

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: P650874

Luminaire Tested: **GALN-SA4C-840-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650874
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-SA4C-840-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 1050mA 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: 14225.5 lumens
Efficiency: N/A
Efficacy: 66.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

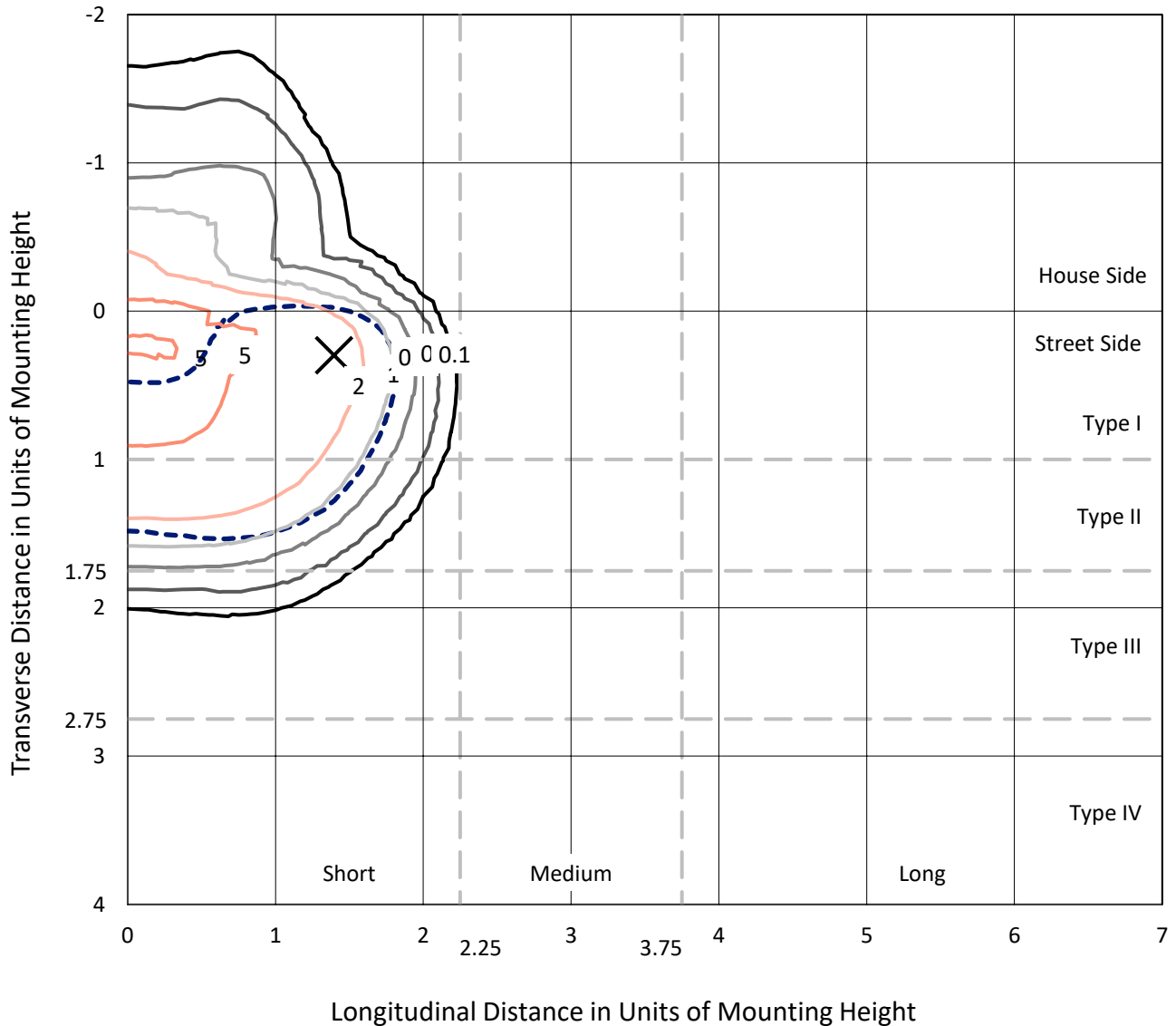
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

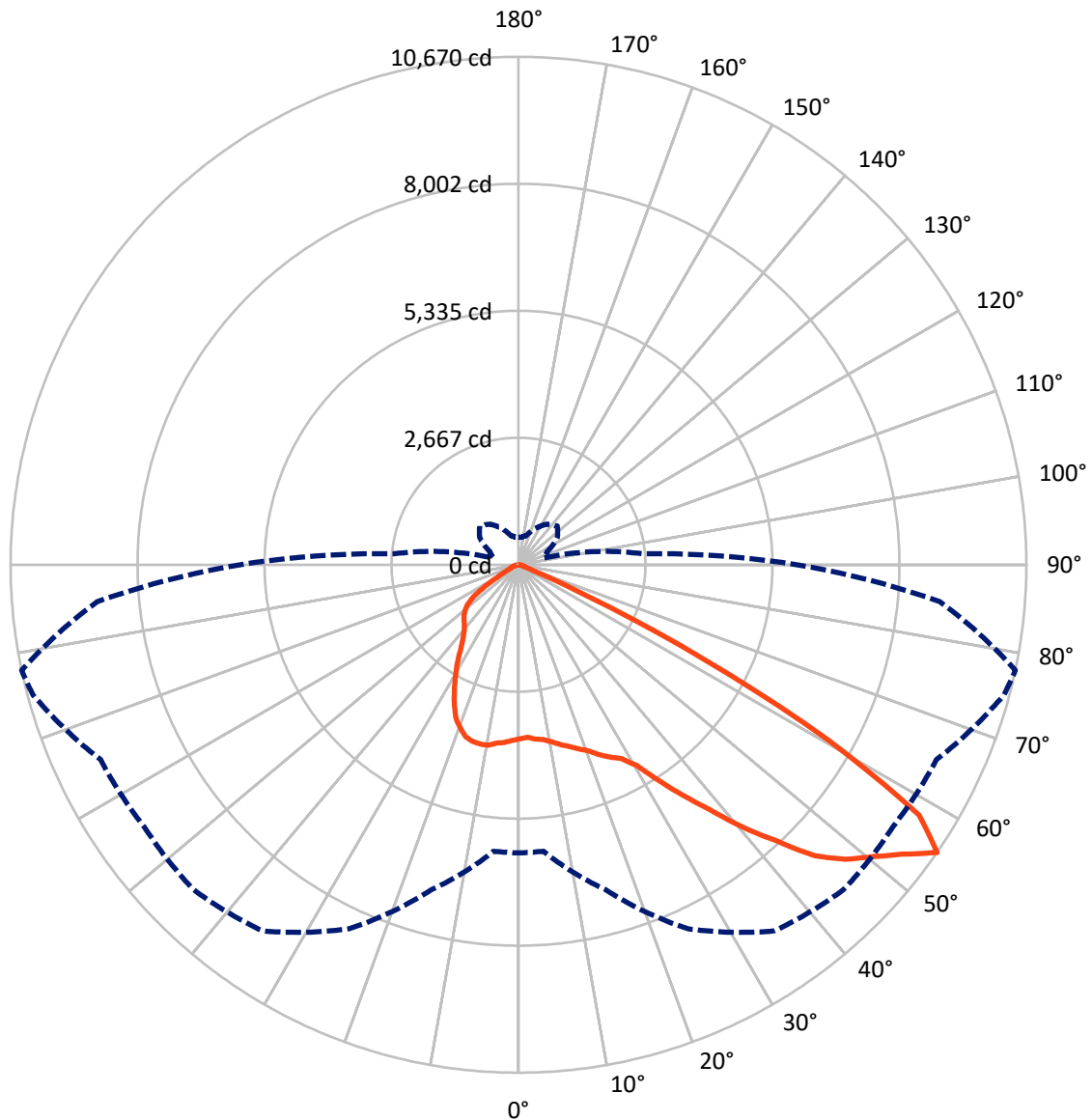
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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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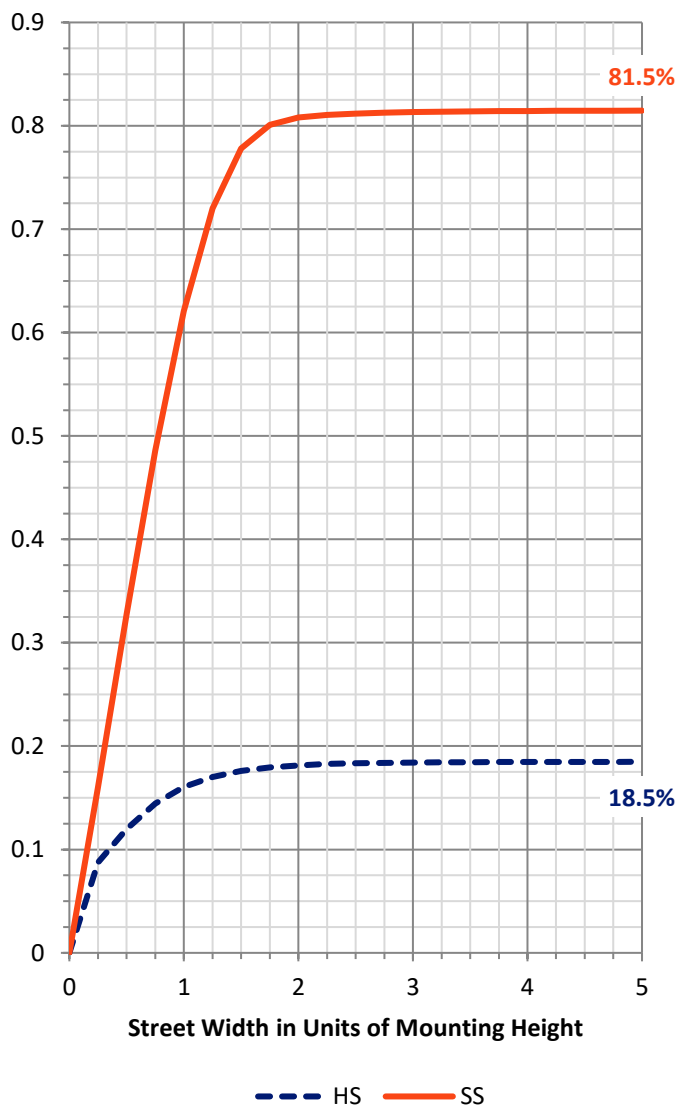
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2642.2	0.0	2642.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	11583.3	0.0	11583.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	14225.5	0.0	14225.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.1	2.3
10°-20°	863.1	6.1
20°-30°	1512.8	10.6
30°-40°	2494.5	17.5
40°-50°	3629.8	25.5
50°-60°	4112.9	28.9
60°-70°	1176.0	8.3
70°-80°	91.3	0.6
80°-90°	19.0	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°	14225.5	100.0
0°-180°	14225.5	100.0

Coefficient of Utilization

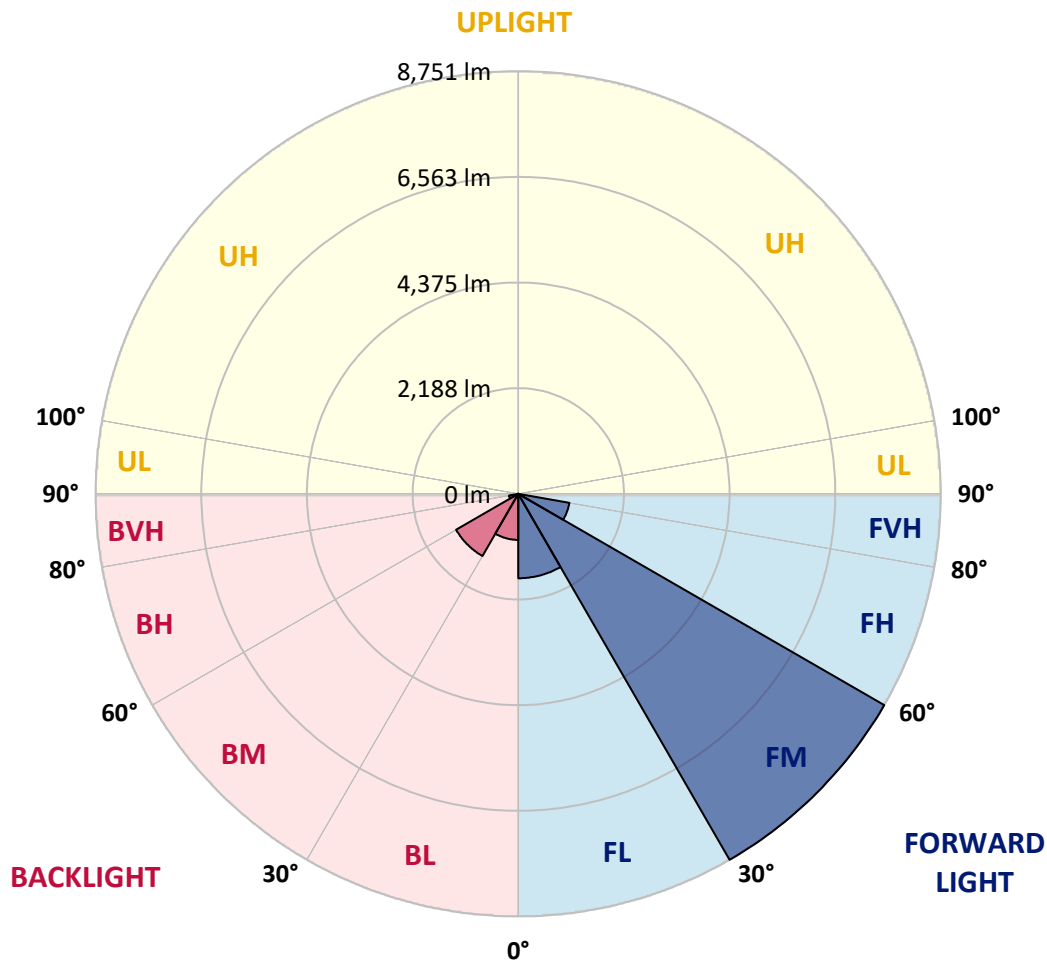


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1748.7	12.3			
FM (30°-60°)	8750.9	61.5			
FH (60°-80°)	1074.4	7.6			G1/1800
FVH (80°-90°)	9.2	0.1			G0/10
BL (0°-30°)	953.3	6.7	B2/1000		
BM (30°-60°)	1486.3	10.4	B2/2500		
BH (60°-80°)	192.9	1.4	B1/500		G1/500
BVH (80°-90°)	9.7	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°	3657.4	3657.4	3657.4	3657.4	3657.4	3657.4	3657.4	3657.4	3657.4	3657.4	3657.4
2.5°	3438.7	3471.7	3476.8	3517.5	3515.0	3583.7	3603.9	3606.5	3652.3	3629.4	3687.9
5°	3342.0	3324.2	3316.6	3387.8	3408.2	3469.2	3520.0	3550.5	3644.6	3677.8	3738.7
7.5°	3255.5	3255.5	3260.6	3324.2	3316.6	3395.5	3448.9	3543.0	3680.3	3708.2	3782.0
10°	3171.6	3141.1	3179.2	3245.3	3301.3	3336.9	3448.9	3537.8	3698.0	3779.5	3881.2
12.5°	3128.4	3143.7	3148.7	3197.1	3258.1	3364.9	3426.0	3573.5	3825.3	3873.6	3983.0
15°	3400.5	3370.0	3296.2	3253.0	3303.9	3354.7	3507.3	3657.4	3891.4	3960.0	4082.1
17.5°	3715.9	3690.5	3629.4	3512.4	3398.0	3492.1	3611.6	3748.9	3962.6	4064.3	4244.9
20°	4127.9	4087.3	4026.2	3797.3	3698.0	3596.4	3723.5	3886.3	4079.6	4171.2	4356.8
22.5°	4618.8	4618.8	4481.4	4204.2	3998.2	3901.6	3955.0	4049.1	4209.3	4333.9	4517.0
25°	5130.0	5114.7	4990.2	4702.7	4354.3	4239.8	4300.9	4367.0	4410.2	4478.9	4600.9
27.5°	5715.0	5626.0	5468.3	5150.4	4842.6	4621.3	4687.5	4628.9	4575.5	4611.1	4786.6
30°	6111.7	6167.7	5966.8	5661.6	5371.6	5124.9	5137.7	5086.8	4842.6	4893.4	4997.7
32.5°	6523.8	6559.4	6447.4	6279.6	5989.7	5702.2	5598.0	5554.7	5371.6	5394.5	5292.7
35°	6867.1	6935.8	6836.7	6762.9	6679.0	6447.4	6160.1	6299.9	6004.9	5949.0	5684.5
37.5°	7182.6	7162.2	7279.2	7202.8	7185.1	7022.3	6706.9	6734.9	6536.5	6523.8	6218.6
40°	7464.8	7469.9	7630.1	7665.8	7594.6	7304.6	6846.8	7068.1	7228.3	7243.5	6851.9
42.5°	7698.9	7767.5	7904.8	8192.3	8085.5	7602.2	6991.7	7233.4	7828.5	7922.6	7452.1
45°	7902.3	8042.1	8212.6	8469.5	8408.4	8024.4	7352.9	7574.2	8469.5	8716.2	8016.7
47.5°	7915.0	8098.2	8283.8	8665.3	8741.6	8250.7	7726.8	8113.4	8978.2	9245.2	8428.8
50°	7864.1	7960.8	8332.1	8746.7	8919.6	8619.5	8250.7	8566.1	9471.6	9639.5	8637.3
52.5°	7261.4	7335.1	8080.3	8823.0	9240.2	9036.6	8945.1	9196.9	9975.2	10099.8	8833.2
55°	6053.3	6040.6	7065.5	8438.9	9387.7	9654.7	9598.8	9687.7	10557.6	10669.5	8881.5
57.5°	4140.7	4372.1	5257.2	7027.4	8484.8	9509.7	9568.2	9420.7	9878.5	9921.8	7742.1
60°	2233.1	2329.7	3041.9	4690.0	6460.2	7749.7	7902.3	7635.3	7599.6	7477.6	5526.8
62.5°	887.7	935.9	1340.4	2322.1	3520.0	4710.4	5038.4	4929.1	4695.1	4374.6	2861.3
65°	422.2	452.7	666.4	1086.1	1561.7	1963.5	2291.6	2393.3	1765.1	1589.6	943.6
67.5°	287.4	310.3	485.8	620.6	557.0	582.5	757.9	704.5	414.6	353.6	262.0
70°	218.7	234.0	389.1	422.2	249.3	175.5	195.9	183.1	170.4	172.9	170.4
72.5°	155.2	167.9	284.8	249.3	109.3	81.4	104.3	124.6	124.6	124.6	122.1
75°	94.1	106.8	165.3	96.6	43.2	43.2	66.1	83.9	89.0	91.6	86.5
77.5°	48.4	61.1	55.9	28.0	28.0	33.1	48.4	58.5	63.6	63.6	61.1
80°	10.2	10.2	10.2	15.2	28.0	35.6	48.4	53.4	61.1	61.1	55.9
82.5°	0.0	2.5	7.7	15.2	25.4	33.1	45.8	53.4	61.1	63.6	58.5
85°	0.0	2.5	5.0	10.2	17.8	20.4	17.8	15.2	15.2	15.2	15.2
87.5°	0.0	0.0	2.5	2.5	2.5	5.0	5.0	5.0	5.0	5.0	5.0
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°	3657.4	3657.4	3657.4	3657.4	3657.4	3657.4	3657.4	3657.4	3657.4	3657.4	3657.4
2.5°	3693.0	3700.7	3687.9	3685.3	3675.2	3705.7	3631.9	3614.1	3659.9	3616.7	3626.9
5°	3741.4	3759.1	3736.2	3698.0	3642.1	3555.7	3481.9	3385.3	3339.4	3306.4	3301.3
7.5°	3776.9	3789.6	3766.8	3644.6	3476.8	3258.1	3095.3	2975.8	2881.7	2853.7	2807.9
10°	3921.9	3924.4	3810.0	3540.4	3212.3	2924.9	2675.6	2492.6	2398.4	2339.9	2314.5
12.5°	4018.6	4013.4	3782.0	3334.4	2896.9	2515.4	2230.6	2009.2	1922.8	1894.9	1877.0
15°	4140.7	4112.7	3715.9	3123.3	2489.9	2077.9	1821.1	1668.5	1660.8	1643.1	1660.8
17.5°	4237.3	4158.4	3619.2	2739.2	2100.8	1711.7	1543.8	1554.0	1574.4	1592.2	1594.7
20°	4395.0	4232.2	3398.0	2403.5	1739.7	1467.5	1465.0	1510.8	1561.7	1582.0	1602.4
22.5°	4514.5	4262.7	3161.4	2044.9	1444.7	1368.3	1411.6	1480.2	1518.4	1538.8	1569.3
25°	4557.7	4178.8	2846.0	1686.3	1302.2	1322.6	1388.7	1434.5	1482.8	1505.6	1492.9
27.5°	4600.9	4135.5	2469.6	1388.7	1225.9	1292.0	1348.0	1393.8	1409.0	1439.5	1459.9
30°	4705.2	3985.5	2131.3	1200.4	1187.7	1271.7	1312.4	1327.7	1368.3	1386.1	1386.1
32.5°	4789.2	3927.0	1772.7	1111.5	1182.7	1281.9	1287.0	1287.0	1292.0	1279.3	1274.2
35°	4962.2	3726.1	1452.2	1058.1	1180.1	1284.4	1297.2	1253.9	1136.9	1091.1	1078.4
37.5°	5175.8	3596.4	1215.7	1045.4	1197.9	1314.9	1335.3	1172.5	1019.9	946.1	933.4
40°	5435.2	3504.8	1060.6	1040.2	1238.6	1386.1	1325.1	1108.9	910.6	803.7	798.6
42.5°	5737.9	3420.9	956.3	1037.7	1289.5	1459.9	1314.9	1055.5	798.6	727.4	737.6
45°	5979.5	3375.1	885.1	1019.9	1307.3	1503.1	1322.6	961.4	752.9	707.0	712.2
47.5°	6167.7	3278.4	826.6	989.4	1304.7	1518.4	1253.9	923.2	730.0	742.7	755.4
50°	6172.8	3148.7	752.9	923.2	1266.6	1490.4	1175.0	887.7	724.9	778.3	803.7
52.5°	6104.1	2965.6	674.0	829.1	1177.6	1393.8	1103.8	872.4	702.0	696.9	727.4
55°	5859.9	2622.2	541.8	671.5	994.5	1149.6	1040.2	844.4	633.3	574.8	579.9
57.5°	4735.8	1879.6	399.3	480.7	704.5	841.8	938.5	831.7	569.7	488.4	490.9
60°	2932.5	1065.7	292.5	328.1	434.9	511.2	760.4	773.2	508.6	412.0	407.0
62.5°	1505.6	526.5	226.4	231.4	267.0	300.2	521.4	648.6	460.4	391.7	391.7
65°	503.6	259.4	198.4	178.0	178.0	185.7	315.4	450.2	389.1	328.1	328.1
67.5°	216.2	193.3	172.9	155.2	142.5	134.8	178.0	262.0	290.0	249.3	239.1
70°	167.9	162.8	150.0	129.7	111.9	101.8	104.3	134.8	165.3	160.2	155.2
72.5°	124.6	124.6	119.5	101.8	86.5	73.8	68.7	71.2	78.9	81.4	83.9
75°	86.5	89.0	89.0	78.9	63.6	53.4	45.8	38.2	30.5	25.4	22.9
77.5°	58.5	61.1	66.1	58.5	48.4	35.6	28.0	20.4	12.7	5.0	5.0
80°	50.9	58.5	63.6	58.5	50.9	38.2	28.0	15.2	7.7	0.0	0.0
82.5°	53.4	58.5	66.1	55.9	48.4	35.6	28.0	17.8	7.7	2.5	0.0
85°	12.7	12.7	15.2	17.8	22.9	25.4	20.4	12.7	7.7	2.5	0.0
87.5°	5.0	5.0	5.0	5.0	5.0	2.5	2.5	2.5	2.5	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)