

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: P648059

Luminaire Tested: **GALN-SA7A-835-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648059
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-835-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20920.2 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

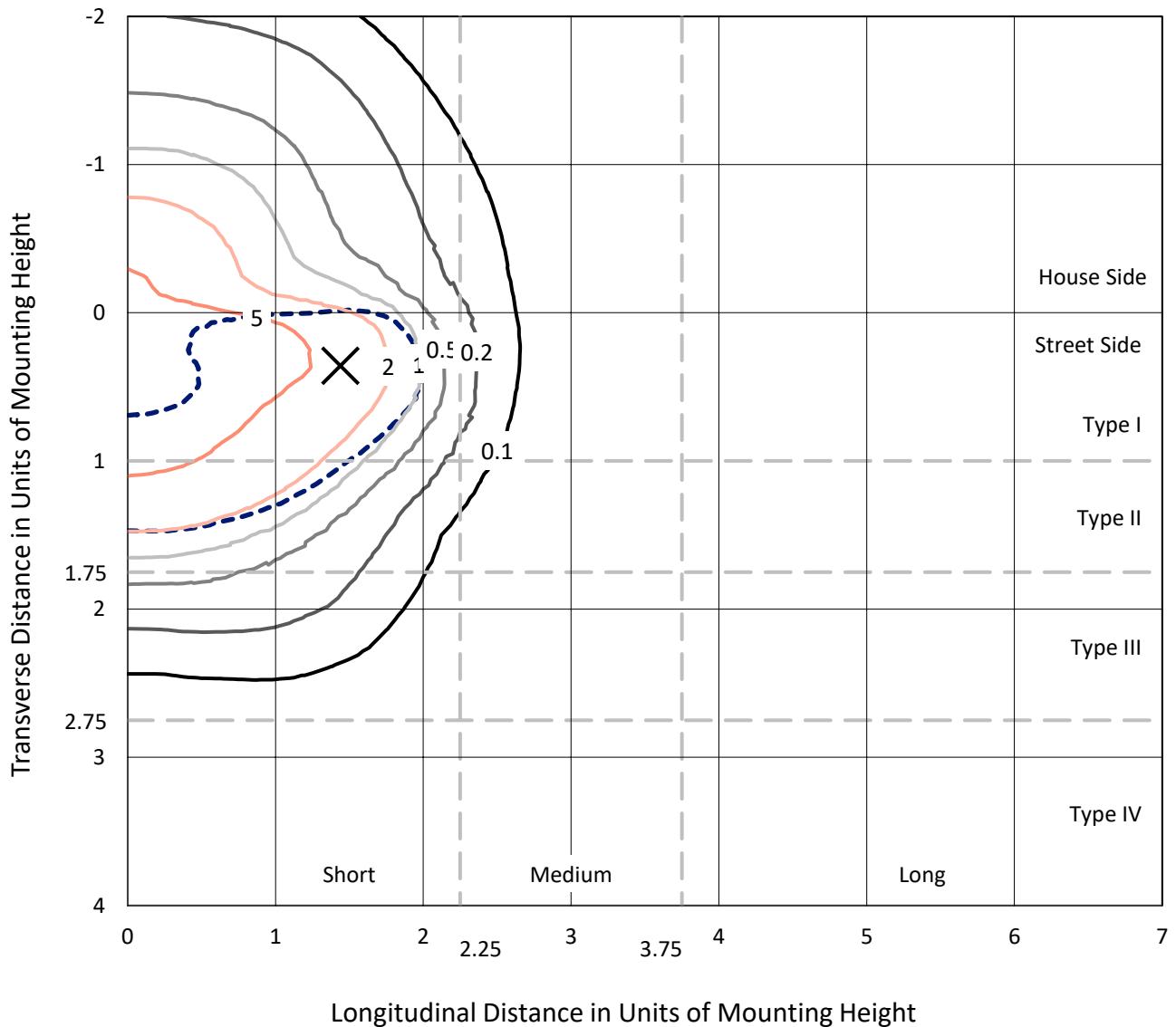
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

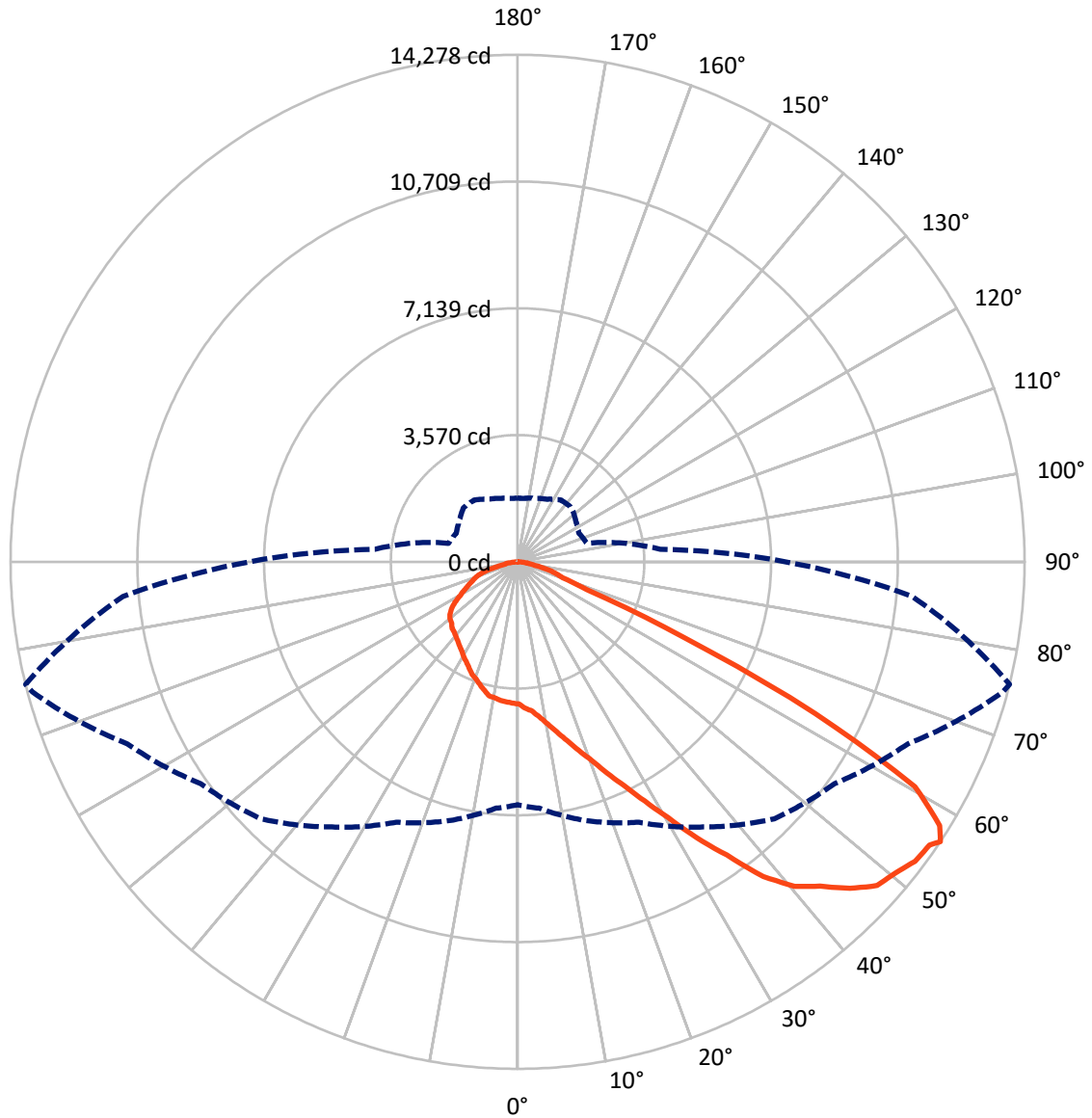
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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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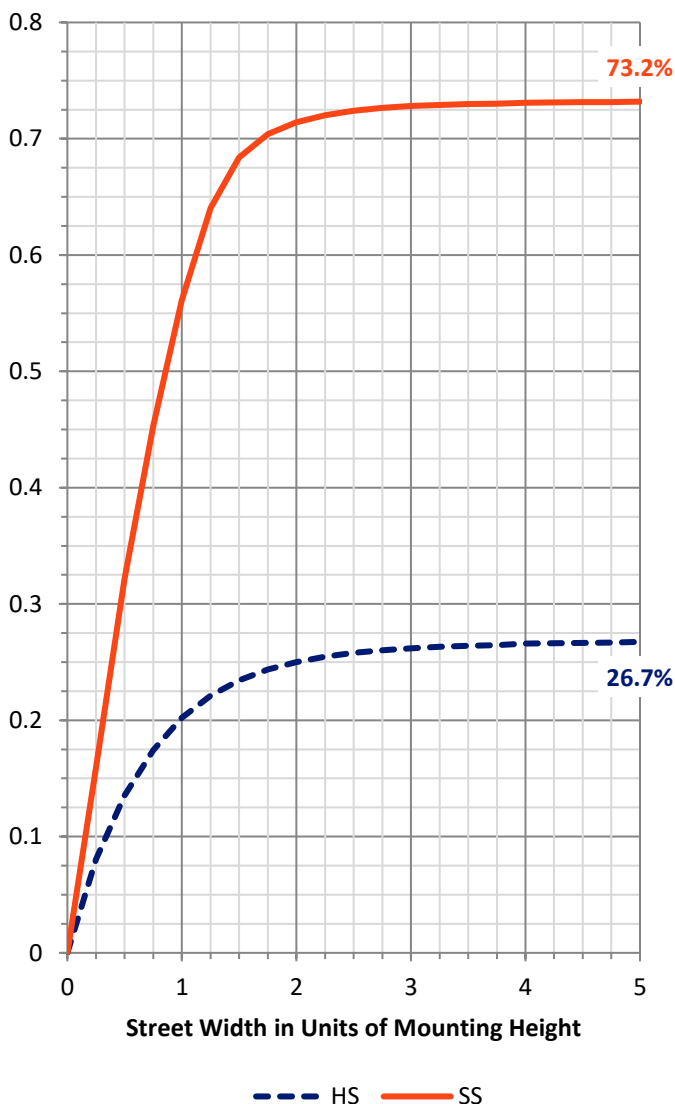
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5624.8	0.0	5624.8
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	15295.4	0.0	15295.4
	% Fixture	73.1	0.0	73.1
Total	Lumens	20920.2	0.0	20920.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	397.0	1.9
10°-20°	1247.0	6.0
20°-30°	2180.8	10.4
30°-40°	3414.5	16.3
40°-50°	4967.1	23.7
50°-60°	5459.2	26.1
60°-70°	2436.7	11.6
70°-80°	703.8	3.4
80°-90°	114.2	0.5
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°	20920.2	100.0
0°-180°	20920.2	100.0

Coefficient of Utilization



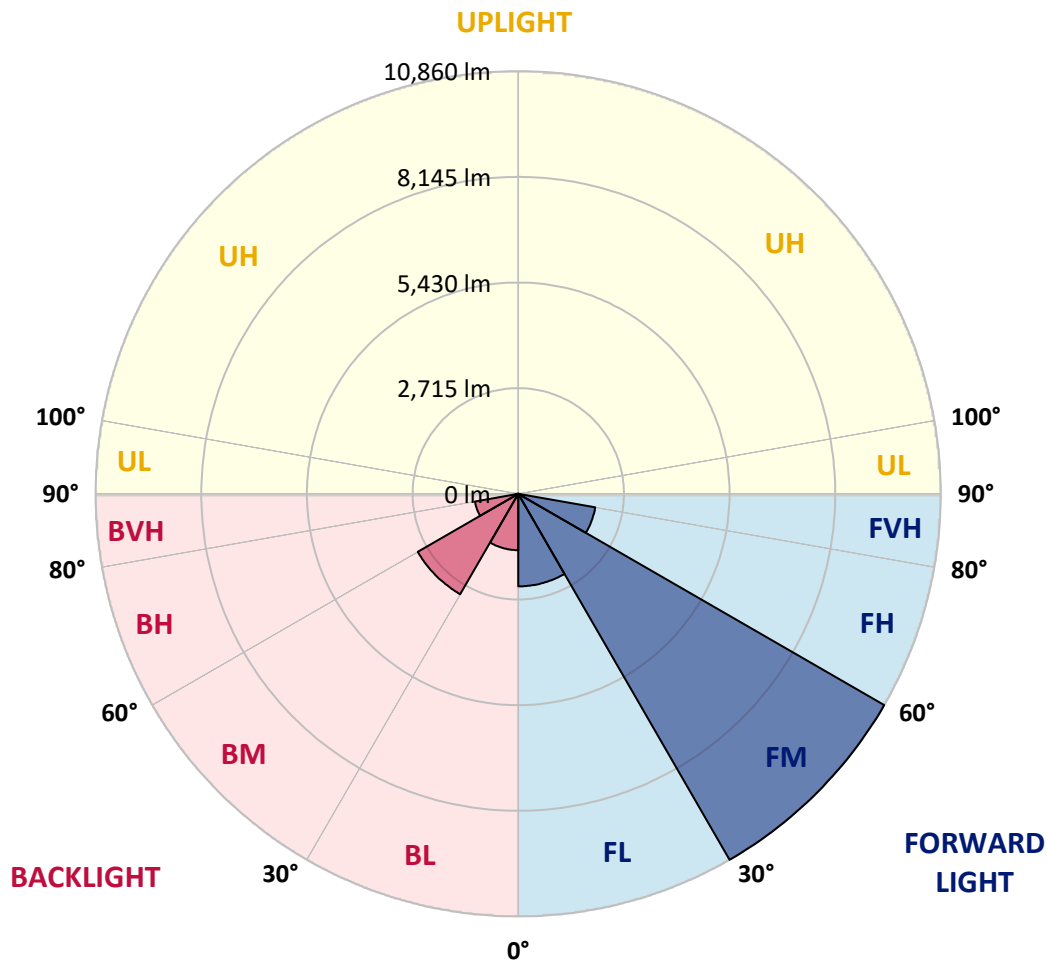
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2377.3	11.4			
FM (30°-60°)	10860.1	51.9			
FH (60°-80°)	2008.8	9.6			G2/5000
FVH (80°-90°)	49.1	0.2			G1/100
BL (0°-30°)	1447.4	6.9	B3/2500		
BM (30°-60°)	2980.7	14.2	B3/5000		
BH (60°-80°)	1131.7	5.4	B3/2500		G3/2500
BVH (80°-90°)	65.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4002.8	4002.8	4002.8	4002.8	4002.8	4002.8	4002.8	4002.8	4002.8	4002.8	4002.8
2.5°	4409.6	4339.1	4333.7	4314.7	4325.5	4276.7	4225.2	4157.4	4086.9	4130.2	4027.2
5°	4718.7	4623.8	4661.8	4596.8	4604.8	4539.8	4434.0	4355.4	4268.6	4217.1	4143.8
7.5°	4827.3	4835.3	4862.5	4851.6	4797.4	4797.4	4726.9	4588.6	4436.7	4406.9	4284.9
10°	4973.7	4976.4	4946.5	4954.7	5030.6	4995.4	4933.0	4873.3	4678.1	4642.8	4425.9
12.5°	5025.2	4976.4	5025.2	5068.6	5158.1	5206.9	5193.3	5149.9	4941.1	4916.8	4599.4
15°	5033.4	5003.5	5044.2	5141.8	5220.5	5426.6	5529.6	5499.8	5223.2	5225.9	4794.7
17.5°	4995.4	5036.0	5052.3	5136.4	5318.1	5510.7	5808.9	5849.6	5621.9	5586.5	5041.5
20°	5046.9	5017.1	5038.8	5114.7	5356.0	5657.1	6047.6	6316.1	5996.1	5971.7	5296.4
22.5°	5244.8	5204.2	5198.8	5247.6	5421.2	5733.0	6299.8	6782.5	6451.7	6465.2	5613.7
25°	5399.5	5421.2	5402.2	5399.5	5507.9	5846.9	6633.4	7338.5	7070.0	6991.3	5987.9
27.5°	5665.2	5716.8	5678.8	5730.3	5705.9	6017.7	6872.0	7954.1	7737.1	7631.4	6327.0
30°	6034.0	6061.2	6025.9	6025.9	5952.7	6256.4	7089.0	8596.8	8507.3	8363.6	6725.6
32.5°	6519.5	6560.1	6489.7	6448.9	6438.1	6611.7	7479.5	9231.4	9383.3	9261.2	7254.4
35°	7162.2	7137.8	7053.7	7015.8	6869.3	7156.8	8059.9	9960.9	10359.6	10142.6	7894.4
37.5°	7729.0	7691.0	7685.6	7474.0	7509.4	7745.3	8553.4	10514.1	11306.1	11243.6	8569.7
40°	8257.8	8293.1	8350.1	8230.7	8176.5	8436.8	9128.4	10937.3	12041.0	12016.5	9090.4
42.5°	8824.6	8792.1	8892.5	8792.1	8710.7	9079.5	9752.1	11230.1	12686.4	12485.7	9635.5
45°	9646.3	9543.3	9578.5	9586.7	9527.0	9662.6	10009.7	11441.7	13139.3	13117.6	10034.1
47.5°	10332.5	10335.2	10275.5	10229.4	10047.7	10183.3	10297.2	11574.5	13660.0	13624.7	10188.7
50°	10587.4	10552.1	10725.7	10826.0	10836.9	10560.2	10522.3	11647.8	13933.9	13779.3	10343.3
52.5°	9670.8	9703.3	9977.2	10573.8	10918.2	10948.1	10785.4	11799.6	14045.1	14012.6	10468.1
55°	7783.3	7940.6	8390.7	9079.5	9895.9	10793.5	11070.1	11956.9	14104.7	14077.6	11021.3
56°	6842.2	6964.2	7550.0	8089.7	9114.8	10232.1	10891.1	12125.1	14150.8	14278.3	11151.5
57.5°	5507.9	5649.0	6069.3	6682.2	7891.7	9163.6	10397.5	11918.9	13971.9	14020.7	11246.4
60°	3444.2	3457.7	3962.1	4366.2	5217.8	6459.8	7935.1	10370.4	12930.5	12860.0	10102.0
62.5°	2259.0	2261.8	2720.1	3051.0	3438.7	3723.5	4670.0	6877.5	9540.5	9415.8	7192.0
65°	1586.5	1621.7	1977.0	2419.1	2576.3	2427.1	2397.3	3625.8	5328.9	5149.9	3864.5
67.5°	1160.7	1163.4	1478.0	1952.6	2180.4	1846.9	1499.7	1770.9	2109.9	2104.5	1789.9
70°	767.5	800.0	1041.4	1459.0	1719.4	1483.4	1225.8	1266.5	1342.4	1342.4	1331.6
72.5°	447.5	477.3	637.3	924.8	965.4	927.5	970.8	1084.8	1133.5	1130.9	1117.3
75°	254.9	268.5	303.7	385.1	480.0	566.8	713.2	821.7	870.5	900.4	865.1
77.5°	149.2	157.3	179.0	219.6	249.5	306.5	387.8	463.8	528.8	520.7	526.1
80°	78.6	78.6	100.4	130.1	173.6	217.0	257.6	301.1	336.3	344.4	352.6
82.5°	46.1	48.8	65.1	94.9	124.7	154.6	197.9	227.8	260.3	263.1	268.5
85°	24.4	27.1	40.7	62.4	84.1	94.9	97.6	92.2	100.4	94.9	108.4
87.5°	8.1	8.1	13.5	10.9	10.9	13.5	16.3	16.3	21.7	21.7	21.7
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°	4002.8	4002.8	4002.8	4002.8	4002.8	4002.8	4002.8	4002.8	4002.8	4002.8	4002.8
2.5°	4024.5	4024.5	3978.4	3891.6	3878.0	3842.8	3810.2	3807.6	3783.1	3761.5	3750.6
5°	4100.4	4016.4	3948.6	3869.9	3777.7	3734.4	3685.5	3631.2	3609.6	3631.2	3628.6
7.5°	4187.2	4116.7	3913.4	3766.9	3661.1	3617.7	3563.5	3506.5	3512.0	3512.0	3474.0
10°	4271.3	4176.4	3851.0	3663.8	3509.2	3476.7	3446.8	3468.5	3495.7	3501.1	3476.7
12.5°	4412.3	4198.1	3821.1	3560.8	3463.1	3392.7	3411.6	3471.3	3528.2	3512.0	3530.9
15°	4518.1	4217.1	3685.5	3455.0	3333.0	3365.5	3433.3	3474.0	3568.9	3558.0	3577.1
17.5°	4621.1	4227.9	3552.6	3314.0	3262.4	3351.9	3403.5	3520.1	3549.9	3615.0	3639.4
20°	4832.7	4249.6	3417.0	3227.2	3210.9	3314.0	3403.5	3457.7	3522.8	3579.7	3579.7
22.5°	4941.1	4238.8	3327.5	3113.3	3164.8	3229.9	3311.3	3403.5	3403.5	3457.7	3460.4
25°	5076.7	4195.4	3186.5	3059.0	3097.0	3159.4	3251.6	3219.1	3254.3	3254.3	3297.7
27.5°	5231.3	4103.2	3064.5	2961.5	3037.3	3105.1	3118.7	3097.0	3056.4	3051.0	3034.7
30°	5356.0	3989.2	2975.0	2928.9	2991.3	3029.2	2985.8	2939.7	2869.2	2863.8	2825.8
32.5°	5526.9	3848.2	2863.8	2847.5	2918.0	2920.7	2907.2	2836.7	2733.6	2690.2	2646.9
35°	5814.4	3766.9	2779.7	2804.2	2825.8	2817.7	2793.3	2717.3	2614.3	2595.3	2579.0
37.5°	6025.9	3707.2	2693.0	2722.8	2741.8	2752.6	2679.4	2595.3	2598.0	2560.1	2549.2
40°	6264.5	3669.2	2622.4	2636.0	2638.7	2673.9	2584.4	2543.8	2562.8	2538.3	2554.6
42.5°	6571.0	3680.1	2549.2	2538.3	2589.9	2576.3	2532.9	2478.7	2489.5	2416.3	2427.1
45°	6733.7	3753.3	2505.8	2457.0	2514.0	2511.2	2454.3	2402.8	2337.6	2196.6	2202.1
47.5°	6842.2	3772.3	2402.8	2370.2	2429.9	2465.1	2400.1	2280.7	2188.6	2088.2	2063.8
50°	6953.4	3807.6	2353.9	2286.1	2310.6	2394.6	2313.3	2199.4	2109.9	2020.4	2033.9
52.5°	7051.0	3875.4	2259.0	2158.7	2202.1	2294.3	2250.9	2112.6	2015.0	1941.8	1920.1
55°	7484.9	4027.2	2099.1	1968.9	2071.9	2188.6	2164.1	1995.9	1890.2	1852.3	1846.9
56°	7552.7	4032.6	2015.0	1903.8	1998.7	2153.2	2123.4	1944.4	1849.5	1789.9	1792.6
57.5°	7563.5	3967.5	1895.6	1844.1	1925.5	2101.7	2063.8	1903.8	1773.6	1719.4	1703.1
60°	6655.1	3097.0	1746.5	1713.9	1808.9	1944.4	1930.9	1792.6	1646.2	1583.8	1613.6
62.5°	4537.1	2269.9	1629.9	1624.4	1673.3	1806.1	1770.9	1646.2	1524.1	1483.4	1464.4
65°	2641.5	1722.1	1516.0	1494.3	1534.9	1605.5	1629.9	1499.7	1372.2	1345.1	1337.0
67.5°	1559.3	1423.7	1369.5	1334.2	1320.7	1364.1	1383.1	1307.1	1179.7	1141.7	1174.3
70°	1304.5	1266.5	1269.2	1209.5	1177.0	1147.2	1130.9	1063.1	957.3	908.5	895.0
72.5°	1125.5	1109.2	1098.3	1044.1	1014.3	946.5	875.9	808.1	729.5	688.8	691.5
75°	859.7	854.3	859.7	832.6	781.0	726.8	661.7	575.0	515.3	463.8	474.6
77.5°	512.6	528.8	537.0	526.1	504.4	455.6	414.9	358.0	301.1	260.3	254.9
80°	352.6	366.1	379.7	366.1	344.4	309.1	265.8	222.4	181.7	160.0	154.6
82.5°	268.5	282.0	290.2	276.6	249.5	211.6	181.7	151.9	119.3	97.6	92.2
85°	97.6	111.2	108.4	130.1	141.0	135.6	116.6	89.5	67.8	48.8	46.1
87.5°	27.1	24.4	27.1	27.1	27.1	24.4	21.7	21.7	21.7	13.5	10.9
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)