

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: STREETWORKS

Report Number: P190803

Luminaire Tested: **GAN-AF-05-LED-U-5MQ-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190803
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-05-LED-U-5MQ-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25829.5 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

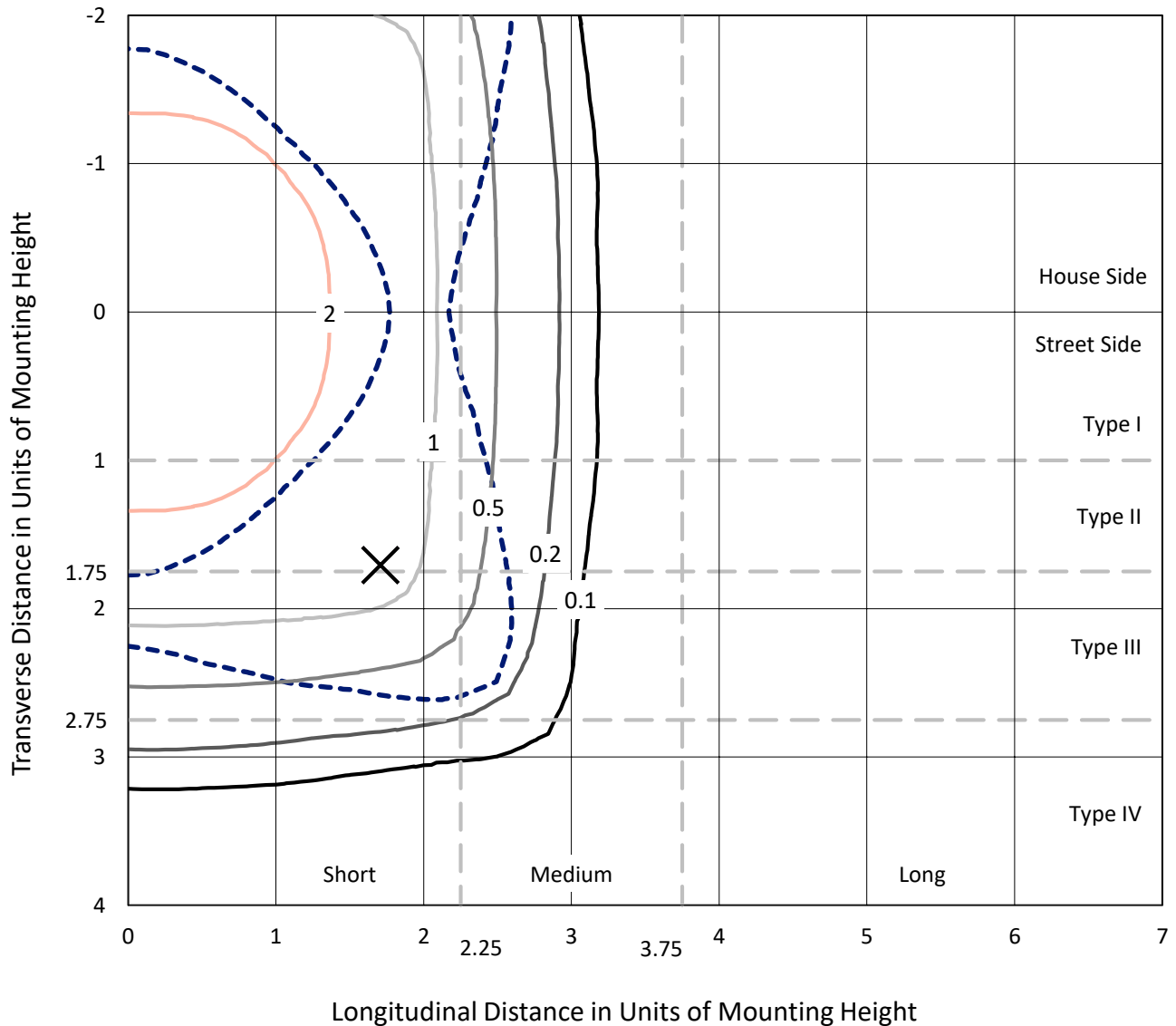
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P190803
 CATALOG NUMBER: GAN-AF-05-LED-U-5MQ-800

Iso-Footcandle Lines of Horizontal Illumination

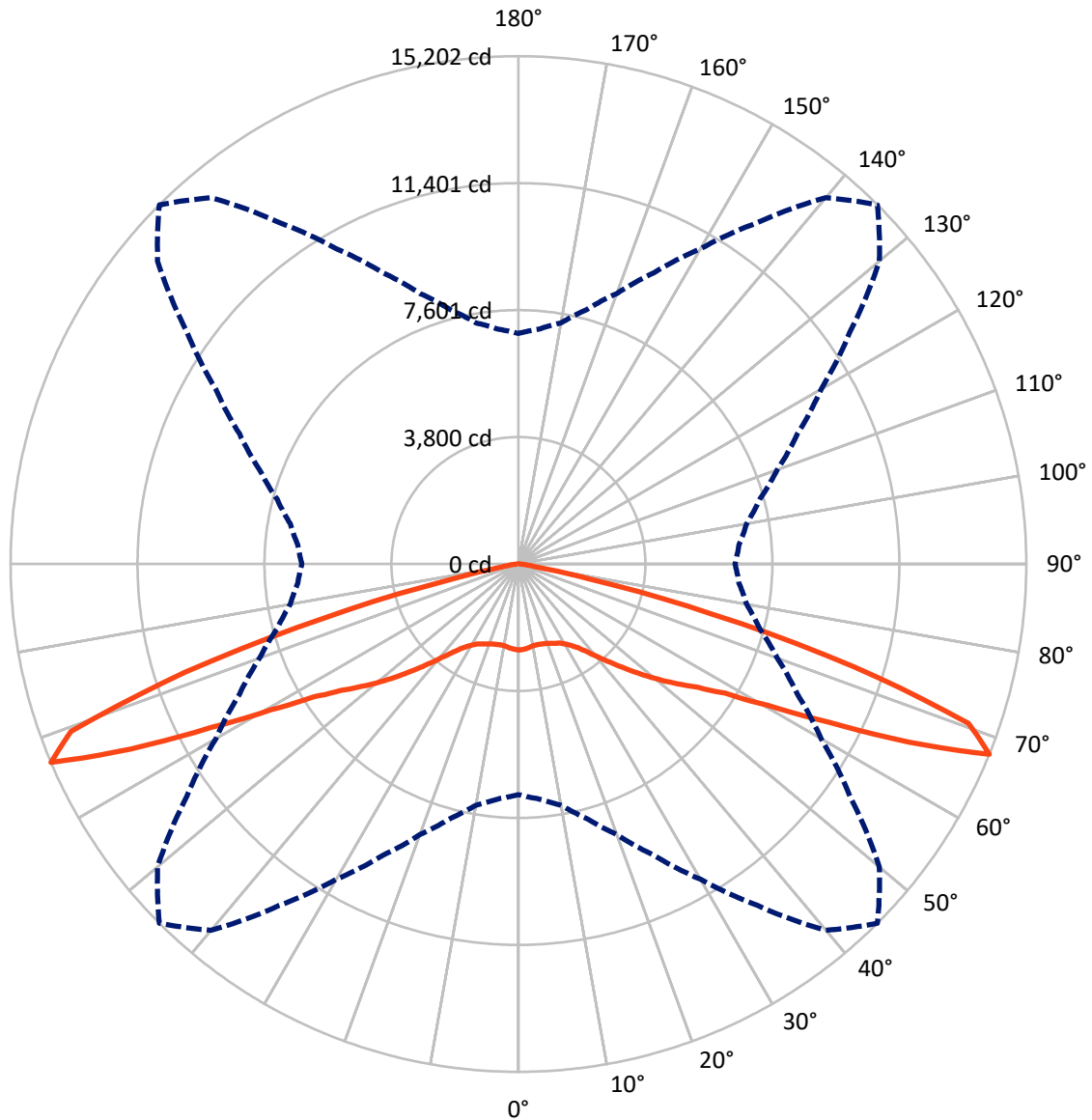
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P190803
CATALOG NUMBER: GAN-AF-05-LED-U-5MQ-800

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12914.8	0.0	12914.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12914.8	0.0	12914.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	25829.5	0.0	25829.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.9	0.9
10°-20°	699.1	2.7
20°-30°	1188.4	4.6
30°-40°	1942.7	7.5
40°-50°	3468.1	13.4
50°-60°	5847.4	22.6
60°-70°	9074.3	35.1
70°-80°	3188.3	12.3
80°-90°	180.2	0.7
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°	25829.5	100.0
0°-180°	25829.5	100.0

Coefficient of Utilization



REPORT NUMBER: P190803

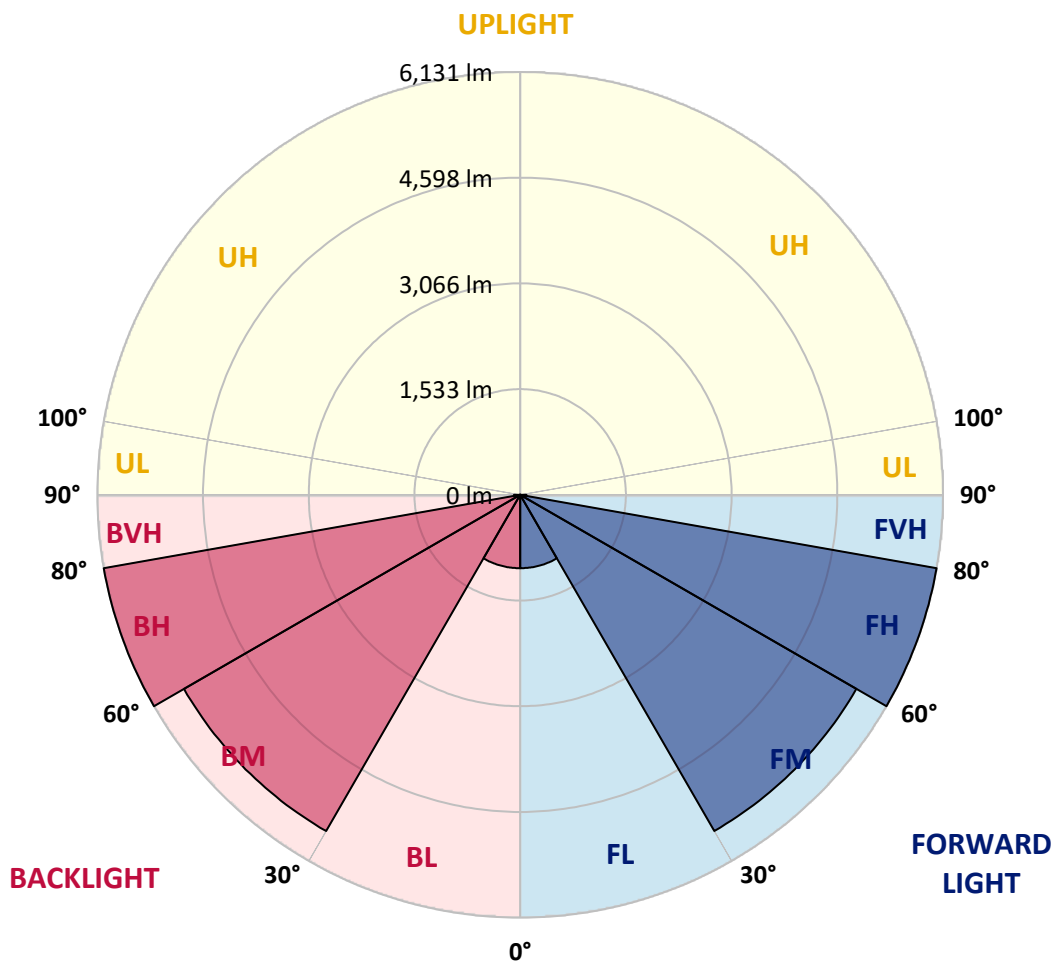
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1064.2	4.1			
FM	(30°-60°)	5629.1	21.8			
FH	(60°-80°)	6131.3	23.7			G3/7500
FVH	(80°-90°)	90.1	0.3			G1/100
BL	(0°-30°)	1064.2	4.1	B3/2500		
BM	(30°-60°)	5629.1	21.8	B4/8500		
BH	(60°-80°)	6131.3	23.7	B5		G3/7500
BVH	(80°-90°)	90.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





REPORT NUMBER: P190803
 CATALOG NUMBER: GAN-AF-05-LED-U-5MQ-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2574.1	2574.1	2574.1	2574.1	2574.1	2574.1	2574.1	2574.1	2574.1	2574.1	2574.1
2.5°	2564.5	2566.9	2566.9	2566.9	2565.7	2565.7	2563.3	2565.7	2564.5	2561.0	2562.2
5°	2543.2	2545.5	2545.5	2544.3	2547.9	2546.7	2543.2	2545.5	2544.3	2541.9	2543.2
7.5°	2512.3	2515.8	2515.8	2514.6	2518.2	2517.0	2514.6	2515.8	2515.8	2512.3	2512.3
10°	2477.8	2480.1	2480.1	2479.0	2485.0	2485.0	2483.7	2487.3	2488.5	2485.0	2482.6
12.5°	2445.8	2449.3	2449.3	2454.1	2460.0	2462.3	2468.3	2473.1	2477.8	2476.7	2471.9
15°	2426.7	2429.1	2433.9	2439.8	2449.3	2457.6	2467.2	2477.8	2487.3	2489.7	2482.6
17.5°	2414.9	2418.5	2425.5	2433.9	2446.9	2461.2	2475.4	2489.7	2502.8	2507.5	2499.2
20°	2411.3	2413.7	2420.8	2435.0	2452.8	2474.2	2494.5	2511.0	2528.8	2534.9	2528.8
22.5°	2418.5	2423.2	2431.5	2448.1	2471.9	2499.2	2522.9	2545.5	2568.1	2578.8	2570.5
25°	2450.5	2455.3	2465.9	2487.3	2513.4	2541.9	2569.2	2595.4	2615.6	2626.3	2620.4
27.5°	2509.9	2515.8	2528.8	2550.2	2578.8	2609.6	2639.3	2660.7	2677.4	2680.9	2673.8
30°	2599.0	2612.0	2627.4	2651.2	2684.5	2710.6	2740.3	2759.3	2779.6	2779.6	2773.5
32.5°	2737.9	2751.0	2767.6	2790.2	2816.3	2844.8	2871.0	2887.6	2909.0	2910.2	2895.9
35°	2945.8	2951.7	2966.0	2980.3	3004.0	3029.0	3051.6	3062.2	3080.0	3081.2	3068.1
37.5°	3220.1	3221.4	3230.9	3235.6	3257.0	3284.4	3305.8	3312.8	3329.5	3327.1	3314.1
40°	3539.7	3545.6	3549.2	3556.4	3578.9	3605.1	3627.6	3631.2	3649.0	3645.5	3628.8
42.5°	3909.1	3911.6	3931.7	3942.4	3963.7	3976.8	4005.4	4008.9	4030.3	4020.8	4001.8
45°	4323.7	4345.1	4364.1	4385.5	4408.0	4423.4	4446.1	4441.2	4455.6	4441.2	4430.6
47.5°	4759.6	4775.0	4817.8	4851.0	4887.9	4901.0	4933.1	4918.8	4933.1	4912.8	4909.2
50°	5239.5	5266.9	5303.7	5341.6	5380.8	5402.2	5443.8	5426.0	5445.0	5426.0	5415.3
52.5°	5712.3	5719.4	5800.1	5856.0	5910.6	5935.6	5960.5	5952.2	5953.4	5952.2	5941.5
55°	6161.2	6177.9	6258.6	6334.7	6429.7	6499.8	6542.6	6537.8	6527.1	6516.4	6498.6
57.5°	6667.3	6683.9	6776.5	6870.3	6978.5	7078.2	7165.0	7254.1	7288.5	7298.0	7258.8
60°	7351.4	7350.3	7473.8	7587.8	7742.2	7890.7	8080.8	8274.4	8496.5	8599.8	8463.3
62.5°	8047.6	8076.0	8254.2	8456.1	8774.5	9084.5	9434.9	9779.4	10131.0	10417.2	10113.2
65°	7964.4	8073.6	8338.6	8795.8	9383.8	10082.3	10837.8	11637.1	12359.3	12855.8	12298.7
67.5°	6902.5	7058.1	7327.7	7883.6	8618.9	9626.2	10894.7	12475.7	14313.3	15201.8	14100.7
70°	5003.2	5178.9	5461.6	6004.4	6732.6	7690.0	9067.8	10966.0	13398.7	14294.3	13081.5
72.5°	2489.7	2584.7	2759.3	3105.0	3656.1	4433.0	5682.6	7507.0	9659.4	10481.4	9373.1
75°	845.8	889.7	919.4	1032.3	1206.9	1512.1	2133.4	3281.9	5006.7	6002.1	4935.4
77.5°	488.2	489.4	509.5	529.8	559.5	592.7	675.9	887.3	1534.6	2179.7	1588.1
80°	316.0	314.8	331.4	346.9	367.0	383.7	388.4	411.0	473.9	561.8	502.5
82.5°	163.9	184.1	221.0	241.1	279.2	286.2	276.8	268.4	283.9	294.6	301.7
85°	90.2	78.4	117.6	152.0	168.7	171.0	171.0	161.5	167.5	163.9	178.2
87.5°	41.5	38.1	46.3	74.9	79.6	67.7	71.3	62.9	45.1	44.0	49.9
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: P190803

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2574.1	2574.1	2574.1	2574.1	2574.1	2574.1	2574.1	2574.1
2.5°	2562.2	2563.3	2563.3	2566.9	2568.1	2570.5	2572.8	2574.1
5°	2541.9	2545.5	2543.2	2546.7	2546.7	2549.1	2549.1	2550.2
7.5°	2512.3	2515.8	2515.8	2515.8	2514.6	2518.2	2518.2	2518.2
10°	2481.4	2483.7	2482.6	2480.1	2477.8	2481.4	2480.1	2479.0
12.5°	2471.9	2465.9	2461.2	2458.8	2454.1	2455.3	2451.7	2451.7
15°	2477.8	2467.2	2458.8	2455.3	2450.5	2448.1	2445.8	2446.9
17.5°	2493.2	2480.1	2469.5	2463.6	2457.6	2454.1	2449.3	2450.5
20°	2520.6	2505.1	2489.7	2477.8	2467.2	2461.2	2457.6	2456.4
22.5°	2561.0	2538.4	2515.8	2498.0	2483.7	2475.4	2471.9	2469.5
25°	2607.3	2582.3	2556.3	2536.0	2521.8	2511.0	2504.0	2504.0
27.5°	2665.5	2645.2	2621.5	2597.8	2584.7	2574.1	2569.2	2566.9
30°	2762.9	2743.9	2724.8	2702.3	2685.7	2675.0	2666.6	2659.6
32.5°	2887.6	2872.1	2856.7	2840.1	2824.7	2810.4	2797.4	2791.4
35°	3063.4	3051.6	3040.8	3021.8	3015.9	3007.6	3000.4	2994.5
37.5°	3305.8	3301.0	3301.0	3280.8	3276.0	3272.4	3265.4	3266.5
40°	3624.0	3628.8	3622.9	3615.7	3612.1	3602.6	3602.6	3611.0
42.5°	4000.6	4004.1	4017.2	4005.4	4018.5	4006.5	3999.4	4005.4
45°	4437.8	4450.8	4476.9	4465.1	4473.4	4453.1	4428.3	4429.4
47.5°	4928.3	4940.1	4950.9	4942.6	4943.7	4910.5	4877.2	4868.9
50°	5437.9	5442.6	5448.5	5436.7	5439.0	5402.2	5364.3	5365.4
52.5°	5941.5	5964.1	5987.8	5955.7	5948.7	5907.0	5853.6	5832.3
55°	6517.6	6549.6	6522.3	6466.5	6410.7	6354.9	6284.8	6272.9
57.5°	7228.0	7173.2	7087.7	6982.0	6904.8	6826.5	6755.2	6725.5
60°	8216.2	8010.7	7856.3	7699.4	7600.9	7504.7	7410.9	7396.5
62.5°	9613.1	9257.9	8950.3	8626.0	8361.1	8154.5	7989.3	7943.0
65°	11364.0	10524.1	9796.0	9116.5	8526.2	8080.8	7800.4	7676.9
67.5°	12117.1	10458.9	9210.4	8245.9	7473.8	6934.5	6631.6	6480.8
70°	10647.7	8673.5	7315.8	6350.1	5646.9	5072.0	4797.6	4636.1
72.5°	7325.4	5517.5	4362.9	3561.1	2999.3	2518.2	2328.1	2313.9
75°	3289.1	2178.5	1501.4	1157.0	974.1	846.9	807.7	778.1
77.5°	920.6	680.7	607.0	567.7	529.8	485.8	469.2	472.7
80°	447.8	422.9	406.2	381.3	346.9	310.1	293.4	300.5
82.5°	297.0	293.4	304.1	286.2	236.4	200.7	168.7	154.5
85°	180.6	182.9	186.5	187.7	159.2	111.7	76.0	85.5
87.5°	71.3	81.9	89.1	92.7	86.7	53.5	42.8	44.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)