

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: P268811

Luminaire Tested: **GAN-AF-09-LED-U-5WQ-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268811
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-09-LED-U-5WQ-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39344.7 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 374
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

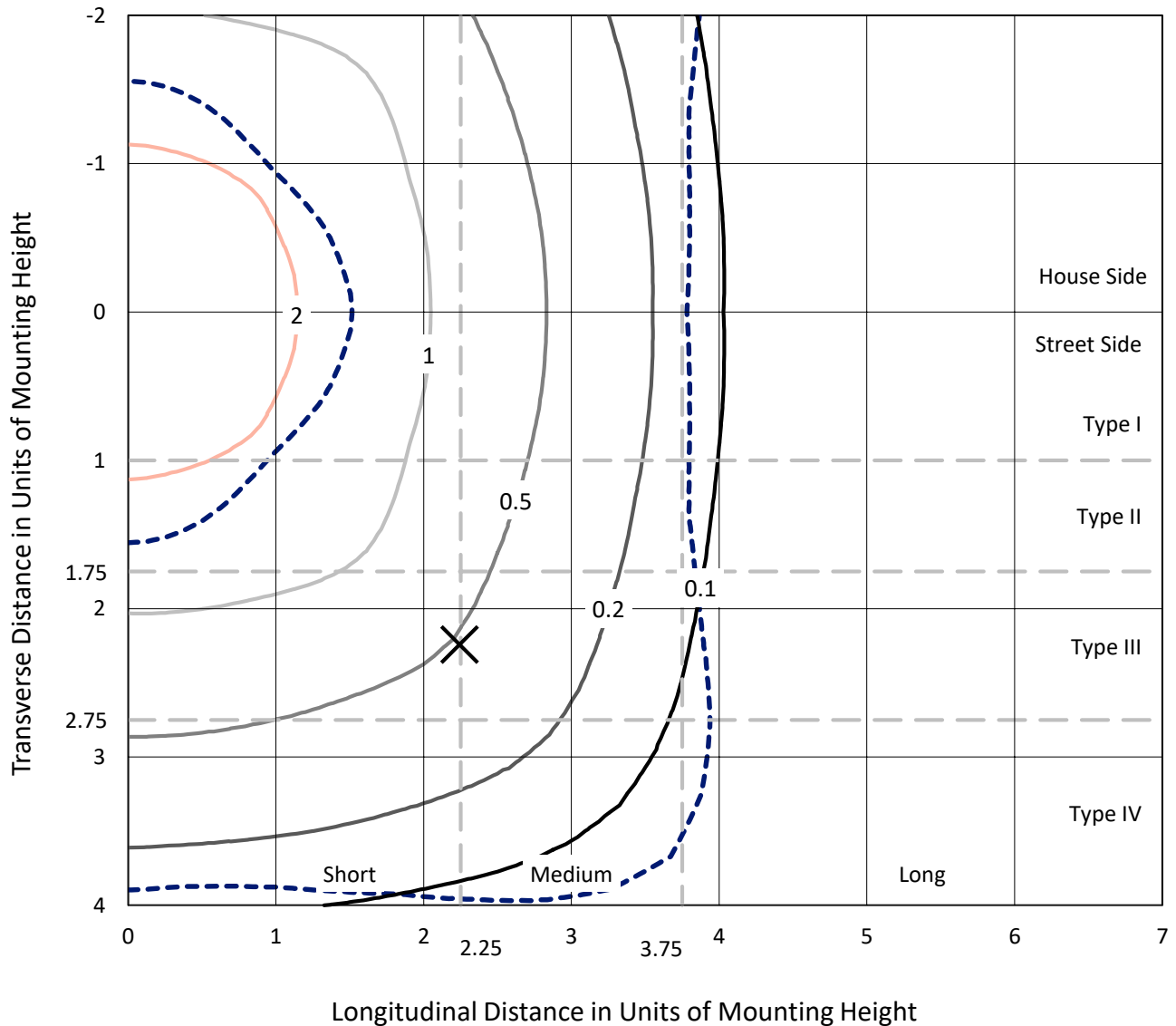


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

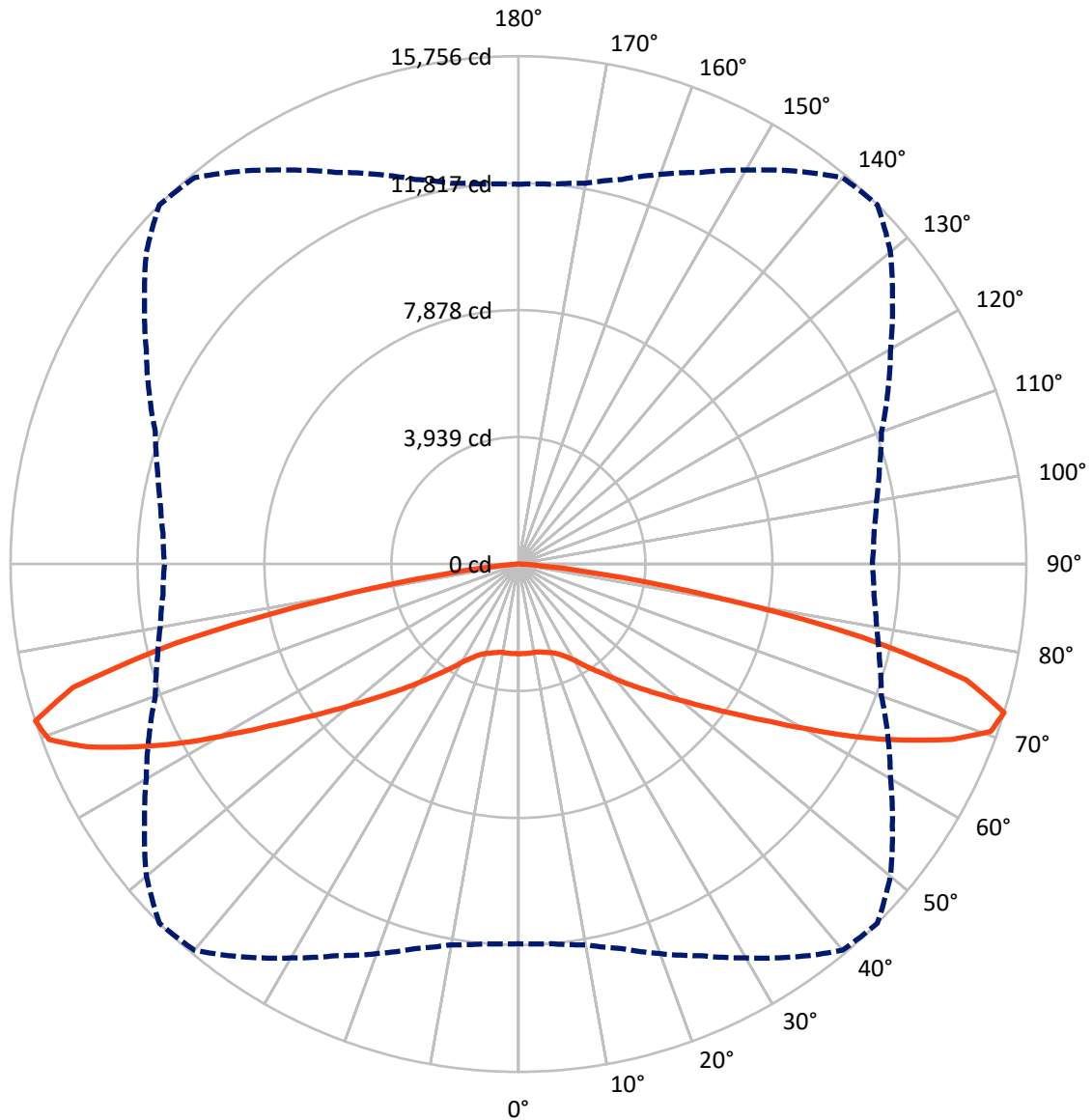


Based on 30 foot mounting height. Maximum calculated value = 3.1 fc
 Type V - Short - Semi-Cutoff

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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	19672.3	0.0	19672.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19672.3	0.0	19672.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	39344.7	0.0	39344.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.1	0.7
10°-20°	808.0	2.1
20°-30°	1476.6	3.8
30°-40°	2545.9	6.5
40°-50°	4352.2	11.1
50°-60°	7054.4	17.9
60°-70°	11702.9	29.7
70°-80°	10307.5	26.2
80°-90°	831.1	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°	39344.7	100.0
0°-180°	39344.7	100.0



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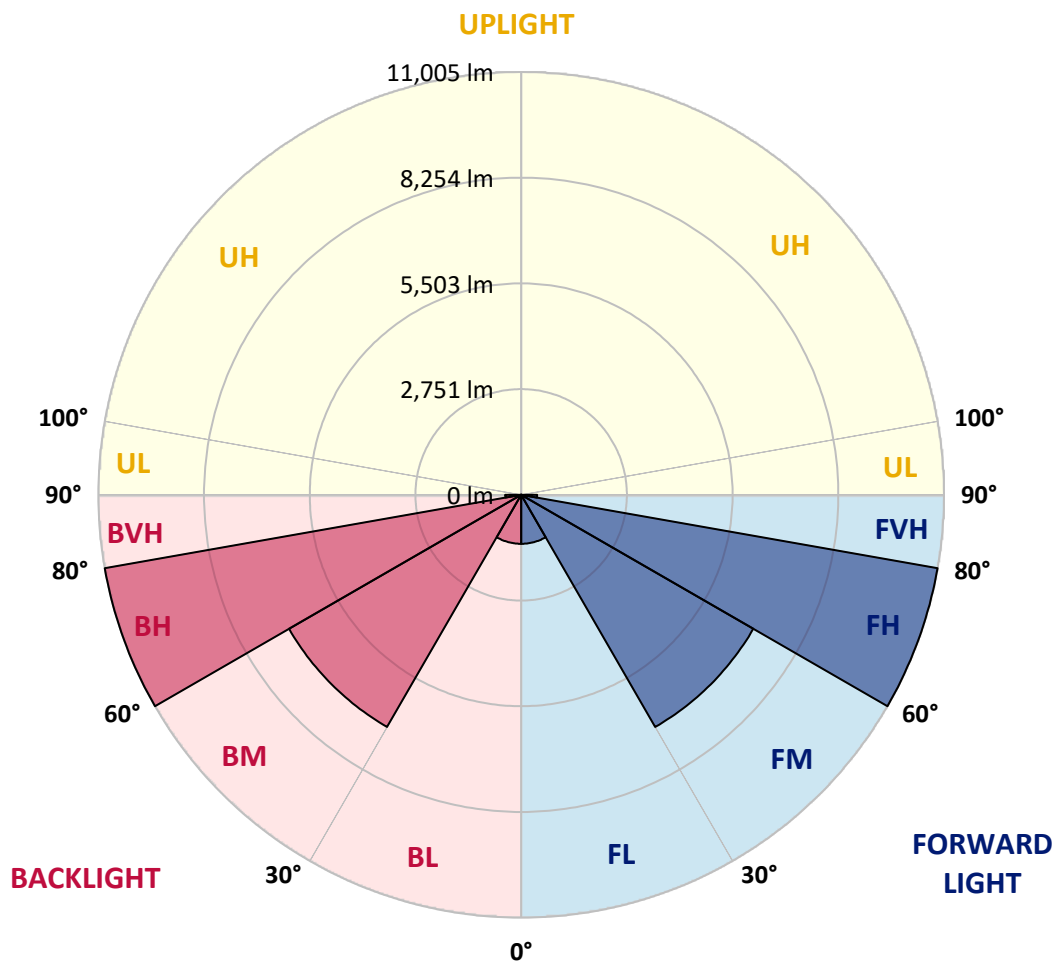
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1275.3	3.2			
FM	(30°-60°)	6976.2	17.7			
FH	(60°-80°)	11005.2	28.0			G4/12000
FVH	(80°-90°)	415.5	1.1			G3/500
BL	(0°-30°)	1275.3	3.2	B3/2500		
BM	(30°-60°)	6976.2	17.7	B4/8500		
BH	(60°-80°)	11005.2	28.0	B5		G4/12000
BVH	(80°-90°)	415.5	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°	2786.3	2786.3	2786.3	2786.3	2786.3	2786.3	2786.3	2786.3	2786.3	2786.3	2786.3
2.5°	2786.3	2788.0	2789.9	2788.0	2788.0	2786.3	2784.3	2786.3	2784.3	2780.9	2782.6
5°	2795.3	2798.8	2798.8	2795.3	2797.1	2795.3	2791.7	2793.4	2789.9	2784.3	2784.3
7.5°	2806.0	2807.8	2807.8	2804.2	2806.0	2802.4	2798.8	2797.1	2793.4	2786.3	2780.9
10°	2822.4	2824.1	2822.4	2818.7	2818.7	2813.3	2804.2	2800.6	2793.4	2782.6	2777.2
12.5°	2840.4	2842.1	2840.4	2836.8	2835.0	2825.9	2818.7	2813.3	2807.8	2798.8	2789.9
15°	2865.7	2869.2	2865.7	2858.3	2852.9	2845.8	2842.1	2843.9	2845.8	2838.6	2829.5
17.5°	2912.6	2914.3	2908.9	2892.7	2885.4	2878.3	2878.3	2881.9	2887.2	2883.6	2874.7
20°	2999.1	2993.7	2981.1	2961.3	2952.2	2939.7	2937.7	2939.7	2939.7	2937.7	2930.6
22.5°	3107.4	3103.9	3087.6	3062.3	3049.7	3042.5	3031.6	3022.5	3020.8	3015.4	3008.2
25°	3237.3	3235.5	3215.8	3194.1	3185.0	3176.0	3167.0	3154.4	3143.4	3131.0	3123.6
27.5°	3403.4	3396.1	3367.2	3356.4	3343.9	3338.5	3325.7	3311.3	3302.3	3286.1	3277.0
30°	3585.7	3585.7	3562.1	3558.5	3558.5	3545.9	3531.4	3506.3	3489.9	3473.7	3468.4
32.5°	3767.9	3769.6	3746.2	3753.5	3758.9	3767.9	3771.5	3762.6	3751.6	3749.9	3739.0
35°	4031.4	4024.1	4000.7	4006.1	4004.3	4002.5	4002.5	4022.3	4025.9	4029.5	4007.9
37.5°	4357.9	4357.9	4334.5	4334.5	4323.7	4312.9	4298.4	4311.1	4330.9	4336.3	4321.8
40°	4731.6	4744.2	4715.3	4713.4	4717.1	4682.8	4666.5	4686.4	4699.0	4720.8	4704.5
42.5°	5171.8	5162.7	5134.0	5130.3	5110.5	5099.7	5085.1	5101.5	5121.2	5135.7	5141.1
45°	5594.0	5586.9	5554.4	5554.4	5534.5	5525.6	5532.8	5559.8	5568.9	5588.6	5608.5
47.5°	6010.9	6001.8	5980.2	5989.3	5991.1	6007.3	6030.9	6056.1	6081.3	6108.4	6117.4
50°	6436.7	6438.6	6415.2	6436.7	6463.8	6508.9	6572.1	6613.6	6666.0	6700.3	6711.1
52.5°	6824.8	6832.0	6857.2	6907.7	6962.0	7050.3	7158.7	7259.7	7346.2	7404.0	7400.4
55°	7290.4	7301.2	7362.5	7449.1	7537.6	7671.0	7831.8	8010.4	8154.8	8237.7	8185.4
57.5°	7885.9	7909.2	7977.8	8095.2	8226.9	8400.1	8620.2	8889.2	9112.9	9224.9	9140.1
60°	8703.3	8717.7	8800.8	8930.7	9089.5	9304.3	9598.4	9959.2	10275.1	10423.0	10325.6
62.5°	9780.7	9807.6	9874.4	10006.2	10168.6	10412.3	10771.2	11222.4	11615.9	11821.5	11601.4
65°	11067.3	11153.9	11209.8	11343.3	11494.9	11753.0	12128.3	12611.9	13034.1	13169.5	12915.1
67.5°	12341.3	12417.0	12514.5	12667.9	12821.2	13111.8	13460.1	13929.3	14393.1	14515.7	14120.5
70°	12898.9	12942.2	13093.8	13303.1	13597.3	13940.1	14342.5	14869.5	15443.2	15544.4	15042.7
72.5°	11781.9	11825.2	11994.8	12350.3	12862.8	13407.7	14109.7	14883.8	15641.7	15755.5	15064.2
75°	8910.8	8840.5	9091.2	9562.3	10253.4	11013.1	11994.8	13104.6	14200.0	14342.5	13517.9
77.5°	4605.3	4596.2	4785.6	5370.2	6195.0	7059.4	8140.4	9394.5	10466.3	10899.5	10228.1
80°	1297.4	1312.0	1402.2	1692.6	2174.4	2798.8	3643.3	4818.1	5695.2	6142.7	5767.3
82.5°	508.9	548.5	582.9	637.0	700.1	792.1	1057.5	1573.7	2111.2	2522.7	2066.2
85°	182.3	194.9	276.0	326.7	332.1	350.1	398.8	465.6	561.3	669.4	550.4
87.5°	68.6	75.7	88.5	146.2	144.4	131.7	160.5	167.9	126.3	115.5	142.6
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°	2786.3	2786.3	2786.3	2786.3	2786.3	2786.3	2786.3	2786.3
2.5°	2778.9	2780.9	2780.9	2782.6	2784.3	2784.3	2788.0	2788.0
5°	2780.9	2780.9	2777.2	2778.9	2777.2	2777.2	2778.9	2778.9
7.5°	2777.2	2775.5	2771.8	2770.0	2766.4	2766.4	2766.4	2766.4
10°	2771.8	2770.0	2766.4	2764.5	2762.7	2762.7	2762.7	2762.7
12.5°	2786.3	2780.9	2777.2	2775.5	2775.5	2775.5	2775.5	2775.5
15°	2824.1	2811.4	2802.4	2802.4	2804.2	2807.8	2807.8	2811.4
17.5°	2871.1	2856.6	2847.5	2840.4	2843.9	2849.3	2852.9	2856.6
20°	2926.9	2919.8	2907.2	2899.9	2899.9	2907.2	2910.7	2912.6
22.5°	3004.7	2999.1	2993.7	2984.7	2984.7	2988.3	2995.6	2995.6
25°	3120.1	3116.4	3112.8	3105.6	3103.9	3103.9	3107.4	3111.0
27.5°	3264.4	3266.1	3262.6	3260.8	3255.4	3253.7	3259.1	3257.3
30°	3457.4	3466.5	3475.5	3468.4	3459.4	3454.0	3448.5	3441.2
32.5°	3719.2	3708.4	3701.0	3688.5	3672.2	3657.8	3646.9	3634.4
35°	3966.3	3948.3	3941.1	3952.0	3950.1	3941.1	3928.5	3917.7
37.5°	4269.6	4266.0	4269.6	4289.3	4285.9	4294.7	4269.6	4267.8
40°	4652.1	4655.7	4681.0	4704.5	4717.1	4729.7	4715.3	4700.8
42.5°	5096.1	5094.2	5103.2	5135.7	5157.3	5171.8	5141.1	5137.5
45°	5565.2	5552.6	5559.8	5586.9	5608.5	5624.7	5590.5	5590.5
47.5°	6081.3	6059.6	6036.3	6066.9	6079.5	6090.2	6063.3	6054.2
50°	6657.0	6611.9	6561.3	6573.9	6573.9	6570.4	6536.1	6534.2
52.5°	7317.5	7234.4	7142.3	7108.1	7088.3	7066.5	7007.0	6978.2
55°	8077.1	7952.6	7808.2	7719.9	7673.0	7613.3	7514.1	7487.1
57.5°	8964.9	8770.1	8521.1	8412.7	8308.2	8210.7	8100.6	8070.0
60°	10017.0	9730.1	9399.9	9199.5	9085.8	8992.0	8878.4	8872.9
62.5°	11189.9	10737.0	10363.4	10183.0	10100.1	10017.0	9908.8	9923.1
65°	12382.7	11910.0	11559.8	11413.8	11336.2	11267.6	11159.3	11175.5
67.5°	13559.3	13124.4	12740.0	12590.3	12503.7	12417.0	12319.6	12335.9
70°	14403.9	13864.4	13431.2	13099.2	12891.7	12657.1	12505.5	12467.5
72.5°	14162.0	13330.2	12642.7	11984.0	11597.7	11283.8	11070.8	10978.8
75°	12256.5	11119.6	10235.4	9427.0	8972.2	8602.3	8333.3	8165.6
77.5°	9102.0	7824.4	6779.7	5848.5	5112.3	4617.8	4269.6	4044.0
80°	4982.3	3789.5	2770.0	1947.0	1431.0	1189.1	1050.3	983.5
82.5°	1551.9	1001.5	738.0	637.0	592.0	566.7	525.1	458.3
85°	494.4	433.2	402.4	384.4	366.2	319.3	220.2	200.3
87.5°	191.2	196.6	194.9	184.1	187.7	135.4	108.2	95.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)