

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: P648462

Luminaire Tested: **GALN-SA5B-835-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P648462
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-835-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22328.8 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

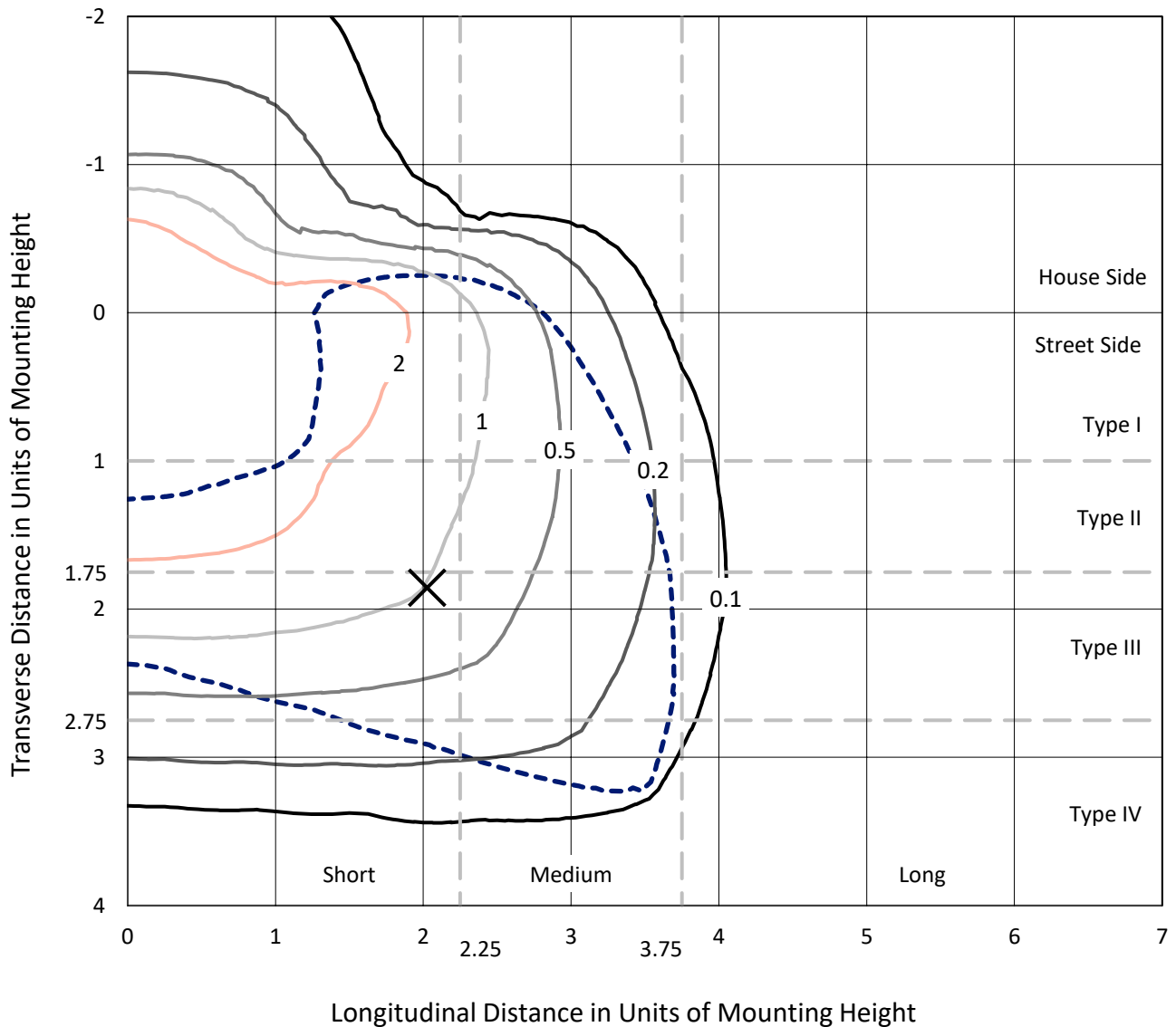
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

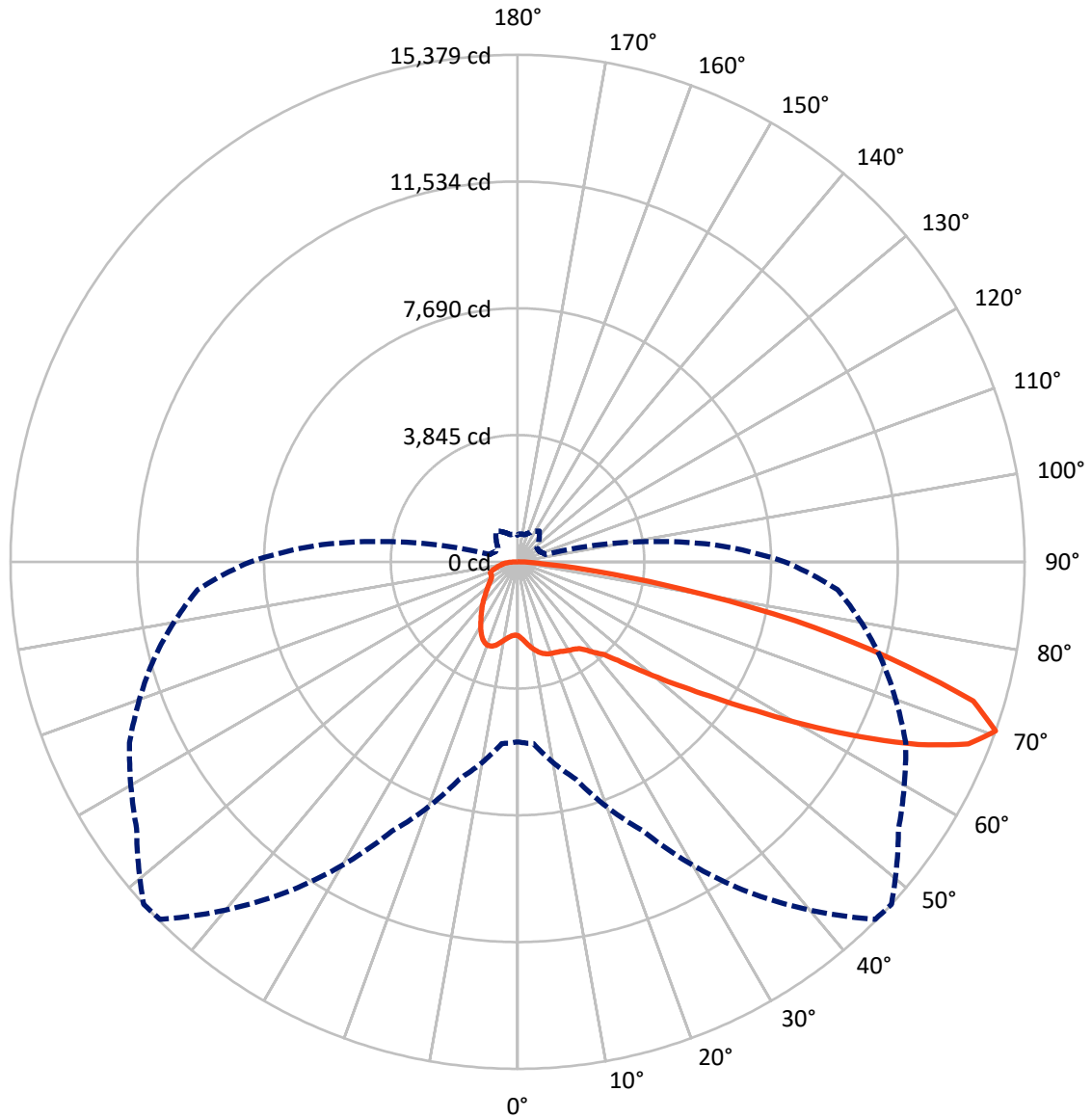
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5055.7	0.0	5055.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	17273.1	0.0	17273.1
	% Fixture	77.4	0.0	77.4
Total	Lumens	22328.8	0.0	22328.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.1	1.0
10°-20°	772.4	3.5
20°-30°	1284.6	5.8
30°-40°	1820.7	8.2
40°-50°	2687.7	12.0
50°-60°	4655.2	20.8
60°-70°	6575.6	29.4
70°-80°	3780.0	16.9
80°-90°	521.6	2.3
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°	22328.8	100.0
0°-180°	22328.8	100.0

Coefficient of Utilization

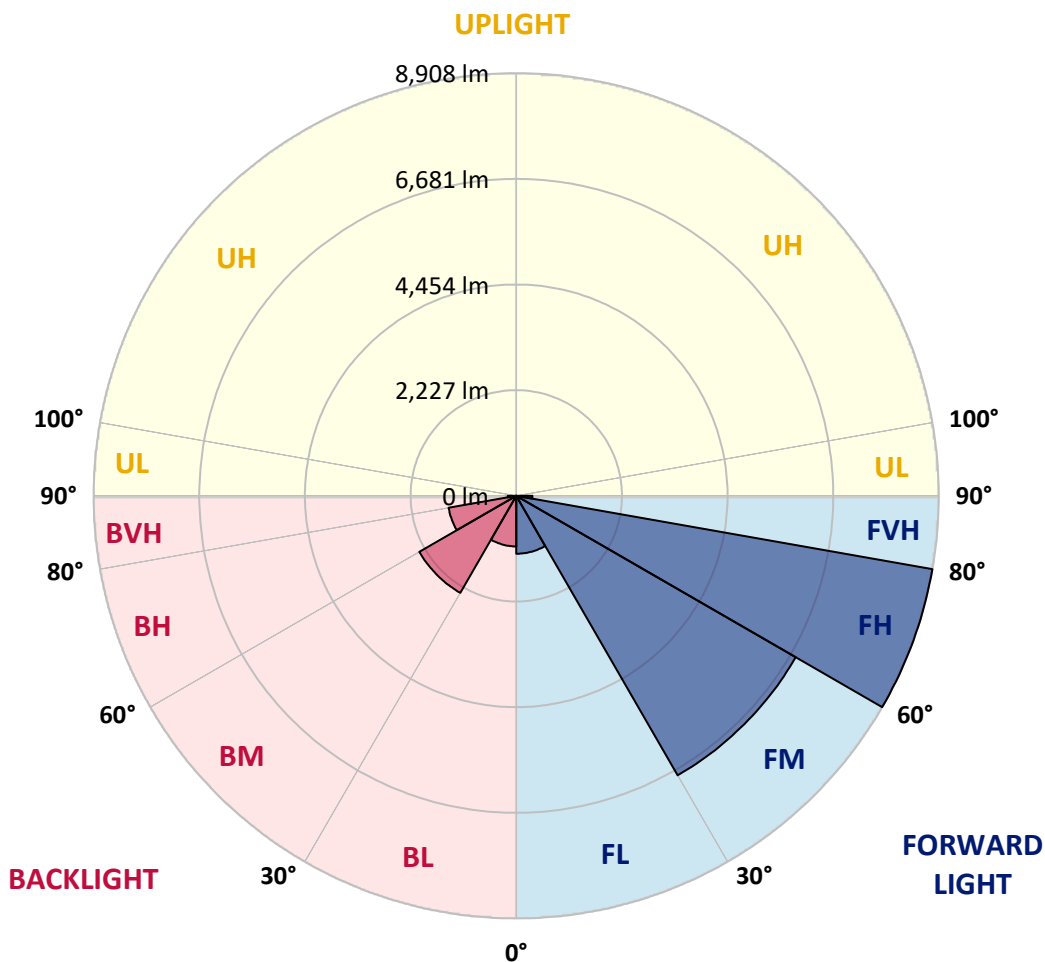


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1221.0	5.5			
FM (30°-60°)	6803.2	30.5			
FH (60°-80°)	8908.3	39.9			G4/12000
FVH (80°-90°)	340.7	1.5			G3/500
BL (0°-30°)	1067.0	4.8	B3/2500		
BM (30°-60°)	2360.4	10.6	B2/2500		
BH (60°-80°)	1447.4	6.5	B3/2500		G3/2500
BVH (80°-90°)	180.9	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	2241.6	2241.6	2241.6	2241.6	2241.6	2241.6	2241.6	2241.6	2241.6	2241.6	2241.6
2.5°	2386.1	2377.7	2376.6	2358.6	2349.1	2331.1	2324.0	2307.3	2287.0	2266.6	2247.5
5°	2573.7	2573.7	2565.3	2540.3	2500.8	2460.2	2442.3	2410.0	2352.7	2306.1	2266.6
7.5°	2766.1	2768.5	2751.8	2714.7	2658.5	2592.8	2576.1	2528.3	2447.0	2379.0	2320.4
10°	2932.2	2932.2	2909.5	2859.3	2788.8	2717.1	2700.3	2646.6	2555.8	2471.0	2394.5
12.5°	3058.8	3058.8	3029.0	2963.3	2886.8	2822.2	2803.1	2751.8	2666.9	2572.5	2475.8
15°	3141.2	3135.3	3101.9	3027.8	2953.7	2897.5	2884.3	2841.4	2763.7	2668.1	2559.4
17.5°	3144.8	3142.5	3110.2	3048.1	2983.5	2945.3	2937.0	2908.3	2847.3	2756.6	2641.8
20°	3075.5	3080.3	3058.8	3014.6	2983.5	2966.8	2963.3	2953.7	2910.6	2825.8	2711.1
22.5°	3001.5	3009.9	2989.5	2965.6	2963.3	2979.9	2982.4	2984.7	2957.2	2874.8	2769.7
25°	2983.5	2989.5	2969.2	2947.7	2960.8	3005.1	3014.6	3024.2	3002.6	2933.4	2839.0
27.5°	3074.4	3069.6	3030.1	2983.5	2991.9	3051.7	3064.8	3075.5	3064.8	3005.1	2925.0
30°	3331.3	3315.7	3236.8	3100.7	3057.6	3099.4	3112.6	3142.5	3142.5	3098.3	3018.2
32.5°	3761.4	3731.5	3586.9	3319.3	3170.0	3144.8	3158.0	3207.0	3232.1	3197.5	3110.2
35°	4283.6	4252.5	4045.8	3686.1	3375.4	3235.7	3232.1	3287.0	3354.0	3276.3	3162.8
37.5°	4808.1	4775.8	4527.3	4123.4	3675.4	3426.8	3405.3	3424.5	3453.1	3310.9	3235.7
40°	5332.6	5294.4	5076.9	4612.1	4042.2	3680.2	3624.0	3538.0	3526.0	3424.5	3376.7
42.5°	5852.4	5817.8	5707.8	5160.6	4481.9	3927.4	3841.5	3693.3	3738.7	3677.8	3635.9
45°	6376.9	6379.3	6262.2	5776.0	5012.4	4383.9	4268.0	4036.2	4143.7	4121.1	4145.0
47.5°	6841.7	6835.7	6793.9	6373.3	5670.8	4971.8	4822.4	4553.6	4737.6	4821.2	5004.1
50°	7292.2	7288.6	7291.0	7050.8	6435.5	5670.8	5505.9	5223.9	5638.5	5928.9	6256.2
52.5°	7937.4	7957.7	7813.2	7749.8	7365.1	6496.4	6314.8	6023.2	6703.1	7160.8	7800.0
55°	8585.0	8568.3	8454.8	8520.5	8337.7	7473.8	7283.9	7052.0	7888.4	8389.1	9349.7
57.5°	8966.2	8972.2	9088.0	9409.5	9538.5	8692.6	8520.5	8341.3	9220.7	9575.5	10728.6
60°	9309.1	9336.6	9670.0	10277.0	10627.0	10189.7	10036.7	9862.3	10443.0	10584.0	11925.8
62.5°	9416.7	9501.5	10083.4	10991.4	11688.1	11879.2	11689.3	11304.5	11606.8	11551.8	12737.1
65°	8880.2	8996.0	10039.2	11259.1	12635.6	13482.7	13362.1	12647.5	12598.5	12267.6	12869.8
67.5°	7467.9	7583.7	8923.1	10697.5	13027.5	14871.1	14750.5	13627.3	13200.8	12334.4	11866.1
70°	5464.1	5537.0	6817.8	9006.8	12240.1	15337.2	15379.0	14105.3	12985.7	11425.1	9742.9
72.5°	3148.4	3309.7	4207.1	6336.3	9999.7	14159.0	14449.3	13111.1	11625.9	9531.3	6811.9
75°	1353.8	1357.3	1945.2	3494.9	6772.4	11381.0	11661.8	10868.4	9129.9	6590.8	3637.1
77.5°	644.0	656.0	855.5	1560.4	3727.9	7863.4	8620.8	7678.1	5839.2	3166.4	1374.1
80°	418.2	426.6	523.4	774.2	1828.1	4559.6	5087.7	4429.4	2576.1	1131.5	592.7
82.5°	253.3	255.7	350.1	473.2	1006.1	2064.7	2433.9	1922.5	1099.3	677.5	348.9
85°	154.2	155.3	212.7	292.8	610.6	713.3	732.4	726.5	645.2	443.3	186.4
87.5°	74.1	76.5	109.9	138.6	240.1	221.0	209.1	242.6	304.7	239.0	80.0
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°	2241.6	2241.6	2241.6	2241.6	2241.6	2241.6	2241.6	2241.6	2241.6	2241.6	2241.6
2.5°	2239.1	2235.5	2227.2	2223.6	2221.2	2222.4	2221.2	2221.2	2222.4	2222.4	2222.4
5°	2249.9	2243.9	2230.8	2230.8	2238.0	2254.6	2270.2	2282.1	2295.3	2294.1	2294.1
7.5°	2296.5	2285.7	2270.2	2275.0	2292.9	2319.2	2346.7	2373.0	2399.3	2401.6	2400.4
10°	2364.6	2353.9	2337.1	2343.1	2371.8	2411.2	2445.9	2484.1	2512.8	2521.1	2518.8
12.5°	2442.3	2420.8	2406.5	2423.2	2468.6	2521.1	2554.6	2583.3	2603.6	2615.5	2610.8
15°	2521.1	2500.8	2484.1	2518.8	2573.7	2622.7	2639.4	2644.2	2647.8	2659.8	2657.3
17.5°	2597.6	2570.1	2564.2	2609.6	2662.1	2683.7	2674.1	2653.7	2638.2	2647.8	2646.6
20°	2665.7	2644.2	2641.8	2687.3	2707.5	2687.3	2646.6	2610.8	2583.3	2585.6	2584.4
22.5°	2730.2	2713.5	2715.9	2735.0	2702.8	2633.5	2566.5	2517.6	2487.7	2493.6	2497.2
25°	2802.0	2785.2	2791.2	2760.1	2653.7	2533.1	2436.3	2394.5	2382.5	2394.5	2402.9
27.5°	2895.1	2884.3	2880.8	2761.3	2566.5	2384.9	2275.0	2259.5	2270.2	2296.5	2309.6
30°	2995.5	2995.5	2976.3	2741.0	2447.0	2206.9	2111.3	2113.7	2150.7	2187.8	2200.9
32.5°	3092.3	3112.6	3052.8	2686.0	2292.9	2033.6	1960.8	1963.1	1995.4	2040.8	2052.8
35°	3172.3	3230.9	3118.5	2585.6	2111.3	1887.9	1832.9	1800.7	1801.8	1836.5	1846.1
37.5°	3282.3	3391.0	3156.8	2436.3	1917.7	1763.6	1701.5	1645.3	1608.3	1594.0	1594.0
40°	3473.5	3633.5	3166.4	2215.3	1734.9	1645.3	1556.9	1490.0	1418.3	1353.8	1341.8
42.5°	3797.2	3999.2	3147.3	1960.8	1570.1	1515.1	1429.1	1346.6	1247.4	1156.6	1149.4
45°	4370.8	4474.7	3095.8	1696.7	1423.1	1389.6	1306.0	1216.4	1111.2	1030.0	1024.0
47.5°	5289.6	5142.7	3027.8	1462.5	1289.2	1279.7	1215.1	1111.2	1006.1	949.9	943.9
50°	6631.5	6194.1	3018.2	1292.8	1181.7	1186.5	1133.9	1038.3	946.3	899.7	892.5
52.5°	8246.9	7464.3	3081.5	1173.3	1087.4	1105.2	1079.0	990.5	909.3	869.8	862.7
55°	9814.5	8606.5	3119.8	1080.1	998.9	1032.4	1035.9	961.8	887.8	848.4	843.6
57.5°	11087.0	9466.8	2950.1	995.3	922.5	973.8	1000.1	945.2	877.0	847.1	842.4
60°	11972.5	9873.1	2467.4	920.0	866.2	927.2	987.0	946.3	903.3	906.9	909.3
62.5°	12254.4	9692.7	1850.9	863.9	828.0	911.6	1008.4	995.3	951.1	978.6	983.4
65°	11787.2	8947.0	1341.8	819.6	794.6	922.5	1072.9	1031.1	934.4	954.7	954.7
67.5°	10223.2	7708.0	1044.3	779.0	756.4	942.7	1137.5	1027.6	895.0	918.9	897.3
70°	8109.5	5962.3	869.8	733.7	715.7	912.9	1143.5	990.5	848.4	853.2	812.5
72.5°	5381.6	3920.3	748.0	690.6	653.6	820.9	1094.5	942.7	803.0	775.5	734.8
75°	2637.1	1954.8	652.4	636.9	572.4	714.5	1027.6	897.3	754.0	711.0	688.3
77.5°	1021.6	831.6	556.8	568.8	498.2	629.7	939.1	832.8	689.4	630.9	612.9
80°	495.9	472.0	456.4	474.3	409.8	536.5	857.9	776.7	629.7	565.2	538.9
82.5°	308.3	291.5	350.1	369.2	315.5	489.9	813.7	728.9	554.4	468.4	446.9
85°	156.5	167.2	234.2	252.1	225.8	389.5	670.3	547.2	400.3	332.1	334.6
87.5°	59.7	80.0	123.1	132.6	120.7	205.5	369.2	319.0	256.9	174.5	161.3
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)