

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: P268643

Luminaire Tested: **GAN-AF-07-LED-U-5MQ-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268643
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-07-LED-U-5MQ-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31046.2 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 295
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

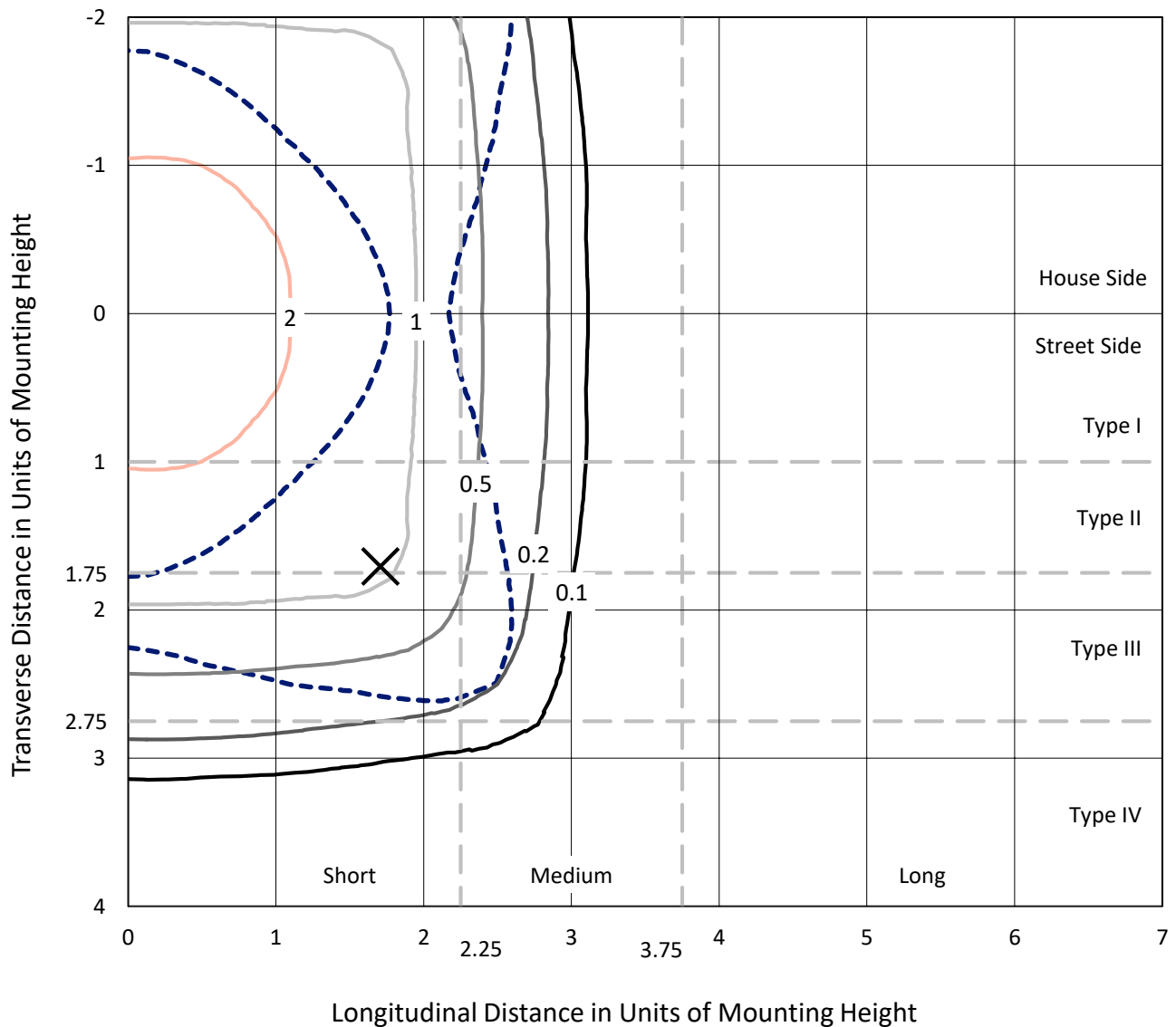


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

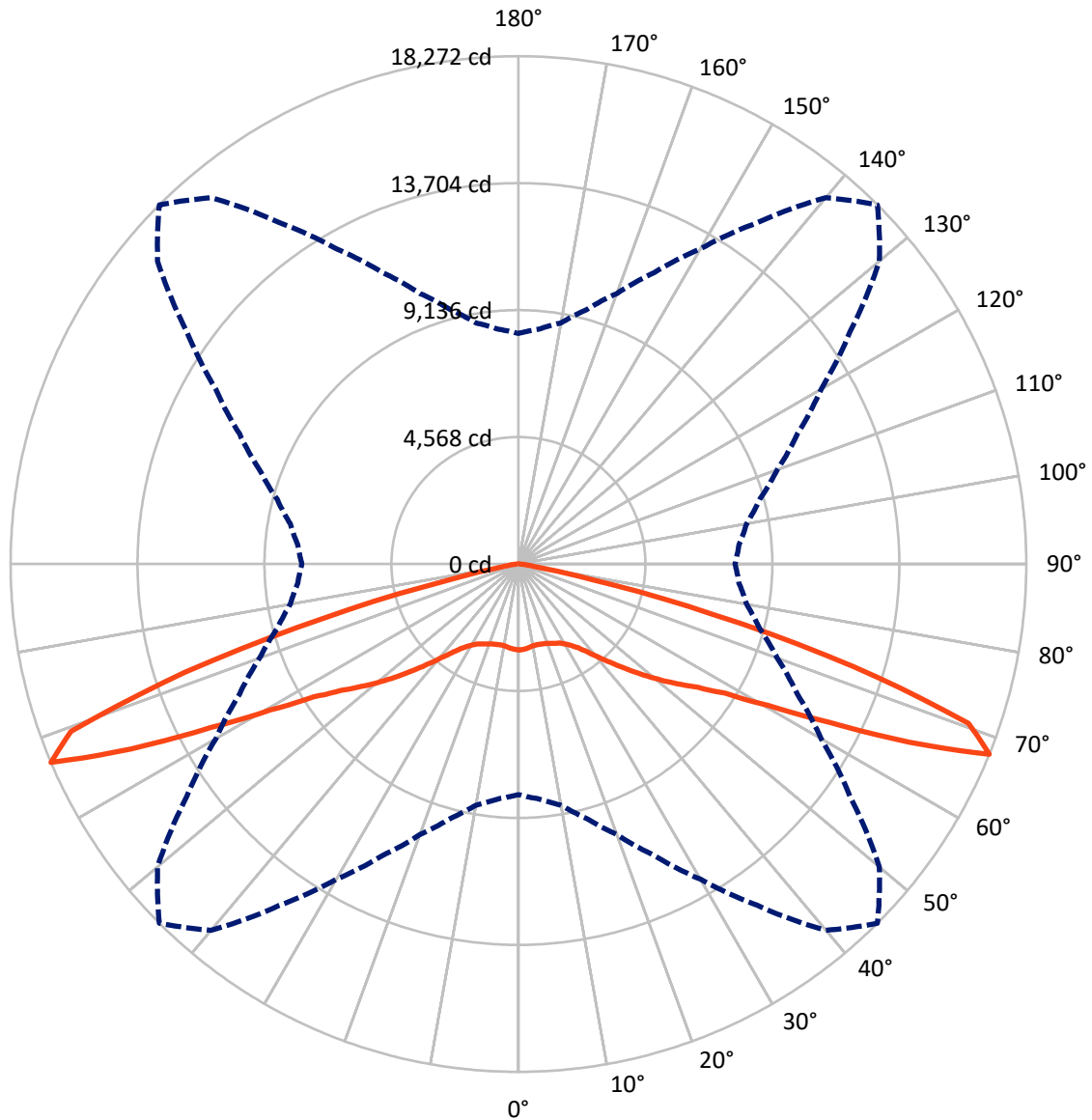


Based on 30 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - Full Cutoff

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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	15523.1	0.0	15523.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15523.1	0.0	15523.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	31046.2	0.0	31046.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.6	0.9
10°-20°	840.3	2.7
20°-30°	1428.5	4.6
30°-40°	2335.1	7.5
40°-50°	4168.6	13.4
50°-60°	7028.4	22.6
60°-70°	10907.0	35.1
70°-80°	3832.2	12.3
80°-90°	216.6	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°	31046.2	100.0
0°-180°	31046.2	100.0

Coefficient of Utilization



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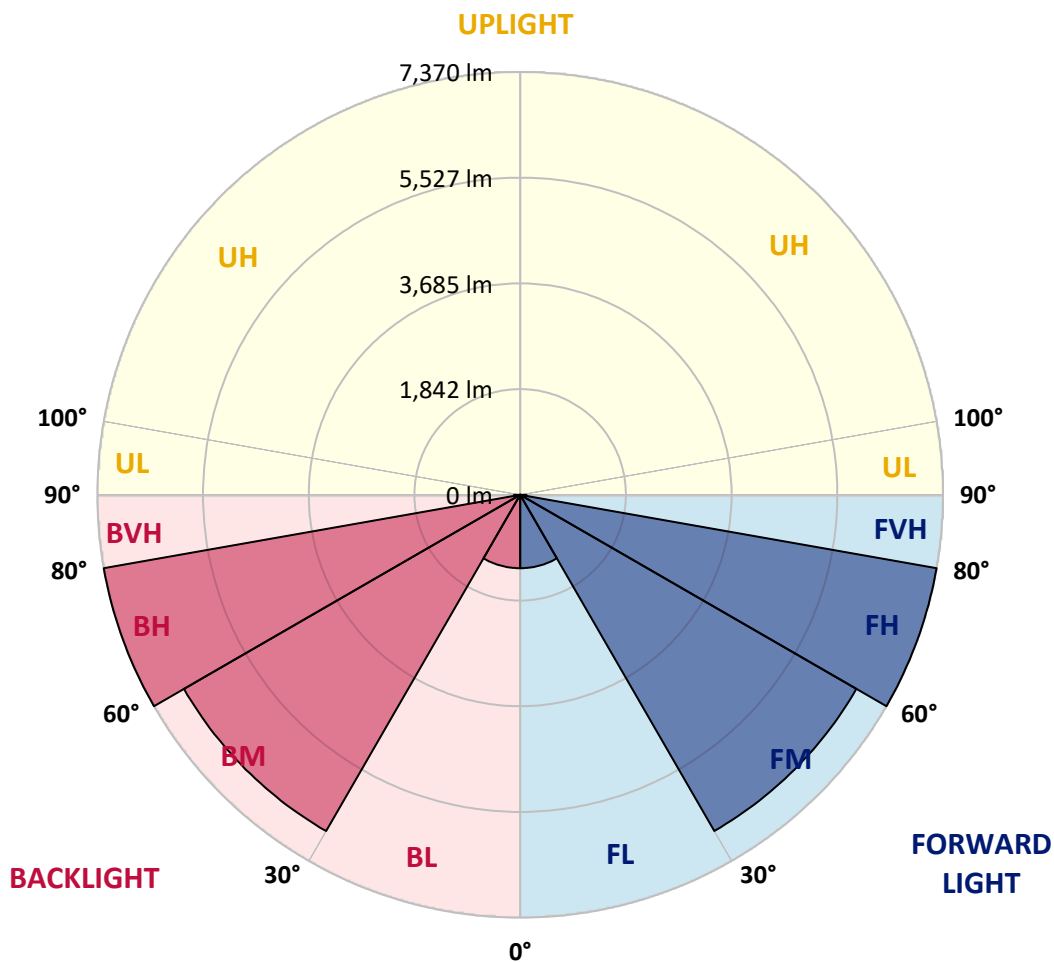
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1279.2	4.1			
FM	(30°-60°)	6766.0	21.8			
FH	(60°-80°)	7369.6	23.7			G3/7500
FVH	(80°-90°)	108.3	0.3			G2/225
BL	(0°-30°)	1279.2	4.1	B3/2500		
BM	(30°-60°)	6766.0	21.8	B4/8500		
BH	(60°-80°)	7369.6	23.7	B5		G3/7500
BVH	(80°-90°)	108.3	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°	3093.9	3093.9	3093.9	3093.9	3093.9	3093.9	3093.9	3093.9	3093.9	3093.9	3093.9
2.5°	3082.4	3085.3	3085.3	3085.3	3083.9	3083.9	3081.0	3083.9	3082.4	3078.2	3079.6
5°	3056.8	3059.6	3059.6	3058.2	3062.5	3061.1	3056.8	3059.6	3058.2	3055.3	3056.8
7.5°	3019.7	3024.0	3024.0	3022.4	3026.7	3025.3	3022.4	3024.0	3024.0	3019.7	3019.7
10°	2978.2	2981.0	2981.0	2979.7	2986.9	2986.9	2985.3	2989.6	2991.0	2986.9	2984.0
12.5°	2939.8	2943.9	2943.9	2949.7	2956.9	2959.6	2966.8	2972.5	2978.2	2976.9	2971.1
15°	2916.8	2919.8	2925.4	2932.5	2943.9	2953.9	2965.3	2978.2	2989.6	2992.6	2984.0
17.5°	2902.6	2906.8	2915.4	2925.4	2941.1	2958.3	2975.4	2992.6	3008.2	3014.0	3003.9
20°	2898.3	2901.2	2909.7	2926.9	2948.2	2974.0	2998.3	3018.2	3039.7	3046.8	3039.7
22.5°	2906.8	2912.6	2922.5	2942.6	2971.1	3003.9	3032.5	3059.6	3086.8	3099.6	3089.6
25°	2945.5	2951.1	2964.0	2989.6	3021.1	3055.3	3088.2	3119.5	3143.9	3156.7	3149.5
27.5°	3016.8	3024.0	3039.7	3065.3	3099.6	3136.7	3172.5	3198.1	3218.1	3222.4	3213.9
30°	3123.9	3139.5	3158.1	3186.6	3226.6	3258.1	3293.7	3316.6	3340.8	3340.8	3333.7
32.5°	3290.9	3306.7	3326.7	3353.7	3385.2	3419.4	3450.7	3470.8	3496.6	3497.9	3480.8
35°	3540.8	3547.9	3565.1	3582.3	3610.7	3640.7	3667.8	3680.6	3702.2	3703.5	3687.8
37.5°	3870.5	3872.1	3883.5	3889.1	3914.9	3947.7	3973.4	3981.9	4001.9	3999.1	3983.4
40°	4254.6	4261.7	4266.1	4274.7	4301.8	4333.2	4360.4	4364.5	4386.0	4381.8	4361.7
42.5°	4698.7	4701.5	4725.8	4738.6	4764.3	4780.1	4814.2	4818.6	4844.3	4832.8	4810.1
45°	5197.0	5222.7	5245.5	5271.2	5298.4	5316.9	5343.9	5338.3	5355.4	5338.3	5325.4
47.5°	5720.9	5739.5	5790.8	5830.9	5875.2	5890.8	5929.4	5912.3	5929.4	5905.1	5900.7
50°	6297.7	6330.5	6374.8	6420.5	6467.5	6493.3	6543.3	6521.9	6544.7	6521.9	6508.9
52.5°	6865.9	6874.5	6971.6	7038.7	7104.3	7134.3	7164.3	7154.3	7155.8	7154.3	7141.4
55°	7405.6	7425.6	7522.6	7614.0	7728.3	7812.5	7863.9	7858.3	7845.3	7832.5	7811.1
57.5°	8013.8	8033.8	8145.2	8257.9	8388.0	8507.8	8612.1	8719.0	8760.5	8771.9	8724.9
60°	8836.2	8834.8	8983.3	9120.3	9305.9	9484.3	9712.8	9945.6	10212.6	10336.7	10172.5
62.5°	9672.9	9707.2	9921.3	10164.1	10546.6	10919.3	11340.5	11754.5	12177.2	12521.1	12155.7
65°	9572.9	9704.3	10022.7	10572.3	11279.1	12118.6	13026.6	13987.5	14855.5	15452.4	14782.7
67.5°	8296.6	8483.6	8807.6	9475.9	10359.7	11570.3	13095.1	14995.4	17204.1	18272.1	16948.5
70°	6013.7	6224.9	6564.8	7217.2	8092.3	9243.1	10899.2	13180.8	16104.8	17181.3	15723.6
72.5°	2992.6	3106.8	3316.6	3732.1	4394.6	5328.2	6830.3	9023.3	11610.2	12598.3	11266.3
75°	1016.5	1069.3	1105.0	1240.6	1450.6	1817.5	2564.2	3944.7	6017.8	7214.3	5932.1
77.5°	586.9	588.2	612.6	636.8	672.4	712.4	812.3	1066.5	1844.6	2619.8	1908.9
80°	379.8	378.4	398.4	417.0	441.2	461.2	466.8	494.0	569.6	675.3	603.9
82.5°	197.0	221.3	265.5	289.9	335.4	344.1	332.6	322.8	341.3	354.1	362.6
85°	108.5	94.2	141.4	182.7	202.7	205.6	205.6	194.2	201.3	197.0	214.2
87.5°	49.9	45.6	55.7	89.9	95.7	81.3	85.7	75.6	54.3	52.8	59.9
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°	3093.9	3093.9	3093.9	3093.9	3093.9	3093.9	3093.9	3093.9
2.5°	3079.6	3081.0	3081.0	3085.3	3086.8	3089.6	3092.4	3093.9
5°	3055.3	3059.6	3056.8	3061.1	3061.1	3063.8	3063.8	3065.3
7.5°	3019.7	3024.0	3024.0	3024.0	3022.4	3026.7	3026.7	3026.7
10°	2982.6	2985.3	2984.0	2981.0	2978.2	2982.6	2981.0	2979.7
12.5°	2971.1	2964.0	2958.3	2955.5	2949.7	2951.1	2946.8	2946.8
15°	2978.2	2965.3	2955.5	2951.1	2945.5	2942.6	2939.8	2941.1
17.5°	2996.7	2981.0	2968.3	2961.2	2953.9	2949.7	2943.9	2945.5
20°	3029.7	3011.1	2992.6	2978.2	2965.3	2958.3	2953.9	2952.5
22.5°	3078.2	3051.1	3024.0	3002.6	2985.3	2975.4	2971.1	2968.3
25°	3133.8	3103.9	3072.5	3048.2	3031.2	3018.2	3009.6	3009.6
27.5°	3203.9	3179.6	3151.0	3122.5	3106.8	3093.9	3088.2	3085.3
30°	3320.9	3298.0	3275.2	3248.1	3228.1	3215.3	3205.2	3196.7
32.5°	3470.8	3452.2	3433.7	3413.6	3395.1	3377.9	3362.3	3355.2
35°	3682.2	3667.8	3654.9	3632.1	3625.0	3615.0	3606.4	3599.2
37.5°	3973.4	3967.6	3967.6	3943.4	3937.7	3933.4	3924.9	3926.2
40°	4356.1	4361.7	4354.5	4346.0	4341.7	4330.3	4330.3	4340.3
42.5°	4808.5	4812.8	4828.6	4814.2	4829.9	4815.8	4807.2	4814.2
45°	5334.0	5349.6	5381.0	5366.8	5376.9	5352.6	5322.5	5324.1
47.5°	5923.7	5937.9	5950.7	5940.9	5942.2	5902.3	5862.2	5852.3
50°	6536.2	6541.8	6549.1	6534.7	6537.5	6493.3	6447.7	6449.0
52.5°	7141.4	7168.7	7197.2	7158.7	7150.1	7100.2	7035.9	7010.2
55°	7833.9	7872.4	7839.7	7772.6	7705.4	7638.4	7554.0	7539.8
57.5°	8687.7	8622.0	8519.3	8392.1	8299.4	8205.2	8119.5	8083.8
60°	9875.5	9628.7	9443.1	9254.5	9136.0	9020.4	8907.7	8890.4
62.5°	11554.5	11127.8	10757.9	10368.1	10049.8	9801.3	9602.9	9547.2
65°	13659.1	12649.7	11774.4	10957.9	10248.3	9712.8	9375.9	9227.4
67.5°	14564.3	12571.2	11070.6	9911.3	8983.3	8335.1	7971.0	7789.7
70°	12798.2	10425.3	8793.4	7632.5	6787.5	6096.3	5766.6	5572.5
72.5°	8804.7	6631.7	5244.0	4280.3	3605.0	3026.7	2798.3	2781.2
75°	3953.4	2618.5	1804.7	1390.5	1170.8	1018.0	970.9	935.1
77.5°	1106.5	818.0	729.6	682.4	636.8	584.0	564.0	568.3
80°	538.3	508.4	488.3	458.2	417.0	372.6	352.7	361.2
82.5°	356.9	352.7	365.5	344.1	284.1	241.3	202.7	185.6
85°	217.0	219.8	224.1	225.6	191.2	134.1	91.4	102.8
87.5°	85.7	98.5	107.1	111.4	104.3	64.3	51.5	52.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)