

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: P266971

Luminaire Tested: **GAN-AF-06-LED-U-5WQ-7027-1200-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266971
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-06-LED-U-5WQ-7027-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35739.7 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 382
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

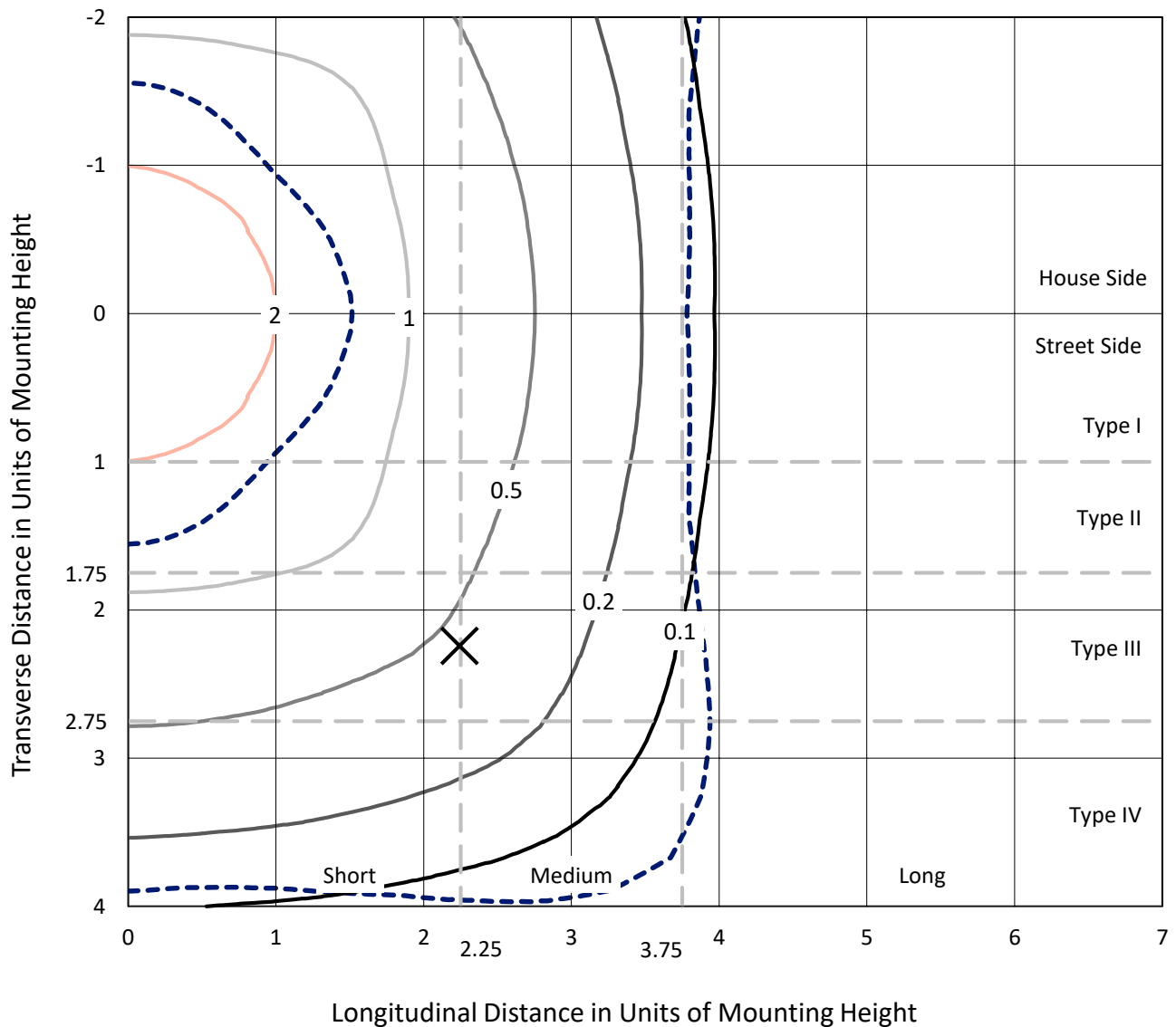


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

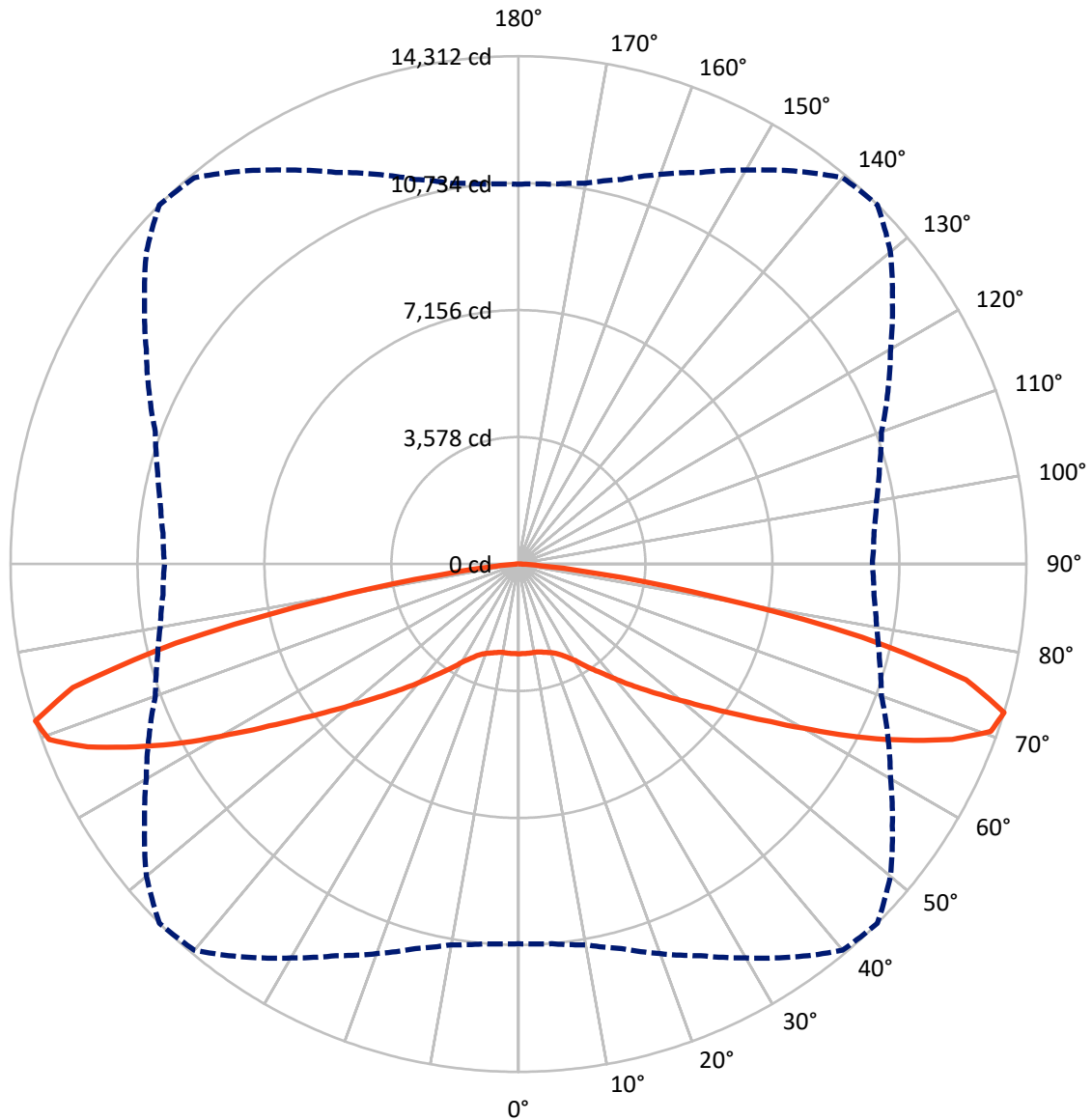


Based on 30 foot mounting height. Maximum calculated value = 2.8 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17869.8	0.0	17869.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17869.8	0.0	17869.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	35739.7	0.0	35739.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.7	0.7
10°-20°	734.0	2.1
20°-30°	1341.3	3.8
30°-40°	2312.6	6.5
40°-50°	3953.4	11.1
50°-60°	6408.0	17.9
60°-70°	10630.6	29.7
70°-80°	9363.1	26.2
80°-90°	754.9	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°	35739.7	100.0
0°-180°	35739.7	100.0



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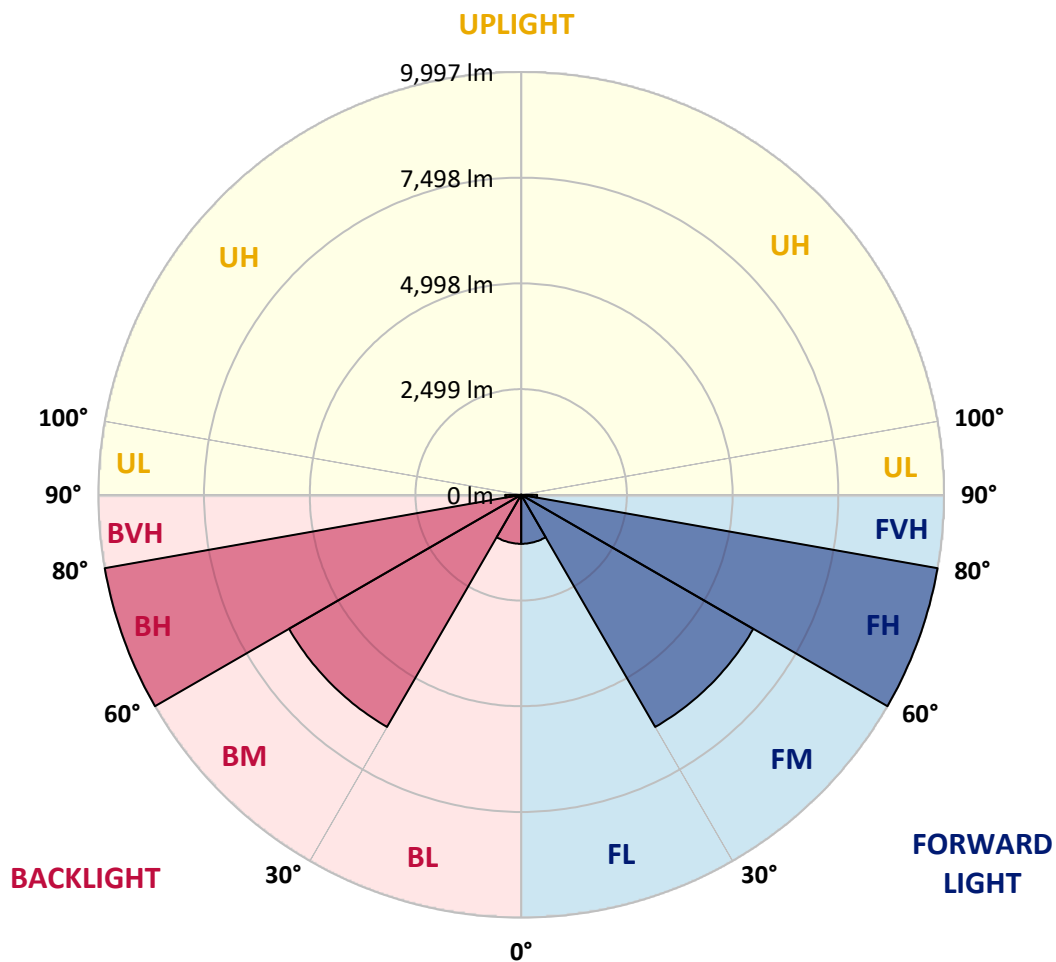
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1158.5	3.2			
FM	(30°-60°)	6337.0	17.7			
FH	(60°-80°)	9996.9	28.0			G4/12000
FVH	(80°-90°)	377.5	1.1			G3/500
BL	(0°-30°)	1158.5	3.2	B3/2500		
BM	(30°-60°)	6337.0	17.7	B4/8500		
BH	(60°-80°)	9996.9	28.0	B5		G4/12000
BVH	(80°-90°)	377.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2531.0	2531.0	2531.0	2531.0	2531.0	2531.0	2531.0	2531.0	2531.0	2531.0	2531.0
2.5°	2531.0	2532.5	2534.2	2532.5	2532.5	2531.0	2529.3	2531.0	2529.3	2526.0	2527.7
5°	2539.1	2542.5	2542.5	2539.1	2540.8	2539.1	2535.8	2537.5	2534.2	2529.3	2529.3
7.5°	2548.9	2550.6	2550.6	2547.4	2548.9	2545.6	2542.5	2540.8	2537.5	2531.0	2526.0
10°	2563.8	2565.3	2563.8	2560.3	2560.3	2555.5	2547.4	2544.0	2537.5	2527.7	2522.7
12.5°	2580.1	2581.8	2580.1	2576.8	2575.3	2566.9	2560.3	2555.5	2550.6	2542.5	2534.2
15°	2603.1	2606.3	2603.1	2596.6	2591.6	2585.1	2581.8	2583.3	2585.1	2578.4	2570.3
17.5°	2645.7	2647.3	2642.4	2627.6	2621.1	2614.5	2614.5	2617.8	2622.7	2619.5	2611.3
20°	2724.4	2719.3	2708.0	2690.0	2681.7	2670.2	2668.7	2670.2	2670.2	2668.7	2662.0
22.5°	2822.7	2819.4	2804.7	2781.7	2770.3	2763.6	2753.8	2745.7	2744.1	2739.1	2732.6
25°	2940.7	2939.1	2921.1	2901.3	2893.3	2884.9	2876.8	2865.4	2855.5	2844.0	2837.4
27.5°	3091.5	3085.0	3058.8	3048.8	3037.3	3032.5	3021.0	3008.0	2999.7	2985.0	2976.9
30°	3257.1	3257.1	3235.8	3232.6	3232.6	3221.1	3207.8	3185.0	3170.2	3155.4	3150.5
32.5°	3422.6	3424.2	3403.0	3409.5	3414.5	3422.6	3426.0	3417.7	3407.9	3406.3	3396.4
35°	3662.0	3655.5	3634.2	3639.0	3637.3	3635.7	3635.7	3653.8	3657.1	3660.4	3640.7
37.5°	3958.7	3958.7	3937.4	3937.4	3927.5	3917.7	3904.6	3916.0	3934.0	3939.0	3926.0
40°	4298.0	4309.4	4283.2	4281.6	4284.8	4253.7	4238.9	4257.0	4268.4	4288.1	4273.3
42.5°	4698.0	4689.7	4663.6	4660.2	4642.3	4632.4	4619.3	4634.0	4652.1	4665.2	4670.1
45°	5081.5	5075.0	5045.5	5045.5	5027.5	5019.2	5025.7	5050.5	5058.5	5076.6	5094.6
47.5°	5460.2	5452.0	5432.3	5440.6	5442.1	5456.9	5478.3	5501.1	5524.0	5548.7	5556.8
50°	5847.0	5848.7	5827.3	5847.0	5871.6	5912.6	5970.0	6007.7	6055.2	6086.3	6096.2
52.5°	6199.5	6206.0	6228.9	6274.8	6324.1	6404.3	6502.7	6594.5	6673.1	6725.6	6722.3
55°	6622.3	6632.1	6687.9	6766.7	6846.9	6968.2	7114.1	7276.5	7407.6	7482.9	7435.5
57.5°	7163.4	7184.6	7246.8	7353.4	7473.1	7630.5	7830.4	8074.7	8277.9	8379.6	8302.6
60°	7905.9	7919.0	7994.3	8112.5	8256.6	8451.8	8718.9	9046.7	9333.6	9468.0	9379.6
62.5°	8884.4	8909.0	8969.7	9089.4	9236.9	9458.2	9784.3	10194.1	10551.5	10738.3	10538.3
65°	10053.2	10132.0	10182.6	10304.0	10441.7	10676.0	11017.1	11456.4	11839.9	11962.9	11731.8
67.5°	11210.5	11279.3	11367.8	11507.2	11646.5	11910.4	12226.8	12652.9	13074.2	13185.7	12826.7
70°	11717.0	11756.4	11894.0	12084.2	12351.3	12662.8	13028.4	13507.0	14028.3	14120.1	13664.4
72.5°	10702.3	10741.7	10895.7	11218.8	11684.3	12179.2	12816.8	13520.1	14208.6	14311.8	13684.1
75°	8094.4	8030.5	8258.3	8686.2	9313.9	10004.1	10895.7	11903.9	12898.9	13028.4	12279.2
77.5°	4183.2	4175.1	4347.2	4878.2	5627.3	6412.6	7394.4	8533.7	9507.3	9900.8	9291.0
80°	1178.5	1191.7	1273.6	1537.5	1975.3	2542.5	3309.5	4376.6	5173.2	5579.8	5238.8
82.5°	462.3	498.3	529.6	578.7	636.0	719.6	960.6	1429.5	1917.8	2291.5	1876.9
85°	165.6	177.1	250.7	296.7	301.7	318.0	362.2	422.9	509.8	608.2	499.9
87.5°	62.3	68.8	80.3	132.8	131.2	119.7	145.9	152.4	114.8	104.9	129.4
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°	2531.0	2531.0	2531.0	2531.0	2531.0	2531.0	2531.0	2531.0
2.5°	2524.3	2526.0	2526.0	2527.7	2529.3	2529.3	2532.5	2532.5
5°	2526.0	2526.0	2522.7	2524.3	2522.7	2522.7	2524.3	2524.3
7.5°	2522.7	2521.2	2517.8	2516.2	2512.9	2512.9	2512.9	2512.9
10°	2517.8	2516.2	2512.9	2511.2	2509.7	2509.7	2509.7	2509.7
12.5°	2531.0	2526.0	2522.7	2521.2	2521.2	2521.2	2521.2	2521.2
15°	2565.3	2553.9	2545.6	2545.6	2547.4	2550.6	2550.6	2553.9
17.5°	2608.0	2594.8	2586.7	2580.1	2583.3	2588.2	2591.6	2594.8
20°	2658.8	2652.2	2640.7	2634.2	2634.2	2640.7	2644.0	2645.7
22.5°	2729.3	2724.4	2719.3	2711.3	2711.3	2714.5	2721.1	2721.1
25°	2834.2	2830.9	2827.7	2821.0	2819.4	2819.4	2822.7	2826.0
27.5°	2965.3	2966.9	2963.7	2962.0	2957.1	2955.5	2960.5	2958.7
30°	3140.7	3148.9	3157.2	3150.5	3142.4	3137.4	3132.5	3125.9
32.5°	3378.3	3368.6	3361.9	3350.5	3335.8	3322.7	3312.8	3301.4
35°	3602.9	3586.6	3580.0	3589.8	3588.2	3580.0	3568.5	3558.6
37.5°	3878.3	3875.1	3878.3	3896.4	3893.2	3901.2	3878.3	3876.7
40°	4225.8	4229.1	4252.0	4273.3	4284.8	4296.4	4283.2	4270.2
42.5°	4629.1	4627.4	4635.7	4665.2	4684.8	4698.0	4670.1	4666.9
45°	5055.3	5043.9	5050.5	5075.0	5094.6	5109.4	5078.3	5078.3
47.5°	5524.0	5504.5	5483.2	5511.0	5522.5	5532.3	5507.7	5499.6
50°	6047.0	6006.0	5960.2	5971.7	5971.7	5968.2	5937.2	5935.6
52.5°	6647.0	6571.6	6488.0	6456.7	6438.8	6419.1	6365.0	6338.8
55°	7337.0	7224.0	7092.7	7012.4	6969.9	6915.8	6825.6	6801.1
57.5°	8143.6	7966.4	7740.2	7641.9	7546.9	7458.4	7358.3	7330.4
60°	9099.2	8838.6	8538.6	8356.7	8253.4	8168.1	8064.9	8060.0
62.5°	10164.7	9753.3	9413.9	9249.9	9174.6	9099.2	9000.8	9014.0
65°	11248.1	10818.6	10500.6	10368.0	10297.5	10235.2	10136.8	10151.6
67.5°	12316.9	11921.9	11572.8	11436.7	11358.0	11279.3	11190.8	11205.5
70°	13084.2	12594.0	12200.6	11898.9	11710.5	11497.3	11359.6	11325.2
72.5°	12864.4	12108.8	11484.2	10885.9	10535.1	10249.9	10056.4	9973.0
75°	11133.5	10100.7	9297.5	8563.2	8150.1	7814.0	7569.7	7417.3
77.5°	8268.1	7107.6	6158.5	5312.7	4643.9	4194.7	3878.3	3673.4
80°	4525.8	3442.3	2516.2	1768.8	1299.8	1080.2	954.0	893.4
82.5°	1409.7	909.8	670.5	578.7	537.6	514.6	477.0	416.4
85°	449.2	393.4	365.5	349.1	332.7	290.2	200.1	181.9
87.5°	173.7	178.7	177.1	167.3	170.5	123.0	98.4	86.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)