

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: P300686

Luminaire Tested: **GLNA-AF-06-LED-E1-RW-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300686  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLNA-AF-06-LED-E1-RW-7030-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Rectangular  
Wide Type I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

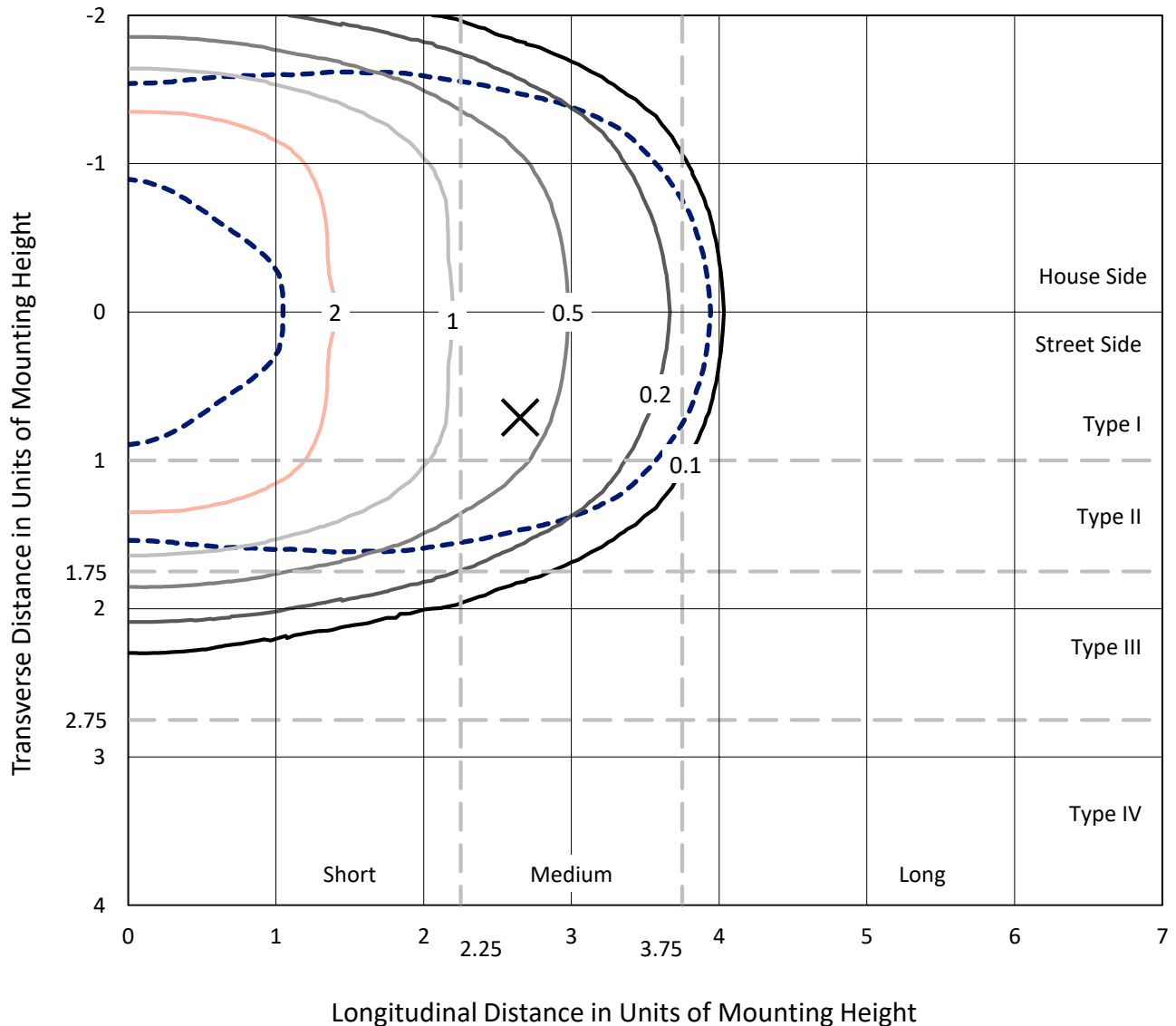
Lumens per Lamp: N/A  
Luminaire Lumens: 23110.1 lumens  
Efficiency: N/A  
Efficacy: 119.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 193  
Input Voltage (V): NR  
Input Current (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: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

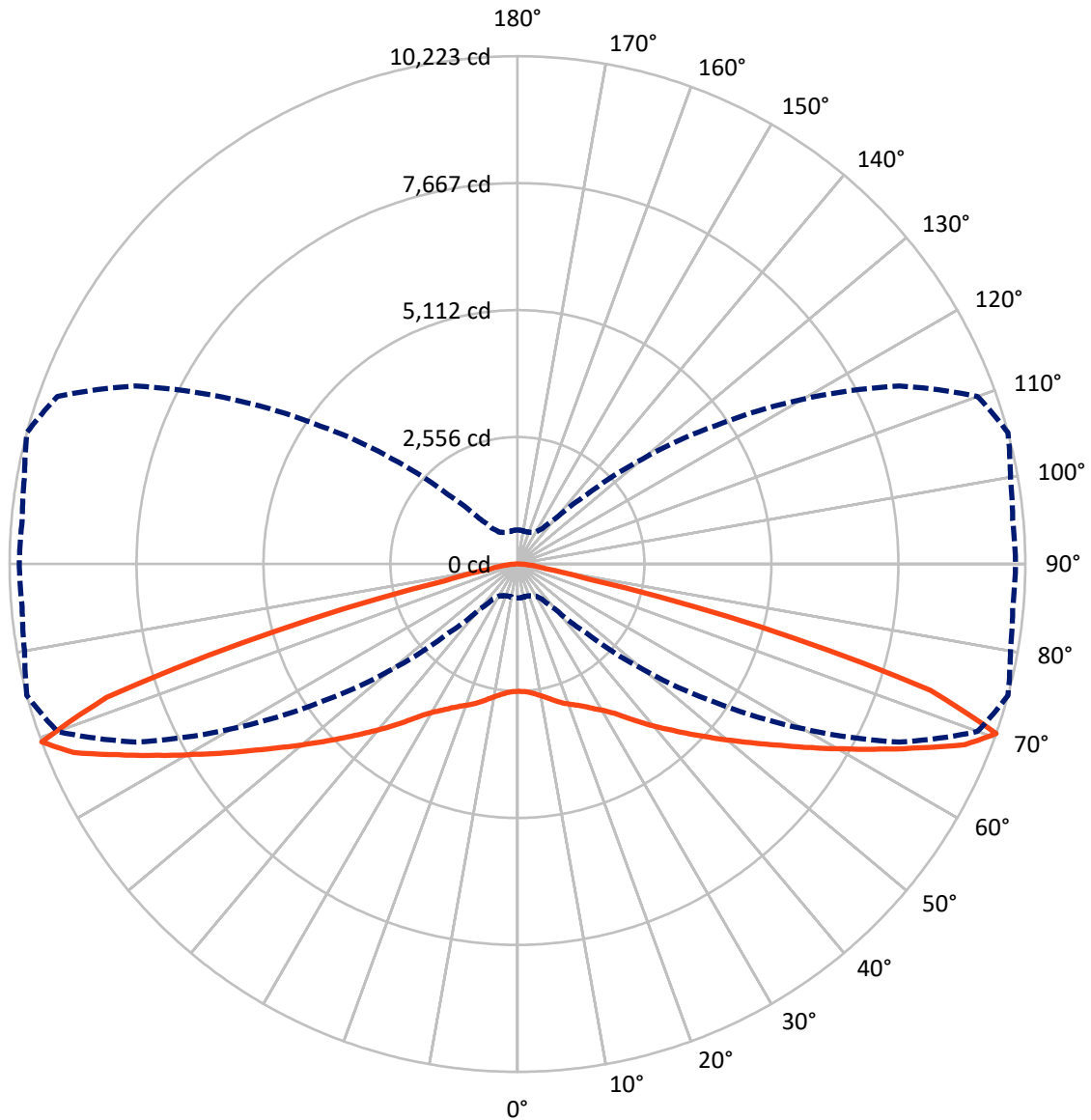
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc  
 Type II - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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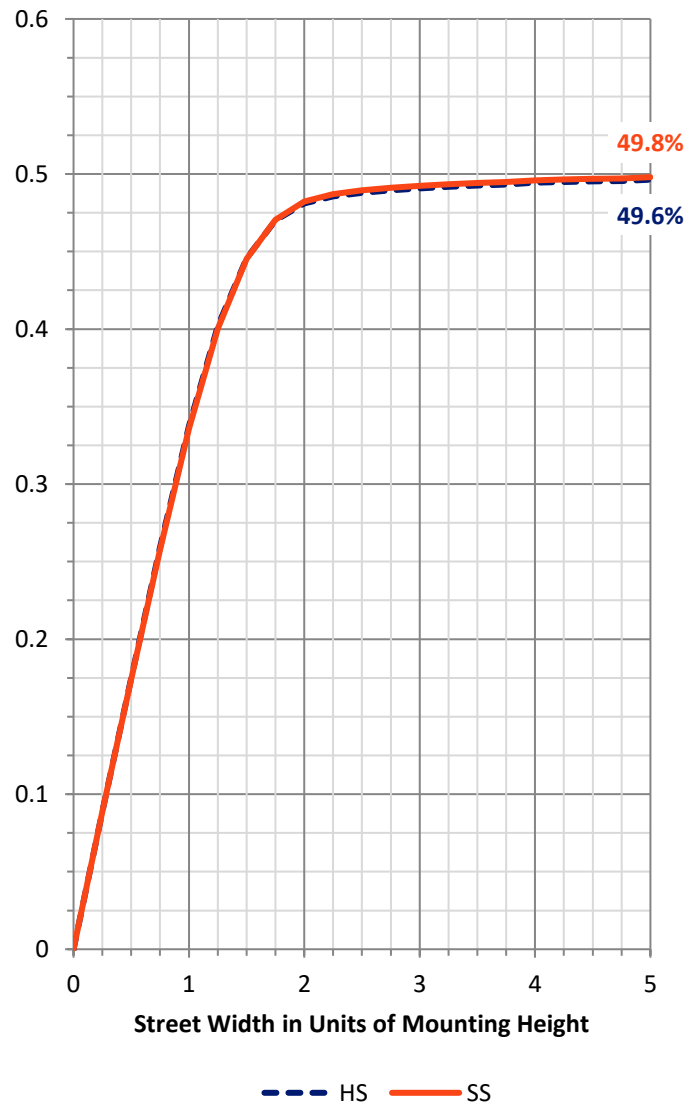
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11555.1	0.0	11555.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11555.1	0.0	11555.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	23110.1	0.0	23110.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	245.9	1.1
10°-20°	763.9	3.3
20°-30°	1437.8	6.2
30°-40°	2546.1	11.0
40°-50°	4257.8	18.4
50°-60°	5933.3	25.7
60°-70°	5502.2	23.8
70°-80°	2192.8	9.5
80°-90°	230.5	1.0
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°	23110.1	100.0
0°-180°	23110.1	100.0



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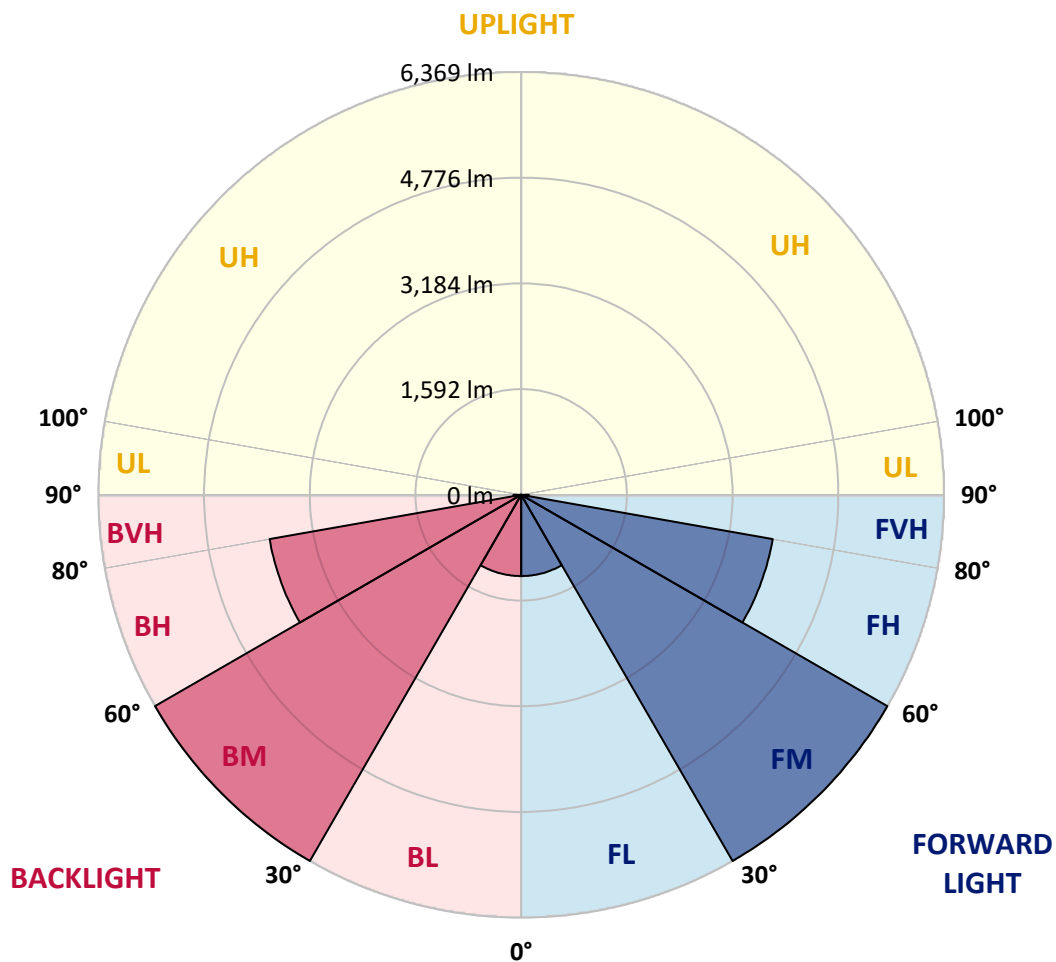
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1223.8	5.3			
FM	(30°-60°)	6368.6	27.6			
FH	(60°-80°)	3847.5	16.6			G2/5000
FVH	(80°-90°)	115.2	0.5			G2/225
BL	(0°-30°)	1223.8	5.3	B3/2500		
BM	(30°-60°)	6368.6	27.6	B4/8500		
BH	(60°-80°)	3847.5	16.6	B4/5000		G4/5000
BVH	(80°-90°)	115.2	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2563.5	2563.5	2563.5	2563.5	2563.5	2563.5	2563.5	2563.5	2563.5	2563.5	2563.5
2.5°	2559.1	2556.9	2559.1	2558.0	2560.2	2560.2	2562.4	2566.7	2566.7	2570.0	2568.9
5°	2534.0	2532.9	2536.1	2539.4	2542.7	2549.3	2555.8	2565.6	2573.3	2578.7	2584.2
7.5°	2484.8	2484.8	2489.2	2496.8	2504.5	2518.7	2534.0	2553.6	2573.3	2589.7	2603.9
10°	2444.4	2446.6	2452.0	2465.2	2478.3	2500.1	2520.9	2549.3	2576.6	2603.9	2625.7
12.5°	2420.4	2423.7	2433.5	2453.1	2475.0	2504.5	2536.1	2572.2	2602.8	2635.5	2657.4
15°	2428.0	2430.2	2444.4	2468.4	2496.8	2534.0	2576.6	2619.2	2655.2	2690.2	2719.6
17.5°	2470.6	2473.9	2490.3	2517.6	2547.1	2590.8	2636.6	2684.7	2729.5	2768.8	2804.8
20°	2547.1	2550.3	2571.1	2600.6	2635.5	2680.3	2726.2	2776.4	2826.7	2868.2	2908.6
22.5°	2655.2	2660.7	2680.3	2709.8	2749.1	2797.2	2851.8	2905.3	2953.4	2991.6	3027.7
25°	2797.2	2809.2	2827.8	2860.5	2902.0	2945.7	3004.7	3059.3	3105.2	3141.2	3167.5
27.5°	2998.2	3014.5	3028.7	3060.4	3100.8	3142.3	3201.3	3249.4	3293.1	3328.0	3347.7
30°	3264.7	3281.0	3295.2	3325.8	3363.0	3402.3	3458.0	3500.6	3527.9	3555.2	3554.1
32.5°	3588.0	3605.4	3610.9	3643.7	3681.9	3724.5	3774.7	3798.8	3820.6	3823.9	3804.2
35°	3949.5	3958.2	3980.1	4023.8	4067.5	4102.4	4150.5	4162.5	4162.5	4146.1	4102.4
37.5°	4346.0	4351.4	4382.0	4431.2	4475.9	4512.0	4544.8	4568.8	4556.8	4521.8	4448.6
40°	4780.7	4790.5	4834.2	4877.9	4928.1	4962.0	4996.9	5001.3	4989.3	4938.0	4838.6
42.5°	5195.7	5204.5	5248.1	5317.0	5382.5	5429.5	5462.2	5468.8	5430.5	5383.6	5260.2
45°	5552.9	5575.8	5632.6	5713.4	5808.5	5875.1	5919.9	5938.4	5904.6	5843.4	5700.3
47.5°	5835.8	5858.7	5939.5	6035.6	6153.6	6261.7	6336.0	6375.3	6366.6	6320.7	6164.5
50°	6043.3	6065.1	6152.5	6270.5	6408.1	6542.4	6669.1	6763.1	6795.8	6775.1	6632.0
52.5°	6067.3	6103.4	6206.0	6364.4	6543.5	6727.0	6907.2	7066.7	7174.8	7191.2	7085.3
55°	5732.0	5768.0	5910.0	6144.9	6411.4	6710.6	6999.0	7267.7	7480.7	7589.9	7534.2
57.5°	4941.2	5005.7	5155.3	5430.5	5822.7	6270.5	6730.3	7207.6	7641.2	7930.7	7986.4
60°	3786.7	3863.2	4013.9	4306.6	4743.5	5277.6	5891.5	6597.0	7362.7	8013.7	8402.5
62.5°	2429.1	2501.2	2659.6	2914.1	3270.1	3849.0	4507.6	5345.4	6374.2	7402.0	8328.2
65°	1248.4	1287.7	1370.7	1524.7	1802.2	2234.7	2825.6	3661.1	4837.5	6105.5	7444.6
67.5°	790.8	798.4	817.0	838.8	909.8	1059.5	1334.7	1855.7	2823.4	4146.1	5713.4
70°	683.7	683.7	675.0	671.7	680.5	701.2	743.8	865.0	1191.6	1968.2	3295.2
72.5°	625.8	619.3	604.0	592.0	589.8	589.8	598.5	617.1	669.5	801.7	1289.9
75°	576.7	558.1	537.4	523.2	517.7	512.3	511.2	514.4	525.4	546.1	616.0
77.5°	516.6	492.6	468.6	454.4	447.8	440.2	433.6	426.0	420.5	427.1	457.6
80°	444.5	417.2	398.7	389.9	383.4	372.4	358.3	345.1	333.1	330.9	349.5
82.5°	358.3	326.6	327.7	330.9	318.9	303.6	288.3	274.1	253.4	242.5	253.4
85°	289.4	273.1	265.4	286.2	268.7	245.8	221.7	196.6	163.8	137.6	149.6
87.5°	112.5	112.5	168.2	258.9	232.6	190.0	162.7	138.7	86.3	66.6	67.7
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):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2563.5	2563.5	2563.5	2563.5	2563.5	2563.5	2563.5	2563.5
2.5°	2567.8	2570.0	2568.9	2567.8	2567.8	2566.7	2567.8	2567.8
5°	2587.5	2592.9	2592.9	2595.1	2595.1	2596.2	2597.3	2596.2
7.5°	2617.0	2626.8	2633.4	2641.0	2642.1	2643.2	2645.4	2643.2
10°	2646.5	2666.1	2680.3	2694.5	2701.1	2703.3	2705.4	2705.4
12.5°	2683.6	2710.9	2736.0	2761.1	2773.2	2779.7	2779.7	2784.1
15°	2744.8	2772.1	2801.6	2835.4	2856.2	2867.1	2870.4	2870.4
17.5°	2831.1	2855.1	2880.2	2913.0	2939.2	2953.4	2956.7	2955.6
20°	2931.5	2954.5	2968.7	2989.4	3012.4	3028.7	3033.1	3033.1
22.5°	3046.2	3059.3	3061.5	3068.1	3086.6	3108.5	3118.3	3120.5
25°	3172.9	3176.2	3167.5	3167.5	3179.5	3200.2	3210.1	3211.1
27.5°	3336.8	3320.4	3298.5	3290.9	3298.5	3322.6	3334.6	3338.9
30°	3541.0	3501.7	3451.4	3424.1	3419.8	3451.4	3473.3	3476.6
32.5°	3774.7	3717.9	3651.3	3595.6	3581.4	3601.1	3627.3	3626.2
35°	4052.2	3984.4	3903.6	3832.6	3799.9	3819.5	3856.7	3861.0
37.5°	4372.2	4283.7	4190.9	4101.3	4050.0	4055.4	4094.8	4107.9
40°	4729.3	4614.7	4497.8	4377.6	4304.5	4290.3	4338.3	4346.0
42.5°	5111.6	4964.2	4816.7	4668.2	4574.2	4552.4	4608.1	4604.8
45°	5519.0	5331.2	5158.6	4994.8	4883.3	4850.6	4896.5	4896.5
47.5°	5957.0	5725.5	5520.1	5334.4	5213.2	5166.2	5209.9	5213.2
50°	6421.2	6175.4	5934.1	5727.6	5582.4	5522.3	5579.1	5587.8
52.5°	6883.2	6644.0	6400.4	6164.5	5988.7	5915.5	5981.0	6009.4
55°	7351.8	7116.9	6884.3	6653.8	6445.2	6358.9	6428.8	6464.9
57.5°	7846.6	7629.2	7407.5	7174.8	6973.9	6839.5	6913.8	6961.9
60°	8426.5	8240.8	8010.4	7753.7	7550.6	7414.0	7456.6	7499.2
62.5°	8885.3	8957.3	8761.8	8464.8	8203.7	8029.0	8070.5	8115.2
65°	8663.5	9403.0	9576.6	9276.3	8914.8	8642.8	8625.3	8648.2
67.5°	7241.5	8677.7	9725.2	10011.3	9708.8	9330.9	9261.0	9294.8
70°	4844.0	6633.1	8481.1	9857.3	10223.2	10076.9	10008.1	10028.8
72.5°	2326.4	3863.2	5753.8	7583.3	8697.4	9208.6	9372.4	9452.1
75°	850.8	1533.5	2773.2	4178.9	5045.0	5840.1	6358.9	6570.8
77.5°	513.3	619.3	885.8	1333.6	1510.5	1690.8	1620.9	1655.8
80°	380.1	429.2	486.0	546.1	565.8	565.8	543.9	526.5
82.5°	266.5	298.2	325.5	358.3	367.0	350.6	288.3	229.4
85°	171.5	185.7	197.7	218.4	213.0	203.2	136.5	121.2
87.5°	78.6	89.6	93.9	103.8	99.4	95.0	67.7	56.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)