

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: P299660

Luminaire Tested: **GAA-AF-05-LED-U-5MQ-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299660
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: GAA-AF-05-LED-U-5MQ-7030-800
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III
w/Spill Control OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24339.3 lumens
Efficiency: N/A
Efficacy: 115.9 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

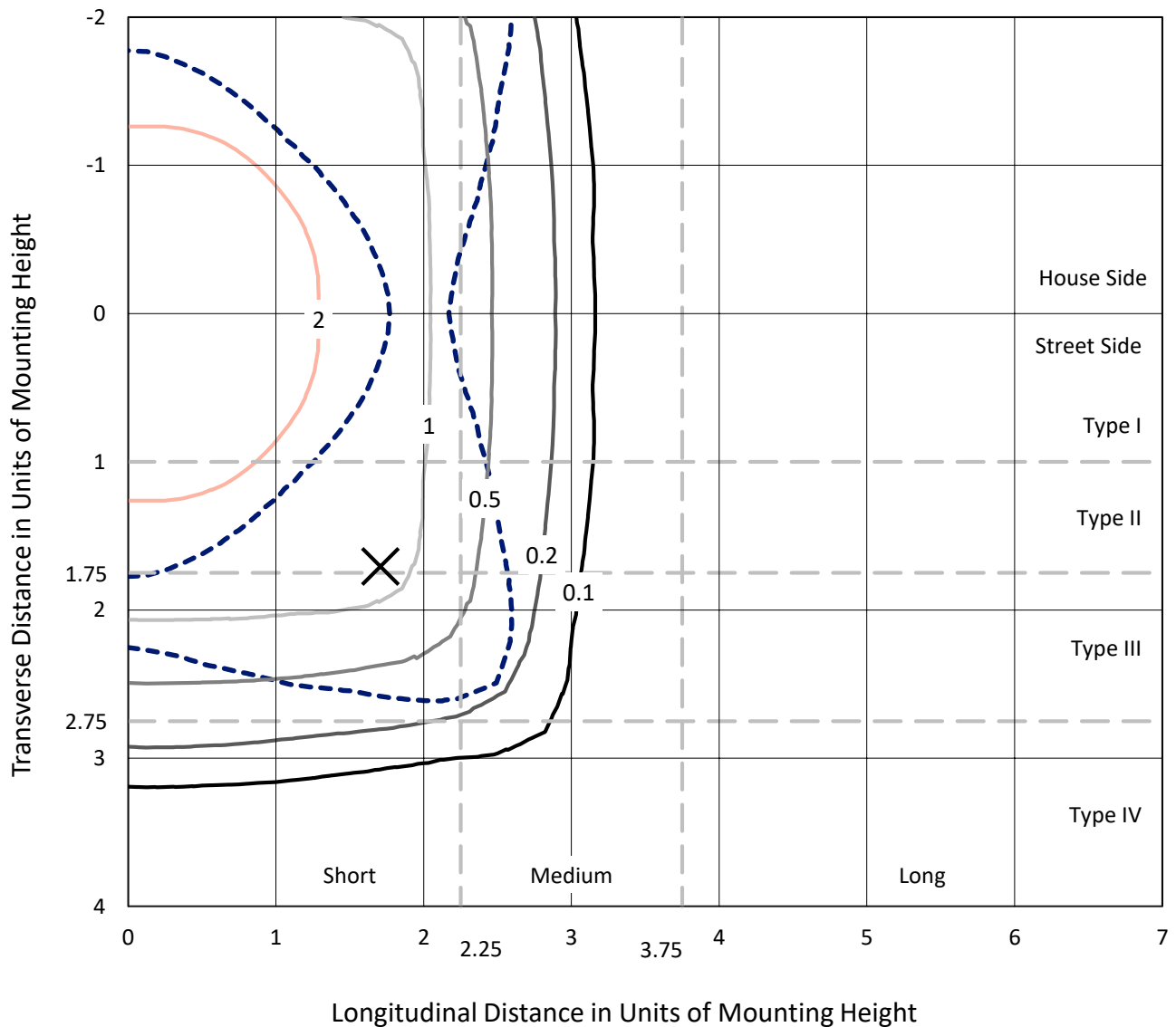


REPORT NUMBER: P299660

CATALOG NUMBER: GAA-AF-05-LED-U-5MQ-7030-800

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

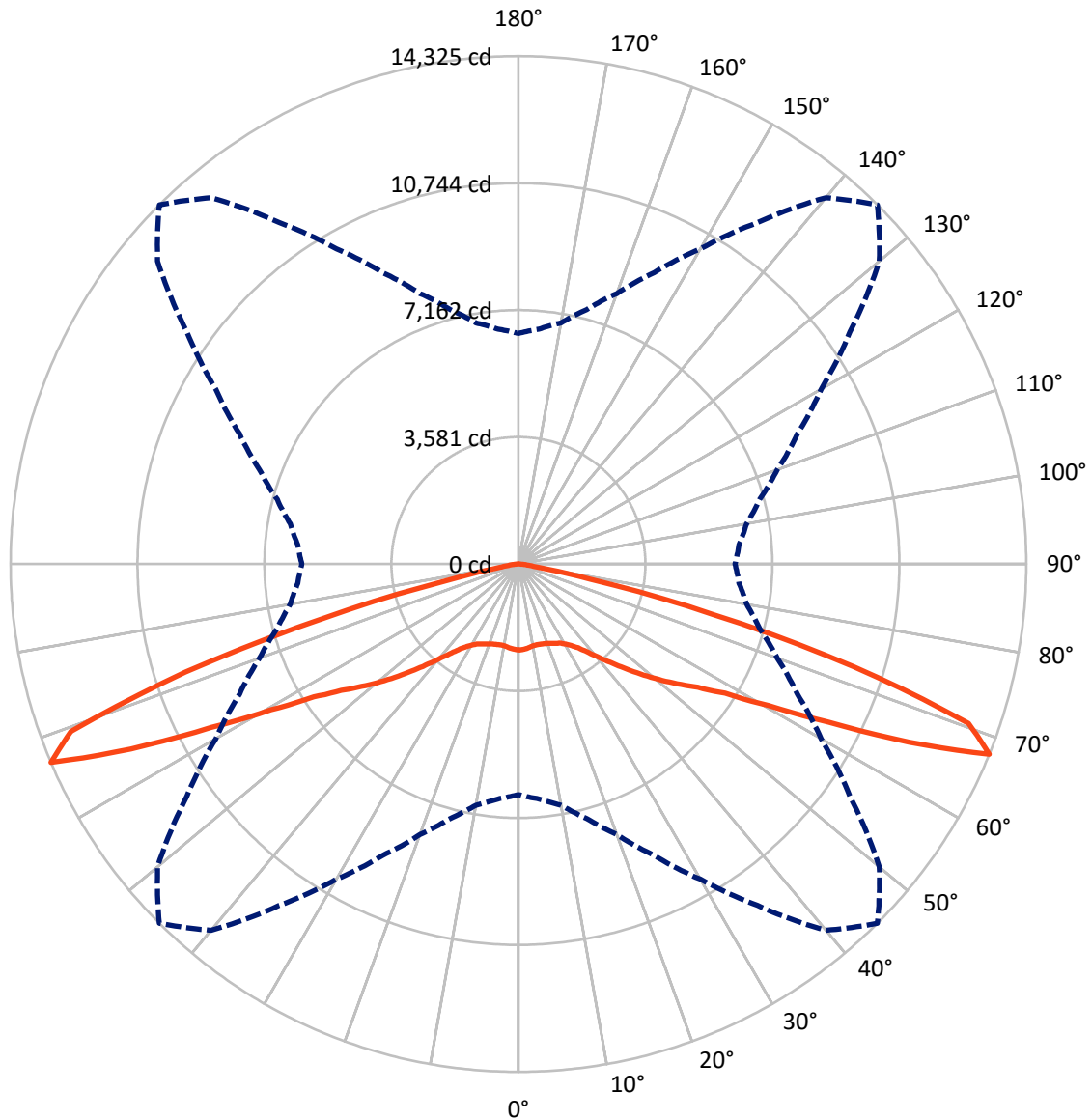


Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P299660

CATALOG NUMBER: GAA-AF-05-LED-U-5MQ-7030-800

Luminous Intensity Polar Plot



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

REPORT NUMBER: P299660

CATALOG NUMBER: GAA-AF-05-LED-U-5MQ-7030-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12169.7	0.0	12169.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12169.7	0.0	12169.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	24339.3	0.0	24339.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.0	0.9
10°-20°	658.8	2.7
20°-30°	1119.9	4.6
30°-40°	1830.7	7.5
40°-50°	3268.1	13.4
50°-60°	5510.0	22.6
60°-70°	8550.8	35.1
70°-80°	3004.4	12.3
80°-90°	169.8	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°	24339.3	100.0
0°-180°	24339.3	100.0



REPORT NUMBER: P299660

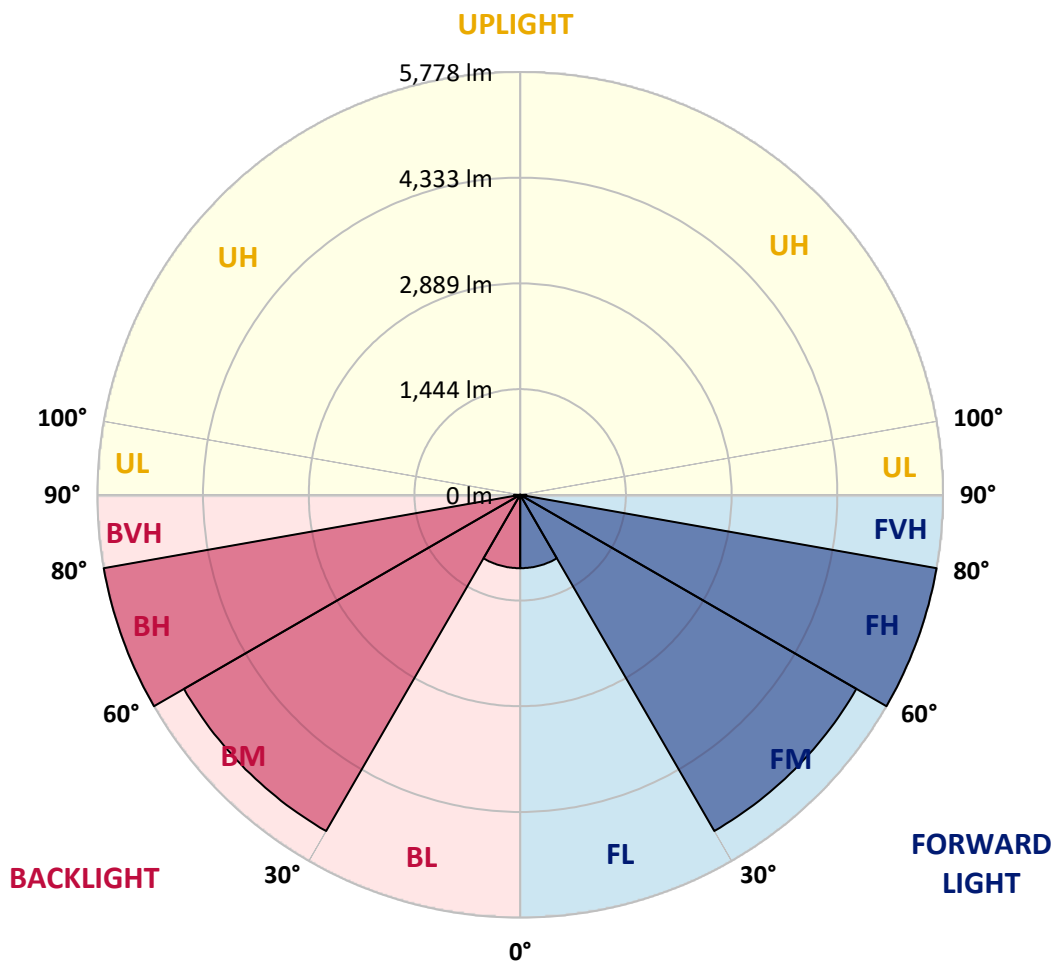
CATALOG NUMBER: GAA-AF-05-LED-U-5MQ-7030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1002.8	4.1			
FM	(30°-60°)	5304.4	21.8			
FH	(60°-80°)	5777.6	23.7			G3/7500
FVH	(80°-90°)	84.9	0.3			G1/100
BL	(0°-30°)	1002.8	4.1	B3/2500		
BM	(30°-60°)	5304.4	21.8	B4/8500		
BH	(60°-80°)	5777.6	23.7	B5		G3/7500
BVH	(80°-90°)	84.9	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: P299660

CATALOG NUMBER: GAA-AF-05-LED-U-5MQ-7030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2425.5	2425.5	2425.5	2425.5	2425.5	2425.5	2425.5	2425.5	2425.5	2425.5	2425.5
2.5°	2416.6	2418.8	2418.8	2418.8	2417.7	2417.7	2415.4	2417.7	2416.6	2413.2	2414.3
5°	2396.4	2398.7	2398.7	2397.5	2400.9	2399.8	2396.4	2398.7	2397.5	2395.3	2396.4
7.5°	2367.3	2370.7	2370.7	2369.5	2372.9	2371.8	2369.5	2370.7	2370.7	2367.3	2367.3
10°	2334.9	2337.1	2337.1	2336.0	2341.6	2341.6	2340.4	2343.8	2344.9	2341.6	2339.3
12.5°	2304.6	2308.0	2308.0	2312.5	2318.1	2320.3	2325.9	2330.4	2334.9	2333.7	2329.3
15°	2286.7	2289.0	2293.4	2299.0	2308.0	2315.8	2324.8	2334.9	2343.8	2346.0	2339.3
17.5°	2275.5	2278.9	2285.6	2293.4	2305.7	2319.2	2332.6	2346.0	2358.4	2362.8	2355.0
20°	2272.2	2274.4	2281.1	2294.6	2311.3	2331.5	2350.5	2366.2	2383.0	2388.6	2383.0
22.5°	2278.9	2283.4	2291.2	2306.9	2329.3	2355.0	2377.4	2398.7	2419.9	2430.0	2422.2
25°	2309.1	2313.6	2323.7	2343.8	2368.4	2395.3	2421.0	2445.7	2464.7	2474.8	2469.2
27.5°	2365.1	2370.7	2383.0	2403.1	2430.0	2459.1	2487.1	2507.2	2522.9	2526.3	2519.5
30°	2449.0	2461.3	2475.9	2498.3	2529.6	2554.2	2582.2	2600.1	2619.2	2619.2	2613.6
32.5°	2580.0	2592.3	2608.0	2629.2	2653.9	2680.7	2705.3	2721.0	2741.2	2742.3	2728.8
35°	2775.9	2781.5	2794.9	2808.3	2830.7	2854.2	2875.5	2885.5	2902.3	2903.5	2891.1
37.5°	3034.4	3035.5	3044.5	3049.0	3069.1	3094.9	3115.0	3121.7	3137.4	3135.1	3122.8
40°	3335.5	3341.1	3344.5	3351.2	3372.4	3397.1	3418.3	3421.7	3438.5	3435.1	3419.4
42.5°	3683.6	3685.8	3704.9	3714.9	3735.1	3747.4	3774.3	3777.6	3797.8	3788.8	3770.9
45°	4074.2	4094.4	4112.3	4132.4	4153.7	4168.3	4189.5	4185.0	4198.5	4185.0	4175.0
47.5°	4485.0	4499.6	4539.9	4571.2	4605.9	4618.2	4648.4	4635.0	4648.4	4629.4	4626.0
50°	4937.2	4963.0	4997.7	5033.5	5070.4	5090.6	5129.7	5112.9	5130.9	5112.9	5102.9
52.5°	5382.7	5389.4	5465.5	5518.1	5569.6	5593.1	5616.6	5608.8	5609.9	5608.8	5598.7
55°	5805.8	5821.5	5897.6	5969.2	6058.7	6124.8	6165.1	6160.6	6150.5	6140.5	6123.7
57.5°	6282.6	6298.3	6385.6	6474.0	6575.9	6669.9	6751.6	6835.5	6868.0	6877.0	6840.0
60°	6927.3	6926.2	7042.6	7150.1	7295.6	7435.5	7614.6	7797.0	8006.3	8103.7	7975.0
62.5°	7583.2	7610.1	7778.0	7968.3	8268.2	8560.4	8890.6	9215.2	9546.5	9816.2	9529.7
65°	7504.9	7607.9	7857.5	8288.4	8842.4	9500.6	10212.5	10965.7	11646.3	12114.1	11589.2
67.5°	6504.2	6650.9	6904.9	7428.8	8121.6	9070.8	10266.2	11756.0	13487.5	14324.7	13287.2
70°	4714.5	4880.1	5146.5	5658.0	6344.2	7246.3	8544.7	10333.3	12625.7	13469.6	12326.8
72.5°	2346.0	2435.6	2600.1	2925.8	3445.2	4177.2	5354.7	7073.9	9102.1	9876.7	8832.4
75°	796.9	838.4	866.3	972.7	1137.2	1424.9	2010.3	3092.6	4717.8	5655.8	4650.7
77.5°	460.0	461.1	480.2	499.2	527.2	558.5	636.9	836.1	1446.1	2053.9	1496.5
80°	297.7	296.6	312.3	326.8	345.9	361.5	366.0	387.3	446.6	529.4	473.5
82.5°	154.5	173.5	208.2	227.2	263.0	269.8	260.8	253.0	267.5	277.6	284.3
85°	85.1	73.9	110.8	143.3	158.9	161.2	161.2	152.2	157.8	154.5	167.9
87.5°	39.2	35.8	43.7	70.5	75.0	63.8	67.2	59.3	42.5	41.4	47.0
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: P299660

CATALOG NUMBER: GAA-AF-05-LED-U-5MQ-7030-800

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2425.5	2425.5	2425.5	2425.5	2425.5	2425.5	2425.5	2425.5
2.5°	2414.3	2415.4	2415.4	2418.8	2419.9	2422.2	2424.4	2425.5
5°	2395.3	2398.7	2396.4	2399.8	2399.8	2402.0	2402.0	2403.1
7.5°	2367.3	2370.7	2370.7	2370.7	2369.5	2372.9	2372.9	2372.9
10°	2338.2	2340.4	2339.3	2337.1	2334.9	2338.2	2337.1	2336.0
12.5°	2329.3	2323.7	2319.2	2316.9	2312.5	2313.6	2310.2	2310.2
15°	2334.9	2324.8	2316.9	2313.6	2309.1	2306.9	2304.6	2305.7
17.5°	2349.4	2337.1	2327.0	2321.4	2315.8	2312.5	2308.0	2309.1
20°	2375.1	2360.6	2346.0	2334.9	2324.8	2319.2	2315.8	2314.7
22.5°	2413.2	2391.9	2370.7	2353.9	2340.4	2332.6	2329.3	2327.0
25°	2456.9	2433.3	2408.7	2389.7	2376.3	2366.2	2359.5	2359.5
27.5°	2511.7	2492.7	2470.3	2447.9	2435.6	2425.5	2421.0	2418.8
30°	2603.5	2585.6	2567.7	2546.4	2530.7	2520.7	2512.8	2506.1
32.5°	2721.0	2706.5	2691.9	2676.2	2661.7	2648.3	2635.9	2630.3
35°	2886.7	2875.5	2865.4	2847.5	2841.9	2834.1	2827.3	2821.7
37.5°	3115.0	3110.5	3110.5	3091.5	3087.0	3083.7	3076.9	3078.1
40°	3415.0	3419.4	3413.9	3407.1	3403.8	3394.8	3394.8	3402.7
42.5°	3769.8	3773.1	3785.5	3774.3	3786.6	3775.4	3768.7	3774.3
45°	4181.7	4194.0	4218.6	4207.4	4215.3	4196.2	4172.7	4173.9
47.5°	4644.0	4655.2	4665.2	4657.4	4658.5	4627.2	4595.8	4588.0
50°	5124.1	5128.6	5134.2	5123.0	5125.3	5090.6	5054.7	5055.9
52.5°	5598.7	5620.0	5642.4	5612.1	5605.4	5566.3	5515.9	5495.7
55°	6141.6	6171.8	6146.1	6093.4	6040.8	5988.2	5922.2	5911.0
57.5°	6810.9	6759.4	6678.8	6579.2	6506.5	6432.6	6365.4	6337.5
60°	7742.2	7548.5	7403.0	7255.3	7162.4	7071.7	6983.3	6969.9
62.5°	9058.5	8723.8	8433.9	8128.3	7878.7	7684.0	7528.4	7484.7
65°	10708.3	9917.0	9230.8	8590.6	8034.3	7614.6	7350.4	7234.0
67.5°	11417.9	9855.4	8679.0	7770.2	7042.6	6534.4	6249.0	6106.9
70°	10033.4	8173.1	6893.7	5983.8	5321.1	4779.4	4520.8	4368.6
72.5°	6902.7	5199.1	4111.2	3355.6	2826.2	2372.9	2193.8	2180.4
75°	3099.3	2052.8	1414.8	1090.2	917.8	798.1	761.1	733.1
77.5°	867.5	641.4	572.0	535.0	499.2	457.8	442.1	445.5
80°	422.0	398.5	382.8	359.3	326.8	292.1	276.5	283.2
82.5°	279.8	276.5	286.5	269.8	222.7	189.2	158.9	145.5
85°	170.1	172.4	175.7	176.8	150.0	105.2	71.6	80.6
87.5°	67.2	77.2	83.9	87.3	81.7	50.4	40.3	41.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)