

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: P191603

Luminaire Tested: **GAN-AF-05-LED-U-5MQ-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191603
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-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 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: 25250 lumens
Efficiency: N/A
Efficacy: 120.2 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

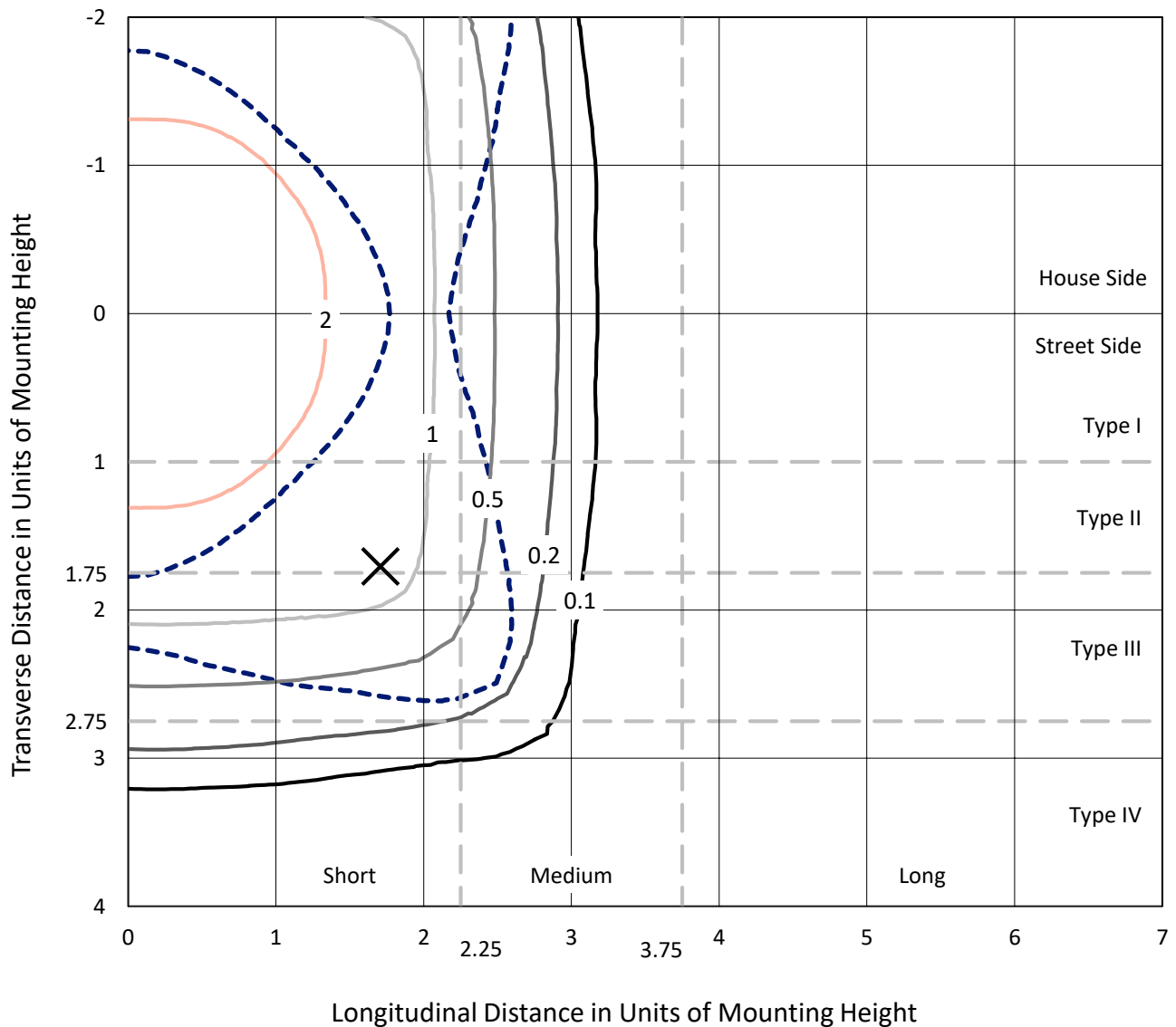


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Iso-Footcandle Lines of Horizontal Illumination

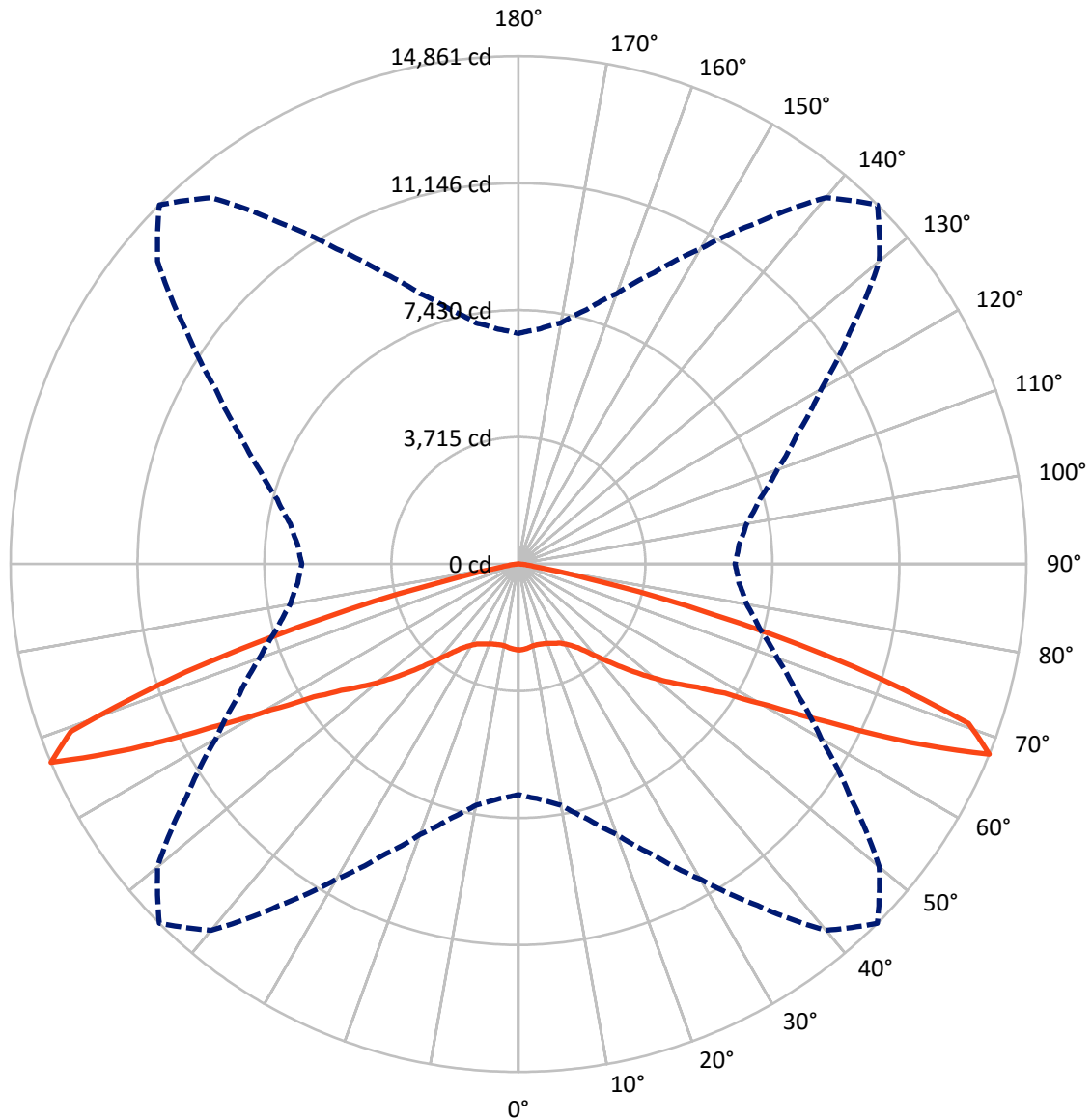
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type V - Short - Full Cutoff

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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	12625.0	0.0	12625.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12625.0	0.0	12625.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	25250.0	0.0	25250.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.5	0.9
10°-20°	683.4	2.7
20°-30°	1161.8	4.6
30°-40°	1899.2	7.5
40°-50°	3390.3	13.4
50°-60°	5716.2	22.6
60°-70°	8870.7	35.1
70°-80°	3116.8	12.3
80°-90°	176.1	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°	25250.0	100.0
0°-180°	25250.0	100.0



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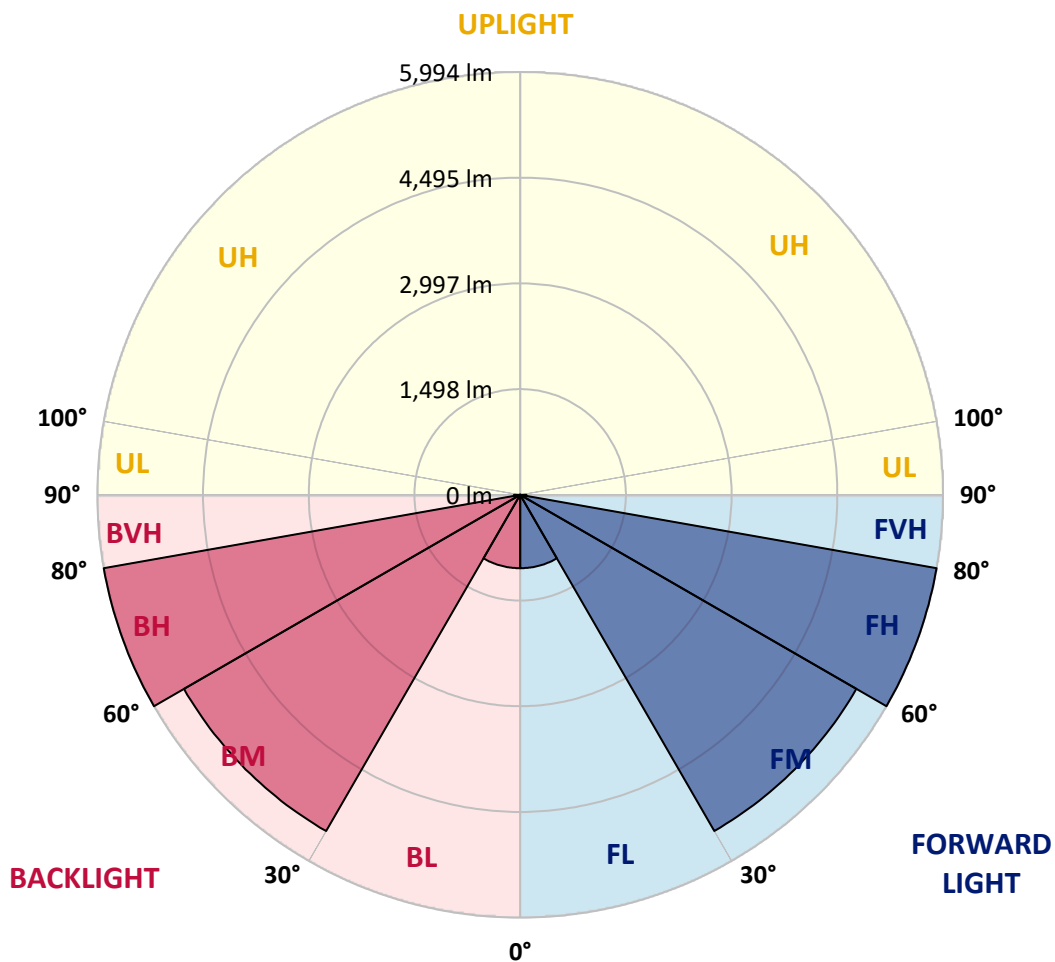
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1040.4	4.1			
FM	(30°-60°)	5502.8	21.8			
FH	(60°-80°)	5993.7	23.7			G3/7500
FVH	(80°-90°)	88.1	0.3			G1/100
BL	(0°-30°)	1040.4	4.1	B3/2500		
BM	(30°-60°)	5502.8	21.8	B4/8500		
BH	(60°-80°)	5993.7	23.7	B5		G3/7500
BVH	(80°-90°)	88.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2516.3	2516.3	2516.3	2516.3	2516.3	2516.3	2516.3	2516.3	2516.3	2516.3	2516.3
2.5°	2507.0	2509.3	2509.3	2509.3	2508.1	2508.1	2505.8	2508.1	2507.0	2503.5	2504.7
5°	2486.1	2488.4	2488.4	2487.2	2490.7	2489.6	2486.1	2488.4	2487.2	2484.9	2486.1
7.5°	2455.9	2459.4	2459.4	2458.2	2461.7	2460.5	2458.2	2459.4	2459.4	2455.9	2455.9
10°	2422.2	2424.5	2424.5	2423.4	2429.2	2429.2	2428.0	2431.5	2432.7	2429.2	2426.9
12.5°	2390.9	2394.3	2394.3	2399.0	2404.8	2407.1	2412.9	2417.6	2422.2	2421.1	2416.4
15°	2372.3	2374.6	2379.3	2385.1	2394.3	2402.5	2411.8	2422.2	2431.5	2433.8	2426.9
17.5°	2360.7	2364.2	2371.1	2379.3	2392.0	2406.0	2419.9	2433.8	2446.6	2451.2	2443.1
20°	2357.2	2359.5	2366.5	2380.4	2397.8	2418.7	2438.5	2454.7	2472.1	2478.0	2472.1
22.5°	2364.2	2368.8	2376.9	2393.2	2416.4	2443.1	2466.3	2488.4	2510.5	2520.9	2512.8
25°	2395.5	2400.2	2410.6	2431.5	2457.0	2484.9	2511.6	2537.2	2556.9	2567.4	2561.6
27.5°	2453.6	2459.4	2472.1	2493.0	2520.9	2551.1	2580.1	2601.0	2617.3	2620.8	2613.8
30°	2540.7	2553.4	2568.5	2591.7	2624.3	2649.8	2678.8	2697.4	2717.2	2717.2	2711.3
32.5°	2676.5	2689.3	2705.5	2727.6	2753.1	2781.0	2806.6	2822.8	2843.7	2844.9	2830.9
35°	2879.7	2885.5	2899.5	2913.4	2936.6	2961.0	2983.1	2993.5	3010.9	3012.1	2999.3
37.5°	3147.9	3149.1	3158.4	3163.0	3183.9	3210.7	3231.6	3238.5	3254.8	3252.5	3239.7
40°	3460.3	3466.1	3469.6	3476.6	3498.6	3524.2	3546.2	3549.7	3567.1	3563.7	3547.4
42.5°	3821.4	3823.8	3843.5	3853.9	3874.8	3887.6	3915.5	3919.0	3939.9	3930.6	3912.0
45°	4226.7	4247.6	4266.2	4287.1	4309.1	4324.2	4346.3	4341.6	4355.6	4341.6	4331.2
47.5°	4652.8	4667.9	4709.7	4742.2	4778.2	4791.0	4822.4	4808.4	4822.4	4802.6	4799.1
50°	5121.9	5148.7	5184.7	5221.8	5260.1	5281.0	5321.7	5304.3	5322.8	5304.3	5293.8
52.5°	5584.1	5591.1	5670.0	5724.6	5778.0	5802.4	5826.8	5818.7	5819.8	5818.7	5808.2
55°	6023.0	6039.3	6118.2	6192.6	6285.4	6354.0	6395.8	6391.1	6380.7	6370.2	6352.8
57.5°	6517.7	6533.9	6624.5	6716.2	6821.9	6919.4	7004.2	7091.3	7125.0	7134.3	7095.9
60°	7186.5	7185.4	7306.1	7417.6	7568.5	7713.7	7899.5	8088.8	8305.9	8406.9	8273.4
62.5°	7867.0	7894.8	8069.0	8266.4	8577.6	8880.7	9223.2	9560.0	9903.7	10183.5	9886.3
65°	7785.7	7892.5	8151.5	8598.5	9173.3	9856.1	10594.6	11376.0	12082.0	12567.4	12022.8
67.5°	6747.6	6899.7	7163.3	7706.7	8425.5	9410.2	10650.3	12195.8	13992.2	14860.7	13784.3
70°	4890.9	5062.7	5339.1	5869.7	6581.5	7517.5	8864.4	10720.0	13098.1	13973.6	12788.0
72.5°	2433.8	2526.7	2697.4	3035.3	3574.1	4333.5	5555.1	7338.6	9442.7	10246.2	9162.8
75°	826.8	869.7	898.8	1009.1	1179.8	1478.2	2085.5	3208.3	4894.4	5867.4	4824.7
77.5°	477.2	478.4	498.1	517.9	546.9	579.4	660.7	867.4	1500.2	2130.8	1552.5
80°	308.9	307.7	324.0	339.1	358.8	375.1	379.7	401.8	463.3	549.2	491.2
82.5°	160.2	180.0	216.0	235.7	272.9	279.8	270.6	262.4	277.5	288.0	294.9
85°	88.2	76.6	115.0	148.6	164.9	167.2	167.2	157.9	163.7	160.2	174.2
87.5°	40.6	37.2	45.3	73.2	77.8	66.2	69.7	61.5	44.1	43.0	48.8
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2516.3	2516.3	2516.3	2516.3	2516.3	2516.3	2516.3	2516.3
2.5°	2504.7	2505.8	2505.8	2509.3	2510.5	2512.8	2515.1	2516.3
5°	2484.9	2488.4	2486.1	2489.6	2489.6	2491.9	2491.9	2493.0
7.5°	2455.9	2459.4	2459.4	2459.4	2458.2	2461.7	2461.7	2461.7
10°	2425.7	2428.0	2426.9	2424.5	2422.2	2425.7	2424.5	2423.4
12.5°	2416.4	2410.6	2406.0	2403.6	2399.0	2400.2	2396.7	2396.7
15°	2422.2	2411.8	2403.6	2400.2	2395.5	2393.2	2390.9	2392.0
17.5°	2437.3	2424.5	2414.1	2408.3	2402.5	2399.0	2394.3	2395.5
20°	2464.0	2448.9	2433.8	2422.2	2411.8	2406.0	2402.5	2401.3
22.5°	2503.5	2481.4	2459.4	2442.0	2428.0	2419.9	2416.4	2414.1
25°	2548.8	2524.4	2498.9	2479.1	2465.2	2454.7	2447.8	2447.8
27.5°	2605.7	2585.9	2562.7	2539.5	2526.7	2516.3	2511.6	2509.3
30°	2700.9	2682.3	2663.7	2641.7	2625.4	2615.0	2606.8	2599.9
32.5°	2822.8	2807.7	2792.6	2776.4	2761.3	2747.3	2734.6	2728.8
35°	2994.7	2983.1	2972.6	2954.0	2948.2	2940.1	2933.1	2927.3
37.5°	3231.6	3226.9	3226.9	3207.2	3202.5	3199.0	3192.1	3193.2
40°	3542.7	3547.4	3541.6	3534.6	3531.1	3521.8	3521.8	3530.0
42.5°	3910.8	3914.3	3927.1	3915.5	3928.3	3916.6	3909.7	3915.5
45°	4338.2	4350.9	4376.5	4364.9	4373.0	4353.2	4328.9	4330.0
47.5°	4817.7	4829.3	4839.8	4831.7	4832.8	4800.3	4767.8	4759.7
50°	5315.9	5320.5	5326.3	5314.7	5317.0	5281.0	5243.9	5245.0
52.5°	5808.2	5830.3	5853.5	5822.1	5815.2	5774.5	5722.3	5701.4
55°	6371.4	6402.7	6376.0	6321.4	6266.9	6212.3	6143.8	6132.2
57.5°	7065.8	7012.3	6928.7	6825.4	6749.9	6673.3	6603.6	6574.6
60°	8031.9	7831.0	7680.0	7526.7	7430.4	7336.3	7244.6	7230.6
62.5°	9397.4	9050.2	8749.5	8432.5	8173.5	7971.5	7810.1	7764.8
65°	11109.0	10288.0	9576.2	8912.0	8334.9	7899.5	7625.4	7504.7
67.5°	11845.2	10224.2	9003.8	8060.9	7306.1	6778.9	6482.8	6335.4
70°	10408.8	8478.9	7151.7	6207.6	5520.2	4958.2	4690.0	4532.1
72.5°	7161.0	5393.7	4265.0	3481.2	2932.0	2461.7	2275.9	2262.0
75°	3215.3	2129.6	1467.7	1131.0	952.2	827.9	789.6	760.6
77.5°	899.9	665.4	593.4	555.0	517.9	474.9	458.7	462.1
80°	437.8	413.4	397.1	372.7	339.1	303.1	286.8	293.8
82.5°	290.3	286.8	297.3	279.8	231.1	196.2	164.9	151.0
85°	176.5	178.8	182.3	183.5	155.6	109.2	74.3	83.6
87.5°	69.7	80.1	87.1	90.6	84.8	52.3	41.8	43.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)