

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: P651233

Luminaire Tested: **GALN-SA2D-840-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651233  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2D-840-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7650.6 lumens  
Efficiency: N/A  
Efficacy: 61.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

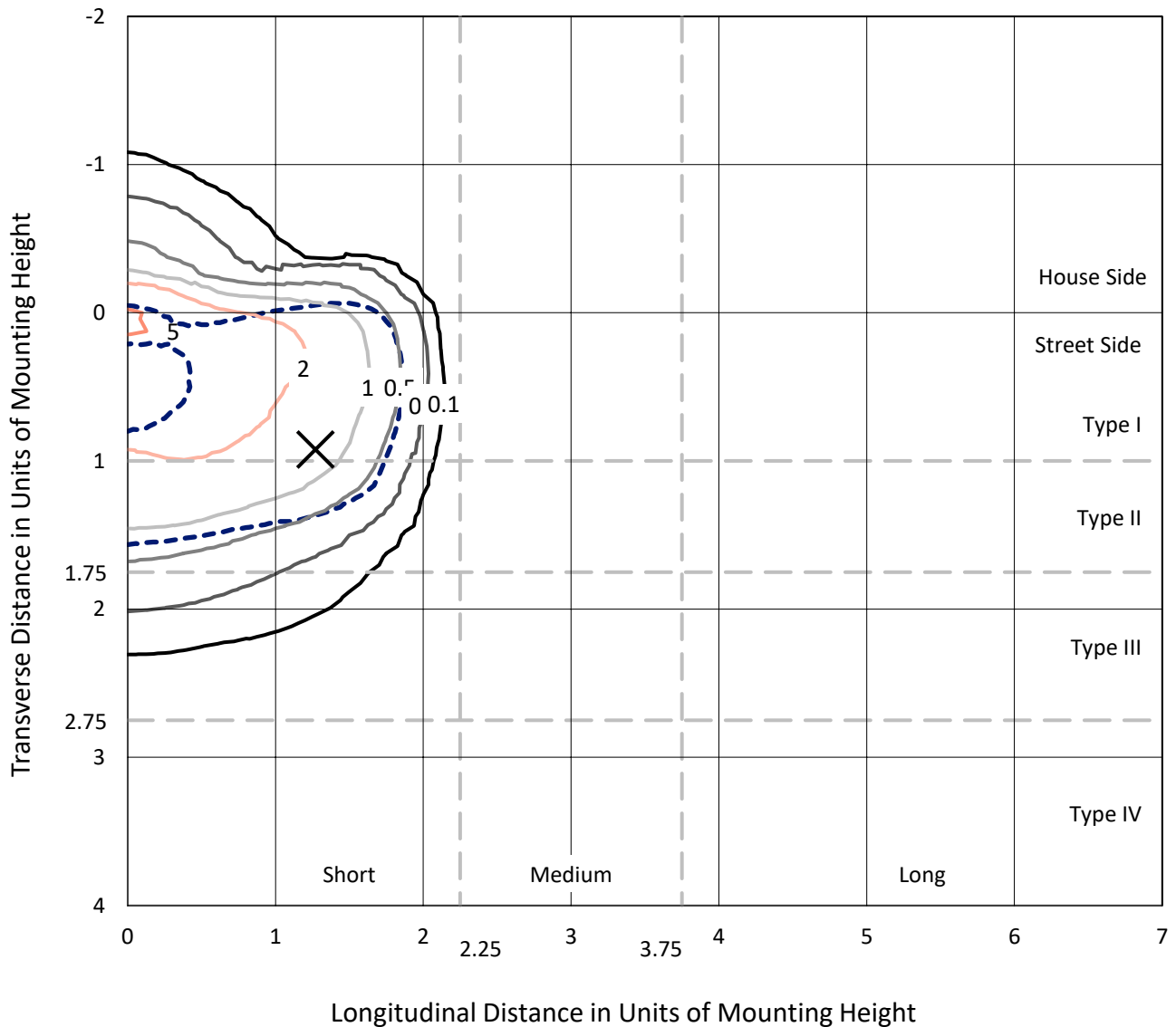
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

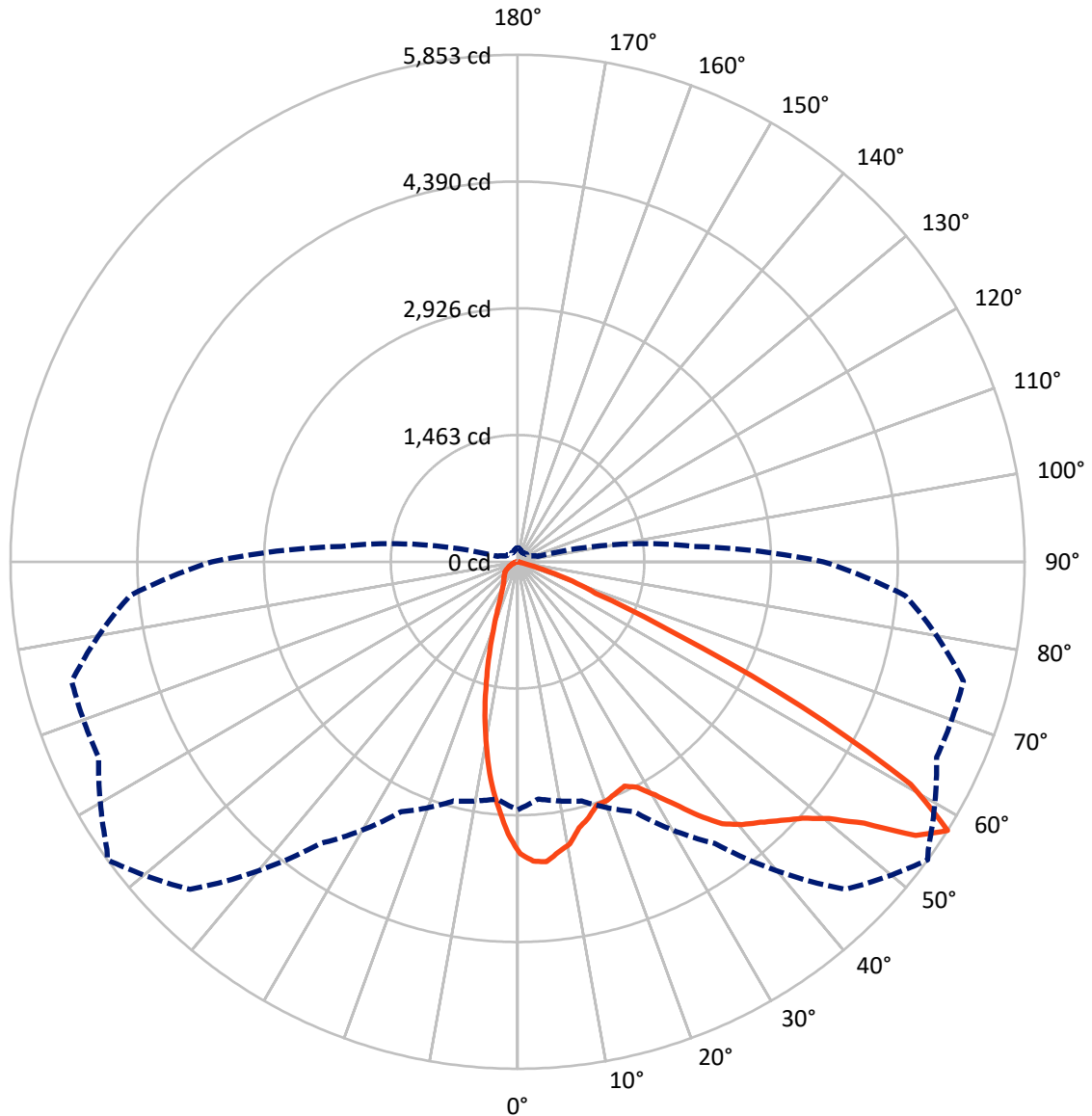
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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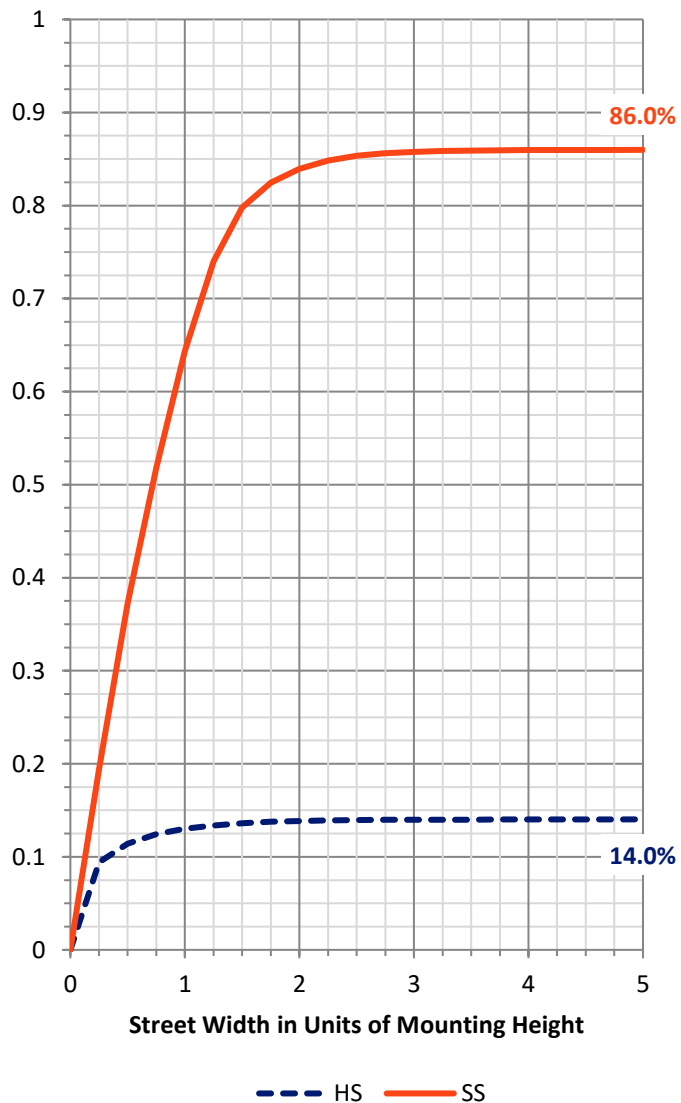
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1081.2	0.0	1081.2
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	6569.4	0.0	6569.4
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	7650.6	0.0	7650.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	282.0	3.7
10°-20°	602.1	7.9
20°-30°	797.9	10.4
30°-40°	1159.6	15.2
40°-50°	1719.5	22.5
50°-60°	2150.2	28.1
60°-70°	848.2	11.1
70°-80°	84.4	1.1
80°-90°	6.6	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°	7650.6	100.0
0°-180°	7650.6	100.0

**Coefficient of Utilization**



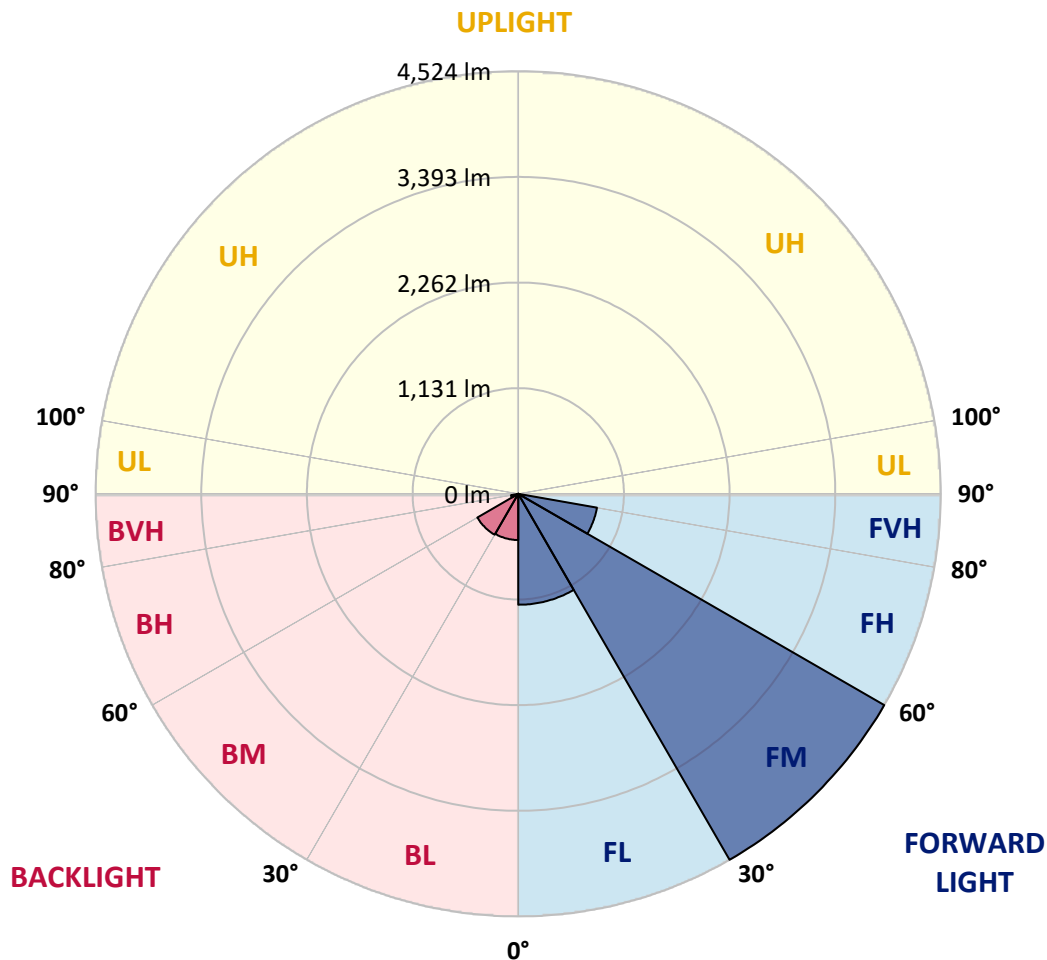
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1187.6	15.5			
FM (30°-60°)	4523.8	59.1			
FH (60°-80°)	855.1	11.2			G1/1800
FVH (80°-90°)	3.0	0.0			G0/10
BL (0°-30°)	494.5	6.5	B1/500		
BM (30°-60°)	505.6	6.6	B1/1000		
BH (60°-80°)	77.5	1.0	B0/110		G0/110
BVH (80°-90°)	3.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3370.2	3370.2	3370.2	3370.2	3370.2	3370.2	3370.2	3370.2	3370.2	3370.2	3370.2
2.5°	3566.5	3529.5	3532.4	3519.6	3502.5	3515.3	3459.8	3472.6	3471.2	3395.8	3346.0
5°	3476.9	3516.7	3475.4	3509.6	3476.9	3512.4	3478.3	3452.7	3411.4	3355.9	3263.5
7.5°	3324.6	3286.2	3297.6	3340.3	3347.4	3427.1	3384.4	3417.2	3400.1	3290.5	3163.9
10°	3018.8	3010.3	3067.1	3124.1	3193.8	3279.1	3311.9	3293.4	3280.6	3239.3	3070.0
12.5°	2784.0	2808.3	2806.8	2900.7	3018.8	3067.1	3152.5	3149.7	3220.8	3144.0	2981.8
15°	2560.7	2573.5	2633.3	2691.6	2822.5	2960.5	3065.8	3080.0	3165.4	3111.3	2913.6
17.5°	2424.2	2405.7	2452.6	2522.3	2656.0	2836.7	2953.3	2987.5	3104.1	3092.8	2835.3
20°	2289.0	2289.0	2327.4	2409.9	2532.3	2735.7	2943.4	2933.4	3104.1	3071.4	2751.3
22.5°	2243.5	2266.2	2276.2	2338.8	2483.9	2658.9	2900.7	2919.2	3128.4	3061.5	2714.3
25°	2306.0	2276.2	2279.0	2328.8	2465.4	2621.9	2869.4	2910.7	3172.4	3111.3	2684.5
27.5°	2316.0	2345.9	2354.5	2388.6	2479.6	2633.3	2947.7	3031.6	3282.0	3227.9	2693.1
30°	2402.8	2432.7	2431.2	2489.6	2552.2	2725.8	3122.6	3139.7	3508.1	3374.4	2745.6
32.5°	2508.1	2539.4	2549.3	2617.6	2667.4	2895.1	3336.1	3380.1	3725.8	3604.9	2883.6
35°	2639.0	2627.5	2673.1	2741.4	2848.0	3142.6	3596.4	3670.4	3960.6	3903.7	3025.9
37.5°	2802.5	2788.3	2832.4	2943.4	3088.5	3435.7	3836.8	3885.2	4131.2	4181.1	3289.1
40°	2917.8	2923.5	3057.2	3206.6	3360.2	3714.4	3989.0	4036.0	4250.8	4440.0	3488.3
42.5°	3109.8	3145.4	3306.1	3488.3	3649.0	3923.6	4112.8	4158.3	4306.3	4647.7	3757.2
45°	3388.6	3373.0	3550.9	3754.3	3932.1	4141.3	4259.3	4243.7	4339.0	4854.0	3926.5
47.5°	3747.2	3750.0	3868.1	4041.7	4226.6	4330.5	4422.9	4367.4	4407.3	5071.7	4152.6
50°	3991.9	4013.2	4108.5	4286.3	4378.8	4538.1	4656.2	4622.1	4609.3	5202.5	4294.9
52.5°	4054.5	4118.5	4169.7	4391.6	4607.8	4859.6	5010.4	5083.0	4855.4	5246.6	4475.5
55°	3582.2	3639.1	3819.7	4124.2	4694.6	5368.9	5576.7	5578.1	5176.9	5443.0	4602.2
57.5°	2863.7	2748.5	2859.5	3182.4	3969.1	5347.6	5852.7	5785.8	5337.7	5327.7	4492.6
60°	1980.3	1951.8	1958.9	2086.9	2747.0	4253.6	5215.3	5302.1	4915.1	4617.8	3556.5
62.5°	1569.1	1545.0	1513.6	1499.4	1705.7	2650.3	3678.9	3801.2	3437.1	2994.6	2108.3
65°	1229.1	1214.9	1219.2	1276.0	1274.7	1503.7	2011.6	1961.8	1570.6	1160.8	663.0
67.5°	829.4	850.8	867.8	1039.9	1128.1	1047.0	971.6	943.2	510.7	214.8	146.5
70°	466.6	469.4	487.9	650.2	856.4	812.3	670.0	670.0	254.7	78.2	83.9
72.5°	254.7	246.1	229.0	280.2	381.2	386.9	298.7	260.4	75.4	51.2	46.9
75°	123.8	122.4	105.3	86.8	82.5	68.3	52.6	48.4	34.1	32.7	28.4
77.5°	25.6	24.2	12.8	12.8	14.2	15.6	19.9	19.9	24.2	24.2	19.9
80°	0.0	0.0	1.4	5.7	9.9	14.2	17.1	17.1	19.9	19.9	15.6
82.5°	0.0	0.0	1.4	4.3	8.5	12.8	15.6	17.1	19.9	21.4	17.1
85°	0.0	0.0	0.0	2.9	7.1	9.9	8.5	8.5	7.1	5.7	2.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3370.2	3370.2	3370.2	3370.2	3370.2	3370.2	3370.2	3370.2	3370.2	3370.2	3370.2
2.5°	3320.4	3317.6	3252.1	3215.1	3148.3	3089.9	3043.0	3008.8	3008.8	2987.5	2967.6
5°	3226.5	3202.3	3062.9	2973.3	2846.6	2752.8	2688.8	2639.0	2560.7	2582.0	2498.1
7.5°	3109.8	3048.7	2863.7	2727.2	2552.2	2418.5	2281.9	2160.9	2044.3	1991.7	2020.1
10°	2984.6	2878.0	2629.0	2412.7	2195.1	1950.4	1791.1	1597.6	1478.1	1471.0	1439.7
12.5°	2852.3	2731.4	2428.4	2129.7	1843.7	1549.2	1306.0	1125.3	1044.2	954.5	971.6
15°	2752.8	2573.5	2205.0	1845.2	1465.3	1168.0	923.2	783.9	707.0	685.7	678.6
17.5°	2644.6	2452.6	1977.4	1542.1	1149.5	840.7	664.4	597.5	567.6	567.6	563.4
20°	2532.3	2316.0	1751.2	1260.4	862.1	627.4	532.1	510.7	509.3	507.9	507.9
22.5°	2458.2	2159.5	1546.3	1001.5	650.2	502.2	462.4	453.8	459.5	476.6	476.6
25°	2380.0	2008.7	1320.2	772.5	503.6	431.0	408.3	413.9	428.2	443.9	438.2
27.5°	2300.4	1910.6	1106.8	606.0	412.6	377.0	368.4	381.2	397.0	411.2	406.9
30°	2281.9	1805.3	904.7	459.5	354.2	328.7	334.3	345.7	361.4	367.0	372.7
32.5°	2310.3	1722.8	741.2	377.0	308.7	301.6	301.6	307.3	317.2	330.0	325.8
35°	2391.4	1675.9	586.1	327.2	283.1	276.0	274.6	280.2	285.9	290.2	285.9
37.5°	2515.2	1638.9	479.5	290.2	266.0	254.7	251.8	250.4	256.1	257.5	260.4
40°	2673.1	1658.8	406.9	267.4	248.9	236.2	227.7	227.7	227.7	231.9	233.3
42.5°	2843.8	1685.8	351.4	254.7	233.3	217.7	209.2	206.3	209.2	214.8	213.4
45°	3023.1	1738.4	315.8	234.7	219.1	199.1	187.8	184.9	192.1	203.4	202.0
47.5°	3190.9	1813.9	288.8	221.9	204.9	186.4	172.2	169.3	182.1	197.7	199.1
50°	3358.8	1944.7	278.8	211.9	194.9	173.6	160.7	157.9	172.2	192.1	196.3
52.5°	3552.3	2085.6	271.7	199.1	183.5	163.6	149.4	146.5	162.1	187.8	189.2
55°	3678.9	2205.0	266.0	176.4	162.1	147.9	136.6	135.1	152.2	175.0	180.6
57.5°	3530.9	2038.6	246.1	153.7	138.0	130.9	120.9	120.9	135.1	156.5	160.7
60°	2677.4	1341.6	175.0	123.8	116.6	112.4	108.2	108.2	119.5	135.1	136.6
62.5°	1567.7	722.7	112.4	99.6	99.6	95.3	88.2	88.2	99.6	108.2	109.6
65°	465.2	231.9	91.1	85.4	83.9	76.8	69.7	68.3	76.8	81.1	79.6
67.5°	133.7	106.7	75.4	71.1	69.7	58.4	54.1	52.6	54.1	51.2	49.8
70°	79.6	72.6	58.4	59.7	52.6	42.6	38.4	37.0	34.1	29.9	27.0
72.5°	44.1	44.1	42.6	45.5	37.0	28.4	24.2	19.9	15.6	12.8	11.4
75°	27.0	28.4	29.9	31.3	24.2	18.5	15.6	9.9	5.7	2.9	2.9
77.5°	18.5	19.9	21.4	22.8	19.9	17.1	12.8	7.1	1.4	0.0	0.0
80°	14.2	15.6	18.5	19.9	21.4	22.8	17.1	7.1	1.4	0.0	0.0
82.5°	15.6	17.1	21.4	19.9	19.9	19.9	15.6	7.1	1.4	0.0	0.0
85°	2.9	4.3	7.1	7.1	9.9	12.8	9.9	2.9	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)