.7	5528.8	4954.0	4613.2	4385.1	4213.2	4112.5	4041.4	3973.3	3973.3
27.5°	8580.6	6989.6	5389.5	4752.5	4394.0	4154.0	4017.7	3925.9	3860.7	3816.2	3789.5
30°	8924.3	7034.0	5199.9	4497.7	4162.9	3958.4	3848.8	3795.5	3736.2	3685.9	3680.0
32.5°	9232.4	7025.0	4962.9	4248.8	3943.6	3798.5	3754.1	3712.5	3650.3	3579.2	3561.4
35°	9531.7	6965.8	4681.4	3976.2	3759.9	3703.7	3715.5	3656.2	3543.6	3454.7	3439.9
37.5°	9857.6	6859.1	4373.3	3754.1	3605.9	3659.2	3688.8	3558.4	3374.8	3235.5	3202.9
40°	10233.9	6737.7	4053.3	3531.8	3484.3	3617.7	3617.7	3377.7	3125.9	3040.0	3016.2
42.5°	10675.4	6636.9	3786.6	3345.2	3383.7	3517.0	3502.2	3137.7	3034.0	2989.6	2977.7
45°	11374.6	6601.3	3511.1	3182.2	3300.7	3398.5	3277.0	3054.8	2995.5	2960.0	2948.1
47.5°	12479.8	6642.9	3268.1	3060.7	3205.9	3280.0	3025.2	2998.5	2957.0	2906.6	2900.7
50°	13504.9	6604.4	3096.2	2992.5	3122.9	3137.7	2921.5	2930.3	2906.6	2850.3	2838.5
52.5°	14343.5	6482.8	2986.6	2957.0	3051.8	2888.8	2823.7	2856.3	2847.4	2776.2	2764.4
55°	15264.9	6408.8	2933.3	2957.0	3004.4	2672.5	2731.8	2779.3	2767.4	2717.0	2714.0
57.5°	16381.9	6423.6	2894.8	2965.9	2957.0	2562.9	2640.0	2696.2	2693.3	2678.5	2678.5
60°	17525.7	6429.5	2835.5	2962.9	2900.7	2477.0	2545.1	2625.2	2631.1	2640.0	2640.0
62.5°	17904.9	6171.8	2720.0	2909.6	2776.2	2394.1	2456.2	2565.9	2559.9	2583.6	2586.7
65°	17196.8	5457.7	2548.1	2788.1	2616.3	2334.8	2388.1	2488.9	2456.2	2518.5	2530.3
67.5°	15653.1	4515.5	2281.5	2568.8	2438.5	2272.6	2343.7	2382.2	2322.9	2444.4	2447.4
70°	13528.7	3525.9	1943.6	2257.7	2237.0	2207.4	2308.1	2248.8	2165.9	2314.0	2284.4
72.5°	11312.4	2693.3	1552.6	1845.9	1967.4	2109.6	2245.9	2077.0	1961.5	2005.9	1952.5
75°	8497.6	1991.1	1247.4	1445.9	1638.5	1970.4	2189.6	1869.6	1691.8	1650.4	1638.5
77.5°	4331.8	1300.7	933.3	1081.4	1229.6	1780.7	2112.6	1626.7	1401.4	1336.3	1306.7
80°	1546.7	808.9	657.7	746.6	829.6	1531.8	1845.9	1345.2	1087.4	1075.6	1087.4
82.5°	717.0	521.5	441.4	488.9	491.8	1022.2	1407.4	1004.4	826.6	1256.3	1060.8
85°	308.1	260.7	248.9	243.0	225.2	456.3	791.1	539.2	841.5	376.3	346.7
87.5°	91.8	103.7	91.8	68.1	50.4	50.4	80.0	29.6	20.8	14.8	14.8
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)