

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: P192625

Luminaire Tested: **GAN-AF-07-LED-U-5WQ-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192625
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: STREETWORKS
Catalog Number: GAN-AF-07-LED-U-5WQ-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34653.7 lumens
Efficiency: N/A
Efficacy: 117.5 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: 28.75 FT

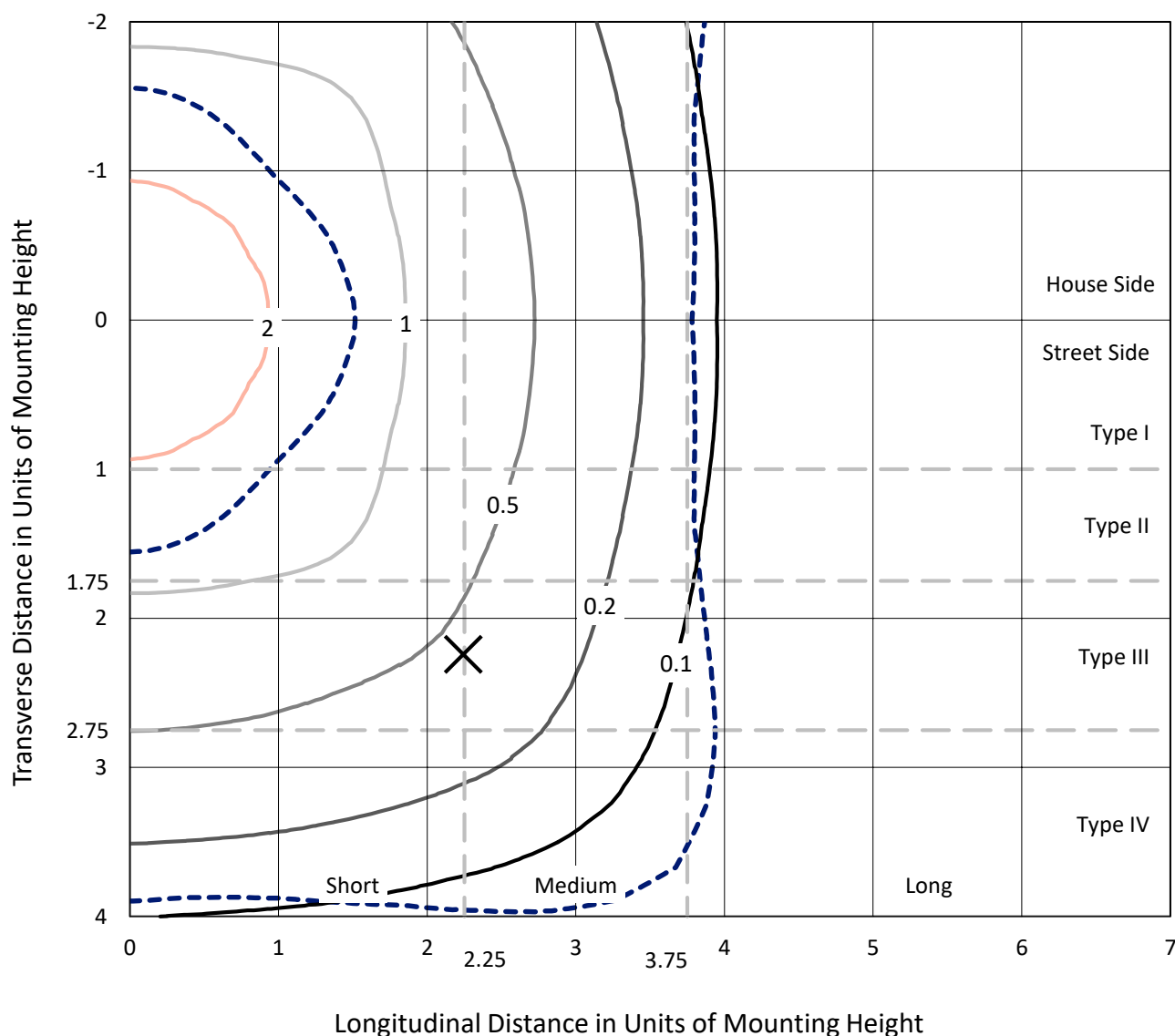


REPORT NUMBER: P192625

CATALOG NUMBER: GAN-AF-07-LED-U-5WQ-7030-800

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

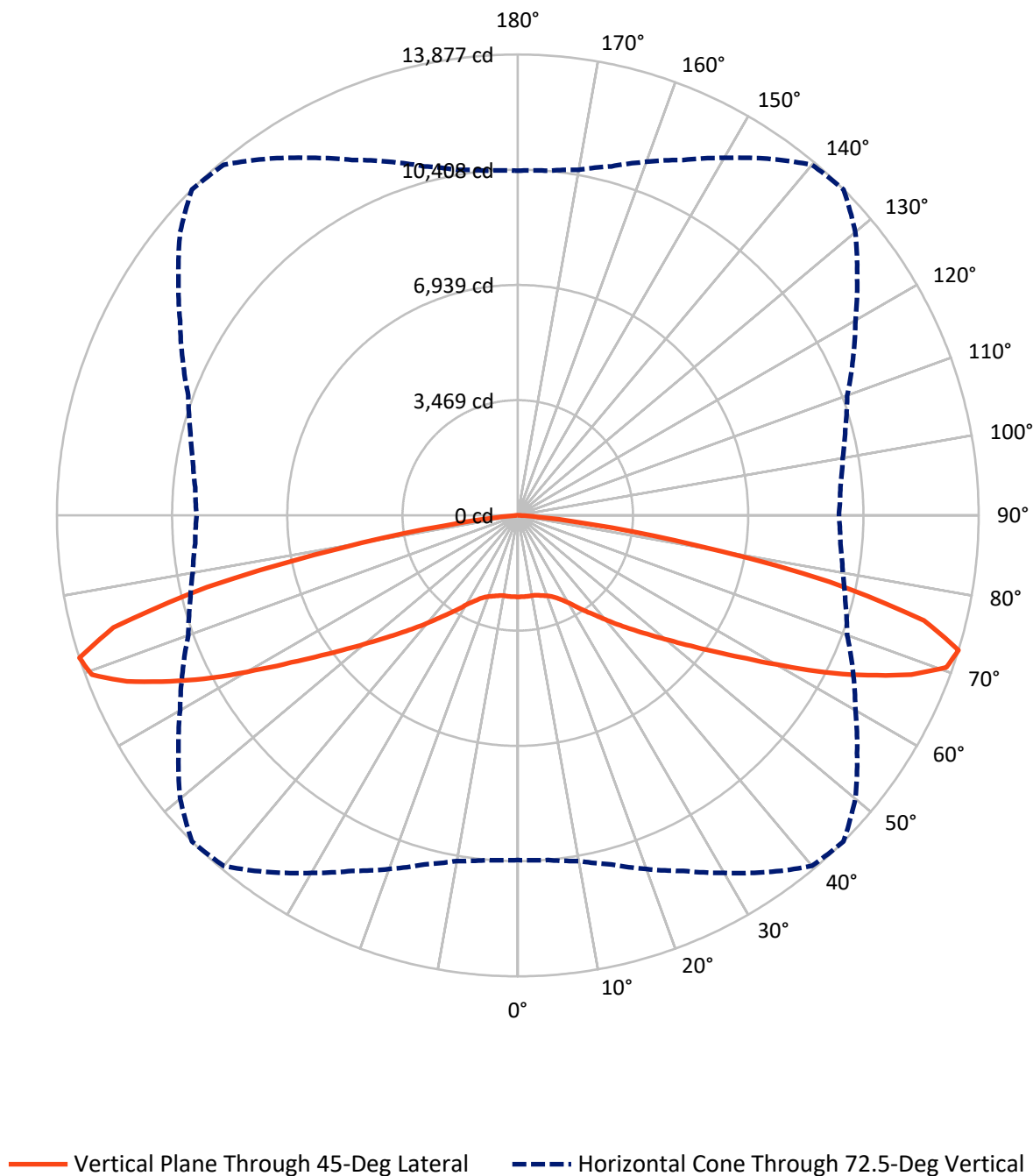


Based on 30 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P192625

CATALOG NUMBER: GAN-AF-07-LED-U-5WQ-7030-800

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17326.9	0.0	17326.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17326.9	0.0	17326.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	34653.7	0.0	34653.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.3	0.7
10°-20°	711.7	2.1
20°-30°	1300.5	3.8
30°-40°	2242.4	6.5
40°-50°	3833.3	11.1
50°-60°	6213.3	17.9
60°-70°	10307.6	29.7
70°-80°	9078.6	26.2
80°-90°	732.0	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°	34653.7	100.0
0°-180°	34653.7	100.0

Coefficient of Utilization



REPORT NUMBER: P192625

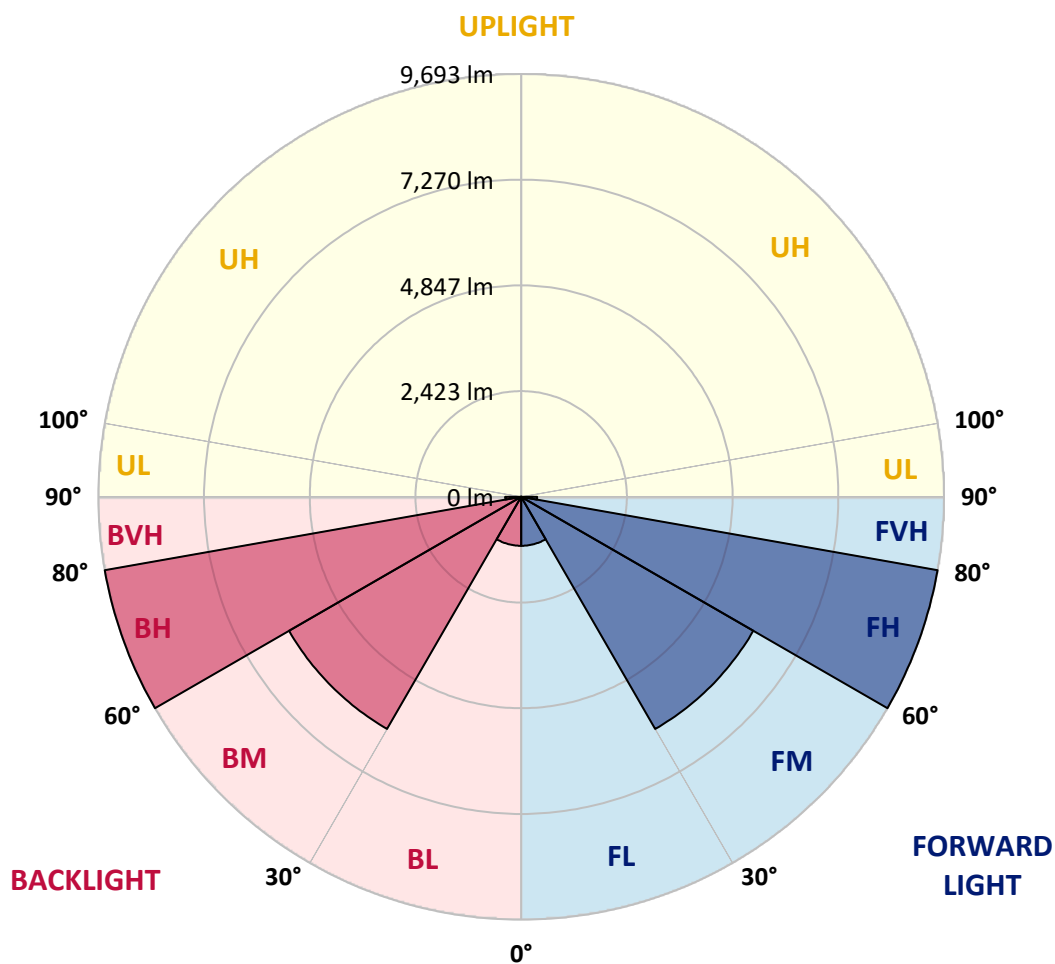
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1123.3	3.2			
FM	(30°-60°)	6144.5	17.7			
FH	(60°-80°)	9693.1	28.0			G4/12000
FVH	(80°-90°)	366.0	1.1			G3/500
BL	(0°-30°)	1123.3	3.2	B3/2500		
BM	(30°-60°)	6144.5	17.7	B4/8500		
BH	(60°-80°)	9693.1	28.0	B5		G4/12000
BVH	(80°-90°)	366.0	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: P192625

CATALOG NUMBER: GAN-AF-07-LED-U-5WQ-7030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2454.1	2454.1	2454.1	2454.1	2454.1	2454.1	2454.1	2454.1	2454.1	2454.1	2454.1
2.5°	2454.1	2455.6	2457.2	2455.6	2455.6	2454.1	2452.5	2454.1	2452.5	2449.3	2450.8
5°	2461.9	2465.1	2465.1	2461.9	2463.6	2461.9	2458.8	2460.4	2457.2	2452.5	2452.5
7.5°	2471.6	2473.1	2473.1	2470.0	2471.6	2468.2	2465.1	2463.6	2460.4	2454.1	2449.3
10°	2485.8	2487.4	2485.8	2482.6	2482.6	2477.9	2470.0	2466.7	2460.4	2450.8	2446.1
12.5°	2501.7	2503.3	2501.7	2498.5	2496.9	2489.0	2482.6	2477.9	2473.1	2465.1	2457.2
15°	2524.0	2527.1	2524.0	2517.6	2512.9	2506.5	2503.3	2504.9	2506.5	2500.1	2492.2
17.5°	2565.3	2566.8	2562.1	2547.8	2541.5	2535.1	2535.1	2538.3	2543.0	2539.8	2531.9
20°	2641.6	2636.8	2625.7	2608.2	2600.3	2589.1	2587.6	2589.1	2589.1	2587.6	2581.1
22.5°	2737.0	2733.7	2719.5	2697.2	2686.0	2679.7	2670.2	2662.2	2660.7	2655.9	2649.5
25°	2851.3	2849.8	2832.3	2813.2	2805.2	2797.4	2789.4	2778.3	2768.7	2757.6	2751.2
27.5°	2997.6	2991.2	2965.9	2956.2	2945.2	2940.3	2929.2	2916.5	2908.6	2894.3	2886.3
30°	3158.1	3158.1	3137.5	3134.3	3134.3	3123.1	3110.4	3088.2	3073.9	3059.6	3054.8
32.5°	3318.6	3320.3	3299.6	3305.9	3310.7	3318.6	3321.8	3313.9	3304.3	3302.8	3293.2
35°	3550.7	3544.4	3523.7	3528.4	3526.9	3525.2	3525.2	3542.7	3545.9	3549.1	3530.0
37.5°	3838.4	3838.4	3817.7	3817.7	3808.2	3798.6	3786.0	3797.1	3814.6	3819.2	3806.6
40°	4167.3	4178.5	4153.1	4151.6	4154.7	4124.4	4110.3	4127.7	4138.7	4157.9	4143.5
42.5°	4555.2	4547.3	4521.8	4518.6	4501.2	4491.6	4478.9	4493.2	4510.7	4523.5	4528.1
45°	4927.1	4920.8	4892.2	4892.2	4874.7	4866.7	4873.1	4896.9	4904.8	4922.3	4939.8
47.5°	5294.2	5286.3	5267.3	5275.1	5276.7	5291.1	5311.7	5334.0	5356.2	5380.2	5388.0
50°	5669.4	5671.0	5650.4	5669.4	5693.2	5733.0	5788.5	5825.1	5871.3	5901.4	5910.9
52.5°	6011.1	6017.5	6039.8	6084.2	6131.8	6209.7	6305.2	6394.2	6470.5	6521.2	6518.1
55°	6421.1	6430.7	6484.7	6561.0	6638.9	6756.5	6898.0	7055.3	7182.4	7255.6	7209.5
57.5°	6945.6	6966.3	7026.7	7130.0	7246.1	7398.6	7592.5	7829.4	8026.4	8124.9	8050.3
60°	7665.6	7678.4	7751.5	7865.9	8005.8	8194.9	8453.9	8771.9	9050.1	9180.3	9094.5
62.5°	8614.5	8638.4	8697.1	8813.2	8956.2	9170.7	9487.1	9884.4	10230.9	10412.1	10218.3
65°	9747.8	9824.0	9873.3	9990.8	10124.4	10351.8	10682.3	11108.3	11480.2	11599.4	11375.3
67.5°	10869.8	10936.7	11022.4	11157.5	11292.6	11548.4	11855.2	12268.5	12677.1	12785.1	12437.0
70°	11361.0	11399.1	11532.7	11717.0	11976.1	12278.1	12632.5	13096.6	13602.0	13691.1	13249.3
72.5°	10377.1	10415.2	10564.8	10877.9	11329.2	11809.2	12427.4	13109.4	13776.8	13877.0	13268.2
75°	7848.4	7786.5	8007.4	8422.2	9031.0	9700.0	10564.8	11542.1	12506.9	12632.5	11906.2
77.5°	4056.1	4048.2	4215.1	4730.1	5456.4	6217.7	7169.8	8274.4	9218.5	9599.9	9008.7
80°	1142.8	1155.5	1234.9	1490.9	1915.2	2465.1	3209.0	4243.6	5016.1	5410.3	5079.7
82.5°	448.2	483.2	513.4	561.0	616.7	697.7	931.4	1386.0	1859.6	2222.0	1819.8
85°	160.5	171.6	243.2	287.7	292.5	308.3	351.3	410.0	494.3	589.7	484.8
87.5°	60.4	66.7	77.9	128.7	127.2	116.1	141.5	147.8	111.2	101.7	125.5
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: P192625

CATALOG NUMBER: GAN-AF-07-LED-U-5WQ-7030-800

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2454.1	2454.1	2454.1	2454.1	2454.1	2454.1	2454.1	2454.1
2.5°	2447.6	2449.3	2449.3	2450.8	2452.5	2452.5	2455.6	2455.6
5°	2449.3	2449.3	2446.1	2447.6	2446.1	2446.1	2447.6	2447.6
7.5°	2446.1	2444.4	2441.3	2439.8	2436.6	2436.6	2436.6	2436.6
10°	2441.3	2439.8	2436.6	2435.0	2433.3	2433.3	2433.3	2433.3
12.5°	2454.1	2449.3	2446.1	2444.4	2444.4	2444.4	2444.4	2444.4
15°	2487.4	2476.3	2468.2	2468.2	2470.0	2473.1	2473.1	2476.3
17.5°	2528.7	2516.0	2508.0	2501.7	2504.9	2509.6	2512.9	2516.0
20°	2578.0	2571.6	2560.5	2554.2	2554.2	2560.5	2563.7	2565.3
22.5°	2646.4	2641.6	2636.8	2628.9	2628.9	2632.0	2638.4	2638.4
25°	2748.1	2744.9	2741.8	2735.3	2733.7	2733.7	2737.0	2740.1
27.5°	2875.2	2876.8	2873.6	2872.0	2867.3	2865.7	2870.5	2868.8
30°	3045.3	3053.2	3061.2	3054.8	3046.9	3042.1	3037.3	3031.0
32.5°	3275.7	3266.2	3259.9	3248.8	3234.4	3221.7	3212.1	3201.1
35°	3493.4	3477.6	3471.2	3480.8	3479.2	3471.2	3460.1	3450.6
37.5°	3760.4	3757.3	3760.4	3777.9	3774.8	3782.8	3760.4	3758.9
40°	4097.4	4100.6	4122.9	4143.5	4154.7	4165.8	4153.1	4140.4
42.5°	4488.5	4486.8	4494.8	4523.5	4542.5	4555.2	4528.1	4525.0
45°	4901.7	4890.6	4896.9	4920.8	4939.8	4954.2	4924.0	4924.0
47.5°	5356.2	5337.2	5316.5	5343.6	5354.7	5364.2	5340.4	5332.4
50°	5863.3	5823.5	5779.0	5790.2	5790.2	5787.0	5756.8	5755.2
52.5°	6444.9	6371.9	6290.8	6260.7	6243.2	6224.1	6171.6	6146.2
55°	7114.1	7004.5	6877.4	6799.4	6758.1	6705.7	6618.3	6594.4
57.5°	7896.0	7724.4	7505.1	7409.8	7317.5	7231.8	7134.7	7107.8
60°	8822.6	8570.0	8279.1	8102.7	8002.5	7919.9	7819.8	7815.1
62.5°	9855.8	9456.9	9127.8	8969.0	8895.9	8822.6	8727.4	8740.0
65°	10906.4	10490.0	10181.7	10053.0	9984.5	9924.1	9828.9	9843.1
67.5°	11942.7	11559.6	11221.2	11089.2	11012.9	10936.7	10850.7	10865.1
70°	12686.5	12211.4	11829.8	11537.4	11354.7	11148.0	11014.5	10981.1
72.5°	12473.6	11740.9	11135.2	10555.2	10215.0	9938.4	9751.0	9669.9
75°	10795.2	9793.9	9015.1	8303.0	7902.5	7576.7	7339.8	7192.0
77.5°	8016.9	6891.6	5971.3	5151.2	4502.8	4067.2	3760.4	3561.9
80°	4388.3	3337.8	2439.8	1715.0	1260.5	1047.4	925.0	866.2
82.5°	1366.9	882.2	650.1	561.0	521.2	499.1	462.5	403.7
85°	435.5	381.5	354.4	338.6	322.7	281.4	193.9	176.5
87.5°	168.5	173.2	171.6	162.1	165.3	119.2	95.4	84.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)