

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: P647824

Luminaire Tested: **GALN-SA3A-835-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647824  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3A-835-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9042.8 lumens  
Efficiency: N/A  
Efficacy: 97.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

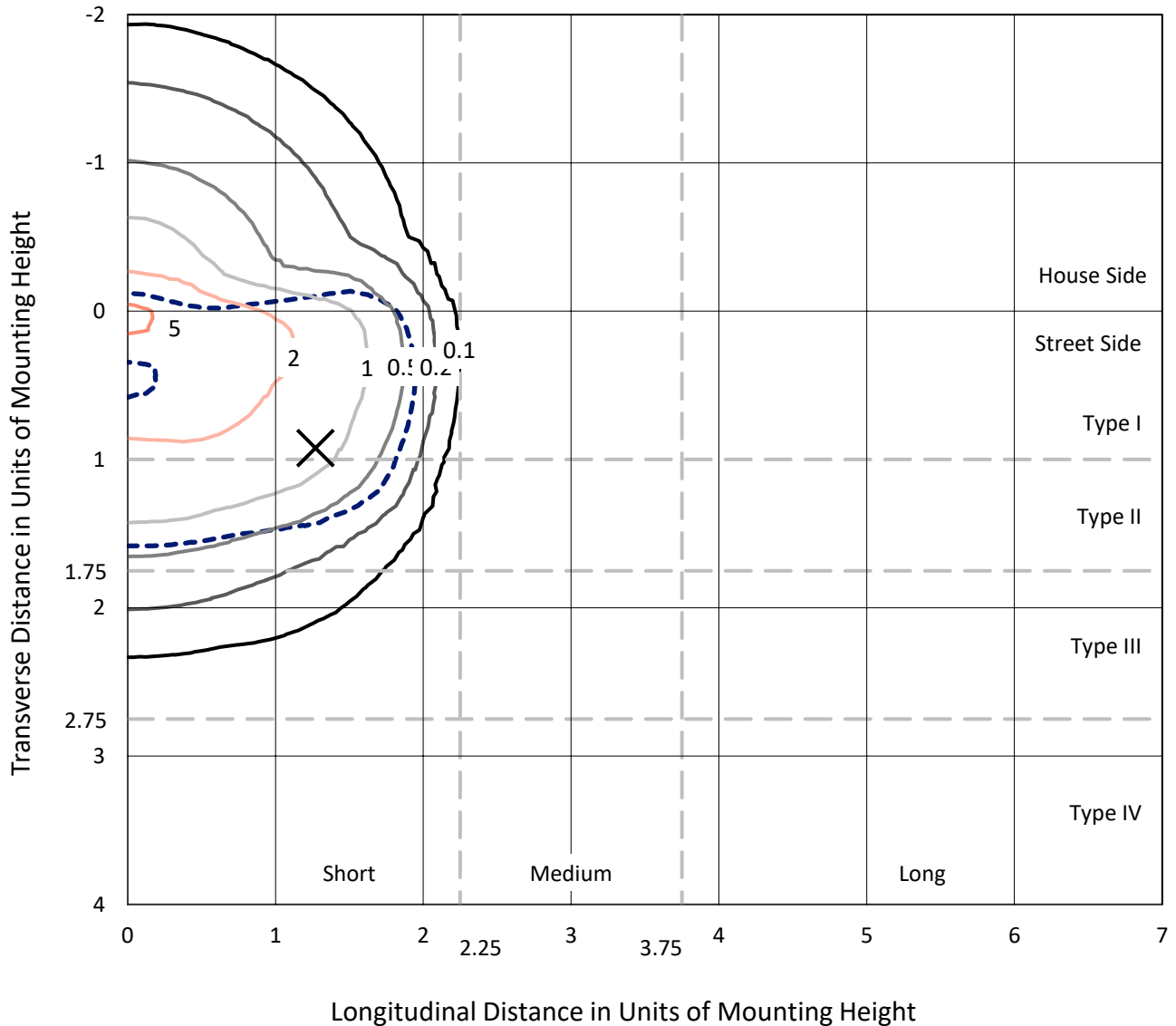
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

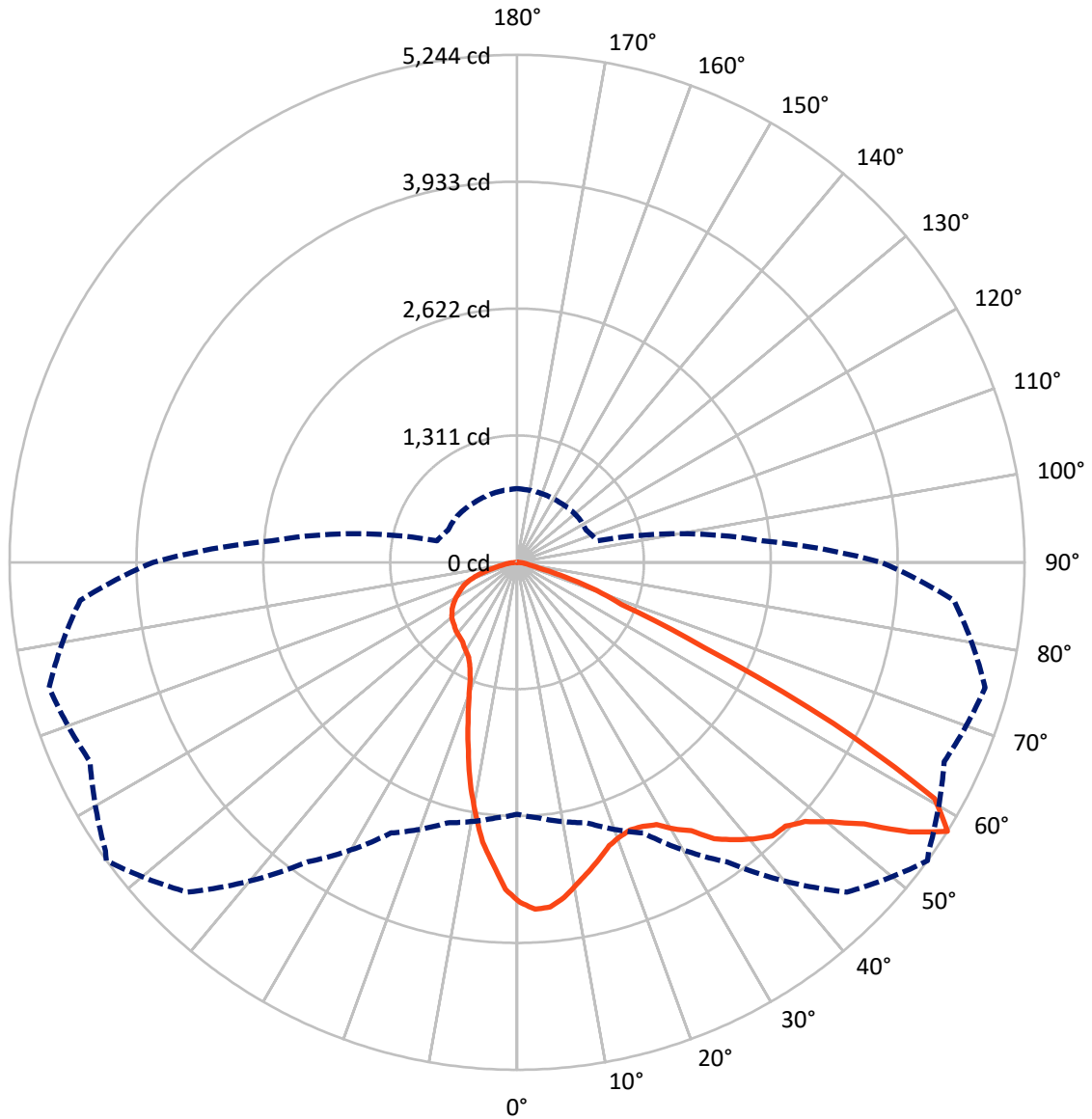
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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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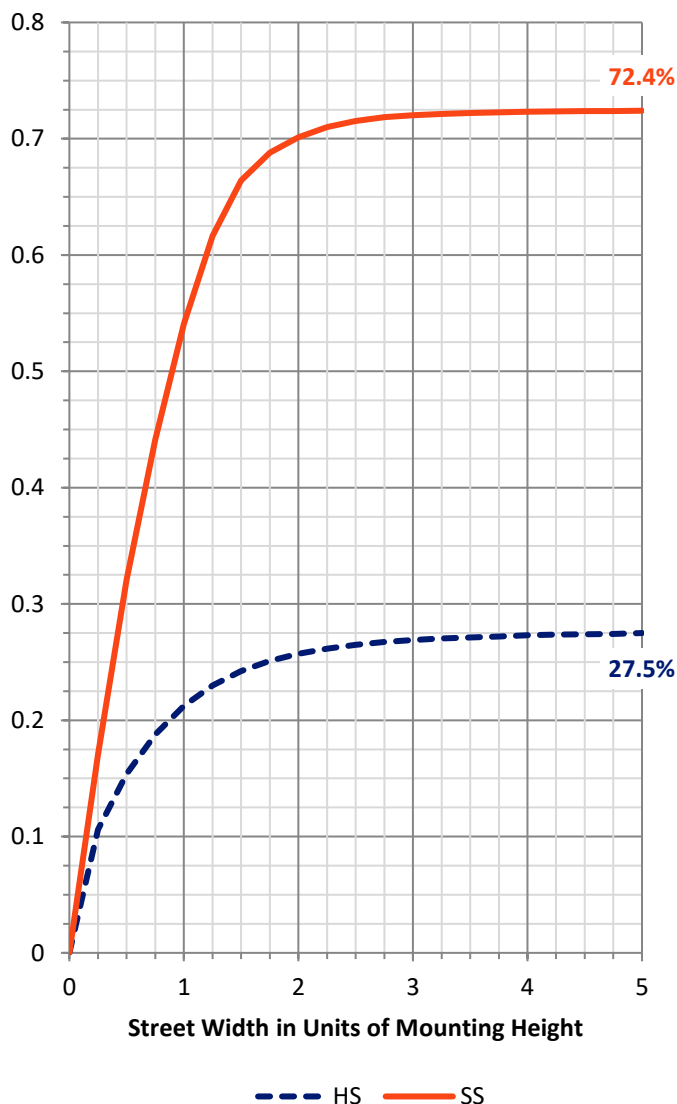
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2501.7	0.0	2501.7
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	6541.1	0.0	6541.1
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	9042.8	0.0	9042.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	303.1	3.4
10°-20°	701.8	7.8
20°-30°	986.1	10.9
30°-40°	1378.6	15.2
40°-50°	1866.3	20.6
50°-60°	2273.3	25.1
60°-70°	1184.0	13.1
70°-80°	303.4	3.4
80°-90°	46.3	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°	9042.8	100.0
0°-180°	9042.8	100.0

**Coefficient of Utilization**



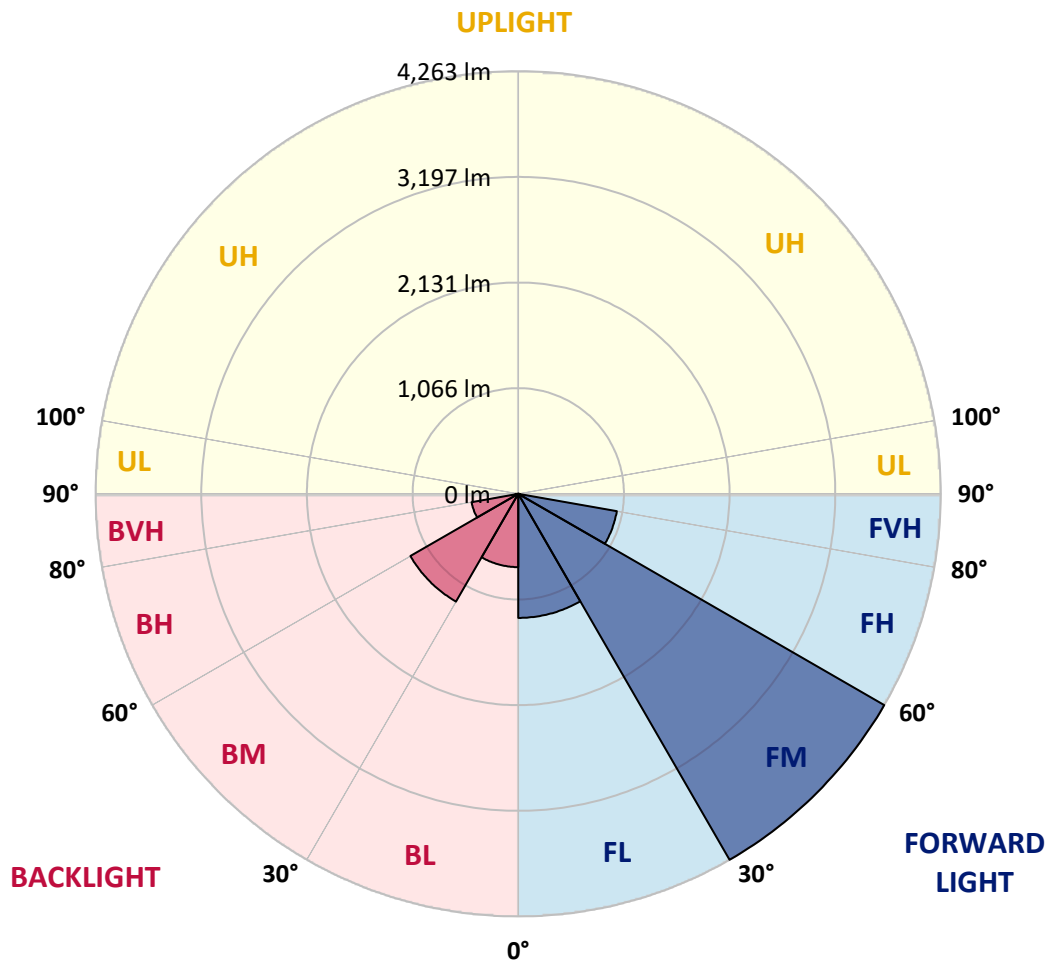
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1251.7	13.8			
FM (30°-60°)	4262.5	47.1			
FH (60°-80°)	1009.4	11.2			G1/1800
FVH (80°-90°)	17.5	0.2			G1/100
BL (0°-30°)	739.4	8.2	B2/1000		
BM (30°-60°)	1255.6	13.9	B2/2500		
BH (60°-80°)	478.0	5.3	B1/500		G1/500
BVH (80°-90°)	28.8	0.3			G1/100
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°	54°	55°	65°	75°	85°
0°	3514.9	3514.9	3514.9	3514.9	3514.9	3514.9	3514.9	3514.9	3514.9	3514.9	3514.9
2.5°	3614.8	3600.9	3603.2	3621.8	3598.5	3589.3	3589.3	3543.9	3547.4	3516.0	3507.9
5°	3531.1	3498.6	3520.7	3548.6	3553.3	3562.5	3577.6	3566.0	3533.4	3499.8	3445.1
7.5°	3312.6	3341.7	3349.8	3369.6	3411.4	3449.7	3497.4	3464.9	3463.7	3430.0	3397.4
10°	3120.8	3103.4	3147.6	3176.6	3246.4	3310.3	3383.5	3380.1	3397.4	3359.1	3303.3
12.5°	2930.2	2916.3	2937.2	3003.4	3101.1	3194.1	3281.2	3248.7	3341.7	3334.7	3215.0
15°	2728.0	2738.5	2768.6	2830.2	2958.1	3069.7	3180.1	3181.3	3263.8	3291.7	3131.3
17.5°	2586.2	2574.5	2612.9	2704.7	2818.6	2952.3	3077.8	3103.4	3230.1	3246.4	3105.7
20°	2480.4	2496.7	2546.6	2593.1	2724.4	2886.1	3027.9	3037.2	3223.1	3267.3	3065.1
22.5°	2454.8	2445.5	2461.8	2537.3	2645.4	2820.9	3001.1	3036.0	3222.0	3260.3	2988.3
25°	2428.1	2458.3	2457.1	2532.7	2611.7	2768.6	3023.2	3061.5	3283.6	3296.4	2998.8
27.5°	2488.5	2485.0	2517.6	2523.4	2621.0	2782.6	3069.7	3098.7	3385.8	3375.4	3007.0
30°	2549.0	2531.5	2551.3	2619.8	2665.2	2862.8	3197.5	3195.2	3518.3	3511.4	3032.5
32.5°	2623.4	2615.2	2628.0	2688.4	2765.2	2969.8	3305.7	3374.2	3653.2	3697.3	3120.8
35°	2637.3	2671.0	2701.3	2782.6	2891.9	3142.9	3509.0	3566.0	3808.9	3947.3	3289.4
37.5°	2725.6	2738.5	2809.3	2953.5	3053.4	3374.2	3638.1	3674.1	3950.7	4107.6	3467.2
40°	2819.8	2834.9	2941.8	3092.9	3230.1	3525.3	3758.9	3770.5	3996.0	4230.9	3583.4
42.5°	2947.7	2961.6	3067.4	3256.8	3440.5	3654.3	3865.9	3878.7	3992.6	4372.7	3768.3
45°	3080.2	3113.8	3238.3	3453.3	3618.3	3805.5	3890.3	3942.6	4025.1	4499.4	3918.2
47.5°	3266.1	3297.5	3399.8	3610.2	3803.1	3937.9	4003.0	4054.1	4103.0	4609.8	4014.7
50°	3463.7	3469.6	3593.9	3784.6	3926.4	4087.9	4213.4	4230.9	4205.3	4737.6	4178.6
52.5°	3609.0	3627.6	3724.1	3910.1	4121.6	4320.4	4492.4	4510.9	4461.0	4785.3	4234.3
55°	3368.4	3358.0	3514.9	3762.5	4252.9	4666.7	4916.6	4930.6	4646.9	4932.9	4416.8
57.5°	2603.6	2653.6	2787.2	3086.0	3778.7	4820.1	5244.4	5194.4	4870.1	5007.3	4533.0
60°	1892.3	1880.6	1970.1	2170.1	2847.7	4154.1	4958.4	5009.6	4687.7	4513.3	3738.0
62.5°	1541.3	1525.0	1531.9	1538.9	1837.6	2757.0	3670.6	3669.5	3610.2	3244.0	2521.1
65°	1232.1	1270.4	1273.9	1326.2	1364.5	1647.0	2127.0	2240.9	1951.5	1600.5	1161.2
67.5°	928.7	914.8	961.2	1147.2	1219.3	1189.1	1161.2	1174.0	834.5	602.0	567.2
70°	547.5	541.7	597.4	799.7	1004.3	945.0	875.2	876.4	573.0	420.8	468.4
72.5°	299.9	298.7	310.3	405.7	570.7	592.8	525.4	541.7	341.7	340.5	366.1
75°	167.4	163.9	160.4	179.0	205.7	217.4	222.0	224.3	234.8	262.7	273.1
77.5°	61.6	59.3	59.3	68.6	87.1	109.2	138.3	140.6	166.2	190.6	201.1
80°	20.9	23.3	31.4	43.0	58.1	77.9	94.1	96.5	117.4	133.7	137.2
82.5°	12.8	13.9	20.9	30.2	41.8	54.7	69.8	70.9	87.1	97.6	102.3
85°	5.8	7.0	11.6	18.6	26.7	36.0	37.2	37.2	36.0	37.2	34.8
87.5°	0.0	0.0	2.3	2.3	2.3	3.5	4.6	3.5	5.8	7.0	7.0
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°	3514.9	3514.9	3514.9	3514.9	3514.9	3514.9	3514.9	3514.9	3514.9	3514.9	3514.9
2.5°	3483.5	3470.7	3431.2	3396.3	3385.8	3339.3	3270.7	3278.9	3228.9	3252.2	3227.8
5°	3435.8	3392.8	3291.7	3248.7	3135.9	3084.8	3049.9	2962.8	2922.1	2913.9	2879.1
7.5°	3313.8	3287.0	3160.3	3044.1	2924.4	2822.1	2690.8	2601.3	2537.3	2519.9	2468.8
10°	3217.3	3158.0	2982.5	2805.9	2635.0	2457.1	2286.3	2152.6	2087.6	2012.0	1986.4
12.5°	3122.0	3032.5	2795.4	2568.7	2347.9	2123.6	1916.7	1753.9	1612.1	1578.4	1566.8
15°	3062.7	2907.0	2628.0	2354.9	2041.0	1748.1	1541.3	1434.3	1347.2	1311.1	1336.7
17.5°	2984.9	2803.5	2467.6	2103.8	1758.6	1489.0	1315.8	1249.5	1218.1	1221.6	1211.1
20°	2887.2	2705.9	2257.2	1876.0	1506.3	1291.3	1192.5	1168.2	1172.8	1180.9	1177.4
22.5°	2817.5	2587.3	2104.9	1643.5	1301.8	1182.1	1141.4	1124.0	1139.1	1146.1	1140.2
25°	2764.0	2486.2	1920.2	1437.8	1183.3	1120.5	1101.9	1100.7	1124.0	1133.2	1127.4
27.5°	2715.2	2392.1	1736.5	1280.9	1104.2	1072.8	1067.0	1080.9	1096.0	1105.4	1113.5
30°	2686.2	2320.0	1564.5	1149.5	1064.7	1049.6	1039.1	1051.9	1060.0	1069.3	1064.7
32.5°	2714.0	2268.8	1398.3	1075.1	1032.2	1017.0	1031.0	1022.8	1036.8	1044.9	1032.2
35°	2801.2	2223.5	1279.7	1035.6	995.0	1000.8	1003.1	999.6	1005.4	998.4	1013.5
37.5°	2887.2	2207.3	1170.4	1001.9	977.5	977.5	975.2	968.2	979.8	977.5	984.5
40°	2996.5	2217.7	1077.5	965.9	961.2	958.9	949.6	948.4	943.8	945.0	947.3
42.5°	3091.8	2240.9	1024.0	942.7	946.1	950.8	933.3	919.4	925.2	913.6	913.6
45°	3192.9	2261.9	976.3	926.4	922.8	921.7	907.8	899.7	895.0	896.1	906.6
47.5°	3352.1	2292.1	940.3	904.3	906.6	889.2	885.7	875.2	879.9	886.8	888.0
50°	3464.9	2356.0	912.4	878.7	886.8	875.2	854.3	849.6	849.6	861.3	859.0
52.5°	3543.9	2445.5	885.7	850.8	854.3	845.0	838.0	827.6	820.6	836.9	845.0
55°	3785.6	2594.3	878.7	827.6	826.4	817.1	804.3	793.9	790.4	792.7	809.0
57.5°	3762.5	2547.8	856.6	786.9	784.6	771.8	759.0	755.5	754.3	756.7	761.3
60°	3054.6	1881.8	764.8	740.4	736.9	734.6	721.8	707.8	700.9	707.8	702.0
62.5°	2021.3	1259.9	674.2	684.6	686.9	681.1	660.2	646.3	648.6	656.7	643.9
65°	992.6	740.4	611.4	639.2	641.6	625.3	605.6	589.3	581.1	588.1	582.3
67.5°	567.2	566.0	560.2	589.3	588.1	571.8	540.5	526.6	512.6	514.9	511.5
70°	481.2	490.5	502.1	519.5	518.4	499.8	462.6	452.1	432.4	430.0	424.2
72.5°	378.9	395.2	420.8	433.5	423.1	399.8	375.4	358.0	340.5	330.1	333.6
75°	281.3	304.5	318.4	326.6	310.3	297.5	277.8	256.9	235.9	226.7	223.2
77.5°	204.6	211.6	224.3	230.1	219.7	206.9	195.3	174.4	154.6	141.8	138.3
80°	143.0	147.6	156.9	156.9	156.9	151.1	136.0	115.1	102.3	90.7	88.3
82.5°	100.0	104.6	113.9	109.2	108.1	101.1	91.8	75.6	61.6	53.5	51.1
85°	34.8	38.4	46.5	55.8	59.3	58.1	52.3	41.8	32.6	26.7	24.4
87.5°	8.1	8.1	9.3	8.1	8.1	9.3	8.1	8.1	8.1	5.8	4.6
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)