

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: P268642

Luminaire Tested: **GAN-AF-07-LED-U-5MQ-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268642
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-07-LED-U-5MQ-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25318.3 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 226
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

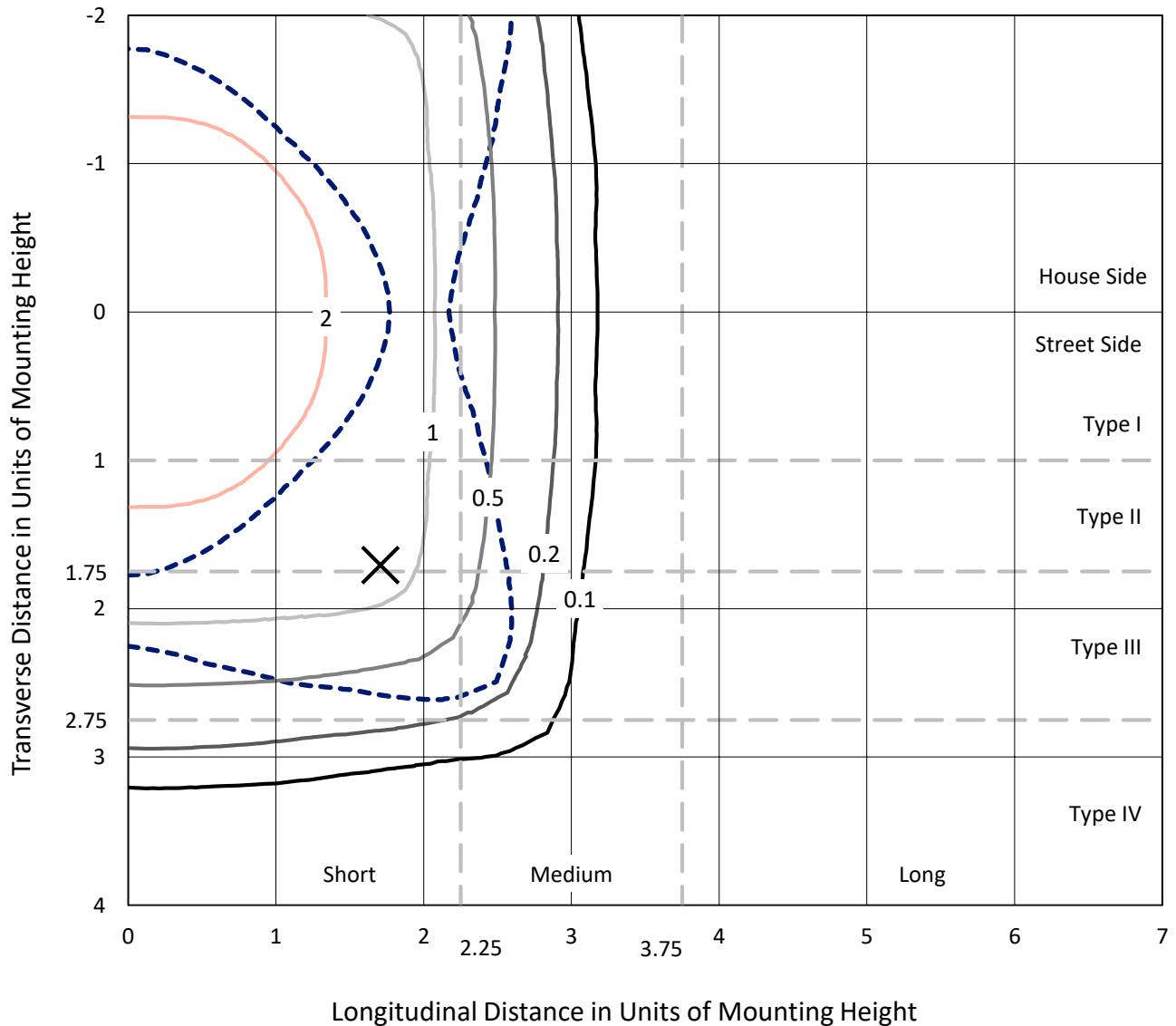


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

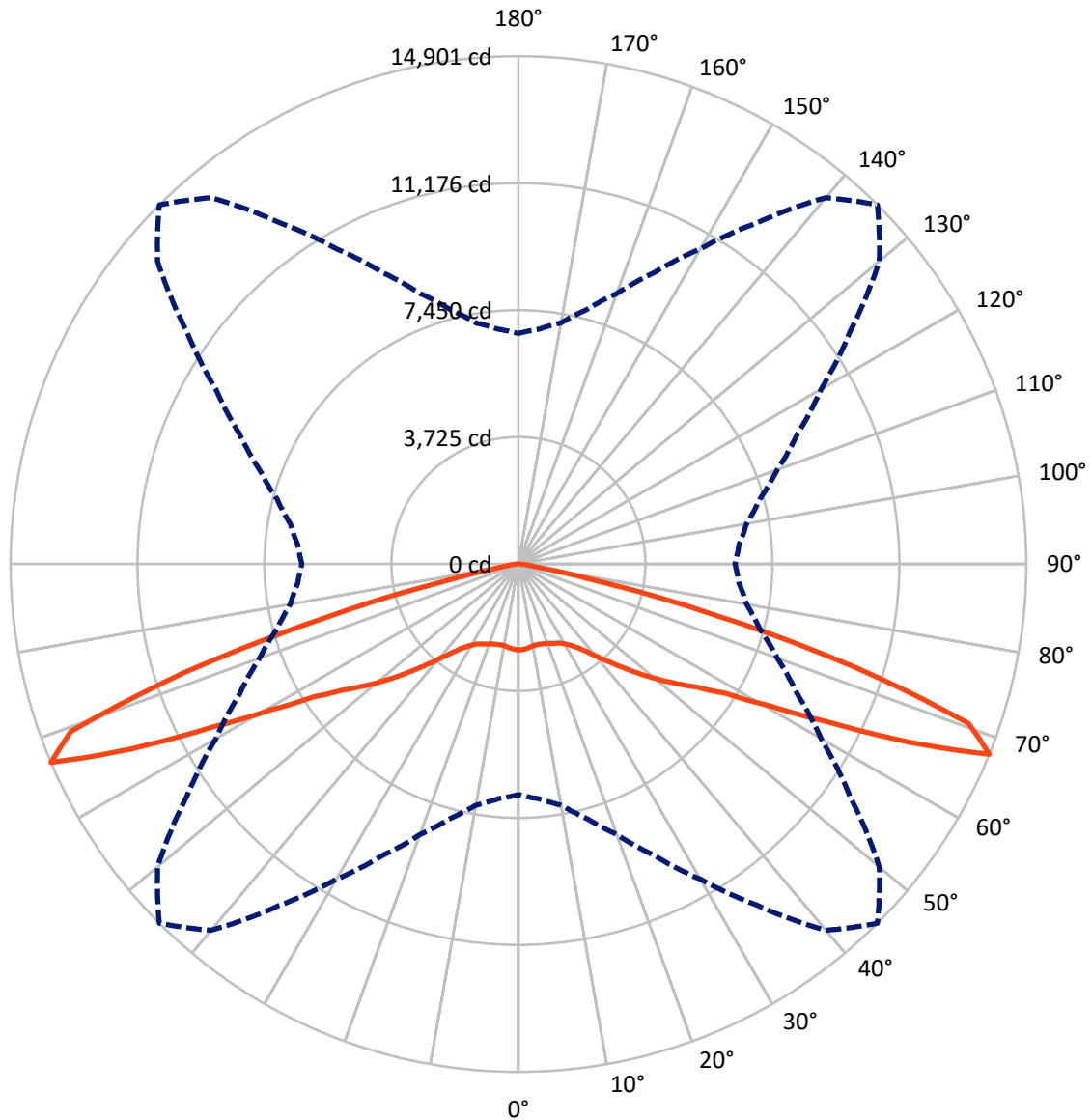


Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type V - Short - Full Cutoff

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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	12659.2	0.0	12659.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12659.2	0.0	12659.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	25318.3	0.0	25318.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.1	0.9
10°-20°	685.3	2.7
20°-30°	1164.9	4.6
30°-40°	1904.3	7.5
40°-50°	3399.5	13.4
50°-60°	5731.7	22.6
60°-70°	8894.7	35.1
70°-80°	3125.2	12.3
80°-90°	176.6	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°	25318.3	100.0
0°-180°	25318.3	100.0



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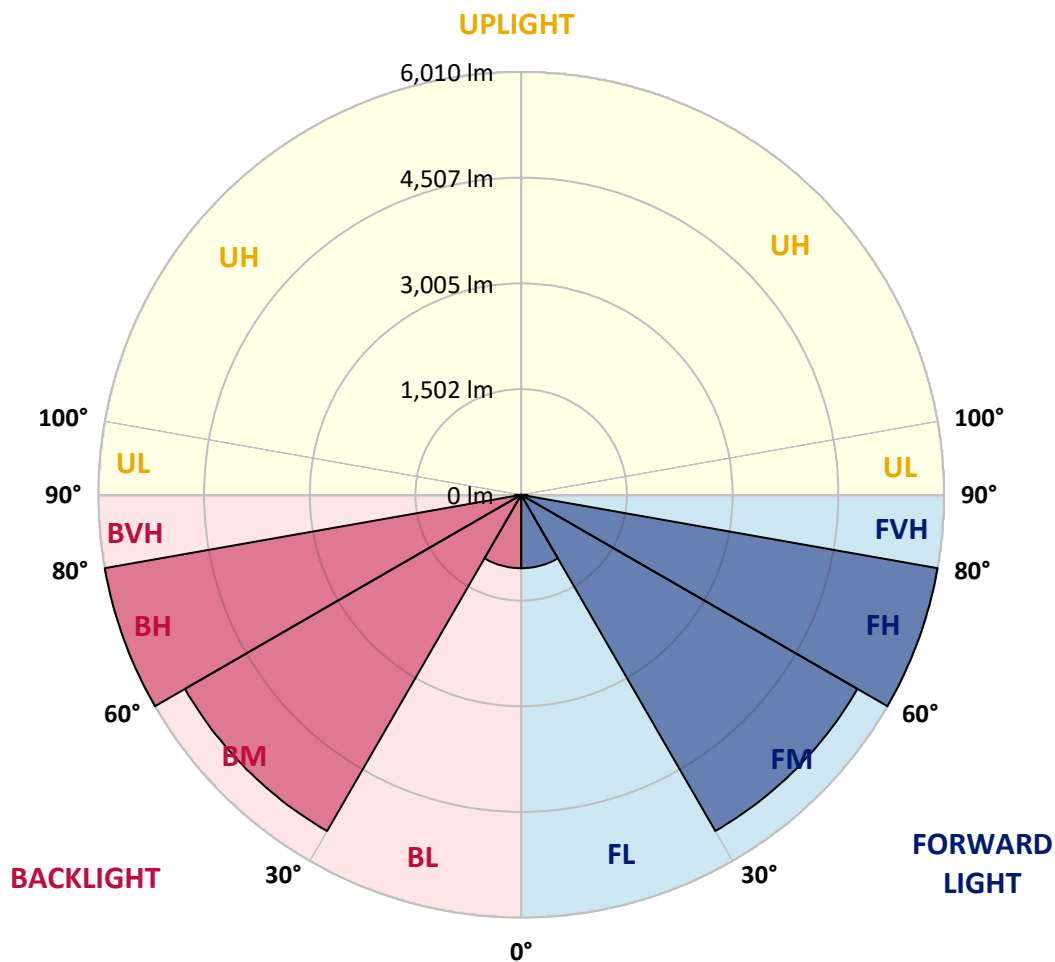
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1043.2	4.1			
FM	(30°-60°)	5517.7	21.8			
FH	(60°-80°)	6009.9	23.7			G3/7500
FVH	(80°-90°)	88.3	0.3			G1/100
BL	(0°-30°)	1043.2	4.1	B3/2500		
BM	(30°-60°)	5517.7	21.8	B4/8500		
BH	(60°-80°)	6009.9	23.7	B5		G3/7500
BVH	(80°-90°)	88.3	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°	2523.1	2523.1	2523.1	2523.1	2523.1	2523.1	2523.1	2523.1	2523.1	2523.1	2523.1
2.5°	2513.7	2516.2	2516.2	2516.2	2515.0	2515.0	2512.6	2515.0	2513.7	2510.3	2511.4
5°	2492.7	2495.1	2495.1	2494.0	2497.5	2496.3	2492.7	2495.1	2494.0	2491.7	2492.7
7.5°	2462.6	2466.0	2466.0	2464.9	2468.4	2467.1	2464.9	2466.0	2466.0	2462.6	2462.6
10°	2428.7	2431.2	2431.2	2429.9	2435.8	2435.8	2434.5	2438.1	2439.3	2435.8	2433.4
12.5°	2397.3	2400.8	2400.8	2405.5	2411.3	2413.7	2419.4	2424.0	2428.7	2427.6	2423.0
15°	2378.7	2381.0	2385.7	2391.5	2400.8	2409.0	2418.2	2428.7	2438.1	2440.4	2433.4
17.5°	2367.0	2370.5	2377.5	2385.7	2398.5	2412.5	2426.4	2440.4	2453.2	2457.9	2449.7
20°	2363.6	2365.9	2372.9	2386.8	2404.4	2425.2	2445.0	2461.4	2478.9	2484.6	2478.9
22.5°	2370.5	2375.2	2383.4	2399.6	2423.0	2449.7	2473.0	2495.1	2517.2	2527.7	2519.6
25°	2402.0	2406.6	2417.1	2438.1	2463.7	2491.7	2518.4	2544.0	2563.9	2574.4	2568.4
27.5°	2460.2	2466.0	2478.9	2499.9	2527.7	2558.1	2587.1	2608.0	2624.4	2627.8	2620.8
30°	2547.6	2560.3	2575.5	2598.7	2631.3	2656.9	2686.1	2704.6	2724.5	2724.5	2718.7
32.5°	2683.7	2696.5	2712.8	2735.0	2760.6	2788.6	2814.2	2830.5	2851.4	2852.6	2838.6
35°	2887.5	2893.4	2907.4	2921.3	2944.6	2969.0	2991.1	3001.5	3019.1	3020.2	3007.4
37.5°	3156.5	3157.6	3167.0	3171.6	3192.5	3219.3	3240.2	3247.3	3263.6	3261.2	3248.5
40°	3469.7	3475.5	3479.0	3486.0	3508.2	3533.8	3555.9	3559.4	3576.8	3573.3	3557.0
42.5°	3831.8	3834.1	3853.9	3864.4	3885.3	3898.1	3926.1	3929.5	3950.6	3941.3	3922.5
45°	4238.2	4259.0	4277.6	4298.7	4320.8	4335.8	4358.0	4353.4	4367.4	4353.4	4342.9
47.5°	4665.3	4680.6	4722.5	4755.1	4791.2	4804.0	4835.3	4821.5	4835.3	4815.6	4812.1
50°	5135.8	5162.6	5198.8	5236.0	5274.4	5295.2	5336.0	5318.7	5337.2	5318.7	5308.2
52.5°	5599.1	5606.2	5685.4	5740.1	5793.7	5818.1	5842.5	5834.4	5835.6	5834.4	5823.9
55°	6039.3	6055.7	6134.7	6209.4	6302.5	6371.1	6413.1	6408.4	6397.9	6387.5	6370.1
57.5°	6535.3	6551.6	6642.4	6734.5	6840.4	6938.1	7023.2	7110.4	7144.2	7153.6	7115.1
60°	7205.9	7204.8	7325.9	7437.6	7589.1	7734.5	7920.9	8110.6	8328.4	8429.6	8295.8
62.5°	7888.2	7916.3	8090.9	8288.8	8600.8	8904.7	9248.2	9585.9	9930.5	10211.0	9912.9
65°	7806.7	7913.9	8173.5	8621.8	9198.1	9882.8	10623.3	11406.8	12114.7	12601.5	12055.3
67.5°	6765.9	6918.3	7182.7	7727.6	8448.3	9435.6	10679.1	12228.8	14030.0	14900.9	13821.6
70°	4904.0	5076.4	5353.4	5885.6	6599.4	7537.8	8888.4	10748.9	13133.5	14011.5	12822.6
72.5°	2440.4	2533.6	2704.6	3043.5	3583.8	4345.2	5570.1	7358.5	9468.2	10273.9	9187.7
75°	829.0	872.1	901.2	1011.9	1183.0	1482.2	2091.2	3217.0	4907.6	5883.3	4837.7
77.5°	478.5	479.6	499.5	519.3	548.3	581.1	662.5	869.7	1504.3	2136.4	1556.8
80°	309.7	308.6	324.8	340.0	359.9	376.1	380.7	402.9	464.6	550.8	492.5
82.5°	160.6	180.5	216.5	236.3	273.7	280.6	271.3	263.2	278.3	288.7	295.7
85°	88.6	76.8	115.3	148.9	165.4	167.7	167.7	158.3	164.2	160.6	174.6
87.5°	40.8	37.3	45.5	73.3	78.1	66.4	69.9	61.8	44.2	43.1	48.9
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°	2523.1	2523.1	2523.1	2523.1	2523.1	2523.1	2523.1	2523.1
2.5°	2511.4	2512.6	2512.6	2516.2	2517.2	2519.6	2521.9	2523.1
5°	2491.7	2495.1	2492.7	2496.3	2496.3	2498.6	2498.6	2499.9
7.5°	2462.6	2466.0	2466.0	2466.0	2464.9	2468.4	2468.4	2468.4
10°	2432.3	2434.5	2433.4	2431.2	2428.7	2432.3	2431.2	2429.9
12.5°	2423.0	2417.1	2412.5	2410.2	2405.5	2406.6	2403.1	2403.1
15°	2428.7	2418.2	2410.2	2406.6	2402.0	2399.6	2397.3	2398.5
17.5°	2443.8	2431.2	2420.7	2414.9	2409.0	2405.5	2400.8	2402.0
20°	2470.7	2455.5	2440.4	2428.7	2418.2	2412.5	2409.0	2407.7
22.5°	2510.3	2488.1	2466.0	2448.6	2434.5	2426.4	2423.0	2420.7
25°	2555.7	2531.2	2505.6	2485.8	2471.9	2461.4	2454.3	2454.3
27.5°	2612.7	2593.0	2569.6	2546.3	2533.6	2523.1	2518.4	2516.2
30°	2708.2	2689.5	2670.9	2648.8	2632.6	2622.1	2613.9	2606.9
32.5°	2830.5	2815.3	2800.1	2783.8	2768.8	2754.8	2741.9	2736.1
35°	3002.8	2991.1	2980.7	2962.0	2956.2	2948.1	2941.1	2935.2
37.5°	3240.2	3235.7	3235.7	3215.8	3211.3	3207.7	3200.8	3201.9
40°	3552.3	3557.0	3551.2	3544.3	3540.7	3531.3	3531.3	3539.5
42.5°	3921.5	3925.0	3937.7	3926.1	3938.9	3927.2	3920.3	3926.1
45°	4350.0	4362.7	4388.3	4376.6	4384.8	4365.0	4340.6	4341.8
47.5°	4830.7	4842.5	4852.9	4844.6	4845.8	4813.3	4780.7	4772.5
50°	5330.3	5334.9	5340.8	5329.0	5331.4	5295.2	5258.0	5259.2
52.5°	5823.9	5846.0	5869.3	5837.8	5830.9	5790.1	5737.7	5716.9
55°	6388.6	6420.0	6393.2	6338.5	6283.9	6229.0	6160.3	6148.8
57.5°	7084.8	7031.4	6947.5	6843.8	6768.2	6691.4	6621.4	6592.3
60°	8053.6	7852.2	7700.8	7547.1	7450.5	7356.2	7264.1	7250.2
62.5°	9422.9	9074.7	8773.1	8455.2	8195.6	7992.9	7831.2	7785.8
65°	11139.1	10315.9	9602.2	8936.1	8357.6	7920.9	7646.1	7525.0
67.5°	11877.2	10251.7	9028.1	8082.7	7325.9	6797.2	6500.3	6352.5
70°	10437.0	8501.9	7171.0	6224.4	5535.1	4971.6	4702.6	4544.3
72.5°	7180.3	5408.2	4276.6	3490.6	2940.0	2468.4	2282.1	2268.1
75°	3223.9	2135.4	1471.8	1134.0	954.8	830.2	791.8	762.7
77.5°	902.3	667.1	594.9	556.5	519.3	476.2	459.9	463.3
80°	438.9	414.5	398.2	373.8	340.0	303.8	287.5	294.6
82.5°	291.1	287.5	298.1	280.6	231.8	196.8	165.4	151.4
85°	177.0	179.3	182.7	184.0	156.0	109.5	74.5	83.8
87.5°	69.9	80.4	87.3	90.8	85.0	52.5	42.0	43.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)