

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: P193354

Luminaire Tested: **GAN-AF-06-LED-U-5MQ-8030-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193354
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-8030-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30518 lumens
Efficiency: N/A
Efficacy: 91.6 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

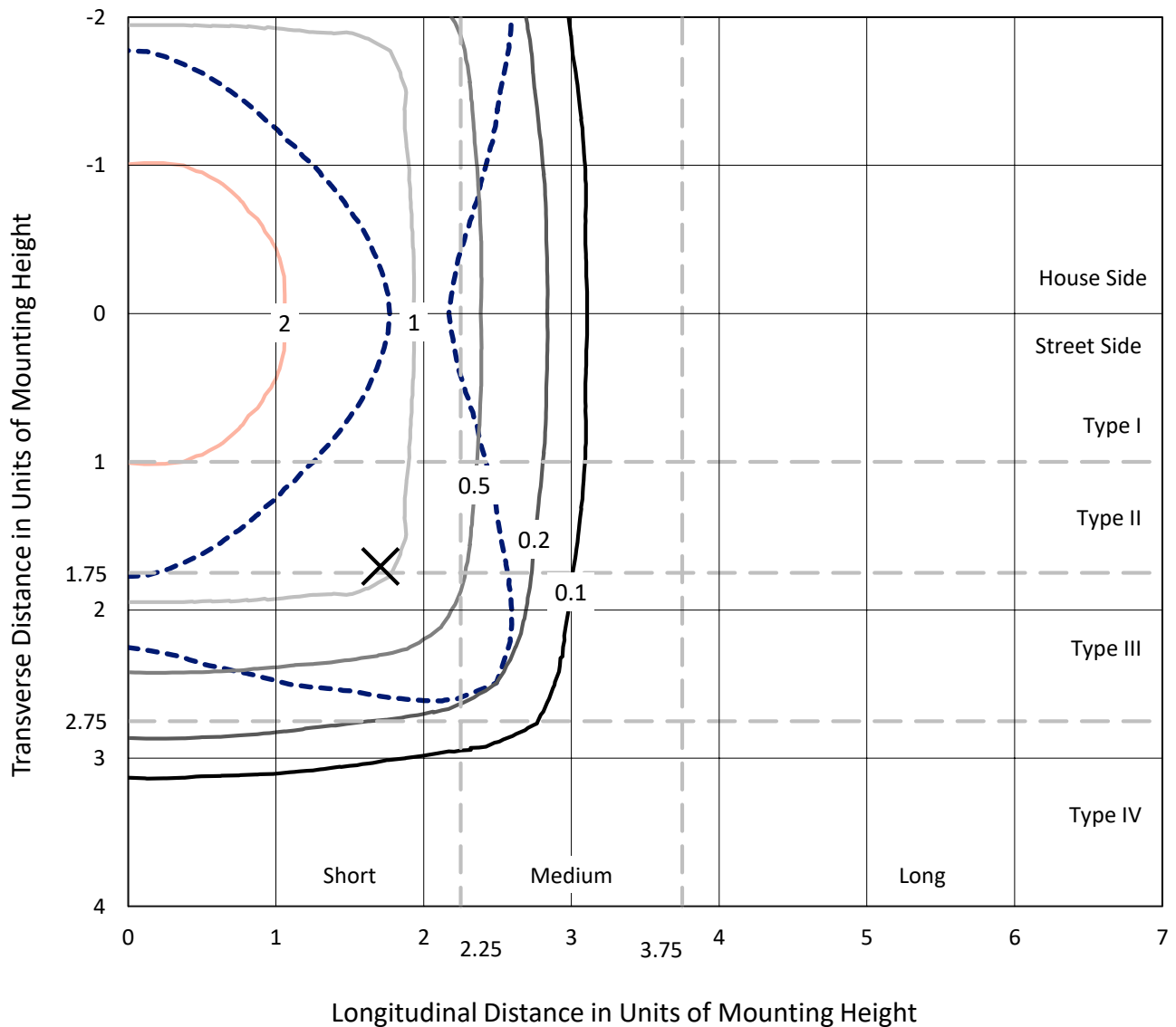
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

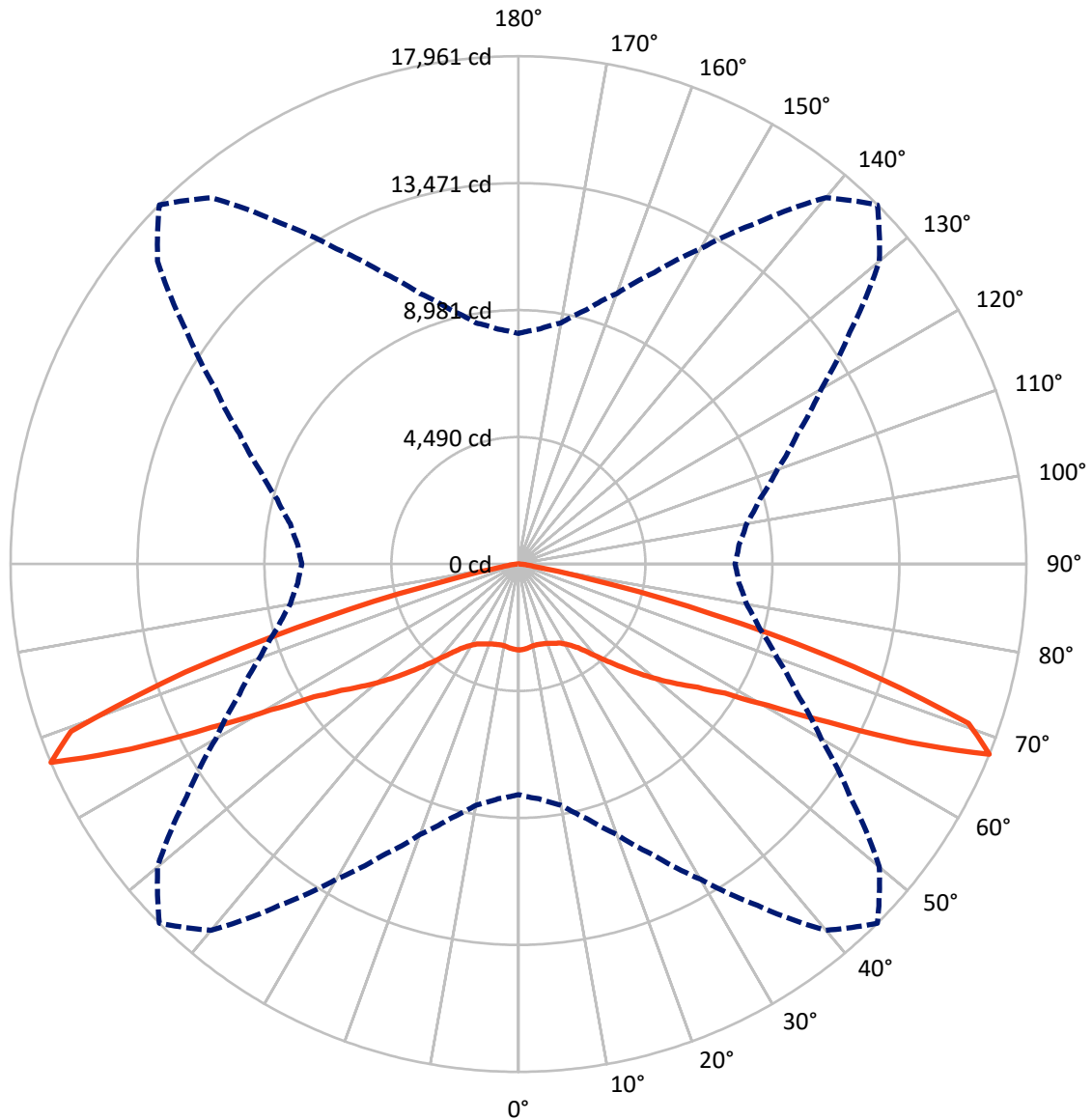
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.4 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	15259.0	0.0	15259.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15259.0	0.0	15259.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	30518.0	0.0	30518.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.6	0.9
10°-20°	826.0	2.7
20°-30°	1404.2	4.6
30°-40°	2295.4	7.5
40°-50°	4097.7	13.4
50°-60°	6908.8	22.6
60°-70°	10721.4	35.1
70°-80°	3767.0	12.3
80°-90°	212.9	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°	30518.0	100.0
0°-180°	30518.0	100.0



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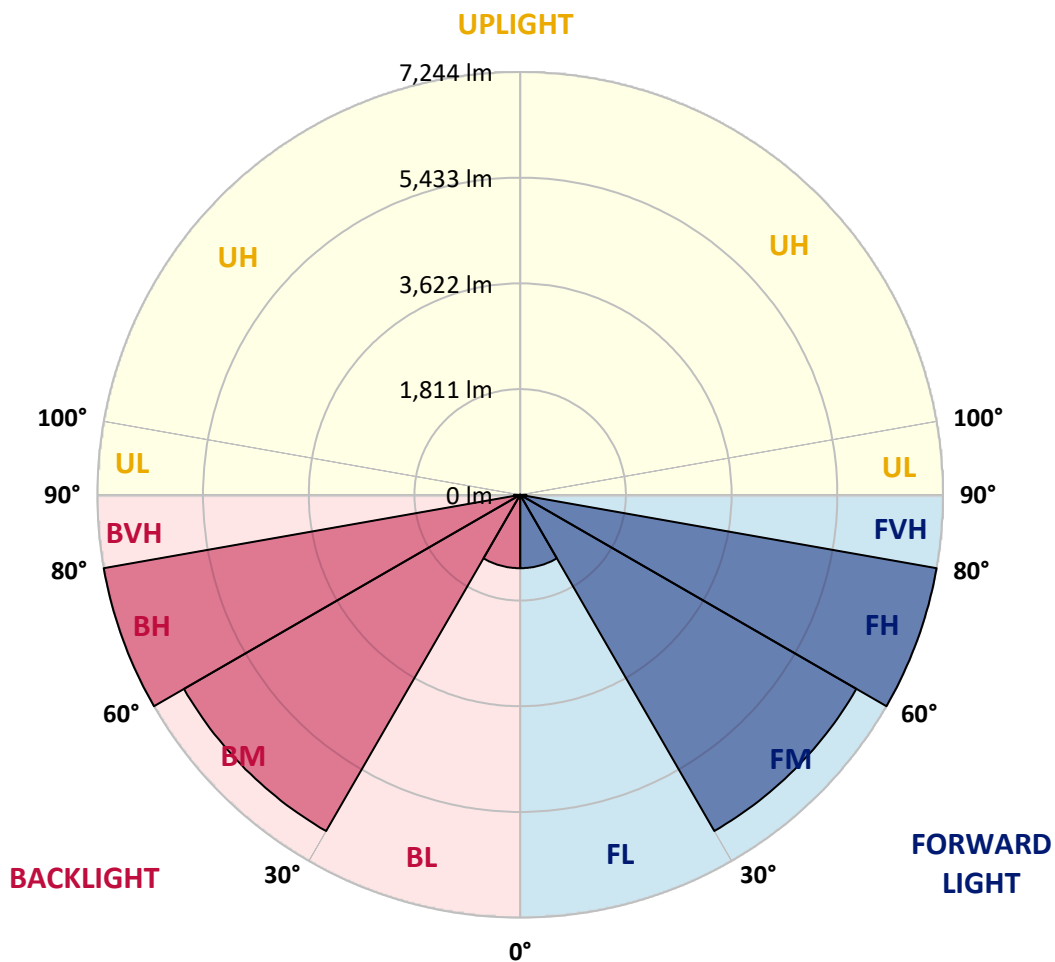
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1257.4	4.1			
FM	(30°-60°)	6650.9	21.8			
FH	(60°-80°)	7244.2	23.7			G3/7500
FVH	(80°-90°)	106.4	0.3			G2/225
BL	(0°-30°)	1257.4	4.1	B3/2500		
BM	(30°-60°)	6650.9	21.8	B4/8500		
BH	(60°-80°)	7244.2	23.7	B5		G3/7500
BVH	(80°-90°)	106.4	0.3			G2/225
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°	3041.2	3041.2	3041.2	3041.2	3041.2	3041.2	3041.2	3041.2	3041.2	3041.2	3041.2
2.5°	3030.0	3032.8	3032.8	3032.8	3031.4	3031.4	3028.6	3031.4	3030.0	3025.8	3027.2
5°	3004.8	3007.6	3007.6	3006.2	3010.4	3009.0	3004.8	3007.6	3006.2	3003.4	3004.8
7.5°	2968.3	2972.5	2972.5	2971.1	2975.3	2973.9	2971.1	2972.5	2972.5	2968.3	2968.3
10°	2927.6	2930.4	2930.4	2929.0	2936.0	2936.0	2934.6	2938.8	2940.2	2936.0	2933.2
12.5°	2889.7	2893.9	2893.9	2899.5	2906.5	2909.3	2916.3	2922.0	2927.6	2926.2	2920.6
15°	2867.2	2870.0	2875.6	2882.7	2893.9	2903.7	2914.9	2927.6	2938.8	2941.6	2933.2
17.5°	2853.2	2857.4	2865.8	2875.6	2891.1	2907.9	2924.8	2941.6	2957.0	2962.7	2952.8
20°	2849.0	2851.8	2860.2	2877.0	2898.1	2923.4	2947.2	2966.9	2987.9	2994.9	2987.9
22.5°	2857.4	2863.0	2872.8	2892.5	2920.6	2952.8	2980.9	3007.6	3034.2	3046.9	3037.0
25°	2895.3	2900.9	2913.5	2938.8	2969.7	3003.4	3035.6	3066.5	3090.4	3103.0	3096.0
27.5°	2965.5	2972.5	2987.9	3013.2	3046.9	3083.4	3118.4	3143.7	3163.3	3167.6	3159.1
30°	3070.7	3086.2	3104.4	3132.5	3171.8	3202.6	3237.7	3260.2	3284.0	3284.0	3277.0
32.5°	3234.9	3250.4	3270.0	3296.7	3327.5	3361.2	3392.1	3411.8	3437.0	3438.4	3421.6
35°	3480.5	3487.5	3504.4	3521.2	3549.3	3578.8	3605.4	3618.1	3639.1	3640.5	3625.1
37.5°	3804.7	3806.1	3817.3	3823.0	3848.2	3880.5	3905.8	3914.2	3933.8	3931.0	3915.6
40°	4182.2	4189.3	4193.5	4201.9	4228.6	4259.4	4286.1	4290.3	4311.4	4307.1	4287.5
42.5°	4618.7	4621.5	4645.4	4658.0	4683.3	4698.7	4732.4	4736.6	4761.9	4750.6	4728.2
45°	5108.5	5133.8	5156.2	5181.5	5208.2	5226.4	5253.1	5247.4	5264.3	5247.4	5234.8
47.5°	5623.6	5641.8	5692.3	5731.6	5775.1	5790.6	5828.5	5811.6	5828.5	5804.6	5800.4
50°	6190.6	6222.8	6266.3	6311.3	6357.6	6382.8	6432.0	6410.9	6433.4	6410.9	6398.3
52.5°	6749.1	6757.5	6853.0	6918.9	6983.5	7013.0	7042.4	7032.6	7034.0	7032.6	7020.0
55°	7279.6	7299.3	7394.7	7484.5	7596.8	7679.6	7730.1	7724.5	7711.9	7699.3	7678.2
57.5°	7877.5	7897.1	8006.6	8117.5	8245.2	8363.1	8465.5	8570.8	8611.5	8622.7	8576.4
60°	8685.9	8684.5	8830.4	8965.2	9147.6	9323.0	9547.6	9776.3	10038.8	10160.9	9999.5
62.5°	9508.3	9542.0	9752.5	9991.1	10367.2	10733.5	11147.5	11554.5	11969.9	12308.1	11948.9
65°	9410.0	9539.2	9852.1	10392.4	11087.2	11912.4	12805.0	13749.5	14602.8	15189.4	14531.2
67.5°	8155.4	8339.2	8657.8	9314.6	10183.3	11373.5	12872.3	14740.3	16911.4	17961.2	16660.2
70°	5911.3	6119.0	6453.0	7094.4	7954.7	9085.8	10713.8	12956.5	15830.8	16889.0	15456.0
72.5°	2941.6	3053.9	3260.2	3668.6	4319.8	5237.6	6714.0	8869.7	11412.7	12383.9	11074.5
75°	999.2	1051.2	1086.3	1219.6	1425.9	1786.6	2520.6	3877.7	5915.5	7091.6	5831.3
77.5°	576.8	578.2	602.1	625.9	661.0	700.3	798.6	1048.4	1813.2	2575.3	1876.4
80°	373.3	371.9	391.6	409.8	433.7	453.3	458.9	485.6	560.0	663.8	593.7
82.5°	193.7	217.5	261.0	284.9	329.8	338.2	327.0	317.2	335.4	348.1	356.5
85°	106.7	92.6	138.9	179.6	199.3	202.1	202.1	190.9	197.9	193.7	210.5
87.5°	49.1	44.9	54.7	88.4	94.0	80.0	84.2	74.4	53.3	51.9	58.9
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°	3041.2	3041.2	3041.2	3041.2	3041.2	3041.2	3041.2	3041.2
2.5°	3027.2	3028.6	3028.6	3032.8	3034.2	3037.0	3039.8	3041.2
5°	3003.4	3007.6	3004.8	3009.0	3009.0	3011.8	3011.8	3013.2
7.5°	2968.3	2972.5	2972.5	2972.5	2971.1	2975.3	2975.3	2975.3
10°	2931.8	2934.6	2933.2	2930.4	2927.6	2931.8	2930.4	2929.0
12.5°	2920.6	2913.5	2907.9	2905.1	2899.5	2900.9	2896.7	2896.7
15°	2927.6	2914.9	2905.1	2900.9	2895.3	2892.5	2889.7	2891.1
17.5°	2945.8	2930.4	2917.7	2910.7	2903.7	2899.5	2893.9	2895.3
20°	2978.1	2959.8	2941.6	2927.6	2914.9	2907.9	2903.7	2902.3
22.5°	3025.8	2999.1	2972.5	2951.4	2934.6	2924.8	2920.6	2917.7
25°	3080.5	3051.1	3020.2	2996.3	2979.5	2966.9	2958.4	2958.4
27.5°	3149.3	3125.5	3097.4	3069.3	3053.9	3041.2	3035.6	3032.8
30°	3264.4	3241.9	3219.5	3192.8	3173.2	3160.5	3150.7	3142.3
32.5°	3411.8	3393.5	3375.3	3355.6	3337.4	3320.5	3305.1	3298.1
35°	3619.5	3605.4	3592.8	3570.3	3563.3	3553.5	3545.1	3538.1
37.5°	3905.8	3900.2	3900.2	3876.3	3870.7	3866.5	3858.0	3859.5
40°	4281.9	4287.5	4280.5	4272.1	4267.9	4256.6	4256.6	4266.4
42.5°	4726.8	4731.0	4746.4	4732.4	4747.8	4733.8	4725.4	4732.4
45°	5243.2	5258.7	5289.6	5275.5	5285.3	5261.5	5232.0	5233.4
47.5°	5822.9	5836.9	5849.5	5839.7	5841.1	5801.8	5762.5	5752.7
50°	6424.9	6430.5	6437.6	6423.5	6426.3	6382.8	6337.9	6339.3
52.5°	7020.0	7046.7	7074.7	7036.8	7028.4	6979.3	6916.1	6890.9
55°	7700.7	7738.6	7706.3	7640.3	7574.3	7508.4	7425.6	7411.5
57.5°	8539.9	8475.4	8374.3	8249.4	8158.2	8065.6	7981.3	7946.3
60°	9707.6	9464.8	9282.3	9097.1	8980.6	8866.9	8756.0	8739.2
62.5°	11358.0	10938.4	10574.9	10191.8	9878.8	9634.6	9439.5	9384.8
65°	13426.7	12434.4	11574.1	10771.4	10073.9	9547.6	9216.4	9070.4
67.5°	14316.5	12357.3	10882.2	9742.7	8830.4	8193.3	7835.4	7657.2
70°	12580.4	10247.9	8643.8	7502.8	6671.9	5992.7	5668.5	5477.6
72.5°	8655.0	6519.0	5154.8	4207.5	3543.7	2975.3	2750.7	2733.9
75°	3886.1	2573.9	1773.9	1366.9	1150.8	1000.7	954.3	919.3
77.5°	1087.7	804.2	717.2	670.8	625.9	574.0	554.4	558.6
80°	529.1	499.6	480.0	450.5	409.8	366.3	346.6	355.1
82.5°	350.9	346.6	359.3	338.2	279.3	237.2	199.3	182.4
85°	213.3	216.1	220.3	221.7	188.1	131.9	89.8	101.0
87.5°	84.2	96.8	105.3	109.5	102.5	63.2	50.5	51.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)