

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: P268652

Luminaire Tested: **GAN-AF-07-LED-U-5WQ-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268652
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-07-LED-U-5WQ-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42265.5 lumens
Efficiency: N/A
Efficacy: 94.3 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): 448
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

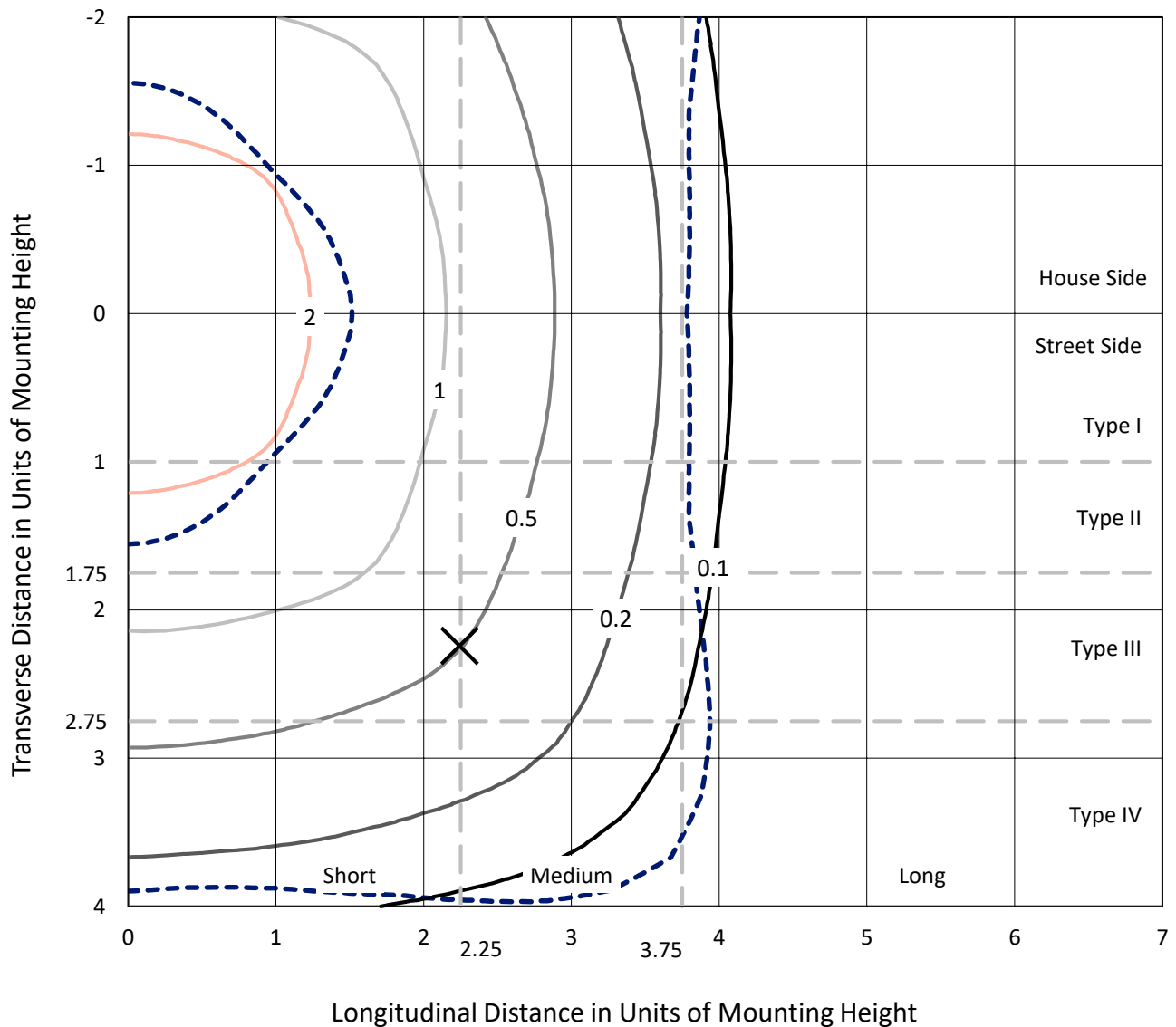


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

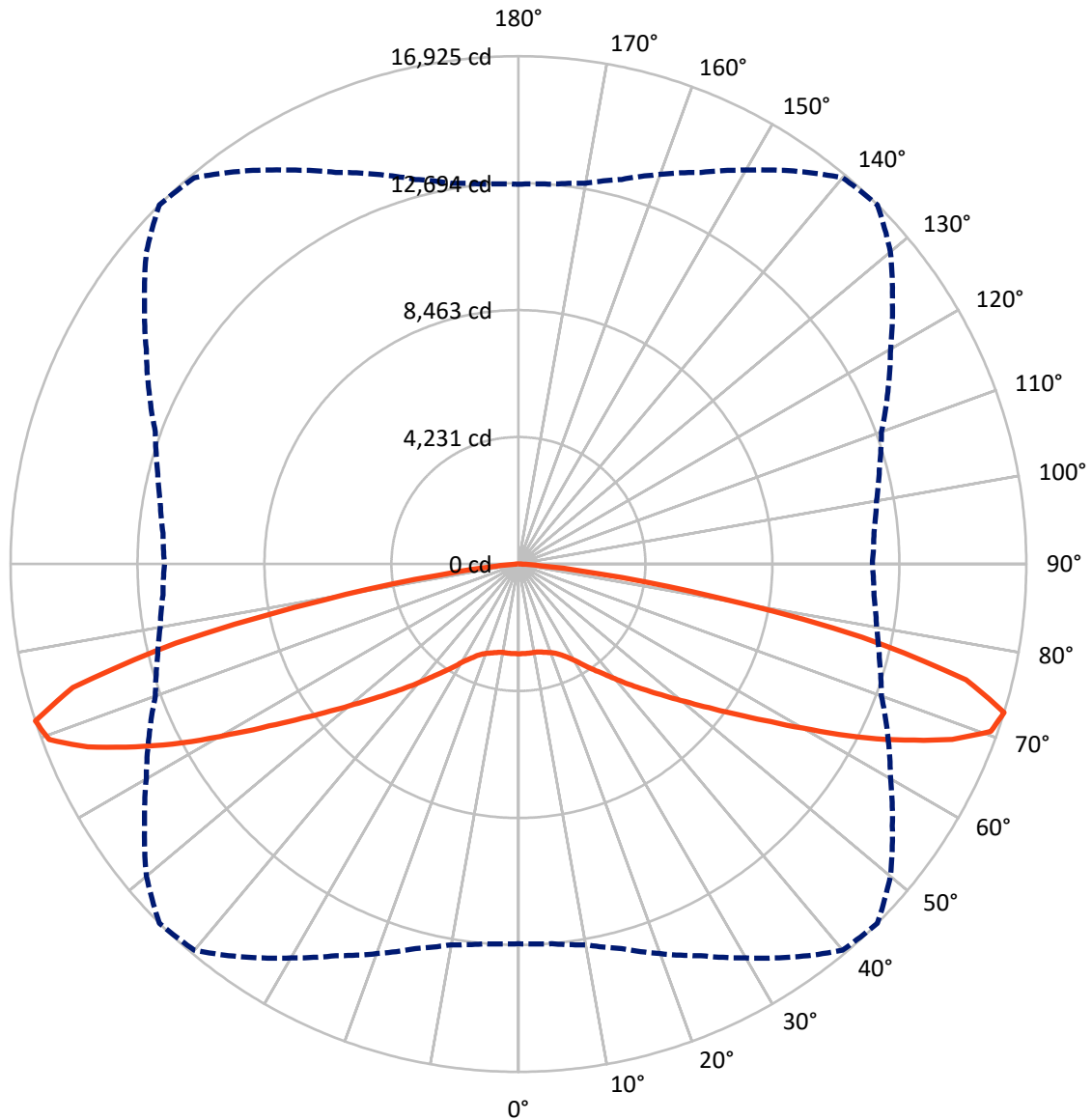


Based on 30 foot mounting height. Maximum calculated value = 3.3 fc
 Type V - Short - Semi-Cutoff

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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	21132.8	0.0	21132.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21132.8	0.0	21132.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	42265.5	0.0	42265.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.8	0.7
10°-20°	868.0	2.1
20°-30°	1586.2	3.8
30°-40°	2734.9	6.5
40°-50°	4675.3	11.1
50°-60°	7578.1	17.9
60°-70°	12571.7	29.7
70°-80°	11072.7	26.2
80°-90°	892.8	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°	42265.5	100.0
0°-180°	42265.5	100.0



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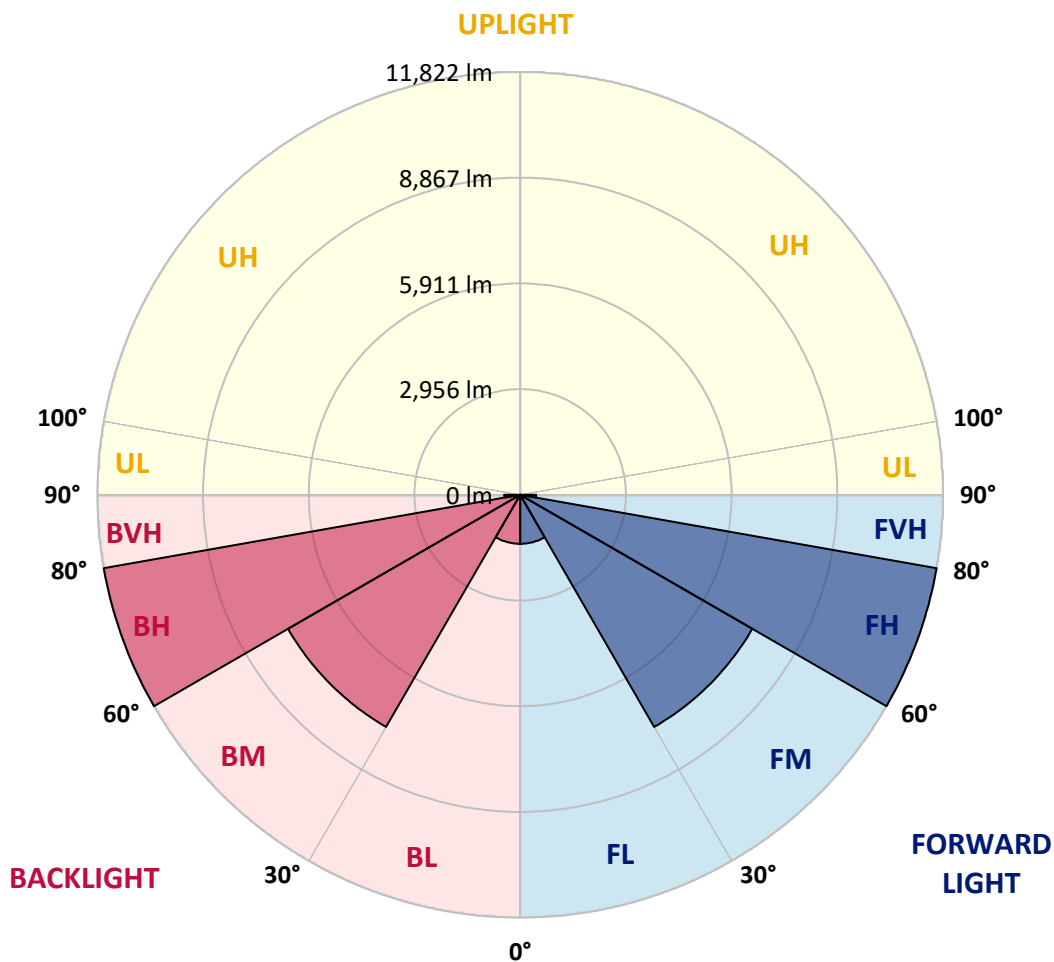
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1370.0	3.2			
FM	(30°-60°)	7494.1	17.7			
FH	(60°-80°)	11822.2	28.0			G4/12000
FVH	(80°-90°)	446.4	1.1			G3/500
BL	(0°-30°)	1370.0	3.2	B3/2500		
BM	(30°-60°)	7494.1	17.7	B4/8500		
BH	(60°-80°)	11822.2	28.0	B5		G4/12000
BVH	(80°-90°)	446.4	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°	2993.1	2993.1	2993.1	2993.1	2993.1	2993.1	2993.1	2993.1	2993.1	2993.1	2993.1
2.5°	2993.1	2994.9	2996.9	2994.9	2994.9	2993.1	2991.1	2993.1	2991.1	2987.3	2989.2
5°	3002.8	3006.6	3006.6	3002.8	3004.7	3002.8	2998.9	3000.8	2996.9	2991.1	2991.1
7.5°	3014.4	3016.2	3016.2	3012.5	3014.4	3010.5	3006.6	3004.7	3000.8	2993.1	2987.3
10°	3031.8	3033.8	3031.8	3027.9	3027.9	3022.2	3012.5	3008.6	3000.8	2989.2	2983.5
12.5°	3051.3	3053.2	3051.3	3047.3	3045.4	3035.7	3027.9	3022.2	3016.2	3006.6	2996.9
15°	3078.3	3082.3	3078.3	3070.5	3064.7	3057.0	3053.2	3055.0	3057.0	3049.2	3039.5
17.5°	3128.7	3130.8	3124.8	3107.4	3099.7	3092.0	3092.0	3095.7	3101.6	3097.7	3088.1
20°	3221.9	3216.0	3202.4	3181.1	3171.3	3157.8	3155.8	3157.8	3157.8	3155.8	3148.1
22.5°	3338.1	3334.1	3316.8	3289.7	3276.1	3268.4	3256.6	3247.1	3245.0	3239.3	3231.6
25°	3477.7	3475.7	3454.4	3431.2	3421.5	3411.8	3402.2	3388.4	3376.9	3363.3	3355.6
27.5°	3656.0	3648.2	3617.2	3605.6	3592.1	3586.3	3572.6	3557.2	3547.4	3530.0	3520.4
30°	3851.8	3851.8	3826.6	3822.7	3822.7	3809.2	3793.6	3766.6	3749.0	3731.6	3725.8
32.5°	4047.7	4049.6	4024.3	4032.1	4037.9	4047.7	4051.4	4041.7	4030.2	4028.2	4016.6
35°	4330.5	4322.9	4297.8	4303.5	4301.5	4299.6	4299.6	4320.9	4324.8	4328.8	4305.4
37.5°	4681.4	4681.4	4656.4	4656.4	4644.6	4633.1	4617.5	4631.1	4652.4	4658.3	4642.7
40°	5082.8	5096.4	5065.4	5063.3	5067.2	5030.4	5013.0	5034.3	5047.8	5071.1	5053.7
42.5°	5555.7	5546.0	5515.1	5511.2	5489.8	5478.3	5462.8	5480.2	5501.5	5517.0	5522.8
45°	6009.4	6001.7	5966.7	5966.7	5945.4	5935.7	5943.5	5972.6	5982.3	6003.6	6024.9
47.5°	6457.1	6447.5	6424.1	6433.9	6435.8	6453.3	6478.4	6505.6	6532.7	6561.8	6571.6
50°	6914.7	6916.6	6891.3	6914.7	6943.8	6992.1	7060.0	7104.6	7160.8	7197.7	7209.3
52.5°	7331.4	7339.2	7366.3	7420.5	7478.7	7573.8	7690.1	7798.6	7891.7	7953.8	7949.8
55°	7831.6	7843.2	7909.0	8002.1	8097.1	8240.6	8413.2	8605.0	8760.1	8849.4	8793.1
57.5°	8471.2	8496.4	8570.1	8696.1	8837.6	9023.7	9260.3	9549.2	9789.5	9909.7	9818.6
60°	9349.4	9364.9	9454.1	9593.7	9764.2	9994.9	10310.9	10698.6	11037.8	11196.8	11092.1
62.5°	10506.8	10535.9	10607.5	10748.9	10923.5	11185.2	11571.0	12055.6	12478.1	12699.2	12462.6
65°	11888.9	11982.0	12042.0	12185.5	12348.3	12625.5	13028.7	13548.2	14001.8	14147.2	13874.0
67.5°	13257.5	13338.9	13443.6	13608.3	13773.2	14085.2	14459.3	14963.3	15461.5	15593.4	15168.8
70°	13856.4	13903.0	14065.8	14290.6	14606.7	14974.9	15407.3	15973.3	16589.8	16698.4	16159.4
72.5°	12656.5	12703.0	12885.3	13267.2	13817.6	14403.2	15157.2	15988.8	16802.9	16925.1	16182.6
75°	9572.3	9496.7	9766.3	10272.2	11014.6	11830.7	12885.3	14077.5	15254.1	15407.3	14521.5
77.5°	4947.1	4937.4	5140.9	5768.9	6655.0	7583.4	8744.6	10091.9	11243.4	11708.6	10987.4
80°	1393.8	1409.4	1506.2	1818.3	2336.0	3006.6	3913.8	5175.9	6117.9	6598.7	6195.5
82.5°	546.7	589.3	626.2	684.2	752.2	851.1	1135.9	1690.4	2268.0	2710.0	2219.6
85°	195.8	209.3	296.6	350.9	356.6	376.1	428.4	500.1	602.9	719.3	591.3
87.5°	73.8	81.4	95.0	157.1	155.0	141.6	172.6	180.3	135.7	124.1	153.2
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°	2993.1	2993.1	2993.1	2993.1	2993.1	2993.1	2993.1	2993.1
2.5°	2985.2	2987.3	2987.3	2989.2	2991.1	2991.1	2994.9	2994.9
5°	2987.3	2987.3	2983.5	2985.2	2983.5	2983.5	2985.2	2985.2
7.5°	2983.5	2981.5	2977.5	2975.6	2971.8	2971.8	2971.8	2971.8
10°	2977.5	2975.6	2971.8	2969.7	2967.9	2967.9	2967.9	2967.9
12.5°	2993.1	2987.3	2983.5	2981.5	2981.5	2981.5	2981.5	2981.5
15°	3033.8	3020.2	3010.5	3010.5	3012.5	3016.2	3016.2	3020.2
17.5°	3084.2	3068.7	3059.0	3051.3	3055.0	3061.0	3064.7	3068.7
20°	3144.2	3136.5	3123.0	3115.2	3115.2	3123.0	3126.8	3128.7
22.5°	3227.6	3221.9	3216.0	3206.3	3206.3	3210.2	3217.9	3217.9
25°	3351.7	3347.9	3343.9	3336.1	3334.1	3334.1	3338.1	3342.0
27.5°	3506.8	3508.7	3504.8	3502.9	3497.1	3495.1	3501.0	3499.0
30°	3714.2	3723.8	3733.5	3725.8	3716.1	3710.3	3704.5	3696.7
32.5°	3995.2	3983.7	3975.9	3962.3	3944.8	3929.4	3917.7	3904.2
35°	4260.8	4241.4	4233.7	4245.3	4243.5	4233.7	4220.1	4208.5
37.5°	4586.4	4582.7	4586.4	4607.9	4604.0	4613.6	4586.4	4584.6
40°	4997.5	5001.4	5028.5	5053.7	5067.2	5080.9	5065.4	5049.8
42.5°	5474.4	5472.5	5482.0	5517.0	5540.2	5555.7	5522.8	5518.9
45°	5978.4	5964.7	5972.6	6001.7	6024.9	6042.3	6005.4	6005.4
47.5°	6532.7	6509.5	6484.3	6517.3	6530.9	6542.4	6513.4	6503.6
50°	7151.1	7102.7	7048.5	7061.9	7061.9	7058.2	7021.3	7019.4
52.5°	7860.7	7771.4	7672.7	7635.9	7614.5	7591.1	7527.3	7496.1
55°	8676.8	8543.1	8388.0	8293.0	8242.6	8178.6	8071.9	8042.9
57.5°	9630.5	9421.2	9153.5	9037.3	8924.9	8820.2	8702.1	8669.1
60°	10760.6	10452.5	10097.7	9882.6	9760.4	9659.6	9537.5	9531.6
62.5°	12020.7	11534.1	11132.9	10939.0	10849.8	10760.6	10644.3	10659.8
65°	13302.0	12794.2	12418.1	12261.1	12177.8	12104.0	11987.7	12005.2
67.5°	14565.9	14098.8	13685.9	13525.1	13431.9	13338.9	13234.2	13251.6
70°	15473.1	14893.5	14428.2	14071.6	13848.7	13596.7	13433.9	13393.2
72.5°	15213.4	14319.7	13581.1	12873.6	12458.9	12121.5	11892.8	11793.8
75°	13166.4	11945.1	10995.3	10126.8	9638.3	9240.9	8952.0	8771.8
77.5°	9777.8	8405.4	7283.0	6282.7	5491.8	4960.6	4586.4	4344.3
80°	5352.2	4070.8	2975.6	2091.7	1537.2	1277.5	1128.2	1056.4
82.5°	1667.2	1075.9	792.8	684.2	635.8	608.7	564.0	492.5
85°	531.2	465.2	432.3	413.0	393.5	343.2	236.6	215.1
87.5°	205.5	211.3	209.3	197.7	201.6	145.3	116.3	102.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)