

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: P522795

Luminaire Tested: **GALN-SA6A-730-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522795  
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-730-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 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: 24715 lumens  
Efficiency: N/A  
Efficacy: 135.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

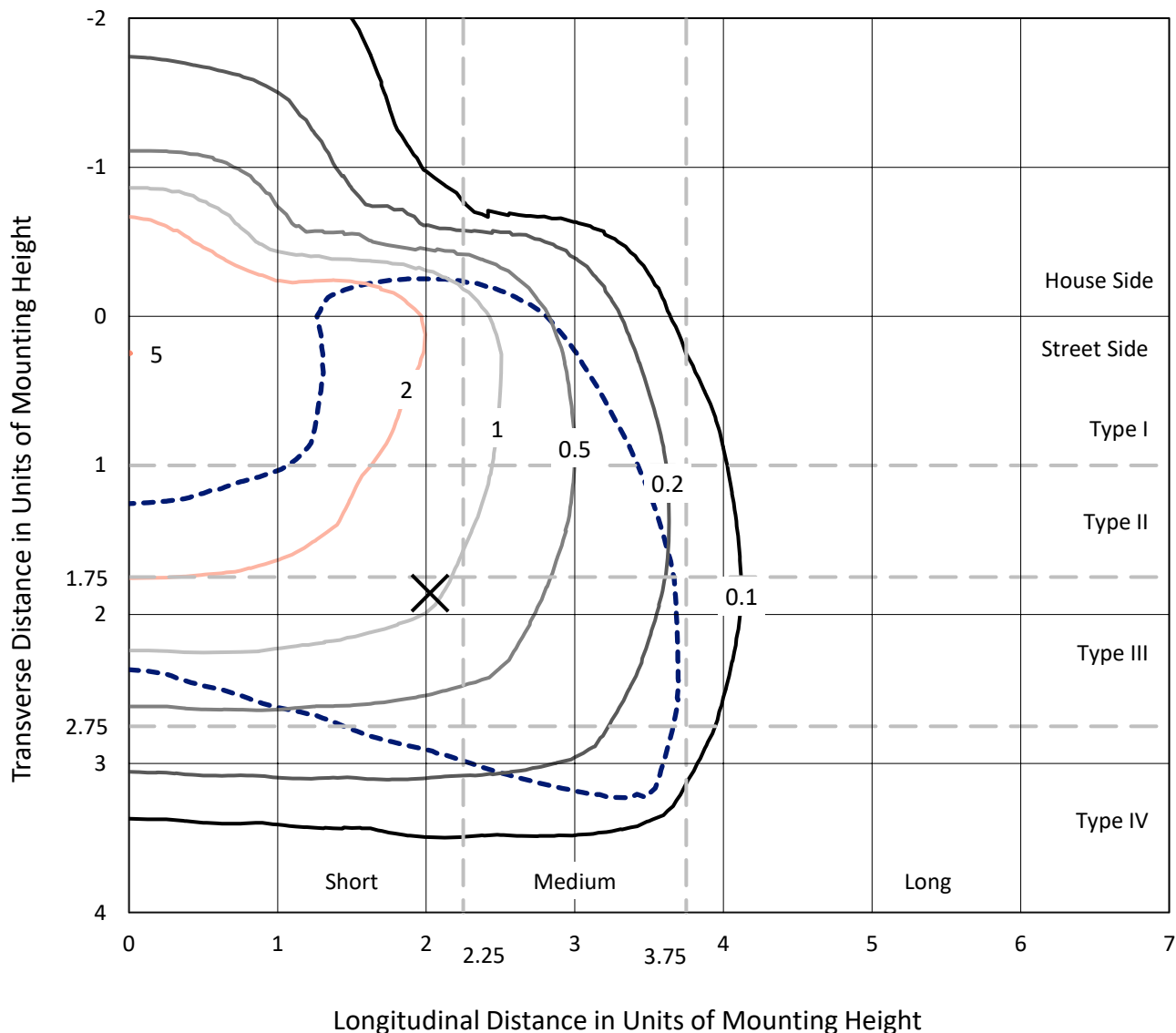
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

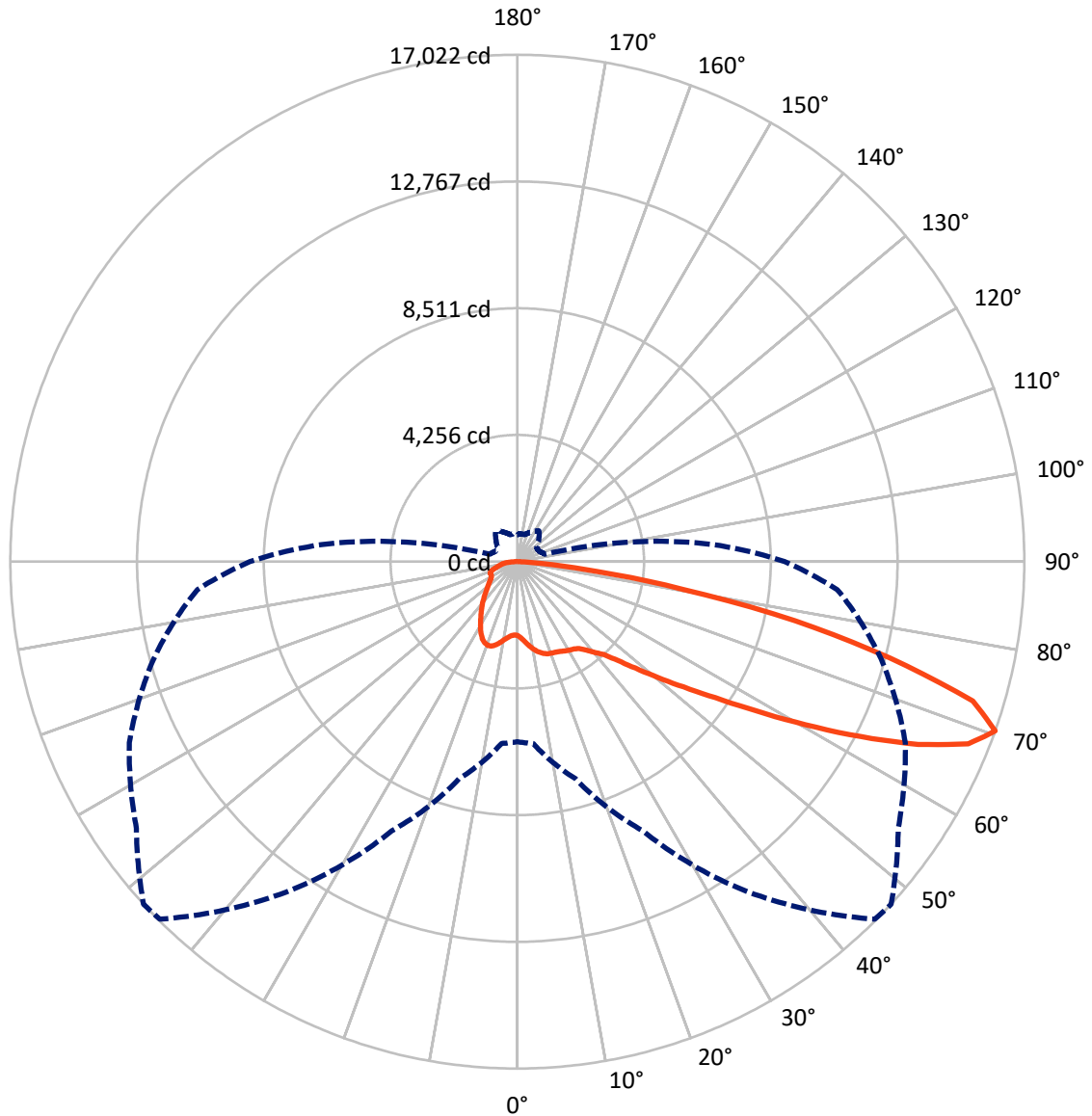
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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	5596.0	0.0	5596.0
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	19119.0	0.0	19119.0
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	24715.0	0.0	24715.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	255.7	1.0
10°-20°	855.0	3.5
20°-30°	1421.8	5.8
30°-40°	2015.2	8.2
40°-50°	2974.9	12.0
50°-60°	5152.7	20.8
60°-70°	7278.3	29.4
70°-80°	4184.0	16.9
80°-90°	577.3	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°	24715.0	100.0
0°-180°	24715.0	100.0

**Coefficient of Utilization**



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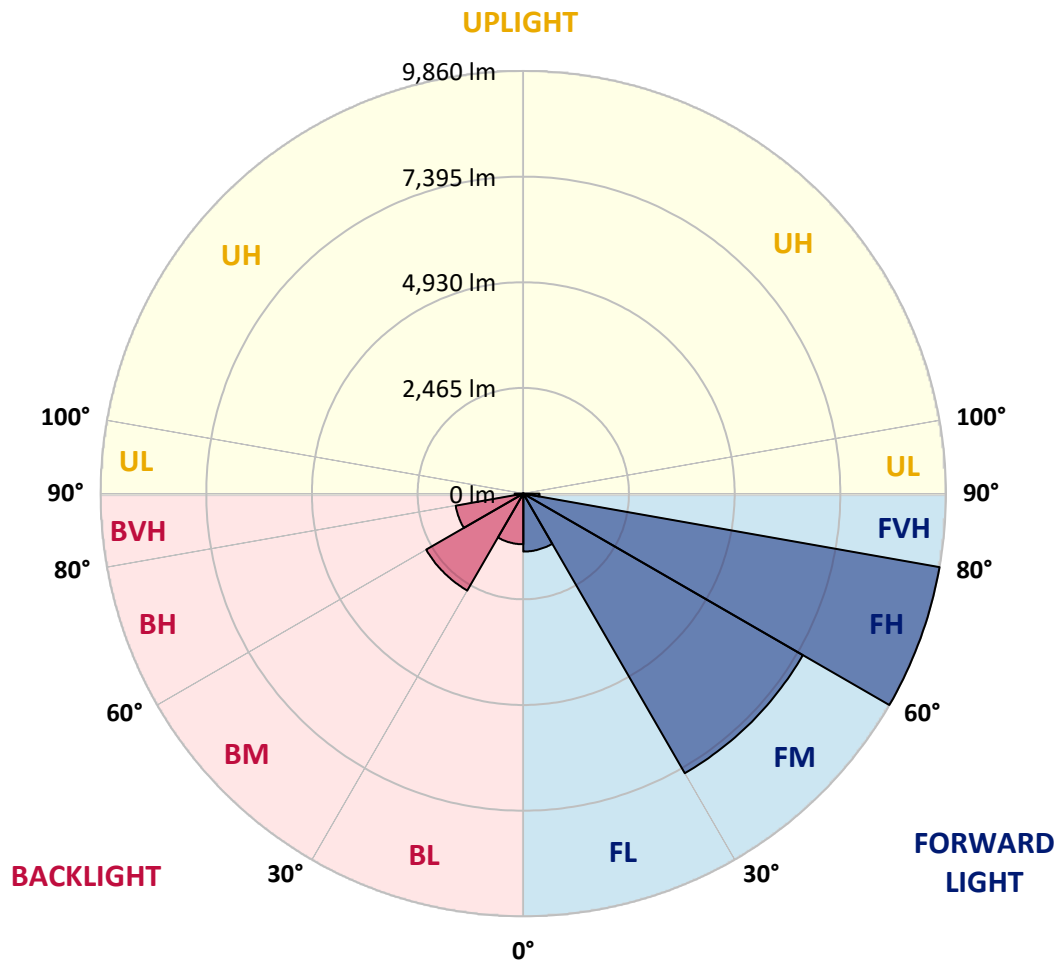
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1351.5	5.5			
FM	(30°-60°)	7530.2	30.5			
FH	(60°-80°)	9860.2	39.9			G4/12000
FVH	(80°-90°)	377.1	1.5			G3/500
BL	(0°-30°)	1181.1	4.8	B3/2500		
BM	(30°-60°)	2612.7	10.6	B3/5000		
BH	(60°-80°)	1602.0	6.5	B3/2500		G3/2500
BVH	(80°-90°)	200.2	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°	2481.1	2481.1	2481.1	2481.1	2481.1	2481.1	2481.1	2481.1	2481.1	2481.1	2481.1
2.5°	2641.1	2631.9	2630.5	2610.7	2600.1	2580.3	2572.3	2553.8	2531.3	2508.9	2487.7
5°	2848.8	2848.8	2839.5	2811.7	2768.1	2723.1	2703.3	2667.6	2604.1	2552.5	2508.9
7.5°	3061.7	3064.3	3045.8	3004.8	2942.7	2869.9	2851.4	2798.5	2708.6	2633.2	2568.4
10°	3245.5	3245.5	3220.4	3164.8	3086.8	3007.5	2988.9	2929.4	2828.9	2735.0	2650.4
12.5°	3385.7	3385.7	3352.6	3279.9	3195.3	3123.8	3102.7	3045.8	2951.9	2847.4	2740.3
15°	3477.0	3470.3	3433.3	3351.3	3269.3	3207.2	3192.6	3145.0	3059.0	2953.2	2832.9
17.5°	3480.9	3478.3	3442.6	3373.8	3302.4	3260.1	3250.8	3219.1	3151.6	3051.1	2924.1
20°	3404.2	3409.5	3385.7	3336.8	3302.4	3283.9	3279.9	3269.3	3221.7	3127.8	3000.8
22.5°	3322.2	3331.5	3309.0	3282.5	3279.9	3298.4	3301.1	3303.7	3273.3	3182.0	3065.7
25°	3302.4	3309.0	3286.5	3262.7	3277.3	3326.2	3336.8	3347.4	3323.5	3246.8	3142.4
27.5°	3402.9	3397.6	3354.0	3302.4	3311.6	3377.8	3392.3	3404.2	3392.3	3326.2	3237.6
30°	3687.2	3670.1	3582.8	3432.0	3384.4	3430.7	3445.2	3478.3	3478.3	3429.4	3340.7
32.5°	4163.4	4130.3	3970.3	3674.0	3508.7	3480.9	3495.5	3549.7	3577.5	3539.1	3442.6
35°	4741.3	4706.9	4478.1	4080.0	3736.2	3581.4	3577.5	3638.3	3712.4	3626.4	3500.8
37.5°	5321.9	5286.2	5011.1	4564.1	4068.1	3793.1	3769.2	3790.4	3822.1	3664.8	3581.4
40°	5902.5	5860.2	5619.5	5105.0	4474.2	4073.4	4011.3	3916.0	3902.8	3790.4	3737.5
42.5°	6477.8	6439.5	6317.8	5712.1	4960.9	4347.2	4252.0	4088.0	4138.2	4070.8	4024.5
45°	7058.4	7061.1	6931.4	6393.2	5548.1	4852.4	4724.1	4467.5	4586.6	4561.4	4587.9
47.5°	7572.9	7566.3	7520.0	7054.4	6276.8	5503.1	5337.8	5040.2	5243.9	5336.5	5538.8
50°	8071.5	8067.5	8070.2	7804.3	7123.2	6276.8	6094.3	5782.2	6241.1	6562.5	6924.8
52.5°	8785.6	8808.1	8648.1	8578.0	8152.1	7190.7	6989.6	6666.9	7419.5	7926.0	8633.6
55°	9502.5	9483.9	9358.3	9431.0	9228.7	8272.5	8062.2	7805.6	8731.4	9285.6	10348.9
57.5°	9924.4	9931.0	10059.3	10415.0	10557.9	9621.5	9431.0	9232.7	10206.1	10598.9	11875.1
60°	10303.9	10334.3	10703.3	11375.2	11762.7	11278.6	11109.4	10916.3	11559.0	11715.1	13200.3
62.5°	10423.0	10516.9	11160.9	12166.1	12937.1	13148.7	12938.4	12512.6	12847.2	12786.3	14098.3
65°	9829.1	9957.4	11112.0	12462.3	13985.9	14923.6	14790.0	13999.1	13944.9	13578.5	14245.1
67.5°	8265.9	8394.2	9876.7	11840.7	14419.7	16460.4	16326.8	15083.6	14611.4	13652.6	13134.2
70°	6048.0	6128.7	7546.4	9969.3	13548.1	16976.1	17022.4	15612.6	14373.4	12646.1	10784.0
72.5°	3484.9	3663.4	4656.7	7013.4	11068.4	15672.1	15993.5	14512.3	12868.3	10549.9	7539.8
75°	1498.4	1502.4	2153.1	3868.4	7496.2	12597.2	12908.0	12029.8	10105.5	7295.1	4025.8
77.5°	712.9	726.1	946.9	1727.2	4126.3	8703.6	9542.1	8498.7	6463.3	3504.7	1520.9
80°	462.9	472.1	579.3	857.0	2023.5	5046.8	5631.4	4902.7	2851.4	1252.4	656.0
82.5°	280.4	283.0	387.5	523.7	1113.6	2285.4	2694.0	2128.0	1216.7	749.9	386.2
85°	170.6	171.9	235.4	324.0	675.8	789.6	810.7	804.1	714.2	490.7	206.3
87.5°	82.0	84.6	121.7	153.4	265.8	244.7	231.4	268.5	337.2	264.5	88.6
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°	2481.1	2481.1	2481.1	2481.1	2481.1	2481.1	2481.1	2481.1	2481.1	2481.1	2481.1
2.5°	2478.4	2474.5	2465.2	2461.3	2458.6	2459.9	2458.6	2458.6	2459.9	2459.9	2459.9
5°	2490.3	2483.7	2469.2	2469.2	2477.1	2495.6	2512.8	2526.1	2540.6	2539.3	2539.3
7.5°	2541.9	2530.0	2512.8	2518.1	2538.0	2567.1	2597.5	2626.6	2655.7	2658.3	2657.0
10°	2617.3	2605.4	2586.9	2593.5	2625.2	2668.9	2707.2	2749.6	2781.3	2790.6	2787.9
12.5°	2703.3	2679.5	2663.6	2682.1	2732.4	2790.6	2827.6	2859.3	2881.8	2895.0	2889.8
15°	2790.6	2768.1	2749.6	2787.9	2848.8	2903.0	2921.5	2926.8	2930.8	2944.0	2941.3
17.5°	2875.2	2844.8	2838.2	2888.4	2946.6	2970.4	2959.8	2937.4	2920.2	2930.8	2929.4
20°	2950.6	2926.8	2924.1	2974.4	2996.9	2974.4	2929.4	2889.8	2859.3	2862.0	2860.7
22.5°	3022.0	3003.5	3006.1	3027.3	2991.6	2914.9	2840.8	2786.6	2753.5	2760.1	2764.1
25°	3101.4	3082.8	3089.5	3055.1	2937.4	2803.8	2696.7	2650.4	2637.1	2650.4	2659.6
27.5°	3204.5	3192.6	3188.6	3056.4	2840.8	2639.8	2518.1	2500.9	2512.8	2541.9	2556.5
30°	3315.6	3315.6	3294.5	3033.9	2708.6	2442.7	2336.9	2339.6	2380.6	2421.6	2436.1
32.5°	3422.7	3445.2	3379.1	2973.1	2538.0	2251.0	2170.3	2172.9	2208.6	2258.9	2272.1
35°	3511.3	3576.2	3451.8	2862.0	2336.9	2089.6	2028.8	1993.1	1994.4	2032.7	2043.3
37.5°	3633.0	3753.4	3494.2	2696.7	2122.7	1952.1	1883.3	1821.1	1780.1	1764.3	1764.3
40°	3844.6	4021.8	3504.7	2452.0	1920.3	1821.1	1723.3	1649.2	1569.9	1498.4	1485.2
42.5°	4203.0	4426.5	3483.6	2170.3	1737.8	1677.0	1581.8	1490.5	1380.7	1280.2	1272.3
45°	4837.9	4952.9	3426.7	1878.0	1575.1	1538.1	1445.5	1346.3	1230.0	1140.0	1133.4
47.5°	5854.9	5692.2	3351.3	1618.8	1427.0	1416.4	1345.0	1230.0	1113.6	1051.4	1044.8
50°	7340.1	6856.1	3340.7	1431.0	1308.0	1313.3	1255.1	1149.3	1047.5	995.9	987.9
52.5°	9128.2	8261.9	3410.8	1298.7	1203.5	1223.4	1194.3	1096.4	1006.5	962.8	954.9
55°	10863.4	9526.3	3453.2	1195.6	1105.6	1142.7	1146.6	1064.6	982.6	939.0	933.7
57.5°	12271.9	10478.5	3265.4	1101.7	1021.0	1077.9	1107.0	1046.1	970.7	937.7	932.4
60°	13251.9	10928.2	2731.0	1018.4	958.8	1026.3	1092.4	1047.5	999.8	1003.8	1006.5
62.5°	13564.0	10728.5	2048.6	956.2	916.5	1009.1	1116.2	1101.7	1052.7	1083.2	1088.5
65°	13046.9	9903.2	1485.2	907.3	879.5	1021.0	1187.6	1141.4	1034.2	1056.7	1056.7
67.5°	11315.7	8531.7	1155.9	862.3	837.2	1043.5	1259.1	1137.4	990.6	1017.0	993.2
70°	8976.1	6599.5	962.8	812.0	792.2	1010.4	1265.7	1096.4	939.0	944.3	899.3
72.5°	5956.7	4339.3	827.9	764.4	723.4	908.6	1211.4	1043.5	888.7	858.3	813.4
75°	2918.8	2163.7	722.1	704.9	633.5	790.9	1137.4	993.2	834.5	786.9	761.8
77.5°	1130.8	920.5	616.3	629.5	551.5	697.0	1039.5	921.8	763.1	698.3	678.5
80°	548.9	522.4	505.2	525.0	453.6	593.8	949.6	859.7	697.0	625.6	596.5
82.5°	341.2	322.7	387.5	408.7	349.2	542.2	900.7	806.8	613.7	518.4	494.6
85°	173.3	185.2	259.2	279.1	250.0	431.1	741.9	605.7	443.1	367.7	370.3
87.5°	66.1	88.6	136.2	146.8	133.6	227.5	408.7	353.1	284.3	193.1	178.5
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)