

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: P651141

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651141  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9C-840-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35449.9 lumens  
Efficiency: N/A  
Efficacy: 73.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

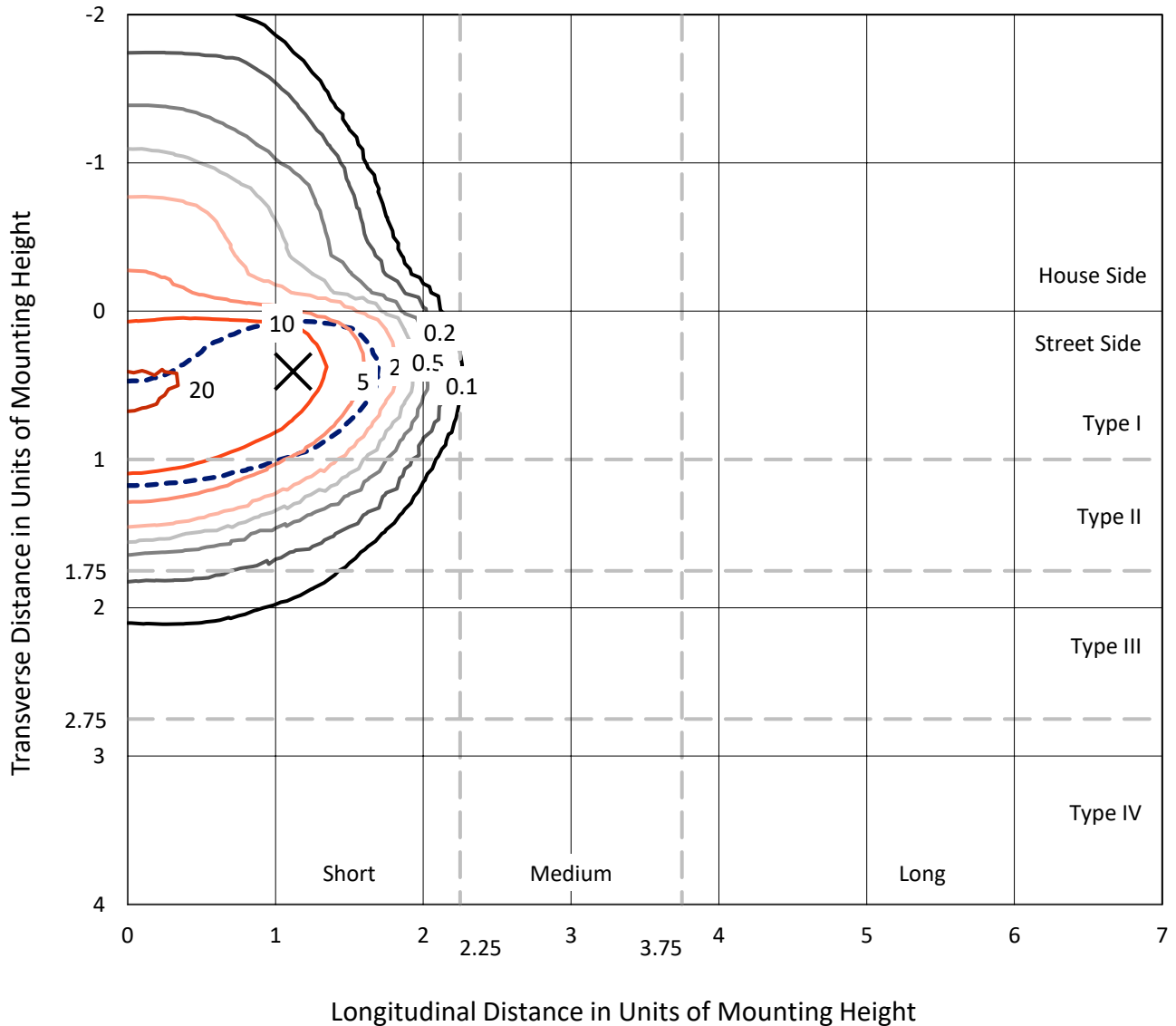
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

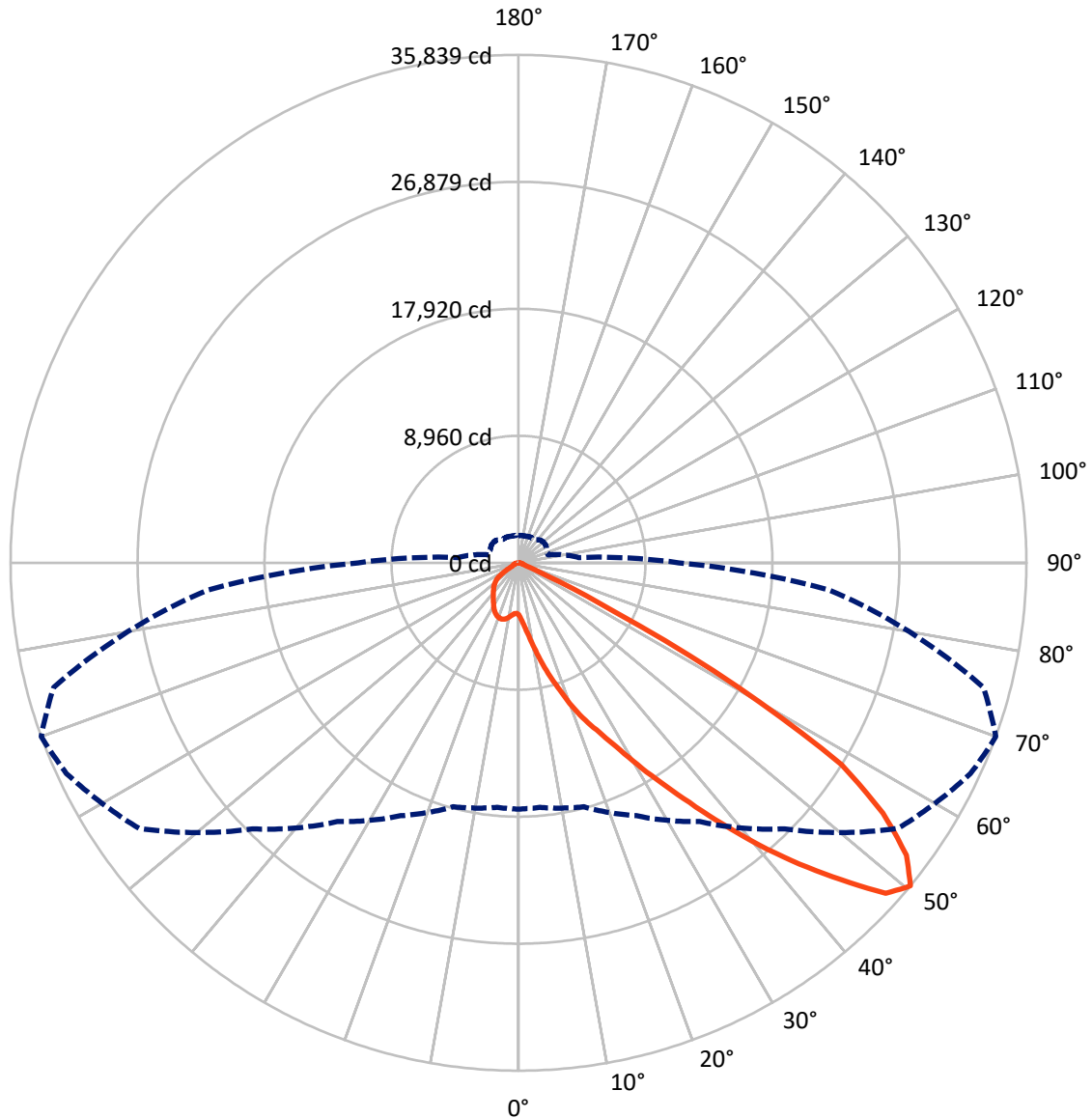
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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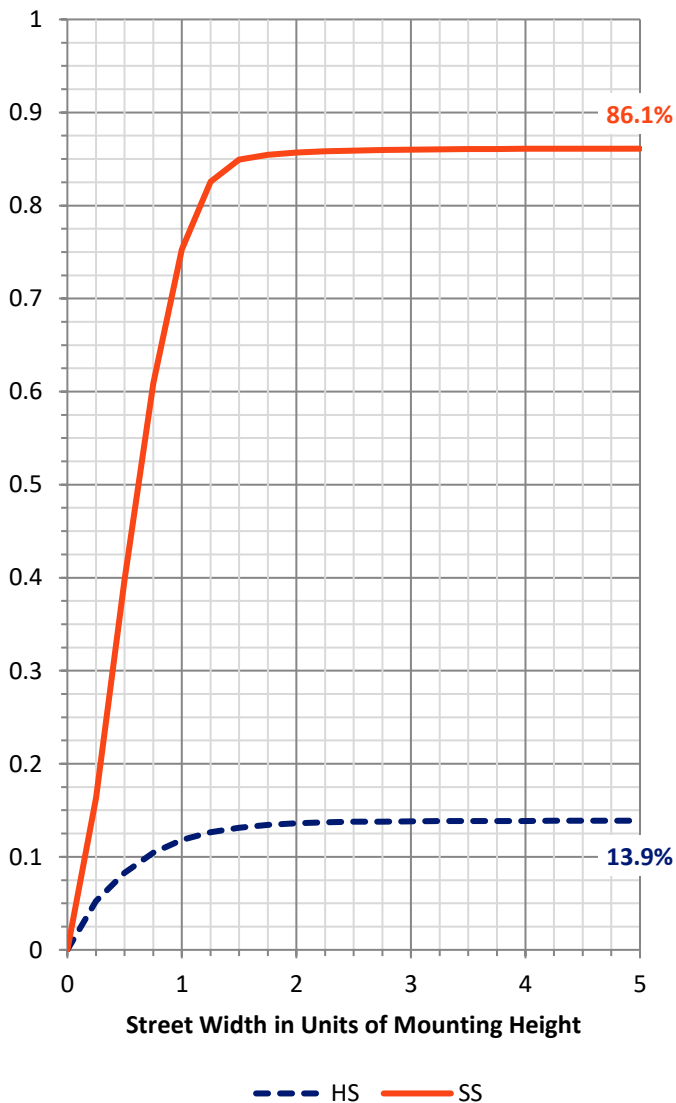
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4950.8	0.0	4950.8
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	30499.0	0.0	30499.0
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	35449.9	0.0	35449.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	477.5	1.3
10°-20°	2065.4	5.8
20°-30°	4332.9	12.2
30°-40°	7468.5	21.1
40°-50°	10915.1	30.8
50°-60°	8501.1	24.0
60°-70°	1440.3	4.1
70°-80°	197.9	0.6
80°-90°	51.3	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°	35449.9	100.0
0°-180°	35449.9	100.0

**Coefficient of Utilization**

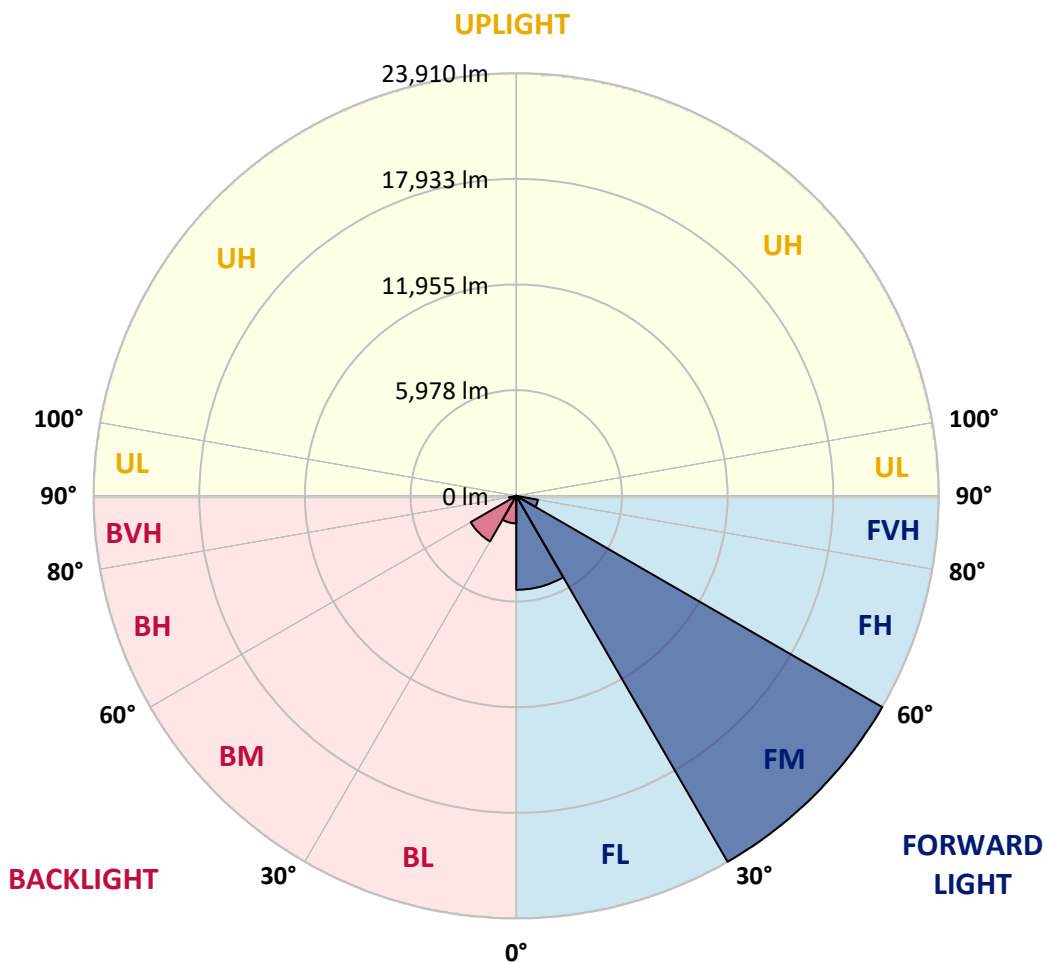


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5317.9	15.0			
FM (30°-60°)	23910.3	67.4			
FH (60°-80°)	1247.1	3.5			G1/1800
FVH (80°-90°)	23.7	0.1			G1/100
BL (0°-30°)	1557.9	4.4	B3/2500		
BM (30°-60°)	2974.3	8.4	B3/5000		
BH (60°-80°)	391.1	1.1	B1/500		G1/500
BVH (80°-90°)	27.6	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-G1**  
 Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3671.9	3671.9	3671.9	3671.9	3671.9	3671.9	3671.9	3671.9	3671.9	3671.9	3671.9
2.5°	4808.4	4773.5	4697.7	4557.8	4499.5	4359.7	4278.1	4120.7	4021.6	3910.9	3788.5
5°	6772.7	6591.9	6481.2	6323.8	5863.4	5577.8	5105.7	4703.5	4517.0	4313.1	4033.3
7.5°	8800.9	8684.3	8532.8	8194.8	7880.0	7285.5	6475.4	5589.5	5210.6	4860.9	4307.2
10°	10479.5	10153.1	10135.6	9885.0	9541.1	8830.1	7856.7	6755.2	6079.0	5566.2	4697.7
12.5°	11651.0	11353.8	11487.8	11458.7	11138.1	10485.3	9360.4	7903.3	7198.1	6399.6	5099.9
15°	12717.6	12595.2	12554.4	12519.5	12391.2	11907.5	10899.1	9302.1	8282.2	7320.5	5554.5
17.5°	13760.9	13446.2	13597.7	13626.8	13615.2	13178.0	12233.9	10631.0	9430.4	8293.9	6032.4
20°	14687.6	14716.7	14512.8	14471.9	14437.0	14419.5	13498.6	11948.3	10840.8	9313.8	6656.1
22.5°	15876.7	15672.6	15853.3	15736.7	15509.4	15369.5	14664.3	13114.0	12064.8	10543.6	7291.4
25°	17281.3	17444.4	17019.0	16972.4	16721.8	16237.9	15602.7	14419.5	13242.1	11685.9	7979.1
27.5°	19012.3	18726.7	18616.0	18359.5	17904.9	17700.9	16954.9	15765.9	14664.3	12886.6	8643.5
30°	20498.5	20422.8	19869.0	19566.0	19169.7	19163.9	18120.5	17590.2	16517.7	14769.2	9558.6
32.5°	21710.8	21378.6	21174.6	20964.8	20644.3	20731.7	19851.6	19571.8	18493.6	16517.7	10636.9
35°	22521.1	22282.0	22159.7	21839.1	21745.8	22136.3	21769.1	21652.6	20766.6	18977.3	11901.7
37.5°	22777.5	22853.2	22830.0	22427.8	22625.9	23680.9	24152.9	23849.9	23383.6	21571.0	13271.3
40°	23004.8	23057.2	22940.6	23412.8	23978.1	25178.8	26886.5	26385.3	26210.4	24199.6	15177.2
42.5°	23133.0	23092.2	23092.2	23908.2	24764.9	27177.9	29526.8	29194.6	29060.5	26997.3	17380.4
45°	22579.3	22183.0	22608.4	23715.9	25441.1	28162.9	31636.7	32097.1	31904.8	30325.3	19956.5
47.5°	20510.2	20755.0	20994.0	22474.4	24619.3	27859.8	32930.5	34498.4	34854.0	33122.9	21646.8
50°	17380.4	17327.9	17823.3	19688.4	22293.7	26554.3	32679.9	35192.0	35839.0	33962.2	22002.3
52.5°	12641.8	13026.5	13562.7	15416.2	18505.2	23173.8	29445.2	33402.7	34265.3	32930.5	21769.1
55°	7361.3	6935.8	8142.3	9710.2	12624.3	17479.4	24893.2	29608.4	31205.4	31053.8	20591.8
57.5°	2949.2	2856.0	3269.7	4406.3	6586.1	10835.0	18103.1	24327.9	26886.5	28442.7	18097.2
60°	1293.9	1264.8	1486.2	1795.1	2692.7	4995.0	9902.5	15130.6	17800.0	19874.9	12455.3
62.5°	932.6	920.9	1031.7	1142.3	1422.1	2174.0	4161.5	6096.5	7600.3	9179.8	5577.8
65°	751.9	781.0	856.8	915.1	1049.1	1206.5	1468.7	1696.0	2080.7	2156.5	1229.8
67.5°	612.0	635.3	705.3	769.3	792.6	652.8	676.1	594.5	594.5	530.4	425.5
70°	448.8	454.6	536.2	612.0	489.5	262.3	460.4	460.4	413.9	396.4	361.4
72.5°	332.2	338.1	402.2	378.9	192.3	163.2	338.1	373.0	338.1	320.6	291.4
75°	244.8	250.6	209.8	87.5	81.6	104.9	198.1	256.4	244.8	238.9	221.5
77.5°	46.6	35.0	29.2	40.8	58.3	87.5	128.3	157.4	163.2	174.8	163.2
80°	5.8	5.8	17.5	35.0	64.1	93.3	134.1	151.5	157.4	163.2	151.5
82.5°	0.0	5.8	17.5	35.0	64.1	87.5	116.6	134.1	145.7	151.5	145.7
85°	0.0	5.8	11.7	29.2	52.5	64.1	58.3	40.8	35.0	40.8	29.2
87.5°	0.0	0.0	5.8	5.8	11.7	11.7	11.7	11.7	11.7	11.7	11.7
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°	3671.9	3671.9	3671.9	3671.9	3671.9	3671.9	3671.9	3671.9	3671.9	3671.9	3671.9
2.5°	3718.6	3695.2	3613.6	3526.2	3450.5	3485.4	3450.5	3421.3	3433.0	3421.3	3409.7
5°	3922.5	3817.6	3642.8	3567.0	3502.8	3497.0	3479.6	3473.8	3479.6	3479.6	3427.1
7.5°	4114.8	3945.8	3759.4	3677.7	3602.0	3607.8	3567.0	3567.0	3561.1	3532.0	3520.3
10°	4406.3	4179.0	3940.0	3794.3	3701.1	3683.6	3642.8	3602.0	3602.0	3602.0	3543.6
12.5°	4726.8	4441.2	4114.8	3945.8	3835.1	3747.7	3683.6	3671.9	3607.8	3596.1	3567.0
15°	5006.6	4645.3	4231.4	3998.3	3858.4	3741.9	3642.8	3578.6	3549.5	3532.0	3508.7
17.5°	5280.6	4820.1	4295.6	3998.3	3846.7	3712.7	3607.8	3549.5	3479.6	3491.2	3444.6
20°	5647.7	5006.6	4313.1	3922.5	3736.1	3607.8	3467.9	3438.8	3398.0	3363.0	3374.7
22.5°	6003.3	5140.7	4260.6	3829.2	3561.1	3409.7	3339.7	3304.7	3287.2	3258.1	3217.3
25°	6323.8	5286.4	4179.0	3660.3	3374.7	3263.9	3199.8	3193.9	3153.2	3153.2	3077.4
27.5°	6650.2	5338.8	4039.1	3462.1	3211.4	3147.4	3118.2	3106.6	3089.1	3048.3	2995.8
30°	7023.3	5356.3	3835.1	3258.1	3065.8	2995.8	3036.6	3065.8	2990.0	2914.2	2937.5
32.5°	7332.2	5315.5	3590.3	3065.8	2960.8	2925.8	3007.5	3036.6	2949.2	2867.6	2826.8
35°	7705.2	5216.5	3351.3	2914.2	2856.0	2925.8	2995.8	2995.8	2821.0	2721.9	2698.5
37.5°	8270.6	5105.7	3129.9	2786.0	2745.2	2890.9	2984.1	2920.0	2646.1	2523.7	2494.6
40°	8876.7	5035.7	2914.2	2657.7	2686.9	2832.6	2885.1	2686.9	2407.1	2331.3	2308.0
42.5°	9756.8	4895.9	2721.9	2547.1	2634.4	2751.0	2751.0	2395.5	2290.5	2249.8	2244.0
45°	10852.5	4796.8	2552.9	2453.8	2558.7	2587.8	2494.6	2244.0	2168.2	2156.5	2162.4
47.5°	11388.7	4604.5	2378.0	2343.0	2418.8	2424.6	2179.8	2121.5	2057.4	2039.9	2028.3
50°	11307.2	4260.6	2150.7	2197.3	2302.2	2244.0	1987.5	1999.1	1940.9	1935.1	1905.9
52.5°	10736.0	3718.6	1923.4	2034.1	2150.7	1981.6	1830.1	1818.5	1818.5	1742.7	1713.5
55°	9517.8	2995.8	1649.5	1789.3	1929.2	1666.9	1626.2	1614.5	1585.4	1515.4	1497.9
57.5°	7536.1	2197.3	1241.5	1393.0	1637.8	1416.3	1410.4	1358.0	1282.3	1229.8	1229.8
60°	4482.0	1264.8	781.0	850.9	1084.0	1148.2	1276.4	1253.1	1124.9	1043.3	1020.0
62.5°	2045.8	652.8	495.4	507.0	582.8	746.1	1002.5	1159.8	979.2	839.3	827.6
65°	687.8	483.7	408.0	390.5	402.2	448.8	600.3	821.8	781.0	647.0	623.6
67.5°	419.7	431.3	384.7	355.6	355.6	349.7	343.9	373.0	460.4	448.8	454.6
70°	361.4	396.4	355.6	320.6	308.9	291.4	244.8	204.0	174.8	204.0	215.6
72.5°	291.4	314.7	303.1	273.9	244.8	221.5	174.8	134.1	99.1	87.5	87.5
75°	215.6	233.1	244.8	209.8	186.5	157.4	128.3	87.5	52.5	35.0	35.0
77.5°	157.4	174.8	180.6	163.2	139.9	110.8	81.6	58.3	29.2	11.7	11.7
80°	134.1	157.4	174.8	163.2	145.7	104.9	75.8	40.8	23.3	5.8	5.8
82.5°	128.3	157.4	174.8	157.4	139.9	99.1	75.8	46.6	17.5	5.8	5.8
85°	29.2	40.8	52.5	64.1	75.8	75.8	58.3	35.0	17.5	5.8	5.8
87.5°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	5.8	5.8	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)