

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: P522759

Luminaire Tested: **GALN-SA5A-730-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522759  
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-SA5A-730-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 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: 20872 lumens  
Efficiency: N/A  
Efficacy: 135.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

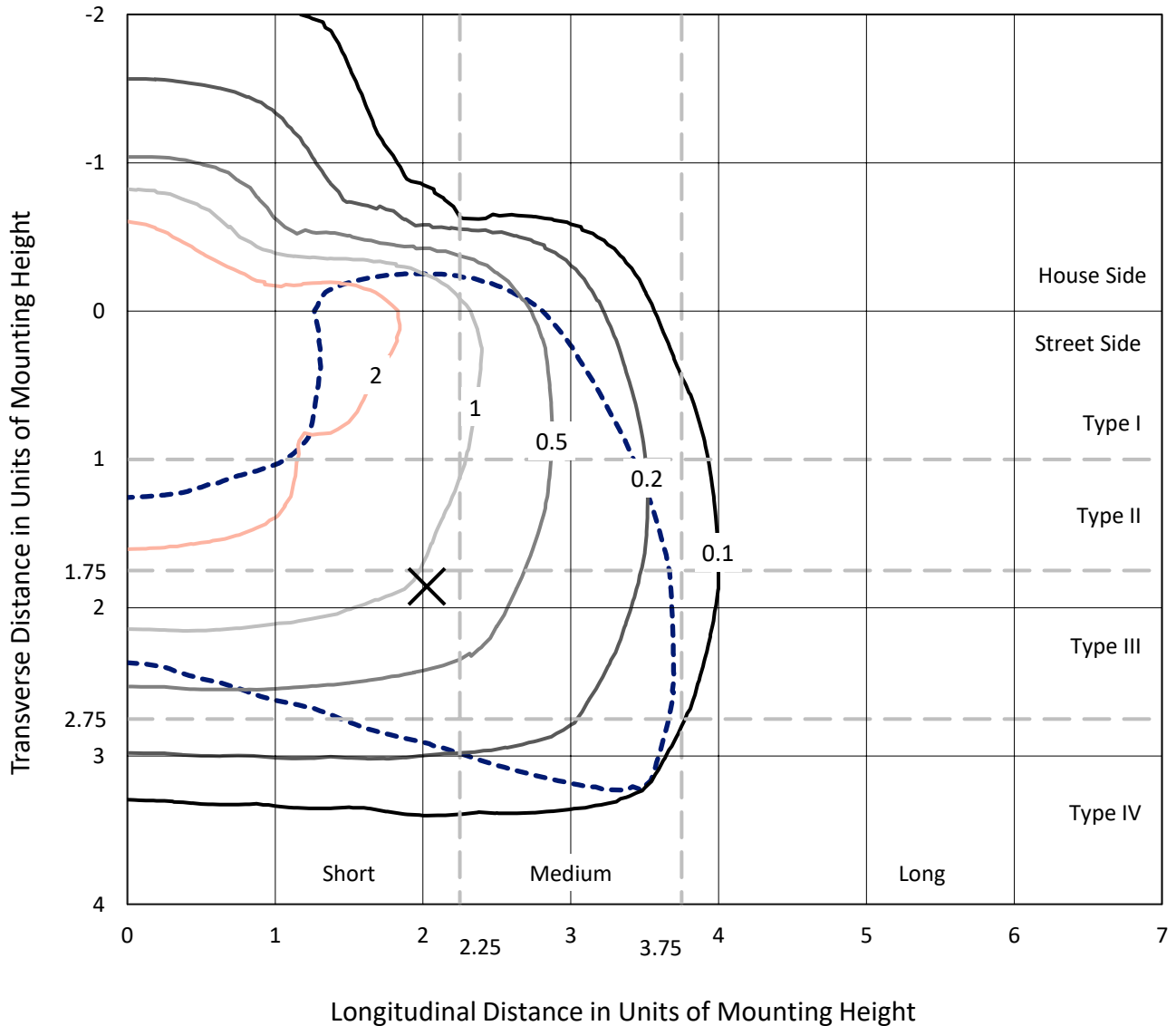
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

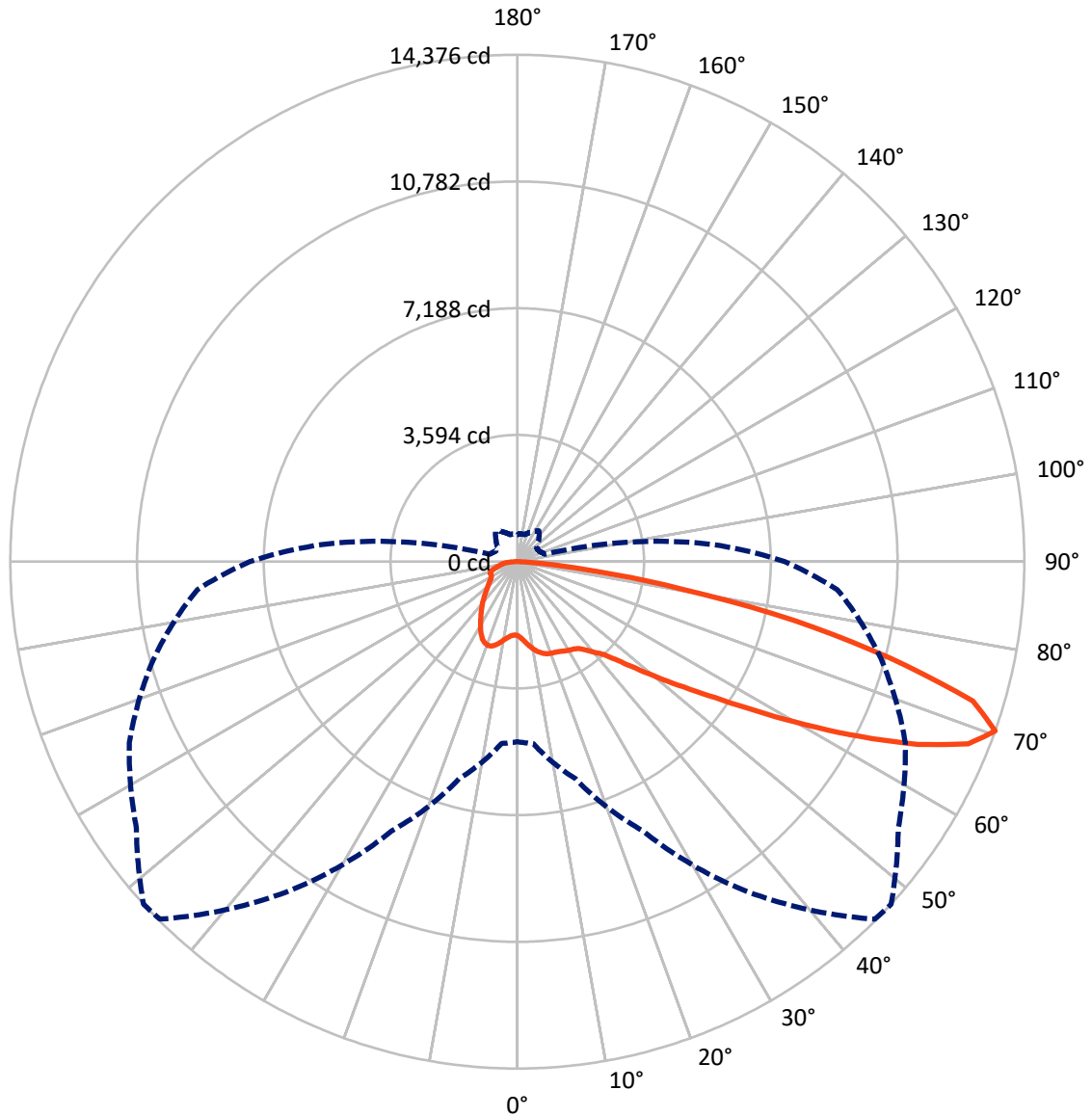
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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	4725.8	0.0	4725.8
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	16146.2	0.0	16146.2
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	20872.0	0.0	20872.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	216.0	1.0
10°-20°	722.0	3.5
20°-30°	1200.7	5.8
30°-40°	1701.9	8.2
40°-50°	2512.3	12.0
50°-60°	4351.5	20.8
60°-70°	6146.6	29.4
70°-80°	3533.4	16.9
80°-90°	487.5	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°	20872.0	100.0
0°-180°	20872.0	100.0

**Coefficient of Utilization**



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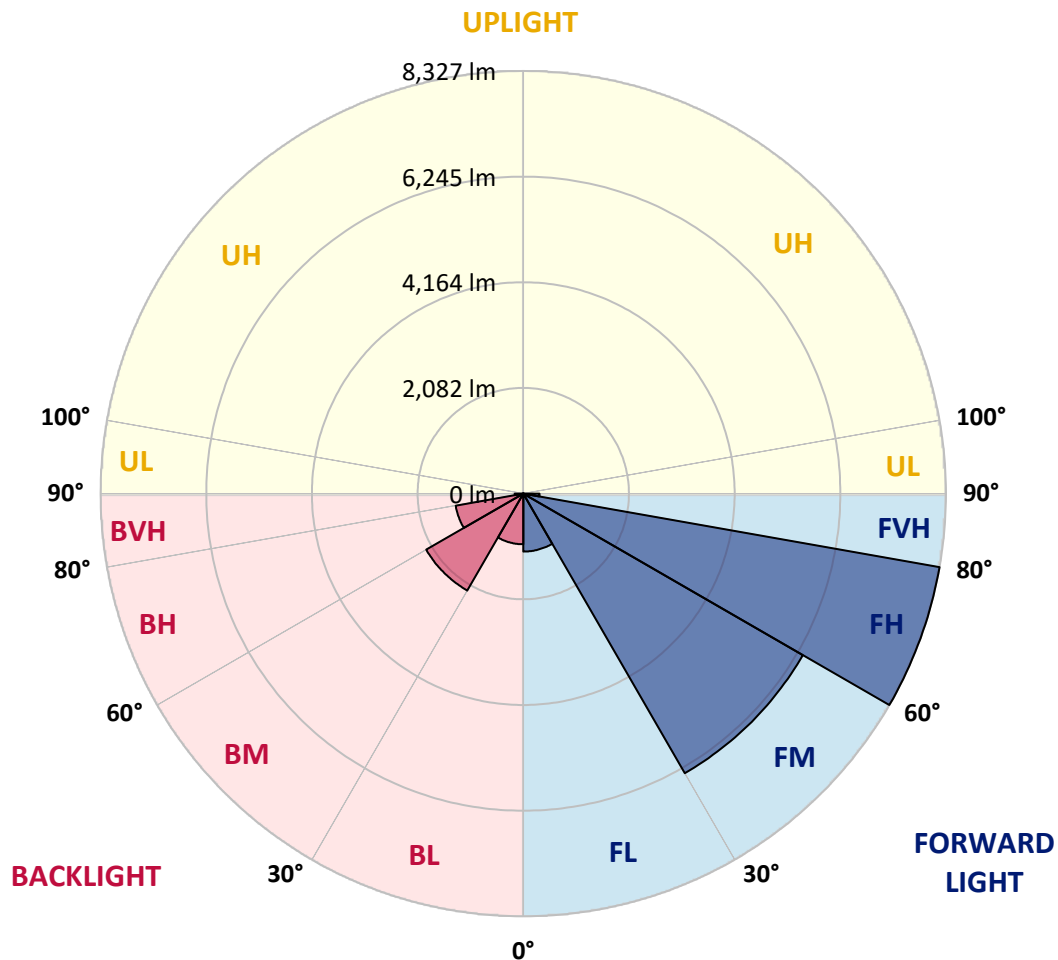
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1141.4	5.5			
FM	(30°-60°)	6359.3	30.5			
FH	(60°-80°)	8327.1	39.9			G4/12000
FVH	(80°-90°)	318.5	1.5			G3/500
BL	(0°-30°)	997.4	4.8	B2/1000		
BM	(30°-60°)	2206.4	10.6	B2/2500		
BH	(60°-80°)	1352.9	6.5	B3/2500		G3/2500
BVH	(80°-90°)	169.1	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°	2095.3	2095.3	2095.3	2095.3	2095.3	2095.3	2095.3	2095.3	2095.3	2095.3	2095.3
2.5°	2230.4	2222.6	2221.5	2204.8	2195.8	2179.1	2172.4	2156.7	2137.7	2118.8	2100.9
5°	2405.8	2405.8	2398.0	2374.5	2337.7	2299.7	2282.9	2252.8	2199.2	2155.6	2118.8
7.5°	2585.6	2587.8	2572.2	2537.6	2485.1	2423.7	2408.0	2363.4	2287.4	2223.7	2169.0
10°	2740.9	2740.9	2719.6	2672.7	2606.8	2539.8	2524.2	2473.9	2389.0	2309.7	2238.3
12.5°	2859.3	2859.3	2831.3	2769.9	2698.4	2638.1	2620.2	2572.2	2492.9	2404.7	2314.2
15°	2936.3	2930.7	2899.5	2830.2	2761.0	2708.5	2696.2	2656.0	2583.4	2494.0	2392.4
17.5°	2939.7	2937.4	2907.3	2849.2	2788.9	2753.1	2745.3	2718.5	2661.6	2576.7	2469.5
20°	2874.9	2879.4	2859.3	2817.9	2788.9	2773.3	2769.9	2761.0	2720.8	2641.5	2534.2
22.5°	2805.6	2813.5	2794.5	2772.1	2769.9	2785.5	2787.8	2790.0	2764.3	2687.3	2589.0
25°	2788.9	2794.5	2775.5	2755.4	2767.7	2809.0	2817.9	2826.9	2806.8	2742.0	2653.7
27.5°	2873.8	2869.3	2832.4	2788.9	2796.7	2852.6	2864.8	2874.9	2864.8	2809.0	2734.2
30°	3113.9	3099.4	3025.7	2898.3	2858.1	2897.2	2909.5	2937.4	2937.4	2896.1	2821.3
32.5°	3516.0	3488.1	3352.9	3102.7	2963.1	2939.7	2952.0	2997.7	3021.2	2988.8	2907.3
35°	4004.1	3975.0	3781.8	3445.6	3155.2	3024.6	3021.2	3072.6	3135.1	3062.5	2956.4
37.5°	4494.4	4464.2	4231.9	3854.4	3435.6	3203.3	3183.2	3201.0	3227.8	3094.9	3024.6
40°	4984.7	4949.0	4745.7	4311.2	3778.5	3440.0	3387.5	3307.1	3296.0	3201.0	3156.3
42.5°	5470.6	5438.2	5335.4	4823.9	4189.5	3671.2	3590.8	3452.3	3494.8	3437.8	3398.7
45°	5960.9	5963.1	5853.7	5399.1	4685.4	4097.9	3989.6	3772.9	3873.4	3852.2	3874.5
47.5°	6395.3	6389.8	6350.7	5957.5	5300.8	4647.4	4507.8	4256.5	4428.5	4506.7	4677.6
50°	6816.4	6813.1	6815.3	6590.8	6015.6	5300.8	5146.7	4883.1	5270.6	5542.0	5848.1
52.5°	7419.5	7438.5	7303.4	7244.2	6884.5	6072.6	5902.8	5630.3	6265.8	6693.6	7291.1
55°	8024.9	8009.3	7903.2	7964.6	7793.7	6986.2	6808.6	6591.9	7373.8	7841.7	8739.7
57.5°	8381.2	8386.8	8495.1	8795.6	8916.2	8125.4	7964.6	7797.1	8619.1	8950.8	10028.6
60°	8701.7	8727.4	9039.0	9606.4	9933.7	9524.9	9381.9	9218.9	9761.7	9893.5	11147.7
62.5°	8802.3	8881.6	9425.5	10274.3	10925.5	11104.2	10926.6	10567.0	10849.5	10798.2	11906.1
65°	8300.8	8409.1	9384.2	10524.5	11811.2	12603.1	12490.3	11822.3	11776.6	11467.2	12030.1
67.5°	6980.6	7088.9	8341.0	9999.6	12177.5	13900.9	13788.1	12738.2	12339.5	11529.7	11091.9
70°	5107.6	5175.7	6373.0	8419.2	11441.5	14336.5	14375.6	13185.0	12138.4	10679.8	9107.2
72.5°	2943.0	3093.8	3932.6	5922.9	9347.3	13235.2	13506.6	12255.7	10867.4	8909.5	6367.4
75°	1265.4	1268.8	1818.3	3266.9	6330.6	10638.4	10900.9	10159.3	8534.2	6160.8	3399.8
77.5°	602.0	613.2	799.7	1458.7	3484.7	7350.3	8058.4	7177.2	5458.3	2959.8	1284.4
80°	390.9	398.7	489.2	723.7	1708.9	4262.1	4755.7	4140.3	2408.0	1057.7	554.0
82.5°	236.8	239.0	327.3	442.3	940.4	1930.0	2275.1	1797.1	1027.5	633.3	326.1
85°	144.1	145.2	198.8	273.6	570.7	666.8	684.7	679.1	603.1	414.4	174.2
87.5°	69.2	71.5	102.8	129.6	224.5	206.6	195.5	226.7	284.8	223.4	74.8
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°	2095.3	2095.3	2095.3	2095.3	2095.3	2095.3	2095.3	2095.3	2095.3	2095.3	2095.3
2.5°	2093.1	2089.7	2081.9	2078.5	2076.3	2077.4	2076.3	2076.3	2077.4	2077.4	2077.4
5°	2103.1	2097.5	2085.2	2085.2	2091.9	2107.6	2122.1	2133.3	2145.6	2144.4	2144.4
7.5°	2146.7	2136.6	2122.1	2126.6	2143.3	2167.9	2193.6	2218.2	2242.7	2245.0	2243.8
10°	2210.3	2200.3	2184.6	2190.2	2217.0	2253.9	2286.3	2322.0	2348.8	2356.7	2354.4
12.5°	2282.9	2262.8	2249.4	2265.1	2307.5	2356.7	2387.9	2414.7	2433.7	2444.9	2440.4
15°	2356.7	2337.7	2322.0	2354.4	2405.8	2451.6	2467.2	2471.7	2475.0	2486.2	2484.0
17.5°	2428.1	2402.4	2396.9	2439.3	2488.4	2508.5	2499.6	2480.6	2466.1	2475.0	2473.9
20°	2491.8	2471.7	2469.5	2511.9	2530.9	2511.9	2473.9	2440.4	2414.7	2417.0	2415.8
22.5°	2552.1	2536.5	2538.7	2556.6	2526.4	2461.6	2399.1	2353.3	2325.4	2331.0	2334.3
25°	2619.1	2603.5	2609.1	2580.0	2480.6	2367.8	2277.4	2238.3	2227.1	2238.3	2246.1
27.5°	2706.2	2696.2	2692.8	2581.1	2399.1	2229.3	2126.6	2112.1	2122.1	2146.7	2159.0
30°	2800.1	2800.1	2782.2	2562.2	2287.4	2062.9	1973.6	1975.8	2010.4	2045.0	2057.3
32.5°	2890.5	2909.5	2853.7	2510.8	2143.3	1901.0	1832.8	1835.1	1865.2	1907.7	1918.8
35°	2965.4	3020.1	2915.1	2417.0	1973.6	1764.7	1713.3	1683.2	1684.3	1716.7	1725.6
37.5°	3068.1	3169.8	2950.8	2277.4	1792.6	1648.5	1590.5	1538.0	1503.3	1489.9	1489.9
40°	3246.8	3396.5	2959.8	2070.7	1621.7	1538.0	1455.3	1392.8	1325.8	1265.4	1254.3
42.5°	3549.5	3738.3	2941.9	1832.8	1467.6	1416.2	1335.8	1258.7	1166.0	1081.2	1074.5
45°	4085.6	4182.8	2893.9	1586.0	1330.2	1299.0	1220.8	1137.0	1038.7	962.8	957.2
47.5°	4944.5	4807.1	2830.2	1367.1	1205.1	1196.2	1135.9	1038.7	940.4	887.9	882.3
50°	6198.8	5790.0	2821.3	1208.5	1104.6	1109.1	1059.9	970.6	884.6	841.0	834.3
52.5°	7708.8	6977.3	2880.5	1096.8	1016.4	1033.1	1008.6	925.9	850.0	813.1	806.4
55°	9174.2	8045.0	2916.2	1009.7	933.7	965.0	968.3	899.1	829.9	793.0	788.5
57.5°	10363.7	8849.2	2757.6	930.4	862.2	910.3	934.8	883.5	819.8	791.9	787.4
60°	11191.3	9228.9	2306.4	860.0	809.7	866.7	922.6	884.6	844.4	847.7	850.0
62.5°	11454.9	9060.3	1730.1	807.5	774.0	852.2	942.7	930.4	889.0	914.7	919.2
65°	11018.2	8363.3	1254.3	766.2	742.7	862.2	1003.0	963.9	873.4	892.4	892.4
67.5°	9556.2	7205.1	976.2	728.2	707.0	881.2	1063.3	960.5	836.6	858.9	838.8
70°	7580.4	5573.3	813.1	685.8	669.0	853.3	1068.9	925.9	793.0	797.5	759.5
72.5°	5030.5	3664.5	699.2	645.6	610.9	767.3	1023.1	881.2	750.6	724.9	686.9
75°	2465.0	1827.2	609.8	595.3	535.0	667.9	960.5	838.8	704.8	664.6	643.3
77.5°	954.9	777.4	520.5	531.6	465.7	588.6	877.9	778.5	644.4	589.7	573.0
80°	463.5	441.2	426.7	443.4	383.1	501.5	801.9	726.0	588.6	528.3	503.7
82.5°	288.2	272.5	327.3	345.1	294.9	457.9	760.6	681.3	518.2	437.8	417.7
85°	146.3	156.4	218.9	235.7	211.1	364.1	626.6	511.5	374.2	310.5	312.7
87.5°	55.8	74.8	115.0	124.0	112.8	192.1	345.1	298.2	240.1	163.1	150.8
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)