

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: P299853

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299853
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: GAA-AF-07-LED-U-5WQ-8030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
w/Spill Control OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36064.3 lumens
Efficiency: N/A
Efficacy: 92.2 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

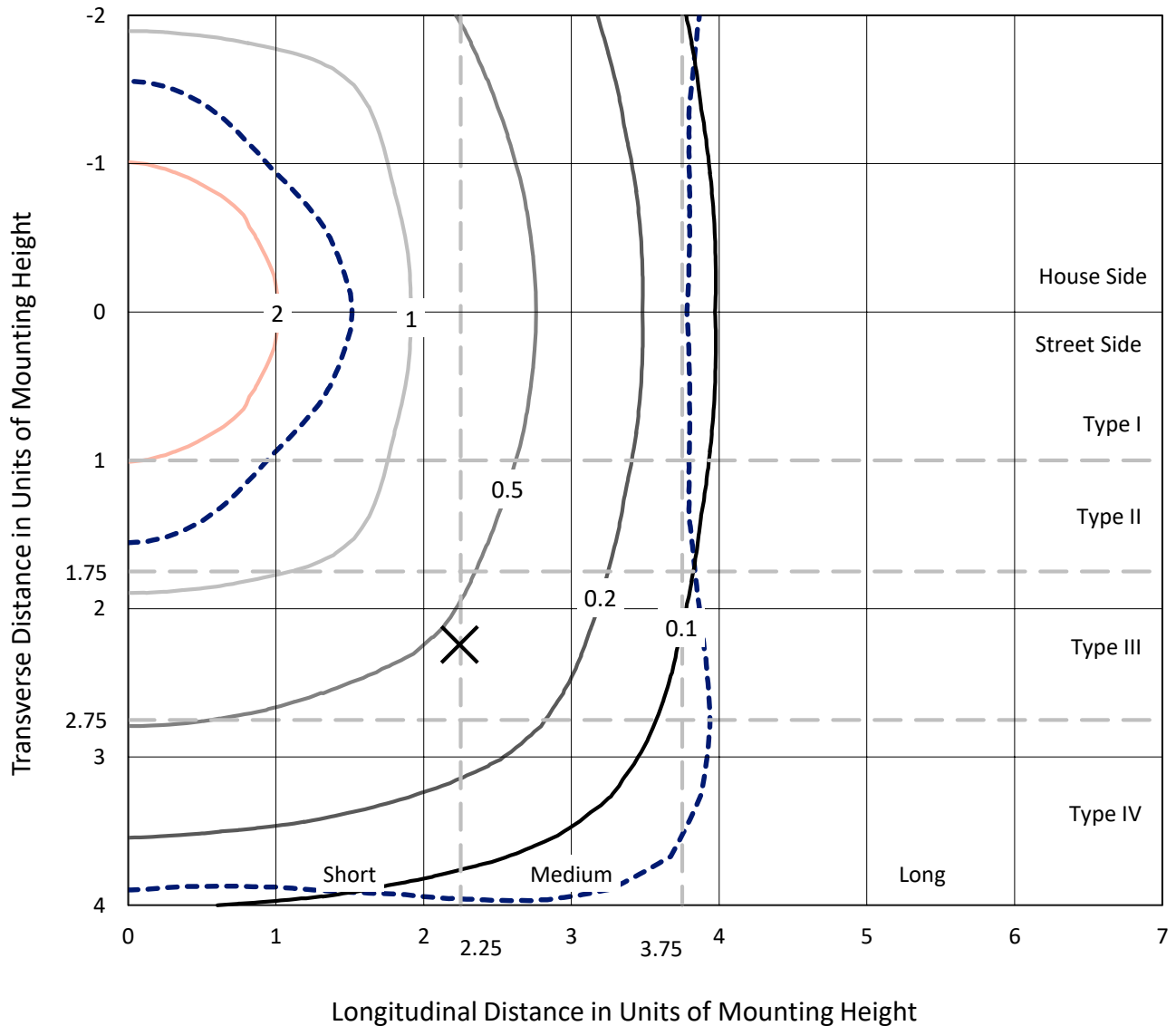
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

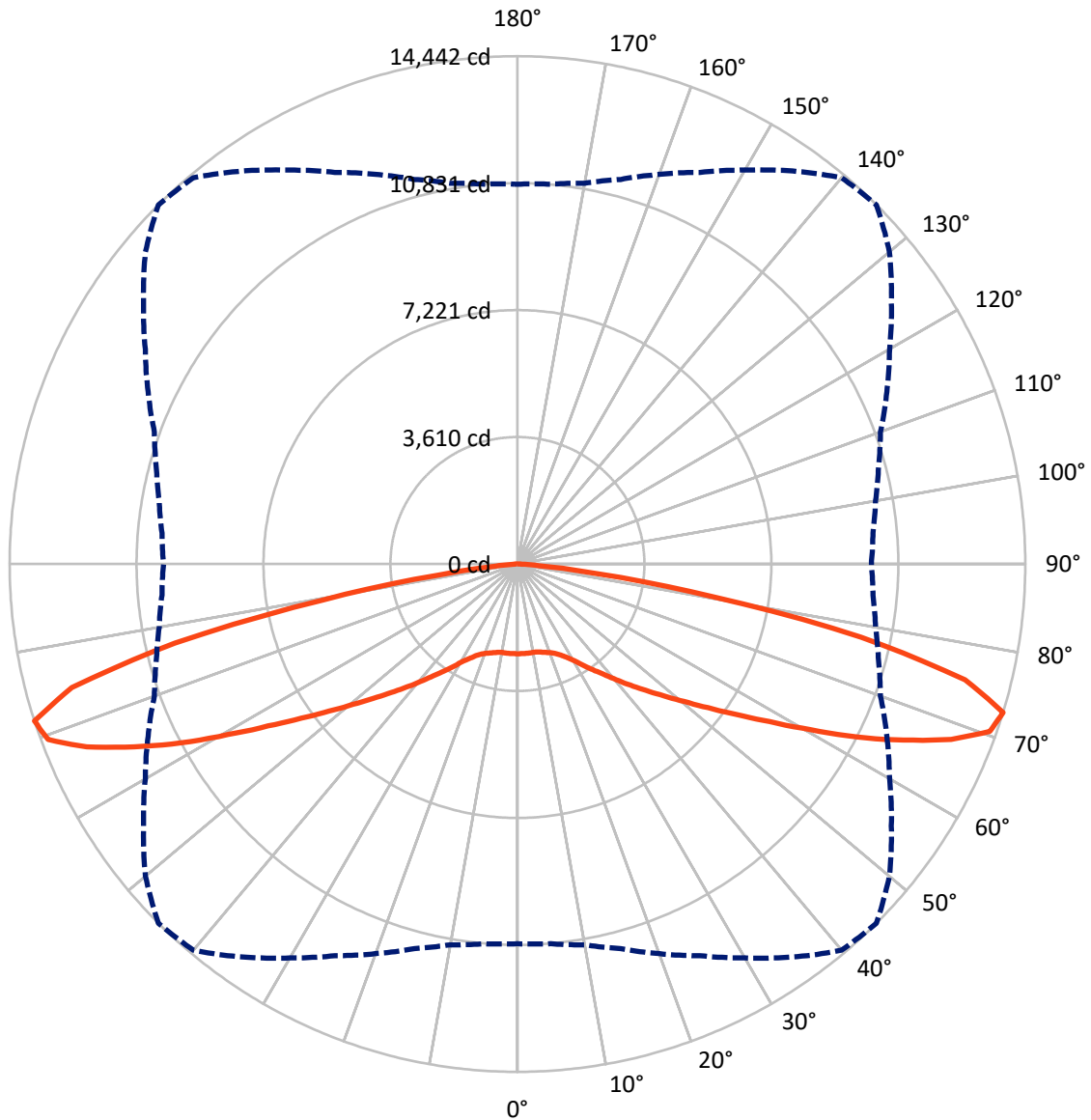
× Max cd
 - - - 1/2 Max cd



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	18032.1	0.0	18032.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18032.1	0.0	18032.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	36064.3	0.0	36064.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.9	0.7
10°-20°	740.7	2.1
20°-30°	1353.5	3.8
30°-40°	2333.6	6.5
40°-50°	3989.3	11.1
50°-60°	6466.2	17.9
60°-70°	10727.2	29.7
70°-80°	9448.1	26.2
80°-90°	761.8	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°	36064.3	100.0
0°-180°	36064.3	100.0



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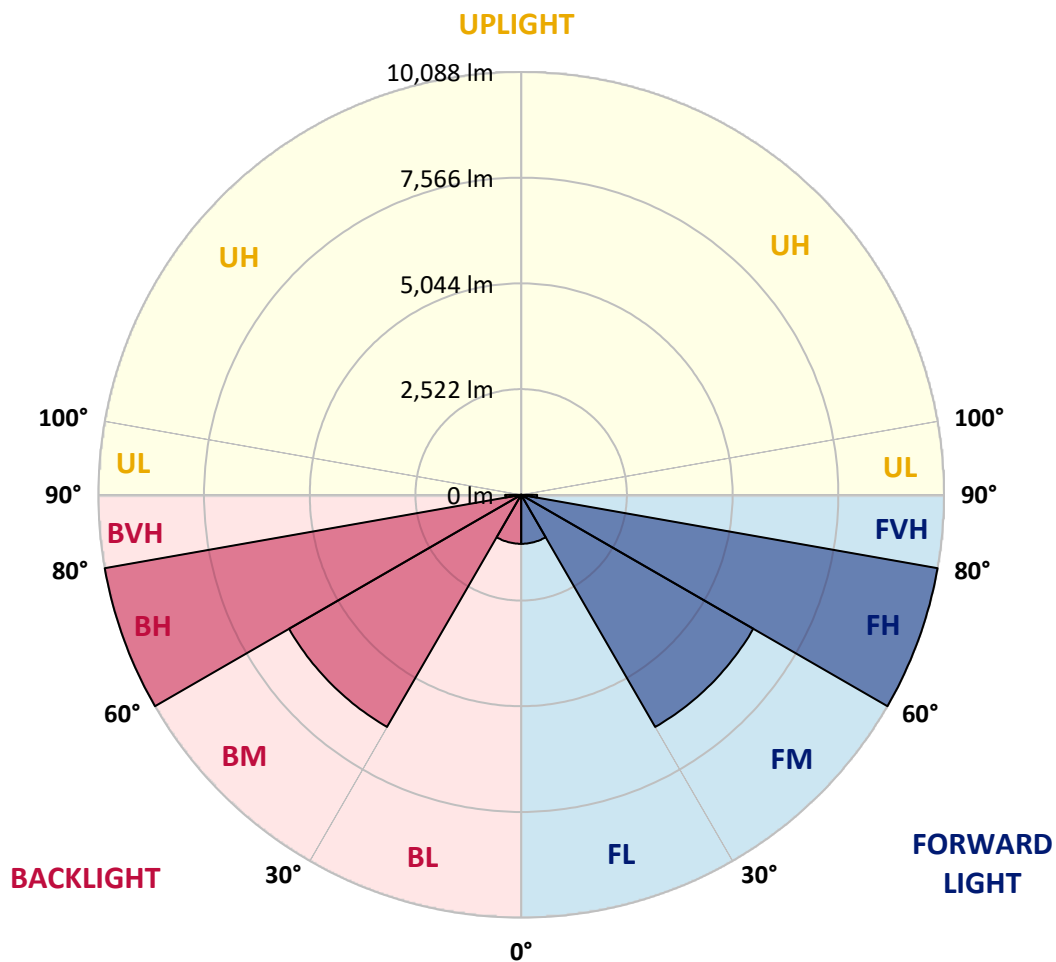
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1169.0	3.2			
FM	(30°-60°)	6394.6	17.7			
FH	(60°-80°)	10087.7	28.0			G4/12000
FVH	(80°-90°)	380.9	1.1			G3/500
BL	(0°-30°)	1169.0	3.2	B3/2500		
BM	(30°-60°)	6394.6	17.7	B4/8500		
BH	(60°-80°)	10087.7	28.0	B5		G4/12000
BVH	(80°-90°)	380.9	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°	2553.9	2553.9	2553.9	2553.9	2553.9	2553.9	2553.9	2553.9	2553.9	2553.9	2553.9
2.5°	2553.9	2555.6	2557.2	2555.6	2555.6	2553.9	2552.3	2553.9	2552.3	2548.9	2550.6
5°	2562.2	2565.5	2565.5	2562.2	2563.8	2562.2	2558.9	2560.5	2557.2	2552.3	2552.3
7.5°	2572.1	2573.8	2573.8	2570.5	2572.1	2568.8	2565.5	2563.8	2560.5	2553.9	2548.9
10°	2587.0	2588.6	2587.0	2583.7	2583.7	2578.7	2570.5	2567.1	2560.5	2550.6	2545.6
12.5°	2603.5	2605.2	2603.5	2600.2	2598.6	2590.3	2583.7	2578.7	2573.8	2565.5	2557.2
15°	2626.7	2630.0	2626.7	2620.1	2615.1	2608.5	2605.2	2606.8	2608.5	2601.9	2593.6
17.5°	2669.7	2671.4	2666.4	2651.5	2644.9	2638.3	2638.3	2641.6	2646.5	2643.2	2635.0
20°	2749.1	2744.1	2732.6	2714.4	2706.1	2694.5	2692.9	2694.5	2694.5	2692.9	2686.2
22.5°	2848.3	2845.0	2830.1	2807.0	2795.4	2788.8	2778.9	2770.6	2768.9	2764.0	2757.4
25°	2967.4	2965.8	2947.6	2927.7	2919.5	2911.2	2902.9	2891.3	2881.4	2869.8	2863.2
27.5°	3119.6	3113.0	3086.5	3076.6	3065.0	3060.1	3048.5	3035.2	3027.0	3012.1	3003.8
30°	3286.7	3286.7	3265.2	3261.9	3261.9	3250.3	3237.0	3213.9	3199.0	3184.1	3179.2
32.5°	3453.7	3455.4	3433.9	3440.5	3445.5	3453.7	3457.0	3448.8	3438.8	3437.2	3427.3
35°	3695.2	3688.6	3667.1	3672.1	3670.4	3668.8	3668.8	3687.0	3690.3	3693.6	3673.7
37.5°	3994.6	3994.6	3973.1	3973.1	3963.2	3953.3	3940.0	3951.6	3969.8	3974.8	3961.5
40°	4337.0	4348.6	4322.1	4320.5	4323.8	4292.4	4277.5	4295.7	4307.2	4327.1	4312.2
42.5°	4740.6	4732.3	4705.9	4702.6	4684.4	4674.5	4661.2	4676.1	4694.3	4707.5	4712.5
45°	5127.7	5121.1	5091.3	5091.3	5073.1	5064.8	5071.4	5096.2	5104.5	5122.7	5140.9
47.5°	5509.8	5501.5	5481.6	5489.9	5491.6	5506.5	5528.0	5551.1	5574.3	5599.1	5607.4
50°	5900.1	5901.8	5880.3	5900.1	5924.9	5966.3	6024.2	6062.2	6110.2	6141.6	6151.6
52.5°	6255.8	6262.4	6285.5	6331.8	6381.5	6462.5	6561.8	6654.4	6733.8	6786.7	6783.4
55°	6682.5	6692.4	6748.7	6828.1	6909.1	7031.5	7178.7	7342.5	7474.8	7550.9	7502.9
57.5°	7228.4	7249.9	7312.7	7420.2	7541.0	7699.8	7901.6	8148.0	8353.1	8455.7	8378.0
60°	7977.7	7990.9	8067.0	8186.1	8331.6	8528.5	8798.1	9128.9	9418.4	9554.0	9464.7
62.5°	8965.2	8990.0	9051.2	9171.9	9320.8	9544.1	9873.2	10286.8	10647.4	10835.9	10634.1
65°	10144.5	10223.9	10275.2	10397.6	10536.5	10773.1	11117.1	11560.4	11947.5	12071.5	11838.3
67.5°	11312.3	11381.8	11471.1	11611.7	11752.3	12018.6	12337.8	12767.9	13193.0	13305.5	12943.2
70°	11823.4	11863.1	12002.1	12193.9	12463.5	12777.8	13146.7	13629.7	14155.7	14248.3	13788.5
72.5°	10799.5	10839.2	10994.7	11320.6	11790.3	12289.9	12933.3	13642.9	14337.6	14441.8	13808.3
75°	8167.9	8103.4	8333.3	8765.0	9398.5	10094.9	10994.7	12012.0	13016.0	13146.7	12390.8
77.5°	4221.2	4213.0	4386.6	4922.6	5678.5	6470.8	7461.6	8611.2	9593.7	9990.7	9375.4
80°	1189.3	1202.5	1285.2	1551.5	1993.2	2565.5	3339.6	4416.4	5220.3	5630.5	5286.5
82.5°	466.5	502.8	534.3	583.9	641.8	726.1	969.3	1442.4	1935.3	2312.4	1893.9
85°	167.1	178.6	253.1	299.4	304.4	320.9	365.6	426.8	514.4	613.7	504.5
87.5°	62.9	69.5	81.1	134.0	132.3	120.7	147.2	153.8	115.8	105.9	130.7
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°	2553.9	2553.9	2553.9	2553.9	2553.9	2553.9	2553.9	2553.9
2.5°	2547.3	2548.9	2548.9	2550.6	2552.3	2552.3	2555.6	2555.6
5°	2548.9	2548.9	2545.6	2547.3	2545.6	2545.6	2547.3	2547.3
7.5°	2545.6	2544.0	2540.7	2539.0	2535.7	2535.7	2535.7	2535.7
10°	2540.7	2539.0	2535.7	2534.1	2532.4	2532.4	2532.4	2532.4
12.5°	2553.9	2548.9	2545.6	2544.0	2544.0	2544.0	2544.0	2544.0
15°	2588.6	2577.1	2568.8	2568.8	2570.5	2573.8	2573.8	2577.1
17.5°	2631.7	2618.4	2610.1	2603.5	2606.8	2611.8	2615.1	2618.4
20°	2682.9	2676.3	2664.7	2658.1	2658.1	2664.7	2668.0	2669.7
22.5°	2754.1	2749.1	2744.1	2735.9	2735.9	2739.2	2745.8	2745.8
25°	2859.9	2856.6	2853.3	2846.7	2845.0	2845.0	2848.3	2851.6
27.5°	2992.2	2993.9	2990.6	2988.9	2984.0	2982.3	2987.3	2985.6
30°	3169.2	3177.5	3185.8	3179.2	3170.9	3165.9	3161.0	3154.3
32.5°	3409.1	3399.1	3392.5	3381.0	3366.1	3352.8	3342.9	3331.3
35°	3635.7	3619.1	3612.5	3622.5	3620.8	3612.5	3600.9	3591.0
37.5°	3913.6	3910.3	3913.6	3931.8	3928.5	3936.7	3913.6	3911.9
40°	4264.2	4267.5	4290.7	4312.2	4323.8	4335.4	4322.1	4308.9
42.5°	4671.1	4669.5	4677.8	4707.5	4727.4	4740.6	4712.5	4709.2
45°	5101.2	5089.6	5096.2	5121.1	5140.9	5155.8	5124.4	5124.4
47.5°	5574.3	5554.4	5532.9	5561.0	5572.6	5582.5	5557.7	5549.5
50°	6101.9	6060.6	6014.3	6025.8	6025.8	6022.5	5991.1	5989.4
52.5°	6707.3	6631.2	6546.9	6515.4	6497.3	6477.4	6422.8	6396.4
55°	7403.7	7289.6	7157.2	7076.2	7033.2	6978.6	6887.6	6862.8
57.5°	8217.5	8038.9	7810.6	7711.4	7615.4	7526.1	7425.2	7397.1
60°	9181.8	8918.8	8616.1	8432.5	8328.3	8242.3	8138.1	8133.1
62.5°	10257.0	9841.8	9499.4	9334.0	9257.9	9181.8	9082.6	9095.8
65°	11350.3	10917.0	10596.1	10462.1	10391.0	10328.1	10228.9	10243.8
67.5°	12428.8	12030.2	11677.9	11540.6	11461.2	11381.8	11292.5	11307.3
70°	13202.9	12708.4	12311.4	12007.0	11816.8	11601.8	11462.8	11428.1
72.5°	12981.3	12218.7	11588.5	10984.8	10630.8	10343.0	10147.8	10063.5
75°	11234.6	10192.5	9382.0	8641.0	8224.1	7885.0	7638.6	7484.7
77.5°	8343.2	7172.1	6214.4	5360.9	4686.0	4232.8	3913.6	3706.8
80°	4566.9	3473.6	2539.0	1784.8	1311.7	1090.0	962.7	901.5
82.5°	1422.5	918.0	676.5	583.9	542.5	519.4	481.3	420.1
85°	453.2	397.0	368.9	352.3	335.8	292.8	201.8	183.6
87.5°	175.3	180.3	178.6	168.7	172.0	124.1	99.2	87.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)