

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: P522794

Luminaire Tested: **GALN-SA6A-727-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522794  
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-SA6A-727-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22696 lumens  
Efficiency: N/A  
Efficacy: 124.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

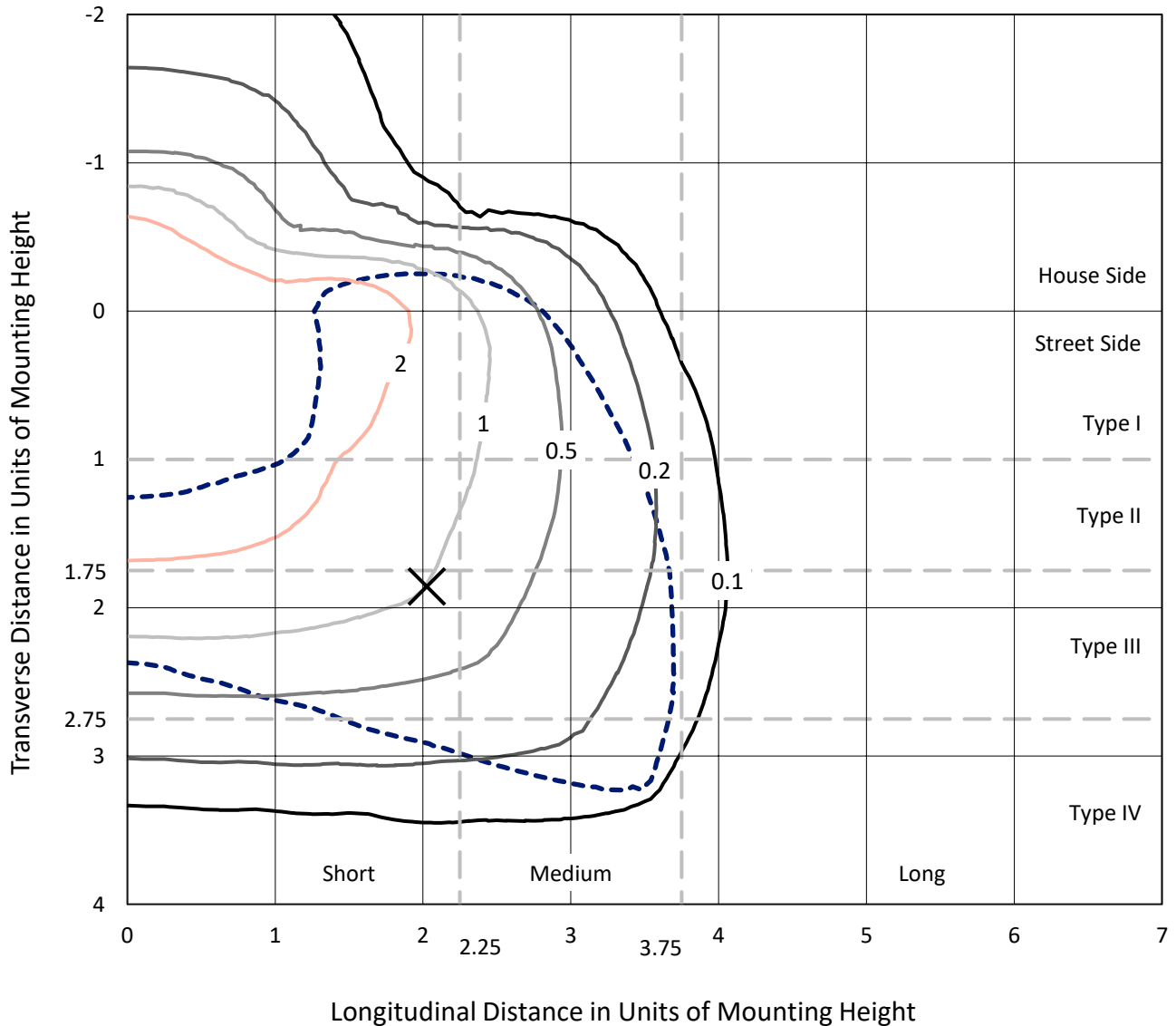
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

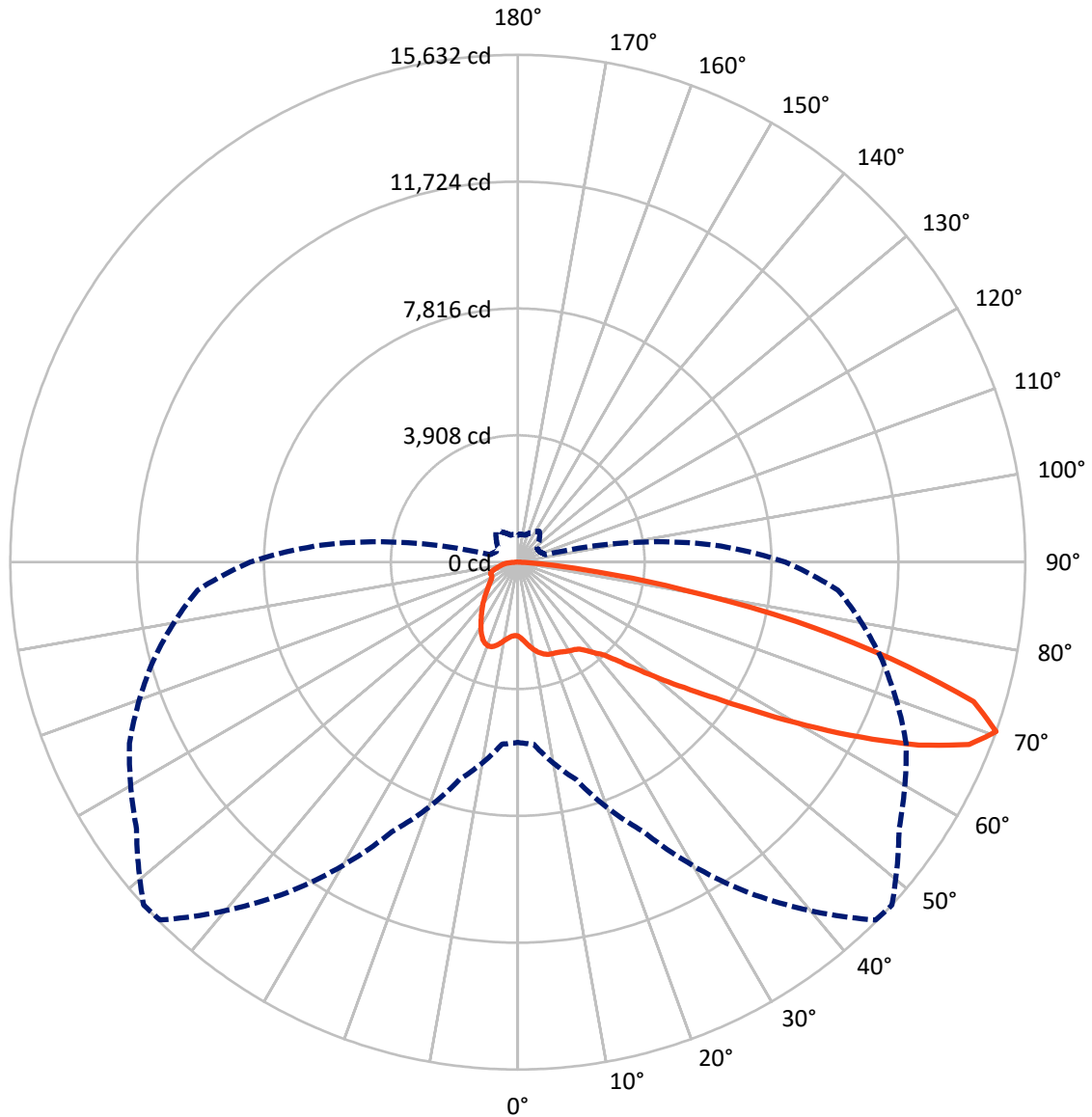
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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
<b>House Side</b>	Lumens	5138.8	0.0	5138.8
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	17557.2	0.0	17557.2
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	22696.0	0.0	22696.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	234.9	1.0
10°-20°	785.1	3.5
20°-30°	1305.7	5.8
30°-40°	1850.6	8.2
40°-50°	2731.9	12.0
50°-60°	4731.8	20.8
60°-70°	6683.8	29.4
70°-80°	3842.2	16.9
80°-90°	530.1	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°	22696.0	100.0
0°-180°	22696.0	100.0

**Coefficient of Utilization**



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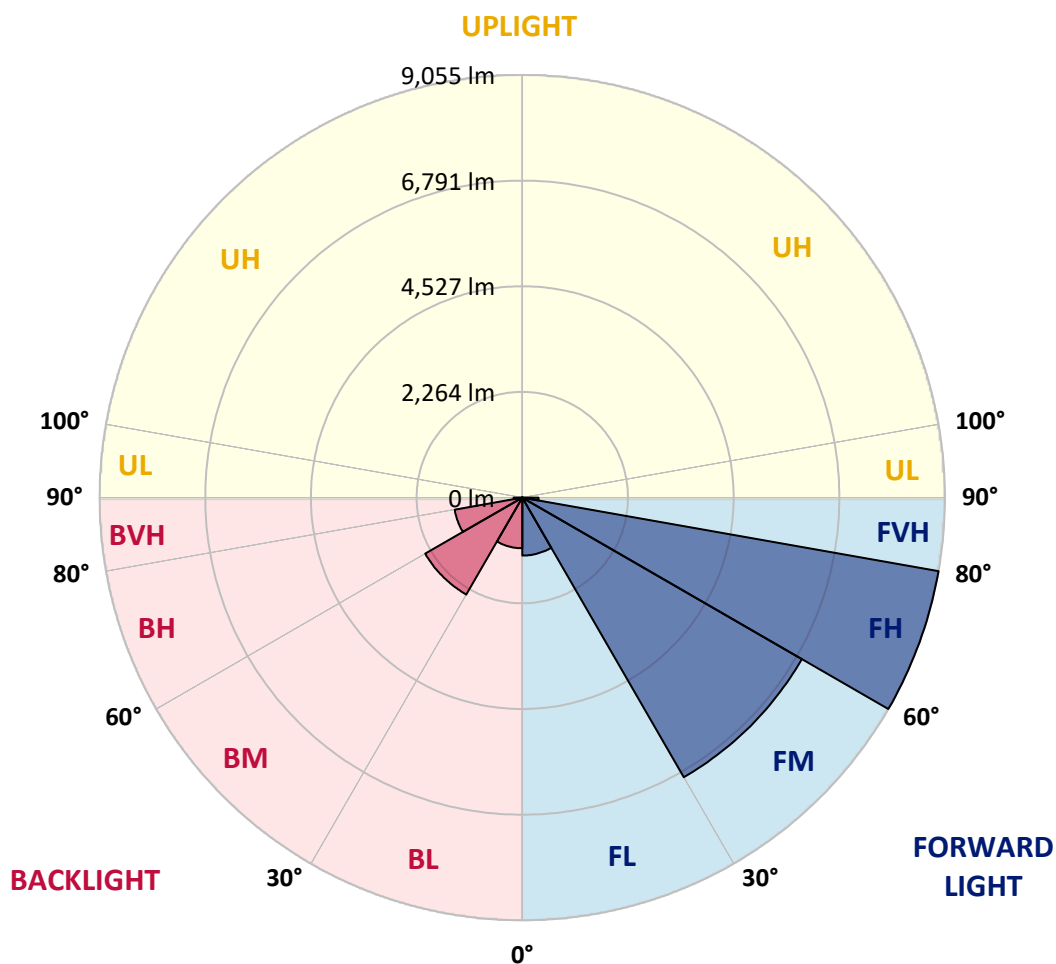
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1241.1	5.5			
FM	(30°-60°)	6915.0	30.5			
FH	(60°-80°)	9054.8	39.9			G4/12000
FVH	(80°-90°)	346.3	1.5			G3/500
BL	(0°-30°)	1084.6	4.8	B3/2500		
BM	(30°-60°)	2399.2	10.6	B2/2500		
BH	(60°-80°)	1471.2	6.5	B3/2500		G3/2500
BVH	(80°-90°)	183.8	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°	2278.4	2278.4	2278.4	2278.4	2278.4	2278.4	2278.4	2278.4	2278.4	2278.4	2278.4
2.5°	2425.4	2416.9	2415.6	2397.4	2387.7	2369.5	2362.2	2345.2	2324.6	2303.9	2284.5
5°	2616.0	2616.0	2607.5	2582.0	2542.0	2500.7	2482.4	2449.7	2391.4	2344.0	2303.9
7.5°	2811.6	2814.0	2797.0	2759.3	2702.3	2635.5	2618.5	2569.9	2487.3	2418.1	2358.6
10°	2980.4	2980.4	2957.3	2906.3	2834.6	2761.8	2744.8	2690.1	2597.8	2511.6	2433.9
12.5°	3109.1	3109.1	3078.8	3012.0	2934.2	2868.7	2849.2	2797.0	2710.8	2614.8	2516.4
15°	3192.9	3186.9	3152.8	3077.5	3002.2	2945.2	2931.8	2888.1	2809.1	2712.0	2601.5
17.5°	3196.6	3194.1	3161.3	3098.2	3032.6	2993.7	2985.2	2956.1	2894.2	2801.9	2685.3
20°	3126.1	3131.0	3109.1	3064.2	3032.6	3015.6	3012.0	3002.2	2958.5	2872.3	2755.7
22.5°	3050.8	3059.3	3038.7	3014.4	3012.0	3029.0	3031.4	3033.8	3005.9	2922.1	2815.2
25°	3032.6	3038.7	3018.0	2996.2	3009.5	3054.5	3064.2	3073.9	3052.0	2981.6	2885.7
27.5°	3124.9	3120.1	3080.0	3032.6	3041.1	3101.8	3115.2	3126.1	3115.2	3054.5	2973.1
30°	3386.0	3370.2	3290.1	3151.6	3107.9	3150.4	3163.8	3194.1	3194.1	3149.2	3067.8
32.5°	3823.3	3792.9	3645.9	3373.9	3222.1	3196.6	3209.9	3259.7	3285.2	3250.0	3161.3
35°	4354.0	4322.4	4112.3	3746.7	3431.0	3288.9	3285.2	3341.1	3409.1	3330.2	3214.8
37.5°	4887.2	4854.4	4601.7	4191.2	3735.8	3483.2	3461.3	3480.8	3509.9	3365.4	3288.9
40°	5420.3	5381.5	5160.4	4688.0	4108.7	3740.7	3683.6	3596.1	3584.0	3480.8	3432.2
42.5°	5948.6	5913.4	5801.7	5245.4	4555.6	3992.1	3904.6	3754.0	3800.2	3738.2	3695.7
45°	6481.8	6484.2	6365.2	5870.9	5094.8	4456.0	4338.2	4102.6	4211.9	4188.8	4213.1
47.5°	6954.2	6948.2	6905.7	6478.2	5764.0	5053.5	4901.7	4628.5	4815.5	4900.5	5086.3
50°	7412.1	7408.5	7410.9	7166.8	6541.3	5764.0	5596.4	5309.8	5731.2	6026.4	6359.1
52.5°	8067.9	8088.6	7941.6	7877.3	7486.2	6603.2	6418.6	6122.3	6813.4	7278.5	7928.3
55°	8726.2	8709.2	8593.8	8660.6	8474.8	7596.7	7403.6	7168.0	8018.1	8527.0	9503.5
57.5°	9113.6	9119.7	9237.5	9564.2	9695.4	8835.5	8660.6	8478.4	9372.3	9733.0	10905.0
60°	9462.2	9490.1	9829.0	10445.9	10801.8	10357.3	10201.8	10024.5	10614.7	10758.1	12121.9
62.5°	9571.5	9657.7	10249.2	11172.2	11880.3	12074.6	11881.5	11490.4	11797.7	11741.8	12946.6
65°	9026.2	9144.0	10204.2	11444.3	12843.4	13704.4	13581.8	12855.5	12805.7	12469.3	13081.4
67.5°	7590.6	7708.4	9069.9	10873.4	13241.7	15115.7	14993.0	13851.4	13417.8	12537.3	12061.2
70°	5553.9	5628.0	6929.9	9154.9	12441.4	15589.3	15631.9	14337.2	13199.2	11613.1	9903.0
72.5°	3200.2	3364.2	4276.3	6440.5	10164.2	14391.8	14687.0	13326.7	11817.1	9688.1	6923.9
75°	1376.0	1379.7	1977.2	3552.4	6883.8	11568.1	11853.5	11047.1	9280.0	6699.2	3696.9
77.5°	654.6	666.8	869.6	1586.1	3789.2	7992.6	8762.6	7804.4	5935.3	3218.4	1396.7
80°	425.1	433.6	532.0	787.0	1858.2	4634.5	5171.3	4502.2	2618.5	1150.1	602.4
82.5°	257.5	259.9	355.8	480.9	1022.6	2098.7	2473.9	1954.1	1117.3	688.6	354.6
85°	156.7	157.9	216.2	297.6	620.6	725.1	744.5	738.4	655.8	450.6	189.5
87.5°	75.3	77.7	111.7	140.9	244.1	224.7	212.5	246.5	309.7	242.9	81.4
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°	2278.4	2278.4	2278.4	2278.4	2278.4	2278.4	2278.4	2278.4	2278.4	2278.4	2278.4
2.5°	2276.0	2272.3	2263.8	2260.2	2257.8	2259.0	2257.8	2257.8	2259.0	2259.0	2259.0
5°	2286.9	2280.8	2267.5	2267.5	2274.8	2291.8	2307.6	2319.7	2333.1	2331.8	2331.8
7.5°	2334.3	2323.3	2307.6	2312.4	2330.6	2357.3	2385.3	2412.0	2438.7	2441.1	2439.9
10°	2403.5	2392.6	2375.6	2381.6	2410.8	2450.9	2486.1	2524.9	2554.1	2562.6	2560.2
12.5°	2482.4	2460.6	2446.0	2463.0	2509.2	2562.6	2596.6	2625.8	2646.4	2658.5	2653.7
15°	2562.6	2542.0	2524.9	2560.2	2616.0	2665.8	2682.8	2687.7	2691.3	2703.5	2701.1
17.5°	2640.3	2612.4	2606.3	2652.5	2705.9	2727.8	2718.1	2697.4	2681.6	2691.3	2690.1
20°	2709.6	2687.7	2685.3	2731.4	2752.1	2731.4	2690.1	2653.7	2625.8	2628.2	2627.0
22.5°	2775.1	2758.1	2760.6	2780.0	2747.2	2676.8	2608.7	2559.0	2528.6	2534.7	2538.3
25°	2848.0	2831.0	2837.1	2805.5	2697.4	2574.7	2476.4	2433.9	2421.7	2433.9	2442.4
27.5°	2942.7	2931.8	2928.2	2806.7	2608.7	2424.1	2312.4	2296.6	2307.6	2334.3	2347.6
30°	3044.8	3044.8	3025.3	2786.1	2487.3	2243.2	2146.0	2148.5	2186.1	2223.8	2237.1
32.5°	3143.1	3163.8	3103.1	2730.2	2330.6	2067.1	1993.0	1995.4	2028.2	2074.4	2086.5
35°	3224.5	3284.0	3169.8	2628.2	2146.0	1918.9	1863.0	1830.3	1831.5	1866.7	1876.4
37.5°	3336.2	3446.8	3208.7	2476.4	1949.3	1792.6	1729.5	1672.4	1634.7	1620.1	1620.1
40°	3530.6	3693.3	3218.4	2251.7	1763.5	1672.4	1582.5	1514.5	1441.6	1376.0	1363.9
42.5°	3859.7	4064.9	3199.0	1993.0	1595.9	1540.0	1452.5	1368.7	1267.9	1175.6	1168.4
45°	4442.6	4548.3	3146.8	1724.6	1446.5	1412.5	1327.5	1236.4	1129.5	1046.9	1040.8
47.5°	5376.6	5227.2	3077.5	1486.6	1310.4	1300.7	1235.1	1129.5	1022.6	965.5	959.5
50°	6740.5	6296.0	3067.8	1314.1	1201.1	1206.0	1152.6	1055.4	961.9	914.5	907.2
52.5°	8382.5	7587.0	3132.2	1192.6	1105.2	1123.4	1096.7	1006.8	924.2	884.2	876.9
55°	9975.9	8748.1	3171.1	1097.9	1015.3	1049.3	1053.0	977.7	902.4	862.3	857.4
57.5°	11269.4	9622.5	2998.6	1011.7	937.6	989.8	1016.5	960.7	891.4	861.1	856.2
60°	12169.3	10035.4	2507.9	935.2	880.5	942.5	1003.2	961.9	918.2	921.8	924.2
62.5°	12455.9	9852.0	1881.3	878.1	841.6	926.7	1025.0	1011.7	966.7	994.7	999.5
65°	11981.1	9094.2	1363.9	833.1	807.6	937.6	1090.6	1048.1	949.7	970.4	970.4
67.5°	10391.3	7834.8	1061.5	791.9	768.8	958.2	1156.2	1044.5	909.7	934.0	912.1
70°	8242.8	6060.4	884.2	745.7	727.5	927.9	1162.3	1006.8	862.3	867.2	825.9
72.5°	5470.1	3984.8	760.3	702.0	664.3	834.4	1112.5	958.2	816.1	788.2	746.9
75°	2680.4	1986.9	663.1	647.3	581.7	726.3	1044.5	912.1	766.4	722.6	699.6
77.5°	1038.4	845.3	566.0	578.1	506.4	640.0	954.6	846.5	700.8	641.3	623.0
80°	504.0	479.7	463.9	482.2	416.6	545.3	872.0	789.4	640.0	574.5	547.7
82.5°	313.3	296.3	355.8	375.3	320.6	497.9	827.1	740.8	563.5	476.1	454.2
85°	159.1	170.0	238.0	256.3	229.5	395.9	681.3	556.2	406.9	337.6	340.1
87.5°	60.7	81.4	125.1	134.8	122.7	208.9	375.3	324.3	261.1	177.3	164.0
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)