

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: P193435

Luminaire Tested: **GAN-AF-07-LED-U-5WQ-8030-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193435
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-8030-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36187 lumens
Efficiency: N/A
Efficacy: 92.5 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

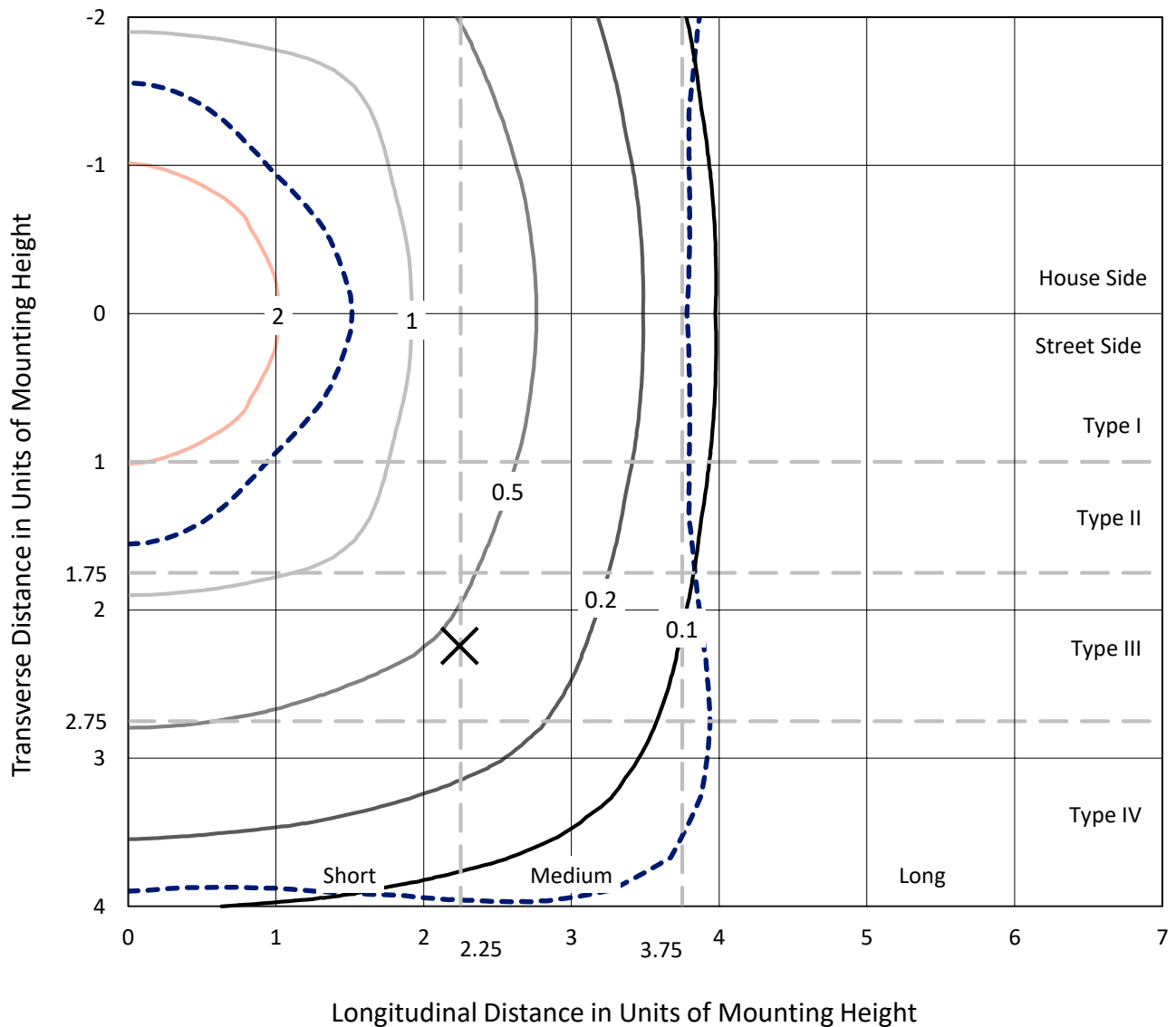
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

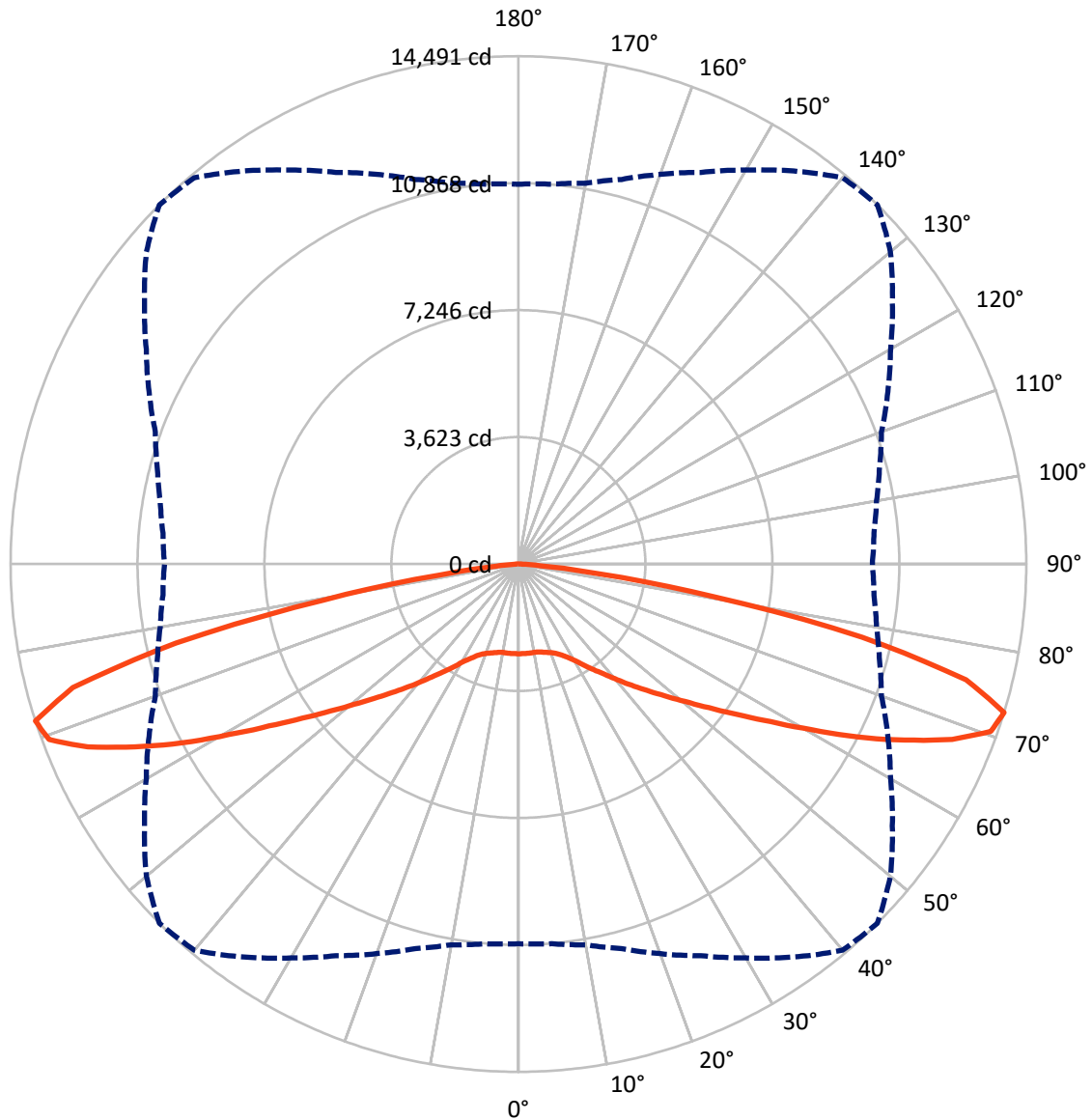


Based on 30 foot mounting height. Maximum calculated value = 2.8 fc
 Type V - Short - Semi-Cutoff

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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	18093.5	0.0	18093.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18093.5	0.0	18093.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	36187.0	0.0	36187.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.7	0.7
10°-20°	743.2	2.1
20°-30°	1358.1	3.8
30°-40°	2341.6	6.5
40°-50°	4002.9	11.1
50°-60°	6488.2	17.9
60°-70°	10763.7	29.7
70°-80°	9480.3	26.2
80°-90°	764.4	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°	36187.0	100.0
0°-180°	36187.0	100.0



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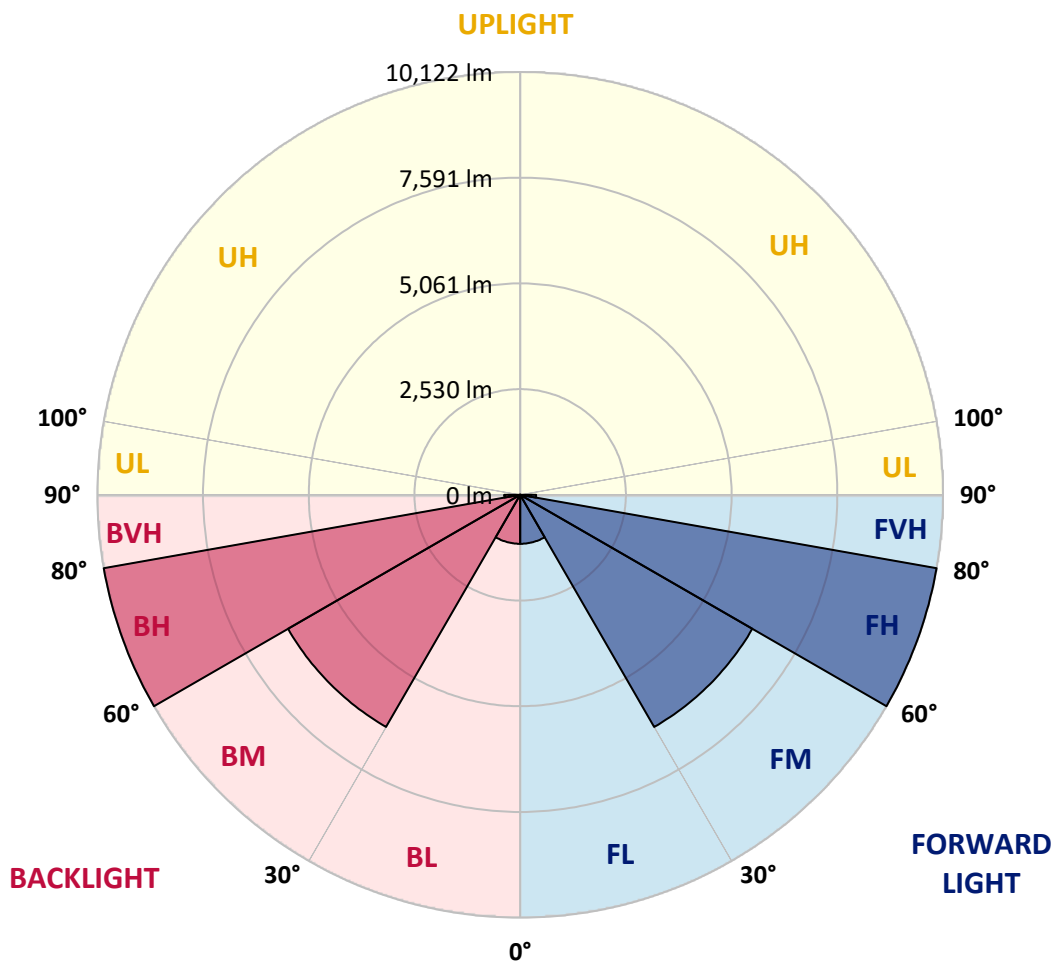
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1173.0	3.2			
FM	(30°-60°)	6416.3	17.7			
FH	(60°-80°)	10122.0	28.0			G4/12000
FVH	(80°-90°)	382.2	1.1			G3/500
BL	(0°-30°)	1173.0	3.2	B3/2500		
BM	(30°-60°)	6416.3	17.7	B4/8500		
BH	(60°-80°)	10122.0	28.0	B5		G4/12000
BVH	(80°-90°)	382.2	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°	2562.6	2562.6	2562.6	2562.6	2562.6	2562.6	2562.6	2562.6	2562.6	2562.6	2562.6
2.5°	2562.6	2564.3	2565.9	2564.3	2564.3	2562.6	2560.9	2562.6	2560.9	2557.6	2559.3
5°	2570.9	2574.2	2574.2	2570.9	2572.6	2570.9	2567.6	2569.2	2565.9	2560.9	2560.9
7.5°	2580.9	2582.5	2582.5	2579.2	2580.9	2577.5	2574.2	2572.6	2569.2	2562.6	2557.6
10°	2595.8	2597.5	2595.8	2592.5	2592.5	2587.5	2579.2	2575.9	2569.2	2559.3	2554.3
12.5°	2612.4	2614.1	2612.4	2609.1	2607.4	2599.1	2592.5	2587.5	2582.5	2574.2	2565.9
15°	2635.6	2638.9	2635.6	2629.0	2624.0	2617.4	2614.1	2615.7	2617.4	2610.7	2602.4
17.5°	2678.8	2680.4	2675.5	2660.5	2653.9	2647.2	2647.2	2650.6	2655.5	2652.2	2643.9
20°	2758.4	2753.5	2741.9	2723.6	2715.3	2703.7	2702.0	2703.7	2703.7	2702.0	2695.4
22.5°	2858.0	2854.7	2839.8	2816.5	2804.9	2798.3	2788.3	2780.0	2778.4	2773.4	2766.7
25°	2977.5	2975.9	2957.6	2937.7	2929.4	2921.1	2912.8	2901.2	2891.2	2879.6	2873.0
27.5°	3130.2	3123.6	3097.0	3087.1	3075.5	3070.5	3058.9	3045.6	3037.3	3022.3	3014.0
30°	3297.9	3297.9	3276.3	3273.0	3273.0	3261.3	3248.1	3224.8	3209.9	3195.0	3190.0
32.5°	3465.5	3467.1	3445.6	3452.2	3457.2	3465.5	3468.8	3460.5	3450.5	3448.9	3438.9
35°	3707.8	3701.2	3679.6	3684.6	3682.9	3681.3	3681.3	3699.5	3702.8	3706.1	3686.2
37.5°	4008.2	4008.2	3986.6	3986.6	3976.7	3966.7	3953.4	3965.1	3983.3	3988.3	3975.0
40°	4351.8	4363.4	4336.8	4335.2	4338.5	4307.0	4292.0	4310.3	4321.9	4341.8	4326.9
42.5°	4756.7	4748.4	4721.9	4718.6	4700.3	4690.4	4677.1	4692.0	4710.3	4723.6	4728.5
45°	5145.1	5138.5	5108.6	5108.6	5090.3	5082.1	5088.7	5113.6	5121.9	5140.1	5158.4
47.5°	5528.5	5520.2	5500.3	5508.6	5510.3	5525.2	5546.8	5570.0	5593.2	5618.1	5626.4
50°	5920.2	5921.9	5900.3	5920.2	5945.1	5986.6	6044.7	6082.9	6131.0	6162.5	6172.5
52.5°	6277.0	6283.7	6306.9	6353.4	6403.2	6484.5	6584.1	6677.0	6756.7	6809.8	6806.5
55°	6705.3	6715.2	6771.6	6851.3	6932.6	7055.5	7203.2	7367.5	7500.3	7576.6	7528.5
57.5°	7253.0	7274.5	7337.6	7445.5	7566.6	7726.0	7928.5	8175.8	8381.6	8484.5	8406.5
60°	8004.8	8018.1	8094.4	8213.9	8360.0	8557.5	8828.0	9160.0	9450.4	9586.5	9496.9
62.5°	8995.7	9020.6	9082.0	9203.1	9352.5	9576.6	9906.8	10321.8	10683.6	10872.8	10670.3
65°	10179.0	10258.7	10310.2	10433.0	10572.4	10809.7	11155.0	11599.8	11988.1	12112.6	11878.6
67.5°	11350.8	11420.5	11510.1	11651.2	11792.3	12059.5	12379.8	12811.3	13237.9	13350.8	12987.3
70°	11863.7	11903.5	12042.9	12235.4	12506.0	12821.3	13191.4	13676.1	14203.9	14296.8	13835.4
72.5°	10836.3	10876.1	11032.1	11359.1	11830.5	12331.7	12977.3	13689.3	14386.4	14491.0	13855.3
75°	8195.7	8130.9	8361.6	8794.8	9430.5	10129.2	11032.1	12052.9	13060.3	13191.4	12432.9
77.5°	4235.6	4227.3	4401.6	4939.3	5697.8	6492.8	7487.0	8640.5	9626.4	10024.7	9407.3
80°	1193.3	1206.6	1289.6	1556.8	2000.0	2574.2	3351.0	4431.4	5238.1	5649.7	5304.5
82.5°	468.0	504.6	536.1	585.9	644.0	728.6	972.6	1447.3	1941.9	2320.3	1900.4
85°	167.6	179.2	253.9	300.4	305.4	322.0	366.8	428.2	516.2	615.8	506.2
87.5°	63.1	69.7	81.3	134.4	132.8	121.2	147.7	154.4	116.2	106.2	131.1
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°	2562.6	2562.6	2562.6	2562.6	2562.6	2562.6	2562.6	2562.6
2.5°	2556.0	2557.6	2557.6	2559.3	2560.9	2560.9	2564.3	2564.3
5°	2557.6	2557.6	2554.3	2556.0	2554.3	2554.3	2556.0	2556.0
7.5°	2554.3	2552.6	2549.3	2547.7	2544.3	2544.3	2544.3	2544.3
10°	2549.3	2547.7	2544.3	2542.7	2541.0	2541.0	2541.0	2541.0
12.5°	2562.6	2557.6	2554.3	2552.6	2552.6	2552.6	2552.6	2552.6
15°	2597.5	2585.8	2577.5	2577.5	2579.2	2582.5	2582.5	2585.8
17.5°	2640.6	2627.3	2619.0	2612.4	2615.7	2620.7	2624.0	2627.3
20°	2692.1	2685.4	2673.8	2667.2	2667.2	2673.8	2677.1	2678.8
22.5°	2763.4	2758.4	2753.5	2745.2	2745.2	2748.5	2755.1	2755.1
25°	2869.6	2866.3	2863.0	2856.4	2854.7	2854.7	2858.0	2861.4
27.5°	3002.4	3004.1	3000.8	2999.1	2994.1	2992.5	2997.4	2995.8
30°	3180.0	3188.3	3196.6	3190.0	3181.7	3176.7	3171.7	3165.1
32.5°	3420.7	3410.7	3404.1	3392.5	3377.5	3364.2	3354.3	3342.7
35°	3648.1	3631.5	3624.8	3634.8	3633.1	3624.8	3613.2	3603.2
37.5°	3926.9	3923.6	3926.9	3945.1	3941.8	3950.1	3926.9	3925.2
40°	4278.7	4282.1	4305.3	4326.9	4338.5	4350.1	4336.8	4323.6
42.5°	4687.0	4685.4	4693.7	4723.6	4743.5	4756.7	4728.5	4725.2
45°	5118.6	5106.9	5113.6	5138.5	5158.4	5173.3	5141.8	5141.8
47.5°	5593.2	5573.3	5551.8	5580.0	5591.6	5601.5	5576.6	5568.3
50°	6122.7	6081.2	6034.7	6046.3	6046.3	6043.0	6011.5	6009.8
52.5°	6730.1	6653.8	6569.2	6537.6	6519.4	6499.4	6444.7	6418.1
55°	7428.9	7314.4	7181.6	7100.3	7057.1	7002.3	6911.1	6886.2
57.5°	8245.5	8066.2	7837.2	7737.6	7641.3	7551.7	7450.5	7422.3
60°	9213.1	8949.2	8645.5	8461.2	8356.7	8270.4	8165.8	8160.8
62.5°	10291.9	9875.3	9531.7	9365.8	9289.4	9213.1	9113.5	9126.8
65°	11389.0	10954.1	10632.1	10497.7	10426.3	10363.3	10263.7	10278.6
67.5°	12471.1	12071.1	11717.6	11579.8	11500.2	11420.5	11330.9	11345.8
70°	13247.9	12751.6	12353.3	12047.9	11857.0	11641.2	11501.8	11467.0
72.5°	13025.5	12260.3	11628.0	11022.2	10667.0	10378.2	10182.4	10097.7
75°	11272.8	10227.2	9413.9	8670.4	8252.1	7911.9	7664.6	7510.2
77.5°	8371.6	7196.5	6235.6	5379.1	4702.0	4247.2	3926.9	3719.4
80°	4582.5	3485.4	2547.7	1790.8	1316.2	1093.8	966.0	904.5
82.5°	1427.4	921.1	678.8	585.9	544.4	521.2	483.0	421.6
85°	454.8	398.3	370.1	353.5	336.9	293.8	202.5	184.2
87.5°	175.9	180.9	179.2	169.3	172.6	124.5	99.6	88.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)