

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: P652224

Luminaire Tested: **GALN-SA2B-840-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652224
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-SA2B-840-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 800mA 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: 8141.7 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

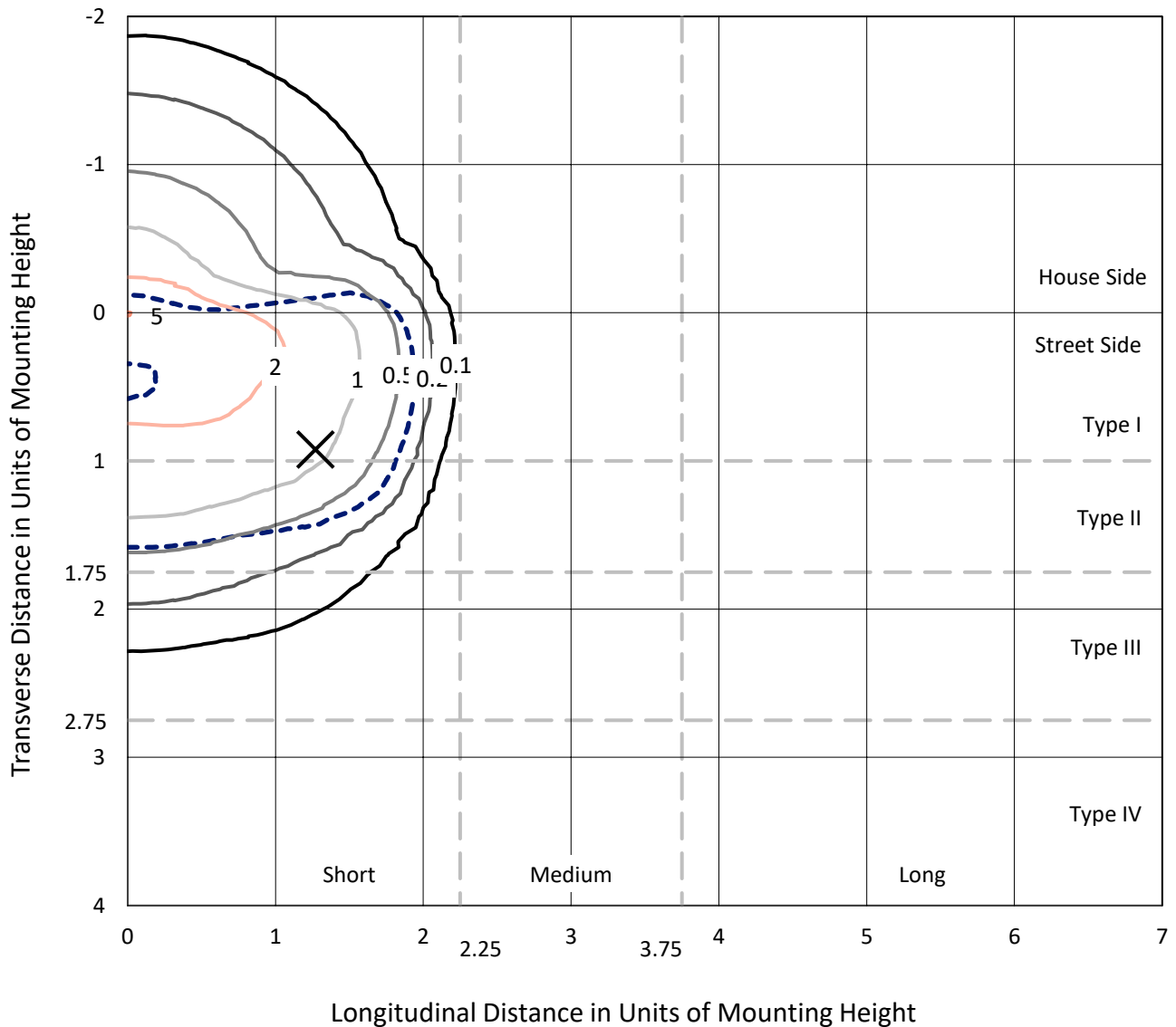
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

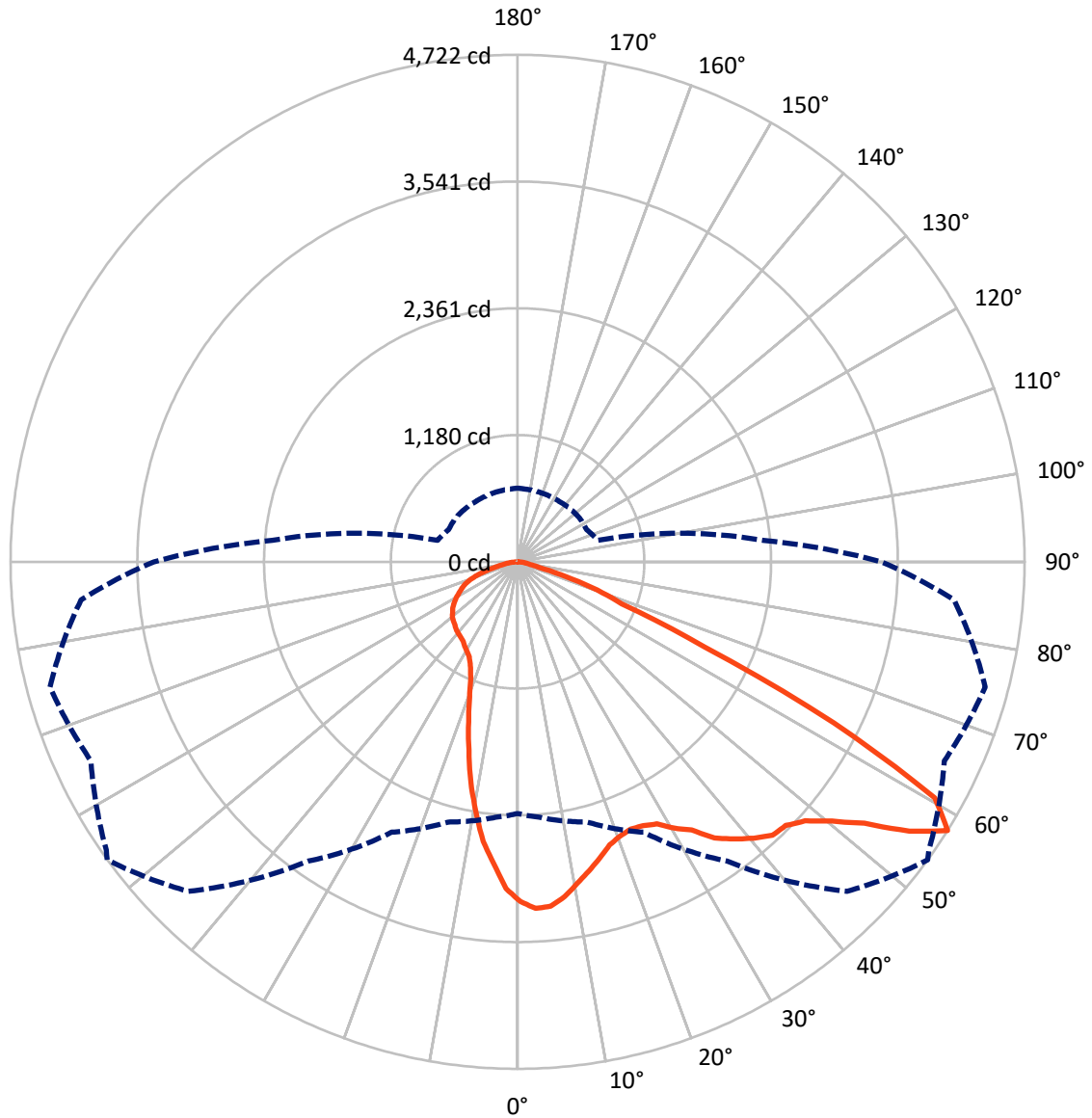
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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
House Side	Lumens	2252.5	0.0	2252.5
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	5889.3	0.0	5889.3
	% Fixture	72.3	0.0	72.3
Total	Lumens	8141.7	0.0	8141.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.9	3.4
10°-20°	631.9	7.8
20°-30°	887.8	10.9
30°-40°	1241.2	15.2
40°-50°	1680.3	20.6
50°-60°	2046.7	25.1
60°-70°	1066.0	13.1
70°-80°	273.2	3.4
80°-90°	41.7	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°	8141.7	100.0
0°-180°	8141.7	100.0



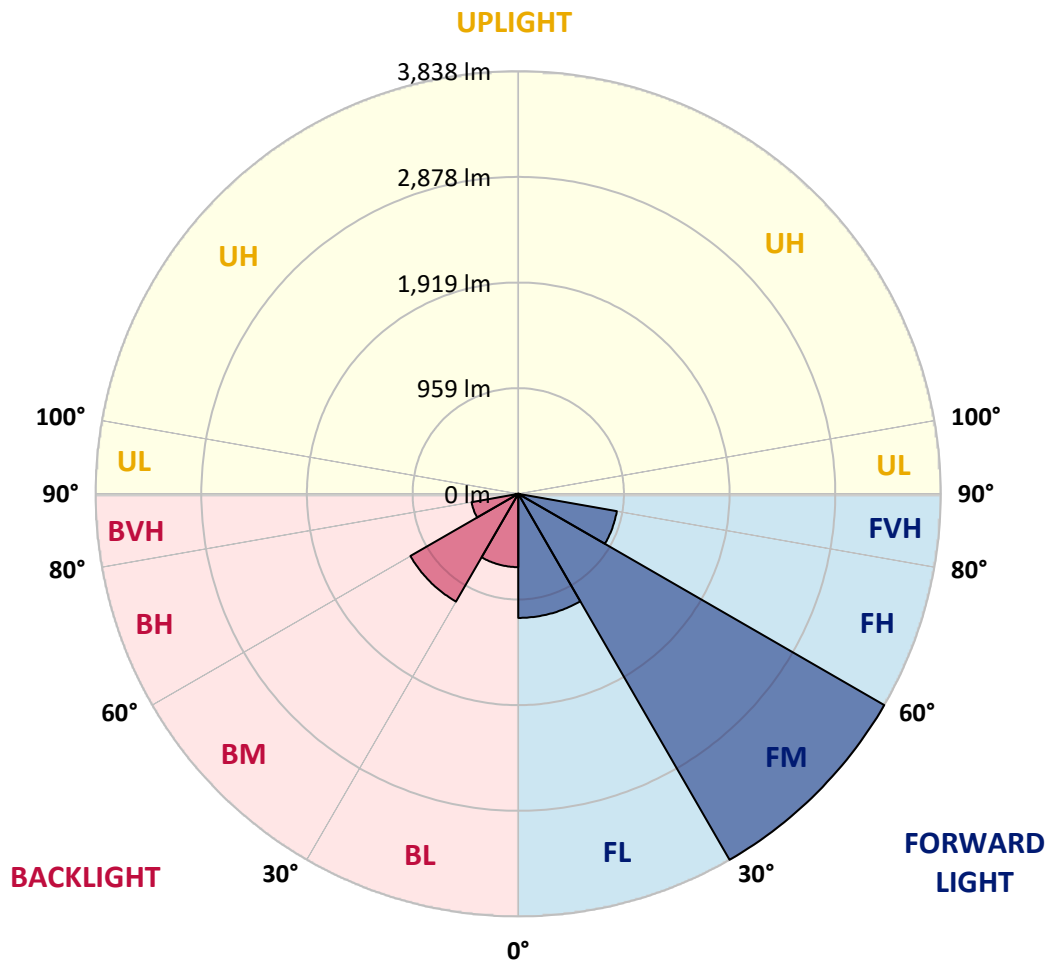
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1126.9	13.8			
FM (30°-60°)	3837.8	47.1			
FH (60°-80°)	908.9	11.2			G1/1800
FVH (80°-90°)	15.7	0.2			G1/100
BL (0°-30°)	665.7	8.2	B2/1000		
BM (30°-60°)	1130.5	13.9	B2/2500		
BH (60°-80°)	430.3	5.3	B1/500		G1/500
BVH (80°-90°)	25.9	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°	3164.6	3164.6	3164.6	3164.6	3164.6	3164.6	3164.6	3164.6	3164.6	3164.6	3164.6
2.5°	3254.6	3242.1	3244.2	3260.9	3240.0	3231.5	3231.5	3190.8	3193.9	3165.6	3158.3
5°	3179.2	3150.0	3169.8	3195.0	3199.2	3207.5	3221.1	3210.6	3181.3	3151.0	3101.8
7.5°	2982.5	3008.7	3016.0	3033.8	3071.4	3106.0	3148.9	3119.6	3118.5	3088.2	3058.9
10°	2809.9	2794.1	2833.9	2860.1	2922.9	2980.4	3046.4	3043.2	3058.9	3024.4	2974.1
12.5°	2638.2	2625.7	2644.5	2704.2	2792.0	2875.8	2954.3	2924.9	3008.7	3002.4	2894.6
15°	2456.1	2465.6	2492.7	2548.2	2663.4	2763.8	2863.2	2864.3	2938.5	2963.7	2819.3
17.5°	2328.5	2318.0	2352.5	2435.2	2537.7	2658.1	2771.1	2794.1	2908.2	2922.9	2796.2
20°	2233.2	2247.8	2292.9	2334.7	2452.9	2598.4	2726.1	2734.5	2902.0	2941.6	2759.6
22.5°	2210.2	2201.8	2216.5	2284.5	2381.8	2539.8	2702.0	2733.4	2900.9	2935.4	2690.5
25°	2186.1	2213.3	2212.3	2280.3	2351.4	2492.7	2721.9	2756.5	2956.4	2967.9	2699.9
27.5°	2240.5	2237.4	2266.7	2272.0	2359.8	2505.3	2763.8	2789.9	3048.5	3039.0	2707.3
30°	2294.9	2279.3	2297.0	2358.8	2399.6	2577.5	2878.9	2876.8	3167.7	3161.5	2730.3
32.5°	2361.9	2354.6	2366.2	2420.6	2489.6	2673.8	2976.2	3037.9	3289.2	3328.9	2809.9
35°	2374.5	2404.8	2432.1	2505.3	2603.7	2829.7	3159.4	3210.6	3429.3	3553.9	2961.6
37.5°	2454.0	2465.6	2529.4	2659.2	2749.1	3037.9	3275.5	3308.0	3557.0	3698.3	3121.7
40°	2538.8	2552.4	2648.6	2784.7	2908.2	3174.0	3384.4	3394.8	3597.9	3809.2	3226.3
42.5°	2653.9	2666.5	2761.7	2932.2	3097.7	3290.2	3480.6	3492.2	3594.7	3936.9	3392.8
45°	2773.2	2803.6	2915.5	3109.1	3257.7	3426.2	3502.6	3549.7	3624.0	4051.0	3527.7
47.5°	2940.6	2968.9	3061.0	3250.4	3424.1	3545.5	3604.1	3650.2	3694.1	4150.4	3614.6
50°	3118.5	3123.8	3235.7	3407.4	3535.1	3680.6	3793.5	3809.2	3786.2	4265.5	3762.1
52.5°	3249.4	3266.1	3353.0	3520.4	3710.8	3889.8	4044.7	4061.4	4016.4	4308.4	3812.3
55°	3032.7	3023.3	3164.6	3387.5	3829.2	4201.6	4426.7	4439.2	4183.9	4441.3	3976.7
57.5°	2344.1	2389.1	2509.5	2778.4	3402.2	4339.8	4721.8	4676.8	4384.8	4508.3	4081.3
60°	1703.7	1693.2	1773.8	1953.8	2563.9	3740.2	4464.4	4510.4	4220.5	4063.5	3365.5
62.5°	1387.6	1373.0	1379.2	1385.5	1654.5	2482.3	3304.8	3303.8	3250.4	2920.8	2269.9
65°	1109.3	1143.8	1147.0	1194.1	1228.6	1482.9	1915.0	2017.6	1757.1	1441.1	1045.4
67.5°	836.1	823.6	865.5	1032.9	1097.8	1070.6	1045.4	1057.0	751.3	542.1	510.7
70°	492.9	487.7	537.9	720.0	904.2	850.8	788.0	789.0	516.0	378.9	421.8
72.5°	270.0	269.0	279.4	365.2	513.9	533.7	473.0	487.7	307.6	306.6	329.7
75°	150.7	147.6	144.4	161.1	185.2	195.7	199.9	202.0	211.4	236.5	245.9
77.5°	55.5	53.4	53.4	61.7	78.5	98.4	124.6	126.7	149.6	171.6	181.1
80°	18.8	20.9	28.3	38.7	52.3	70.1	84.8	86.9	105.7	120.3	123.5
82.5°	11.5	12.5	18.8	27.2	37.7	49.2	62.8	63.8	78.5	87.9	92.1
85°	5.2	6.3	10.4	16.7	24.1	32.5	33.5	33.5	32.5	33.5	31.4
87.5°	0.0	0.0	2.1	2.1	2.1	3.1	4.2	3.1	5.2	6.3	6.3
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°	3164.6	3164.6	3164.6	3164.6	3164.6	3164.6	3164.6	3164.6	3164.6	3164.6	3164.6
2.5°	3136.3	3124.8	3089.2	3057.9	3048.5	3006.6	2944.8	2952.2	2907.2	2928.1	2906.1
5°	3093.5	3054.7	2963.7	2924.9	2823.4	2777.4	2746.0	2667.5	2630.9	2623.6	2592.1
7.5°	2983.5	2959.5	2845.4	2740.7	2633.0	2540.9	2422.7	2342.0	2284.5	2268.8	2222.8
10°	2896.7	2843.3	2685.3	2526.2	2372.4	2212.3	2058.4	1938.1	1879.5	1811.5	1788.5
12.5°	2810.9	2730.3	2516.8	2312.8	2113.9	1911.9	1725.6	1579.1	1451.5	1421.1	1410.7
15°	2757.5	2617.3	2366.2	2120.2	1837.7	1573.9	1387.6	1291.4	1212.9	1180.4	1203.5
17.5°	2687.4	2524.2	2221.7	1894.2	1583.4	1340.6	1184.6	1125.0	1096.7	1099.9	1090.4
20°	2599.4	2436.2	2032.3	1689.1	1356.3	1162.7	1073.7	1051.8	1055.9	1063.3	1060.1
22.5°	2536.7	2329.5	1895.2	1479.7	1172.1	1064.3	1027.6	1012.0	1025.6	1031.8	1026.6
25°	2488.5	2238.5	1728.8	1294.6	1065.3	1008.8	992.0	991.0	1012.0	1020.3	1015.1
27.5°	2444.6	2153.7	1563.4	1153.3	994.1	965.9	960.7	973.2	986.8	995.2	1002.6
30°	2418.5	2088.8	1408.6	1035.0	958.6	944.9	935.5	947.1	954.4	962.8	958.6
32.5°	2443.5	2042.8	1258.9	968.0	929.3	915.7	928.2	920.9	933.5	940.8	929.3
35°	2522.1	2001.9	1152.2	932.4	895.8	901.0	903.1	900.0	905.3	898.9	912.6
37.5°	2599.4	1987.3	1053.9	902.1	880.1	880.1	878.0	871.7	882.2	880.1	886.4
40°	2697.8	1996.7	970.1	869.6	865.5	863.4	855.0	854.0	849.7	850.8	852.9
42.5°	2783.7	2017.6	922.0	848.7	851.8	856.1	840.3	827.8	833.0	822.6	822.6
45°	2874.7	2036.5	879.0	834.0	830.9	829.9	817.3	810.0	805.8	806.9	816.3
47.5°	3018.1	2063.6	846.6	814.2	816.3	800.5	797.4	788.0	792.2	798.4	799.5
50°	3119.6	2121.3	821.5	791.1	798.4	788.0	769.2	765.0	765.0	775.5	773.4
52.5°	3190.8	2201.8	797.4	766.1	769.2	760.8	754.5	745.1	738.8	753.5	760.8
55°	3408.4	2335.8	791.1	745.1	744.0	735.7	724.2	714.8	711.7	713.7	728.4
57.5°	3387.5	2293.9	771.3	708.5	706.4	694.8	683.4	680.2	679.2	681.3	685.4
60°	2750.2	1694.3	688.6	666.6	663.5	661.4	649.8	637.3	631.0	637.3	632.1
62.5°	1819.8	1134.4	606.9	616.4	618.5	613.3	594.4	581.9	583.9	591.3	579.8
65°	893.7	666.6	550.4	575.6	577.7	563.0	545.2	530.6	523.3	529.5	524.3
67.5°	510.7	509.6	504.4	530.6	529.5	514.9	486.6	474.1	461.5	463.6	460.4
70°	433.3	441.6	452.1	467.8	466.8	450.0	416.5	407.0	389.3	387.2	382.0
72.5°	341.2	355.8	378.9	390.3	380.9	360.0	338.0	322.4	306.6	297.2	300.3
75°	253.2	274.2	286.8	294.1	279.4	267.9	250.1	231.3	212.4	204.0	200.9
77.5°	184.2	190.5	202.0	207.2	197.8	186.3	175.8	157.0	139.2	127.7	124.6
80°	128.8	132.9	141.3	141.3	141.3	136.1	122.4	103.6	92.1	81.7	79.6
82.5°	90.0	94.2	102.5	98.4	97.3	91.1	82.7	68.0	55.5	48.1	46.1
85°	31.4	34.6	41.9	50.2	53.4	52.3	47.1	37.7	29.3	24.1	22.0
87.5°	7.3	7.3	8.4	7.3	7.3	8.4	7.3	7.3	7.3	5.2	4.2
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)