

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: P268563

Luminaire Tested: **GAN-AF-06-LED-U-5MQ-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268563
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-06-LED-U-5MQ-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 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: 26252.7 lumens
Efficiency: N/A
Efficacy: 105.4 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): 249
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

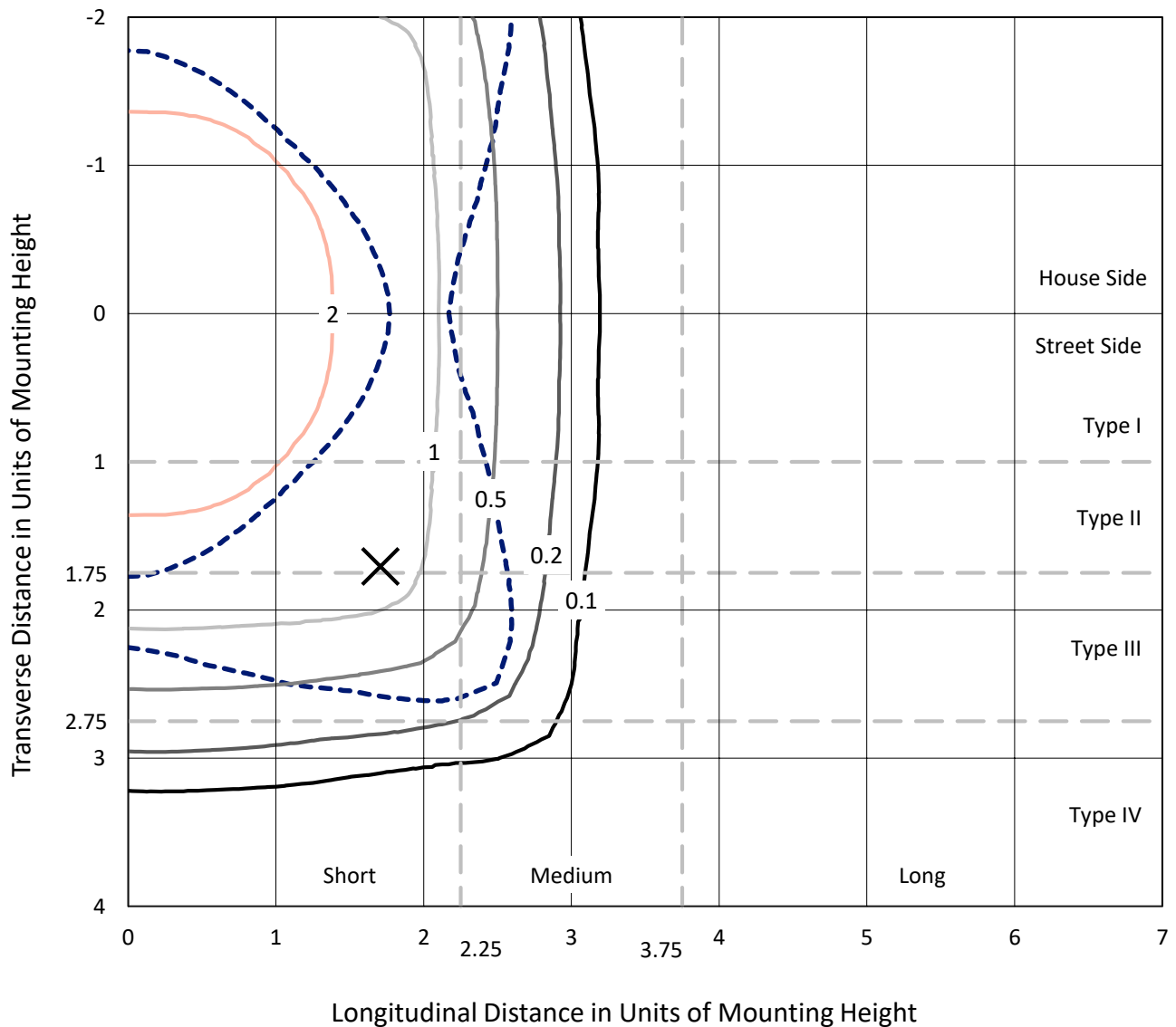


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

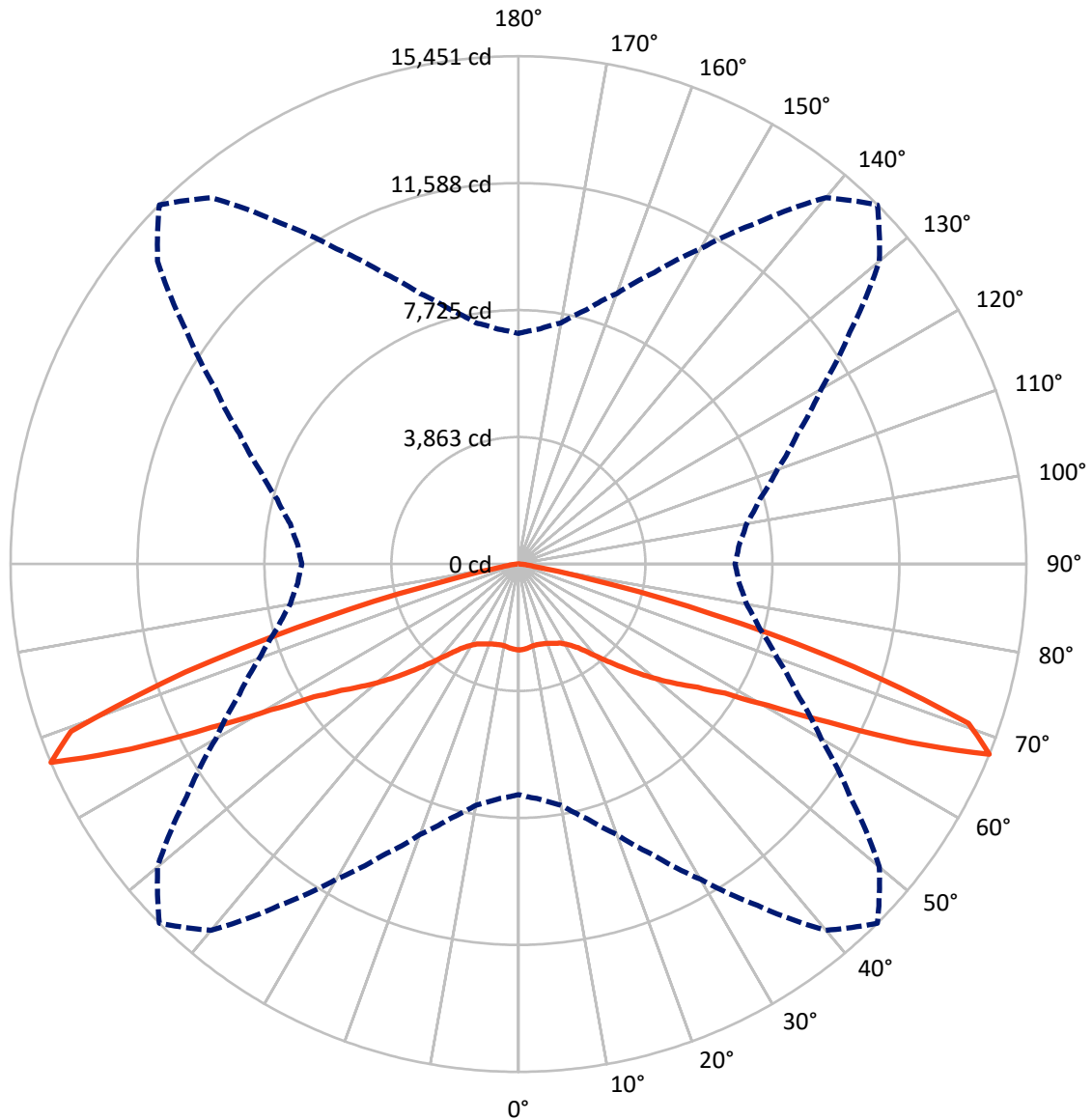


Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type V - Short - Full Cutoff

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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	13126.3	0.0	13126.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13126.3	0.0	13126.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	26252.7	0.0	26252.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.9	0.9
10°-20°	710.5	2.7
20°-30°	1207.9	4.6
30°-40°	1974.6	7.5
40°-50°	3525.0	13.4
50°-60°	5943.2	22.6
60°-70°	9222.9	35.1
70°-80°	3240.5	12.3
80°-90°	183.1	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°	26252.7	100.0
0°-180°	26252.7	100.0

Coefficient of Utilization



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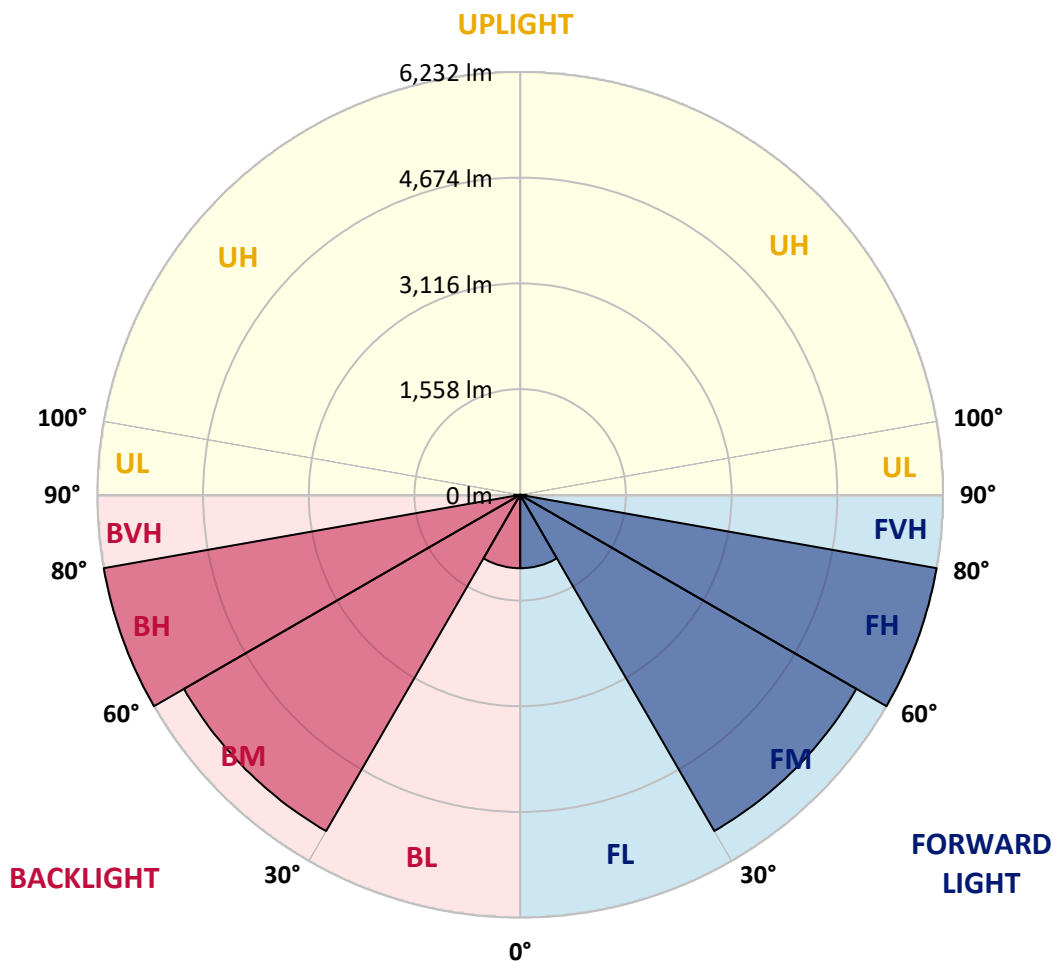
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1081.7	4.1			
FM	(30°-60°)	5721.4	21.8			
FH	(60°-80°)	6231.7	23.7			G3/7500
FVH	(80°-90°)	91.6	0.3			G1/100
BL	(0°-30°)	1081.7	4.1	B3/2500		
BM	(30°-60°)	5721.4	21.8	B4/8500		
BH	(60°-80°)	6231.7	23.7	B5		G3/7500
BVH	(80°-90°)	91.6	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°	2616.3	2616.3	2616.3	2616.3	2616.3	2616.3	2616.3	2616.3	2616.3	2616.3	2616.3
2.5°	2606.5	2608.9	2608.9	2608.9	2607.7	2607.7	2605.4	2607.7	2606.5	2602.8	2604.1
5°	2584.9	2587.2	2587.2	2586.0	2589.6	2588.5	2584.9	2587.2	2586.0	2583.5	2584.9
7.5°	2553.4	2557.0	2557.0	2555.8	2559.5	2558.3	2555.8	2557.0	2557.0	2553.4	2553.4
10°	2518.4	2520.9	2520.9	2519.6	2525.7	2525.7	2524.4	2528.1	2529.3	2525.7	2523.2
12.5°	2485.8	2489.5	2489.5	2494.2	2500.3	2502.7	2508.7	2513.5	2518.4	2517.2	2512.4
15°	2466.4	2468.9	2473.8	2479.9	2489.5	2497.8	2507.4	2518.4	2528.1	2530.4	2523.2
17.5°	2454.3	2458.0	2465.3	2473.8	2487.0	2501.5	2516.1	2530.4	2543.7	2548.6	2540.1
20°	2450.8	2453.2	2460.5	2474.9	2493.1	2514.7	2535.2	2552.3	2570.3	2576.3	2570.3
22.5°	2458.0	2462.9	2471.2	2488.2	2512.4	2540.1	2564.3	2587.2	2610.1	2621.1	2612.6
25°	2490.6	2495.4	2506.4	2528.1	2554.6	2583.5	2611.4	2638.0	2658.4	2669.4	2663.3
27.5°	2550.9	2557.0	2570.3	2592.0	2621.1	2652.4	2682.6	2704.3	2721.2	2724.9	2717.6
30°	2641.6	2654.9	2670.5	2694.6	2728.4	2755.0	2785.3	2804.5	2825.1	2825.1	2819.1
32.5°	2782.8	2796.1	2813.0	2835.9	2862.4	2891.5	2918.1	2934.9	2956.6	2957.8	2943.3
35°	2994.1	3000.1	3014.6	3029.1	3053.2	3078.6	3101.5	3112.4	3130.6	3131.8	3118.5
37.5°	3273.0	3274.1	3283.8	3288.7	3310.3	3338.1	3359.9	3367.1	3384.1	3381.6	3368.4
40°	3597.7	3603.7	3607.4	3614.6	3637.5	3664.0	3687.1	3690.6	3708.8	3705.1	3688.3
42.5°	3973.2	3975.5	3996.1	4007.0	4028.7	4042.1	4070.9	4074.6	4096.4	4086.7	4067.3
45°	4394.5	4416.2	4435.7	4457.3	4480.2	4495.9	4518.8	4514.1	4528.5	4514.1	4503.2
47.5°	4837.6	4853.4	4896.8	4930.5	4967.9	4981.2	5013.9	4999.3	5013.9	4993.3	4989.7
50°	5325.3	5353.1	5390.5	5429.1	5469.1	5490.7	5533.0	5514.9	5534.2	5514.9	5504.1
52.5°	5805.8	5813.1	5895.1	5951.9	6007.4	6032.7	6058.2	6049.7	6051.0	6049.7	6038.9
55°	6262.2	6279.2	6361.2	6438.4	6535.0	6606.2	6649.8	6644.9	6634.1	6623.2	6605.1
57.5°	6776.5	6793.4	6887.6	6983.0	7092.7	7194.3	7282.4	7372.8	7408.0	7417.6	7377.7
60°	7471.9	7470.7	7596.2	7712.2	7869.2	8020.0	8213.2	8409.9	8635.8	8740.8	8601.9
62.5°	8179.3	8208.4	8389.5	8594.7	8918.3	9233.3	9589.4	9939.6	10296.9	10588.0	10278.9
65°	8094.8	8205.9	8475.1	8939.9	9537.6	10247.4	11015.2	11827.8	12561.8	13066.4	12500.3
67.5°	7015.6	7173.7	7447.8	8012.7	8760.1	9783.8	11073.2	12680.1	14547.8	15450.8	14331.6
70°	5085.0	5263.8	5551.0	6102.8	6842.8	7816.0	9216.4	11145.7	13618.1	14528.5	13295.9
72.5°	2530.4	2627.1	2804.5	3155.8	3716.0	4505.5	5775.7	7630.1	9817.7	10653.1	9526.6
75°	859.6	904.2	934.4	1049.1	1226.5	1536.9	2168.2	3335.8	5088.7	6100.4	5016.2
77.5°	496.3	497.4	518.0	538.4	568.6	602.5	686.9	901.9	1559.7	2215.4	1614.2
80°	321.1	319.9	336.9	352.6	373.1	390.0	394.7	417.7	481.8	571.1	510.6
82.5°	166.5	187.1	224.5	245.1	283.8	291.0	281.3	272.8	288.5	299.4	306.6
85°	91.7	79.7	119.6	154.5	171.4	173.8	173.8	164.2	170.1	166.5	181.1
87.5°	42.3	38.6	47.2	76.0	80.8	68.8	72.5	64.0	45.9	44.6	50.8
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°	2616.3	2616.3	2616.3	2616.3	2616.3	2616.3	2616.3	2616.3
2.5°	2604.1	2605.4	2605.4	2608.9	2610.1	2612.6	2615.0	2616.3
5°	2583.5	2587.2	2584.9	2588.5	2588.5	2590.8	2590.8	2592.0
7.5°	2553.4	2557.0	2557.0	2557.0	2555.8	2559.5	2559.5	2559.5
10°	2522.0	2524.4	2523.2	2520.9	2518.4	2522.0	2520.9	2519.6
12.5°	2512.4	2506.4	2501.5	2499.1	2494.2	2495.4	2491.9	2491.9
15°	2518.4	2507.4	2499.1	2495.4	2490.6	2488.2	2485.8	2487.0
17.5°	2534.1	2520.9	2510.0	2503.9	2497.8	2494.2	2489.5	2490.6
20°	2561.8	2546.2	2530.4	2518.4	2507.4	2501.5	2497.8	2496.7
22.5°	2602.8	2579.9	2557.0	2538.9	2524.4	2516.1	2512.4	2510.0
25°	2650.0	2624.7	2598.1	2577.5	2563.0	2552.3	2545.0	2545.0
27.5°	2709.2	2688.6	2664.6	2640.4	2627.1	2616.3	2611.4	2608.9
30°	2808.1	2788.9	2769.6	2746.6	2729.7	2718.8	2710.4	2703.1
32.5°	2934.9	2919.2	2903.5	2886.7	2871.0	2856.4	2843.1	2837.1
35°	3113.5	3101.5	3090.7	3071.3	3065.2	3056.8	3049.6	3043.5
37.5°	3359.9	3355.1	3355.1	3334.5	3329.7	3326.1	3318.8	3320.0
40°	3683.4	3688.3	3682.2	3675.0	3671.4	3661.8	3661.8	3670.1
42.5°	4066.2	4069.7	4083.1	4070.9	4084.2	4072.1	4064.9	4070.9
45°	4510.4	4523.8	4550.3	4538.1	4546.6	4526.1	4500.8	4501.9
47.5°	5008.9	5021.0	5031.9	5023.5	5024.7	4991.0	4957.0	4948.7
50°	5526.9	5531.9	5537.8	5525.7	5528.2	5490.7	5452.2	5453.3
52.5°	6038.9	6061.9	6085.9	6053.3	6046.1	6003.8	5949.6	5927.7
55°	6624.5	6657.0	6629.2	6572.4	6515.8	6459.0	6387.8	6375.7
57.5°	7346.2	7290.9	7203.9	7096.4	7018.0	6938.2	6865.8	6835.7
60°	8350.9	8142.0	7985.0	7825.7	7725.5	7627.7	7532.3	7517.7
62.5°	9770.5	9409.6	9096.9	8767.3	8498.1	8288.0	8120.1	8073.1
65°	11550.0	10696.6	9956.5	9265.8	8665.9	8213.2	7928.3	7802.7
67.5°	12315.6	10630.2	9361.2	8380.9	7596.2	7048.1	6740.3	6586.9
70°	10822.2	8815.5	7435.7	6454.1	5739.5	5155.2	4876.2	4712.0
72.5°	7445.3	5607.8	4434.4	3619.5	3048.4	2559.5	2366.2	2351.9
75°	3343.0	2214.1	1526.0	1175.9	990.0	860.8	821.0	790.8
77.5°	935.7	691.8	617.0	577.2	538.4	493.8	476.9	480.6
80°	455.1	429.7	413.0	387.6	352.6	315.0	298.1	305.5
82.5°	301.8	298.1	309.0	291.0	240.2	204.1	171.4	156.9
85°	183.6	185.9	189.5	190.8	161.8	113.5	77.3	87.0
87.5°	72.5	83.4	90.5	94.1	88.2	54.3	43.5	44.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)