

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: P299912

Luminaire Tested: **GLNA-AF-07-LED-E1-5WQ-7030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299912  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLNA-AF-07-LED-E1-5WQ-7030-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV  
w/Spill Control OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34534.3 lumens  
Efficiency: N/A  
Efficacy: 117.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B5 - U0 - G4

Input Watts (W): 295  
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

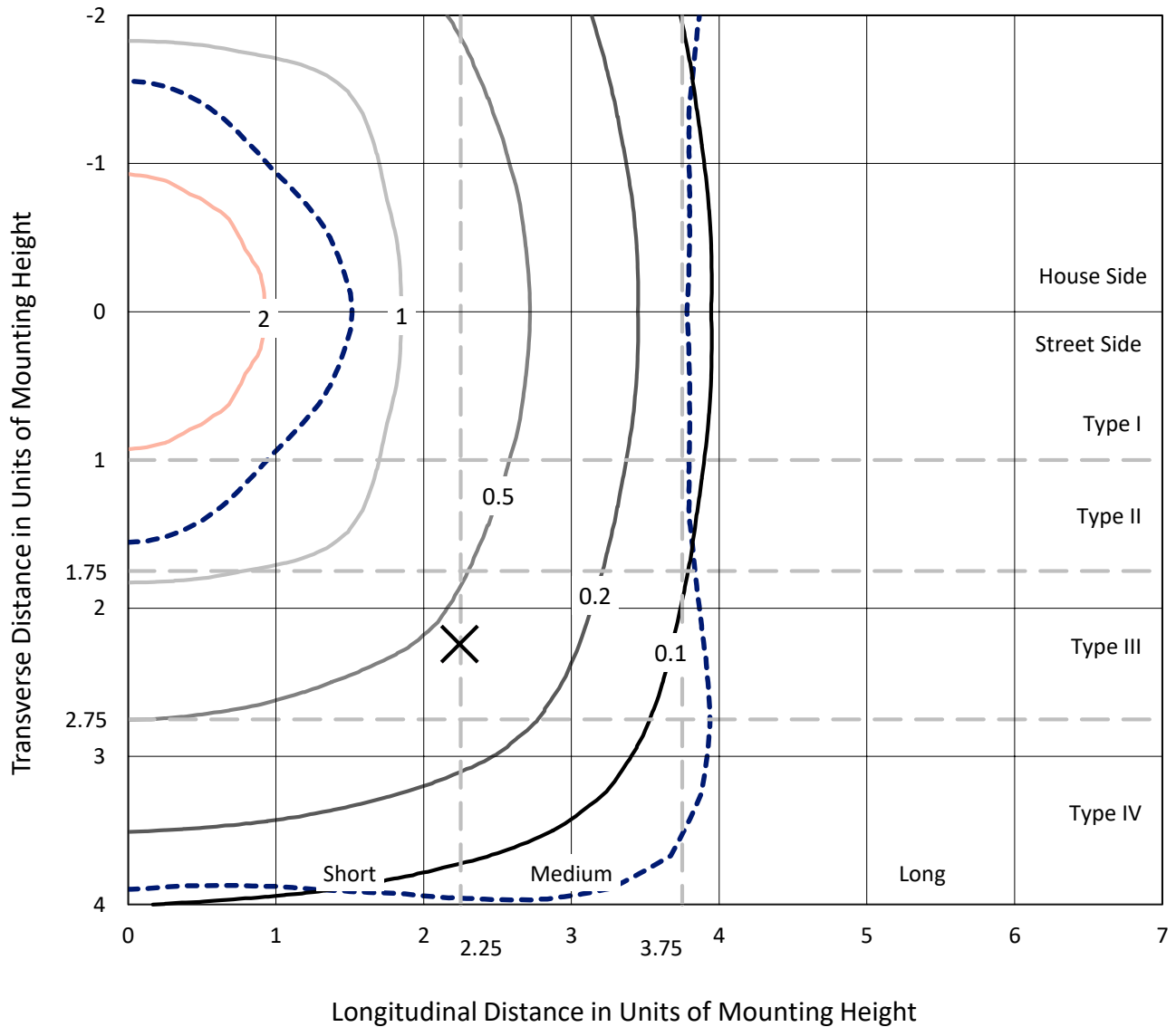


REPORT NUMBER: P299912

CATALOG NUMBER: GLNA-AF-07-LED-E1-5WQ-7030-800

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

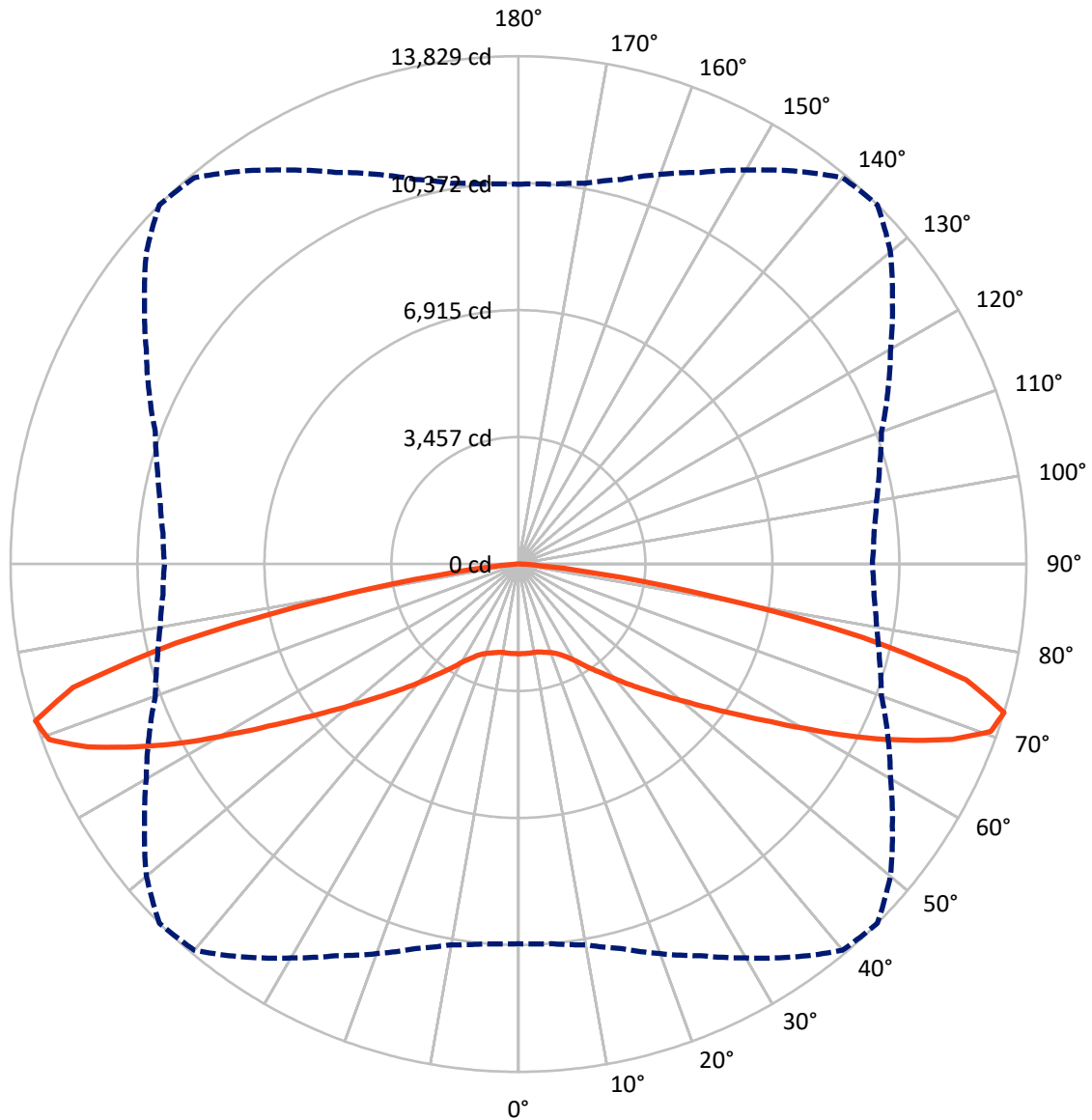


Based on 30 foot mounting height. Maximum calculated value = 2.7 fc  
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P299912

CATALOG NUMBER: GLNA-AF-07-LED-E1-5WQ-7030-800

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P299912

CATALOG NUMBER: GLNA-AF-07-LED-E1-5WQ-7030-800

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17267.1	0.0	17267.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	17267.1	0.0	17267.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	34534.3	0.0	34534.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	233.5	0.7
10°-20°	709.2	2.1
20°-30°	1296.1	3.8
30°-40°	2234.6	6.5
40°-50°	3820.1	11.1
50°-60°	6191.9	17.9
60°-70°	10272.1	29.7
70°-80°	9047.3	26.2
80°-90°	729.5	2.1
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°	34534.3	100.0
0°-180°	34534.3	100.0



REPORT NUMBER: P299912

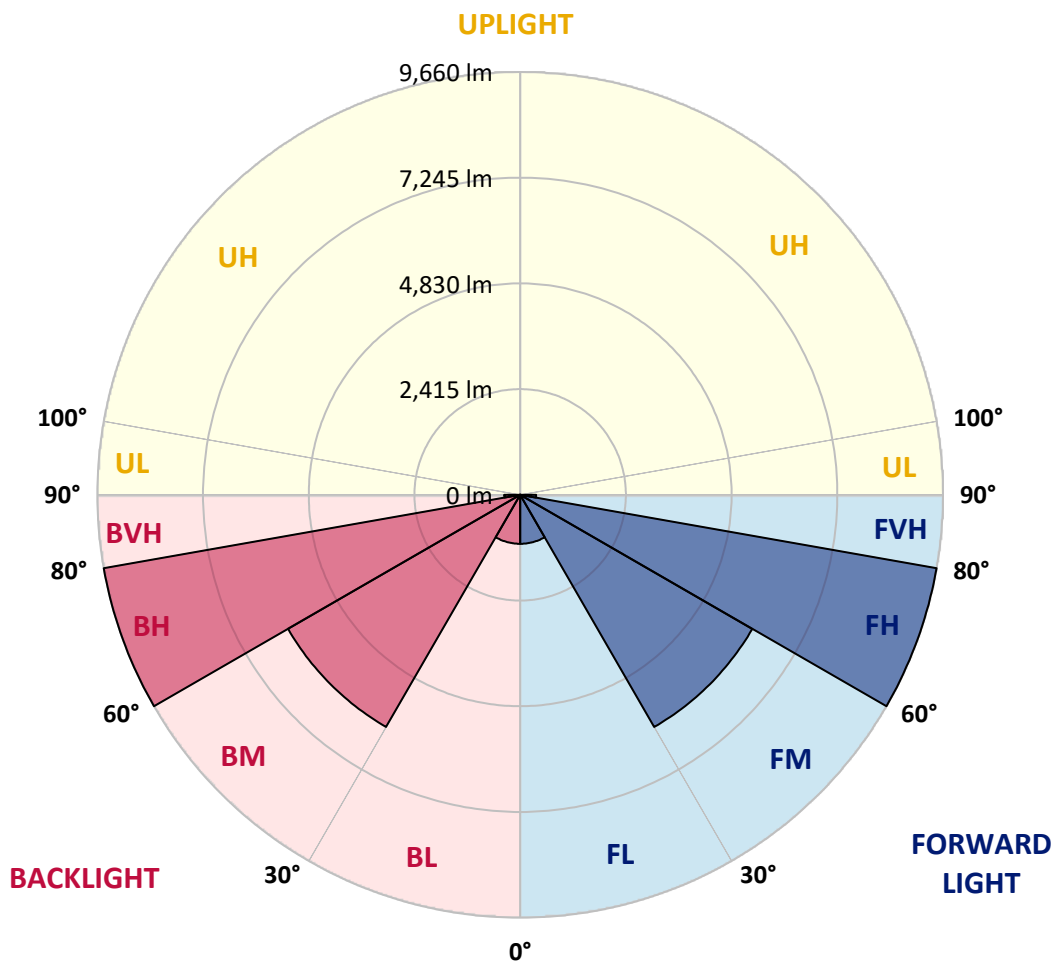
CATALOG NUMBER: GLNA-AF-07-LED-E1-5WQ-7030-800

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1119.4	3.2			
FM	(30°-60°)	6123.3	17.7			
FH	(60°-80°)	9659.7	28.0			G4/12000
FVH	(80°-90°)	364.7	1.1			G3/500
BL	(0°-30°)	1119.4	3.2	B3/2500		
BM	(30°-60°)	6123.3	17.7	B4/8500		
BH	(60°-80°)	9659.7	28.0	B5		G4/12000
BVH	(80°-90°)	364.7	1.1			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**

Type V Short





REPORT NUMBER: P299912

CATALOG NUMBER: GLNA-AF-07-LED-E1-5WQ-7030-800

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2445.6	2445.6	2445.6	2445.6	2445.6	2445.6	2445.6	2445.6	2445.6	2445.6	2445.6
2.5°	2445.6	2447.1	2448.7	2447.1	2447.1	2445.6	2444.0	2445.6	2444.0	2440.8	2442.4
5°	2453.5	2456.6	2456.6	2453.5	2455.1	2453.5	2450.3	2451.9	2448.7	2444.0	2444.0
7.5°	2463.0	2464.6	2464.6	2461.4	2463.0	2459.8	2456.6	2455.1	2451.9	2445.6	2440.8
10°	2477.2	2478.8	2477.2	2474.1	2474.1	2469.3	2461.4	2458.2	2451.9	2442.4	2437.6
12.5°	2493.1	2494.7	2493.1	2489.9	2488.3	2480.4	2474.1	2469.3	2464.6	2456.6	2448.7
15°	2515.3	2518.4	2515.3	2508.9	2504.2	2497.8	2494.7	2496.2	2497.8	2491.5	2483.6
17.5°	2556.4	2558.0	2553.3	2539.0	2532.7	2526.3	2526.3	2529.5	2534.3	2531.1	2523.2
20°	2632.5	2627.7	2616.6	2599.2	2591.3	2580.2	2578.6	2580.2	2580.2	2578.6	2572.3
22.5°	2727.5	2724.3	2710.1	2687.9	2676.8	2670.5	2661.0	2653.1	2651.5	2646.7	2640.4
25°	2841.5	2840.0	2822.5	2803.5	2795.6	2787.7	2779.8	2768.7	2759.2	2748.1	2741.8
27.5°	2987.3	2980.9	2955.6	2946.1	2935.0	2930.2	2919.2	2906.5	2898.6	2884.3	2876.4
30°	3147.2	3147.2	3126.6	3123.5	3123.5	3112.4	3099.7	3077.5	3063.3	3049.0	3044.3
32.5°	3307.2	3308.8	3288.2	3294.5	3299.3	3307.2	3310.4	3302.5	3293.0	3291.4	3281.9
35°	3538.5	3532.1	3511.5	3516.3	3514.7	3513.1	3513.1	3530.5	3533.7	3536.9	3517.9
37.5°	3825.2	3825.2	3804.6	3804.6	3795.1	3785.6	3772.9	3784.0	3801.4	3806.1	3793.5
40°	4153.0	4164.1	4138.8	4137.2	4140.3	4110.3	4096.0	4113.4	4124.5	4143.5	4129.3
42.5°	4539.5	4531.6	4506.2	4503.1	4485.6	4476.1	4463.5	4477.7	4495.1	4507.8	4512.6
45°	4910.1	4903.8	4875.3	4875.3	4857.9	4849.9	4856.3	4880.0	4888.0	4905.4	4922.8
47.5°	5276.0	5268.1	5249.1	5257.0	5258.6	5272.8	5293.4	5315.6	5337.8	5361.5	5369.5
50°	5649.8	5651.4	5630.8	5649.8	5673.6	5713.2	5768.6	5805.0	5851.0	5881.1	5890.6
52.5°	5990.4	5996.7	6018.9	6063.2	6110.7	6188.3	6283.4	6372.1	6448.1	6498.8	6495.6
55°	6399.0	6408.5	6462.4	6538.4	6616.0	6733.2	6874.2	7031.0	7157.7	7230.6	7184.6
57.5°	6921.7	6942.3	7002.5	7105.4	7221.1	7373.1	7566.4	7802.4	7998.8	8097.0	8022.5
60°	7639.2	7651.9	7724.7	7838.8	7978.2	8166.7	8424.8	8741.6	9018.8	9148.7	9063.2
62.5°	8584.8	8608.6	8667.2	8782.8	8925.4	9139.2	9454.4	9850.4	10195.6	10376.2	10183.0
65°	9714.1	9790.2	9839.3	9956.5	10089.5	10316.0	10645.5	11070.0	11440.6	11559.4	11336.1
67.5°	10832.4	10898.9	10984.4	11119.1	11253.7	11508.7	11814.4	12226.2	12633.3	12741.0	12394.1
70°	11321.8	11359.8	11492.9	11676.6	11934.8	12235.7	12588.9	13051.4	13555.1	13643.8	13203.5
72.5°	10341.4	10379.4	10528.3	10840.3	11290.1	11768.5	12384.6	13064.1	13729.4	13829.1	13222.5
75°	7821.4	7759.6	7979.8	8393.2	8999.8	9666.6	10528.3	11502.4	12463.8	12588.9	11865.1
77.5°	4042.1	4034.2	4200.5	4713.7	5437.6	6196.3	7145.0	8245.9	9186.7	9566.8	8977.6
80°	1138.8	1151.5	1230.7	1485.7	1908.6	2456.6	3197.9	4229.0	4998.8	5391.6	5062.2
82.5°	446.7	481.5	511.6	559.1	614.6	695.3	928.2	1381.2	1853.2	2214.3	1813.6
85°	160.0	171.1	242.3	286.7	291.4	307.3	350.0	408.6	492.6	587.6	483.1
87.5°	60.2	66.5	77.6	128.3	126.7	115.6	141.0	147.3	110.9	101.4	125.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P299912

CATALOG NUMBER: GLNA-AF-07-LED-E1-5WQ-7030-800

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2445.6	2445.6	2445.6	2445.6	2445.6	2445.6	2445.6	2445.6
2.5°	2439.2	2440.8	2440.8	2442.4	2444.0	2444.0	2447.1	2447.1
5°	2440.8	2440.8	2437.6	2439.2	2437.6	2437.6	2439.2	2439.2
7.5°	2437.6	2436.1	2432.9	2431.3	2428.1	2428.1	2428.1	2428.1
10°	2432.9	2431.3	2428.1	2426.6	2425.0	2425.0	2425.0	2425.0
12.5°	2445.6	2440.8	2437.6	2436.1	2436.1	2436.1	2436.1	2436.1
15°	2478.8	2467.7	2459.8	2459.8	2461.4	2464.6	2464.6	2467.7
17.5°	2520.0	2507.3	2499.4	2493.1	2496.2	2501.0	2504.2	2507.3
20°	2569.1	2562.8	2551.7	2545.3	2545.3	2551.7	2554.9	2556.4
22.5°	2637.2	2632.5	2627.7	2619.8	2619.8	2623.0	2629.3	2629.3
25°	2738.6	2735.4	2732.3	2725.9	2724.3	2724.3	2727.5	2730.7
27.5°	2865.3	2866.9	2863.7	2862.1	2857.4	2855.8	2860.5	2859.0
30°	3034.8	3042.7	3050.6	3044.3	3036.4	3031.6	3026.9	3020.5
32.5°	3264.4	3254.9	3248.6	3237.5	3223.3	3210.6	3201.1	3190.0
35°	3481.4	3465.6	3459.3	3468.8	3467.2	3459.3	3448.2	3438.7
37.5°	3747.5	3744.4	3747.5	3765.0	3761.8	3769.7	3747.5	3746.0
40°	4083.3	4086.5	4108.7	4129.3	4140.3	4151.4	4138.8	4126.1
42.5°	4473.0	4471.4	4479.3	4507.8	4526.8	4539.5	4512.6	4509.4
45°	4884.8	4873.7	4880.0	4903.8	4922.8	4937.1	4907.0	4907.0
47.5°	5337.8	5318.8	5298.2	5325.1	5336.2	5345.7	5321.9	5314.0
50°	5843.1	5803.5	5759.1	5770.2	5770.2	5767.0	5736.9	5735.3
52.5°	6422.8	6349.9	6269.1	6239.0	6221.6	6202.6	6150.3	6125.0
55°	7089.6	6980.3	6853.6	6776.0	6734.8	6682.5	6595.4	6571.7
57.5°	7868.9	7697.8	7479.2	7384.2	7292.3	7206.8	7110.2	7083.3
60°	8792.3	8540.5	8250.6	8074.8	7975.0	7892.6	7792.9	7788.1
62.5°	9821.8	9424.3	9096.4	8938.0	8865.2	8792.3	8697.3	8709.9
65°	10868.8	10453.8	10146.5	10018.3	9950.1	9890.0	9794.9	9809.2
67.5°	11901.5	11519.8	11182.4	11051.0	10974.9	10898.9	10813.4	10827.6
70°	12642.8	12169.2	11789.1	11497.6	11315.5	11109.6	10976.5	10943.3
72.5°	12430.5	11700.4	11096.9	10518.8	10179.8	9904.2	9717.3	9636.5
75°	10757.9	9760.1	8984.0	8274.4	7875.2	7550.5	7314.5	7167.2
77.5°	7989.3	6867.8	5950.8	5133.5	4487.2	4053.2	3747.5	3549.5
80°	4373.2	3326.2	2431.3	1709.0	1256.0	1043.8	921.8	863.2
82.5°	1362.2	879.1	647.8	559.1	519.5	497.3	460.9	402.3
85°	434.0	380.1	353.2	337.4	321.5	280.4	193.2	175.8
87.5°	167.9	172.6	171.1	161.6	164.7	118.8	95.0	83.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)