

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: P300699

Luminaire Tested: **GAA-AF-08-LED-U-RW-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300699
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAA-AF-08-LED-U-RW-8030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Rectangular
Wide Type I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26125.7 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B4 - U0 - G2

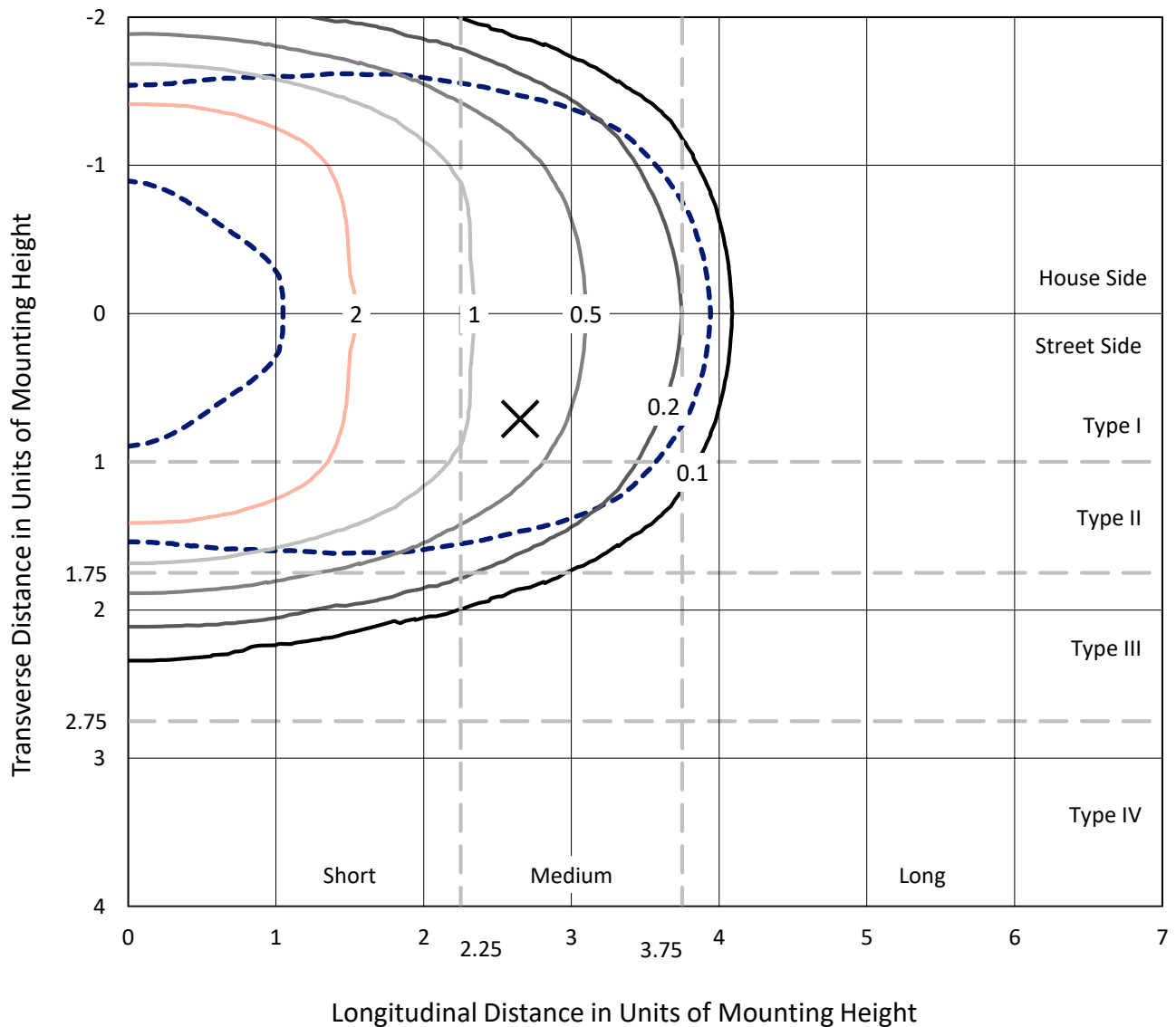
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

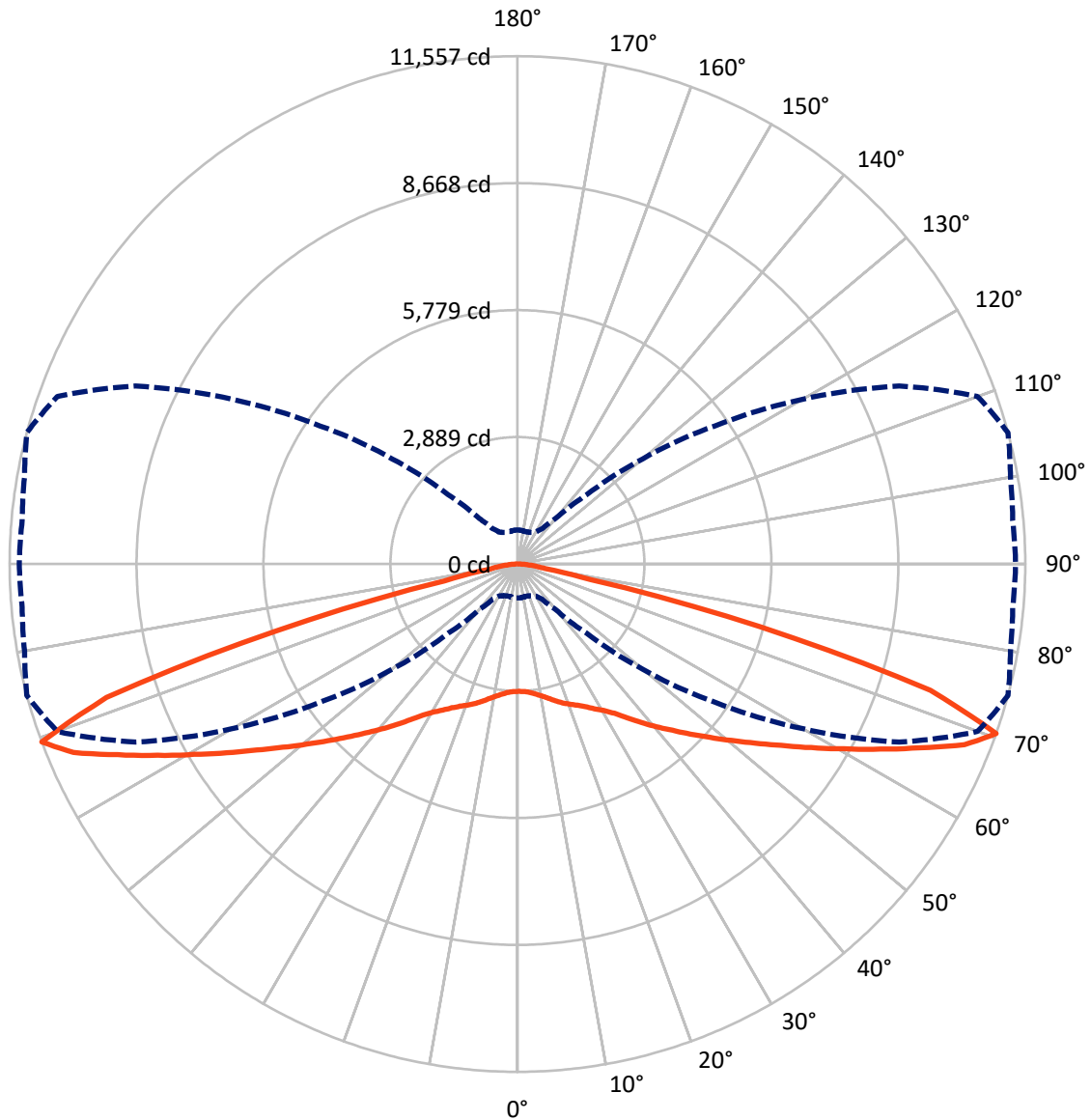
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13062.8	0.0	13062.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13062.8	0.0	13062.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	26125.7	0.0	26125.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.9	1.1
10°-20°	863.6	3.3
20°-30°	1625.4	6.2
30°-40°	2878.3	11.0
40°-50°	4813.4	18.4
50°-60°	6707.5	25.7
60°-70°	6220.1	23.8
70°-80°	2478.9	9.5
80°-90°	260.6	1.0
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°	26125.7	100.0
0°-180°	26125.7	100.0

Coefficient of Utilization



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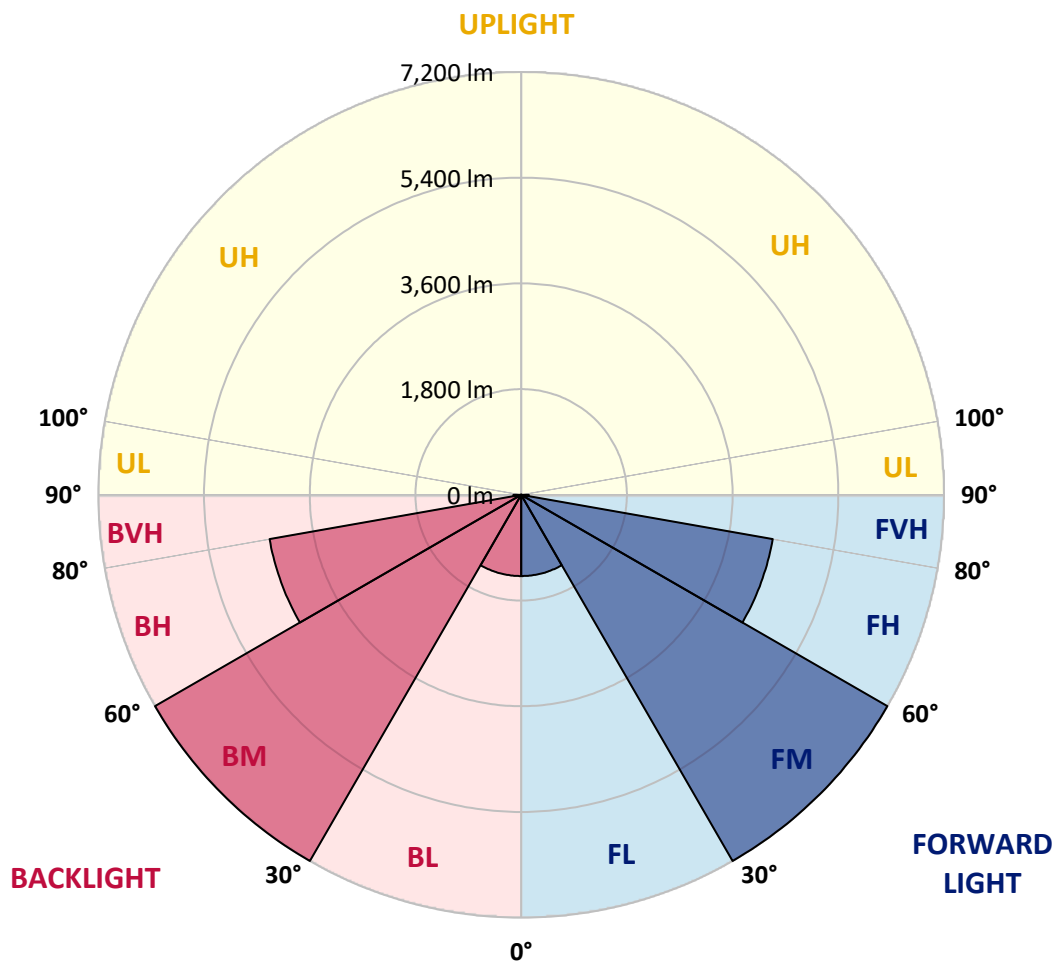
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1383.5	5.3			
FM	(30°-60°)	7199.6	27.6			
FH	(60°-80°)	4349.5	16.6			G2/5000
FVH	(80°-90°)	130.3	0.5			G2/225
BL	(0°-30°)	1383.5	5.3	B3/2500		
BM	(30°-60°)	7199.6	27.6	B4/8500		
BH	(60°-80°)	4349.5	16.6	B4/5000		G2/5000
BVH	(80°-90°)	130.3	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2897.9	2897.9	2897.9	2897.9	2897.9	2897.9	2897.9	2897.9	2897.9	2897.9	2897.9
2.5°	2893.0	2890.5	2893.0	2891.8	2894.2	2894.2	2896.7	2901.7	2901.7	2905.4	2904.1
5°	2864.6	2863.4	2867.1	2870.8	2874.5	2881.9	2889.3	2900.4	2909.1	2915.2	2921.4
7.5°	2809.0	2809.0	2814.0	2822.6	2831.3	2847.3	2864.6	2886.8	2909.1	2927.6	2943.6
10°	2763.4	2765.8	2772.0	2786.8	2801.6	2826.3	2849.8	2881.9	2912.8	2943.6	2968.3
12.5°	2736.2	2739.9	2751.0	2773.2	2797.9	2831.3	2867.1	2907.8	2942.4	2979.4	3004.1
15°	2744.8	2747.3	2763.4	2790.5	2822.6	2864.6	2912.8	2960.9	3001.7	3041.2	3074.5
17.5°	2793.0	2796.7	2815.2	2846.1	2879.4	2928.8	2980.7	3035.0	3085.6	3130.1	3170.8
20°	2879.4	2883.1	2906.6	2939.9	2979.4	3030.1	3081.9	3138.7	3195.5	3242.4	3288.1
22.5°	3001.7	3007.8	3030.1	3063.4	3107.9	3162.2	3223.9	3284.4	3338.7	3382.0	3422.7
25°	3162.2	3175.8	3196.8	3233.8	3280.7	3330.1	3396.8	3458.5	3510.4	3551.1	3580.8
27.5°	3389.4	3407.9	3423.9	3459.8	3505.4	3552.4	3619.0	3673.4	3722.8	3762.3	3784.5
30°	3690.7	3709.2	3725.2	3759.8	3801.8	3846.2	3909.2	3957.4	3988.2	4019.1	4017.9
32.5°	4056.1	4075.9	4082.1	4119.1	4162.3	4210.5	4267.3	4294.4	4319.1	4322.8	4300.6
35°	4464.8	4474.7	4499.4	4548.8	4598.2	4637.7	4692.0	4705.6	4705.6	4687.1	4637.7
37.5°	4913.0	4919.2	4953.8	5009.4	5060.0	5100.7	5137.8	5164.9	5151.4	5111.8	5029.1
40°	5404.5	5415.6	5465.0	5514.4	5571.2	5609.4	5649.0	5653.9	5640.3	5582.3	5469.9
42.5°	5873.7	5883.6	5932.9	6010.7	6084.8	6137.9	6175.0	6182.4	6139.2	6086.1	5946.5
45°	6277.4	6303.4	6367.6	6458.9	6566.4	6641.7	6692.3	6713.3	6675.0	6605.9	6444.1
47.5°	6597.2	6623.2	6714.5	6823.2	6956.6	7078.8	7162.8	7207.2	7197.3	7145.5	6968.9
50°	6831.8	6856.5	6955.3	7088.7	7244.2	7396.1	7539.4	7645.5	7682.6	7659.1	7497.4
52.5°	6859.0	6899.8	7015.8	7194.9	7397.4	7604.8	7808.5	7988.8	8111.0	8129.6	8009.8
55°	6479.9	6520.7	6681.2	6946.7	7248.0	7586.3	7912.2	8216.0	8456.8	8580.2	8517.3
57.5°	5586.0	5658.8	5828.0	6139.2	6582.4	7088.7	7608.5	8148.1	8638.3	8965.5	9028.5
60°	4280.9	4367.3	4537.7	4868.6	5362.5	5966.3	6660.2	7457.9	8323.4	9059.3	9498.9
62.5°	2746.1	2827.6	3006.6	3294.3	3696.8	4351.2	5095.8	6042.8	7206.0	8367.9	9414.9
65°	1411.3	1455.8	1549.6	1723.7	2037.3	2526.3	3194.3	4138.9	5468.7	6902.2	8416.0
67.5°	894.0	902.6	923.6	948.3	1028.5	1197.7	1508.9	2097.8	3191.8	4687.1	6458.9
70°	773.0	773.0	763.1	759.4	769.2	792.7	840.9	977.9	1347.1	2225.0	3725.2
72.5°	707.5	700.1	682.8	669.2	666.8	666.8	676.6	697.6	756.9	906.3	1458.2
75°	651.9	631.0	607.5	591.4	585.3	579.1	577.9	581.6	593.9	617.4	696.4
77.5°	584.0	556.9	529.7	513.7	506.2	497.6	490.2	481.6	475.4	482.8	517.4
80°	502.5	471.7	450.7	440.8	433.4	421.0	405.0	390.2	376.6	374.1	395.1
82.5°	405.0	369.2	370.4	374.1	360.5	343.3	326.0	309.9	286.5	274.1	286.5
85°	327.2	308.7	300.0	323.5	303.7	277.8	250.7	222.3	185.2	155.6	169.2
87.5°	127.2	127.2	190.2	292.6	263.0	214.8	184.0	156.8	97.5	75.3	76.6
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°	2897.9	2897.9	2897.9	2897.9	2897.9	2897.9	2897.9	2897.9
2.5°	2902.9	2905.4	2904.1	2902.9	2902.9	2901.7	2902.9	2902.9
5°	2925.1	2931.3	2931.3	2933.8	2933.8	2935.0	2936.2	2935.0
7.5°	2958.4	2969.6	2977.0	2985.6	2986.8	2988.1	2990.6	2988.1
10°	2991.8	3014.0	3030.1	3046.1	3053.5	3056.0	3058.5	3058.5
12.5°	3033.8	3064.6	3093.0	3121.4	3135.0	3142.4	3142.4	3147.4
15°	3102.9	3133.8	3167.1	3205.4	3228.9	3241.2	3244.9	3244.9
17.5°	3200.5	3227.6	3256.0	3293.1	3322.7	3338.7	3342.5	3341.2
20°	3314.1	3340.0	3356.0	3379.5	3405.4	3423.9	3428.9	3428.9
22.5°	3443.7	3458.5	3461.0	3468.4	3489.4	3514.1	3525.2	3527.7
25°	3586.9	3590.6	3580.8	3580.8	3594.3	3617.8	3628.9	3630.1
27.5°	3772.1	3753.6	3728.9	3720.3	3728.9	3756.1	3769.7	3774.6
30°	4003.0	3958.6	3901.8	3870.9	3866.0	3901.8	3926.5	3930.2
32.5°	4267.3	4203.1	4127.8	4064.8	4048.7	4071.0	4100.6	4099.4
35°	4580.9	4504.3	4413.0	4332.7	4295.7	4317.9	4359.9	4364.8
37.5°	4942.7	4842.7	4737.7	4636.5	4578.4	4584.6	4629.1	4643.9
40°	5346.4	5216.8	5084.7	4948.9	4866.1	4850.1	4904.4	4913.0
42.5°	5778.6	5611.9	5445.2	5277.3	5171.1	5146.4	5209.4	5205.7
45°	6239.2	6026.8	5831.7	5646.5	5520.5	5483.5	5535.4	5535.4
47.5°	6734.3	6472.5	6240.4	6030.5	5893.4	5840.3	5889.7	5893.4
50°	7259.1	6981.2	6708.4	6475.0	6310.8	6242.9	6307.1	6317.0
52.5°	7781.4	7511.0	7235.6	6968.9	6770.1	6687.4	6761.5	6793.6
55°	8311.1	8045.6	7782.6	7522.1	7286.2	7188.7	7267.7	7308.5
57.5°	8870.4	8624.7	8374.0	8111.0	7883.8	7732.0	7815.9	7870.3
60°	9526.1	9316.1	9055.6	8765.5	8535.8	8381.4	8429.6	8477.8
62.5°	10044.6	10126.1	9905.1	9569.3	9274.2	9076.6	9123.5	9174.2
65°	9794.0	10629.9	10826.2	10486.7	10078.0	9770.5	9750.8	9776.7
67.5°	8186.4	9810.0	10994.2	11317.7	10975.6	10548.4	10469.4	10507.7
70°	5476.1	7498.6	9587.8	11143.6	11557.2	11391.8	11314.0	11337.4
72.5°	2630.0	4367.3	6504.6	8572.8	9832.3	10410.1	10595.3	10685.5
75°	961.9	1733.6	3135.0	4724.1	5703.3	6602.2	7188.7	7428.2
77.5°	580.3	700.1	1001.4	1507.6	1707.7	1911.4	1832.4	1871.9
80°	429.7	485.3	549.5	617.4	639.6	639.6	614.9	595.1
82.5°	301.3	337.1	368.0	405.0	414.9	396.4	326.0	259.3
85°	193.9	209.9	223.5	246.9	240.8	229.7	154.3	137.1
87.5°	88.9	101.2	106.2	117.3	112.4	107.4	76.6	64.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)