

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: P192635

Luminaire Tested: **GAN-AF-07-LED-U-5WQ-7030-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192635
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-7030-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42890.8 lumens
Efficiency: N/A
Efficacy: 109.7 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): 391
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

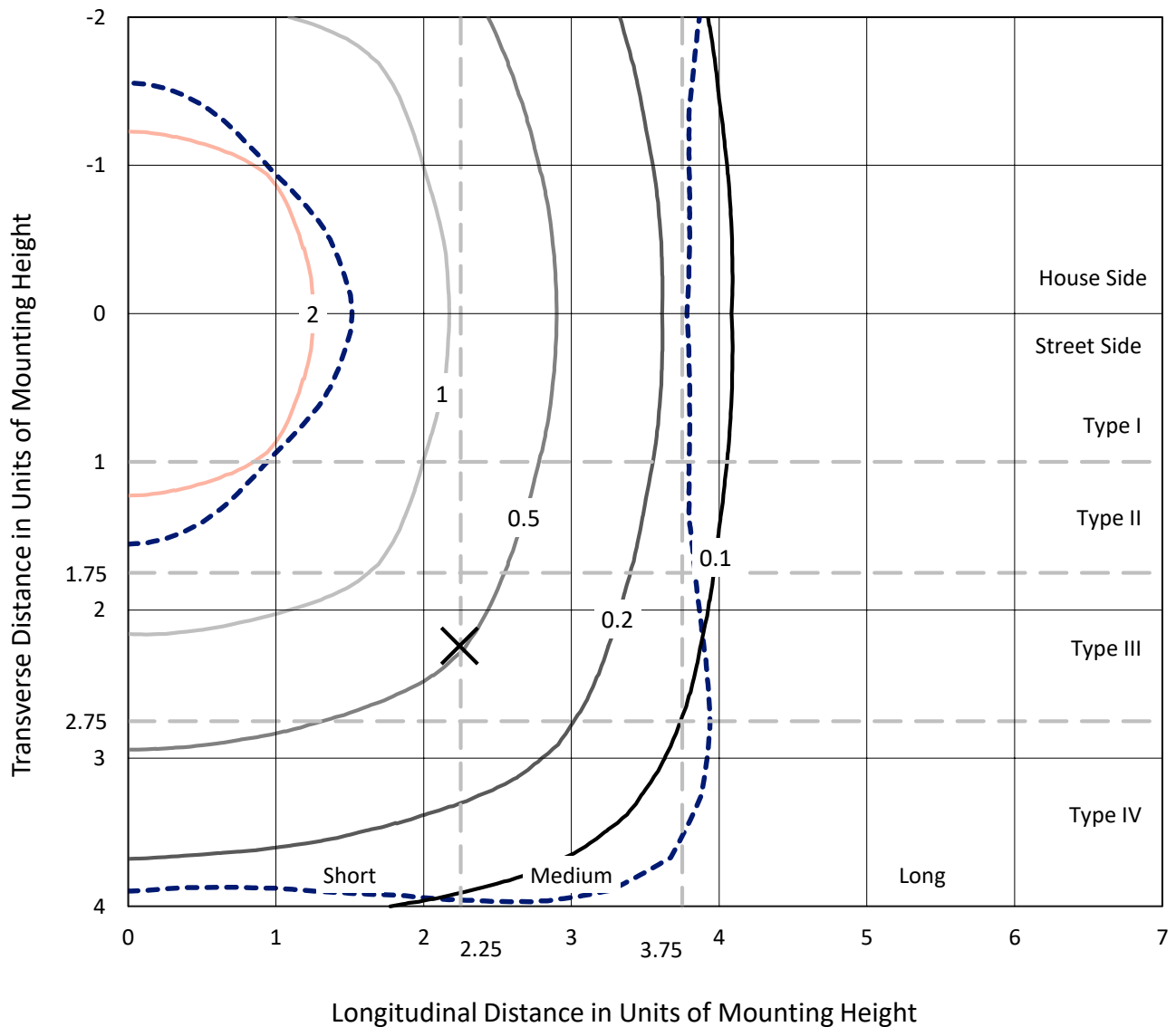


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

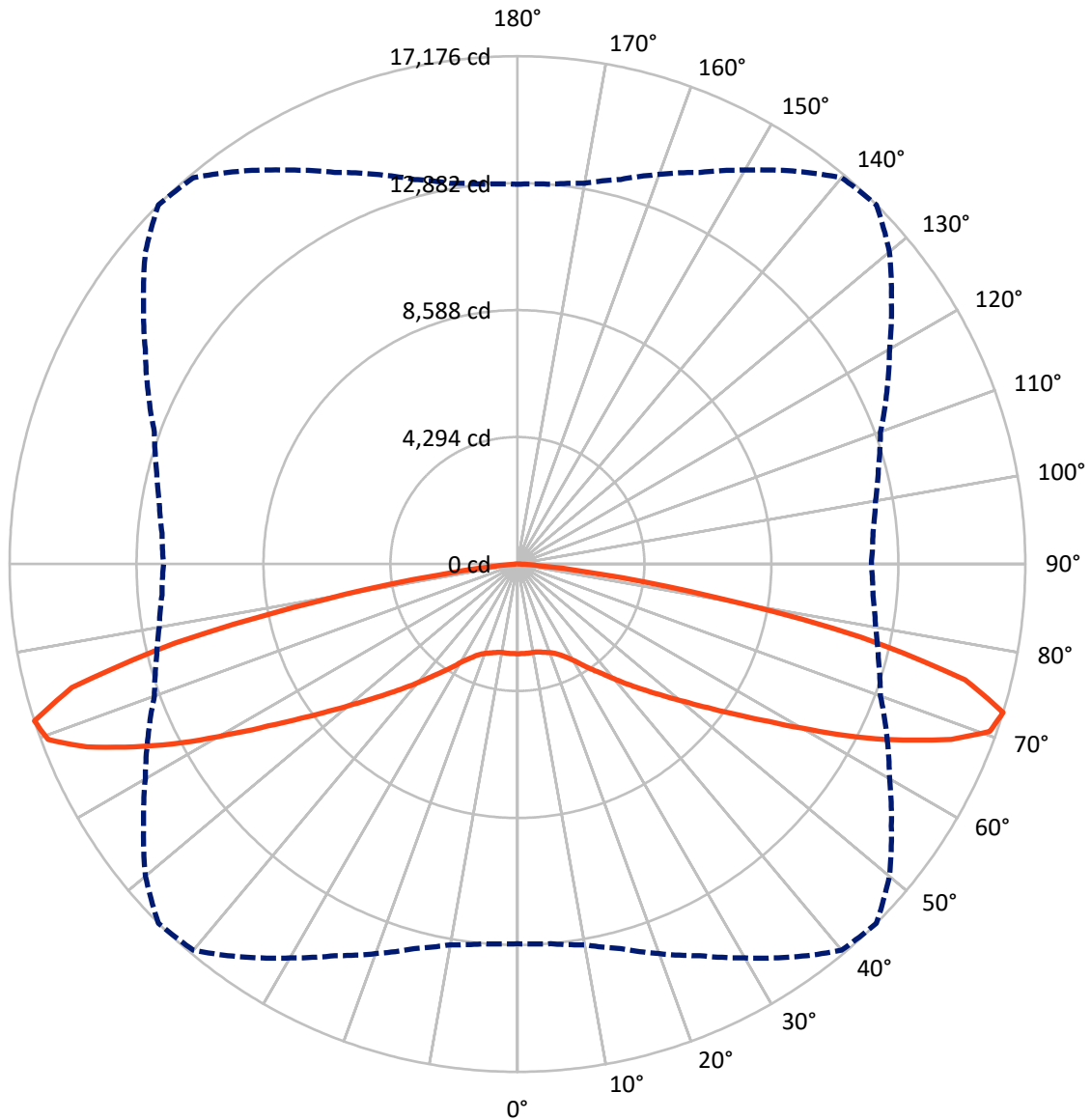


Based on 30 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - Semi-Cutoff

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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	21445.4	0.0	21445.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21445.4	0.0	21445.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	42890.8	0.0	42890.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.0	0.7
10°-20°	880.9	2.1
20°-30°	1609.7	3.8
30°-40°	2775.4	6.5
40°-50°	4744.5	11.1
50°-60°	7690.2	17.9
60°-70°	12757.7	29.7
70°-80°	11236.6	26.2
80°-90°	906.0	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°	42890.8	100.0
0°-180°	42890.8	100.0



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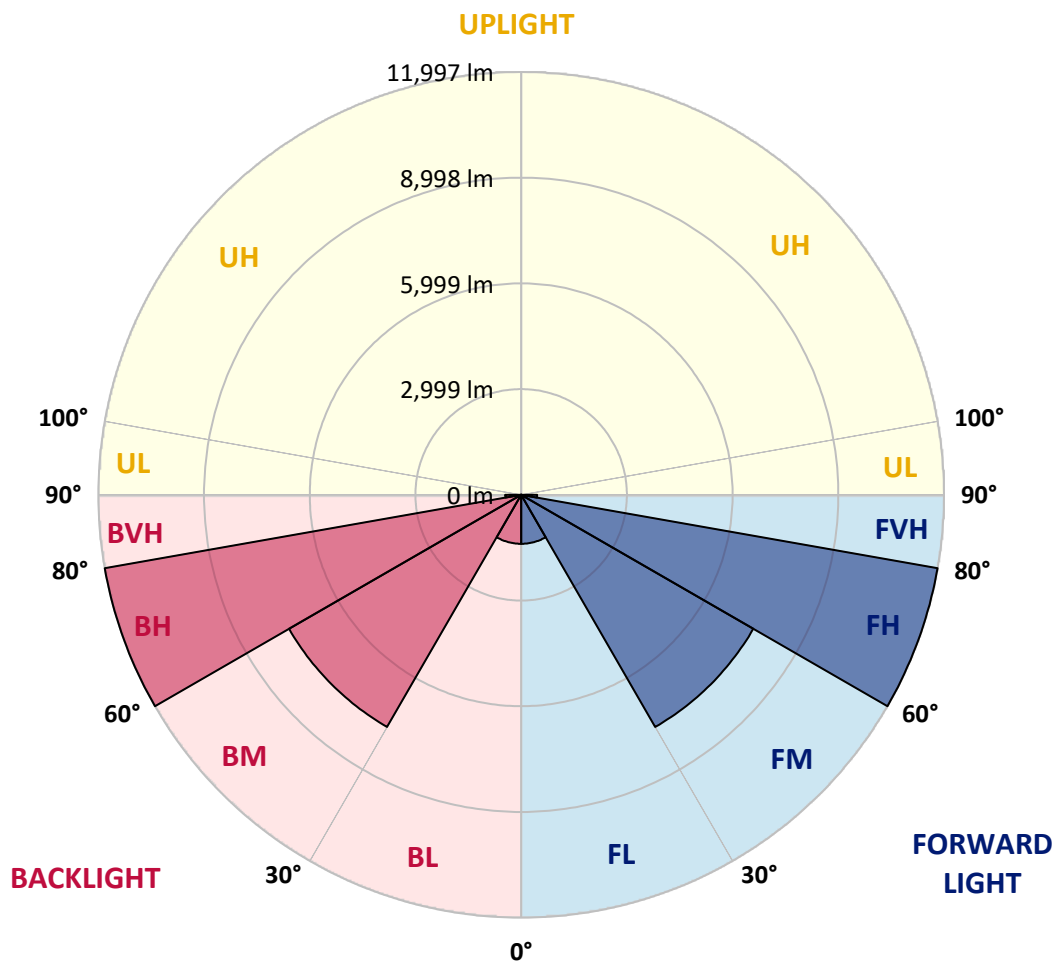
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1390.3	3.2			
FM	(30°-60°)	7605.0	17.7			
FH	(60°-80°)	11997.1	28.0			G4/12000
FVH	(80°-90°)	453.0	1.1			G3/500
BL	(0°-30°)	1390.3	3.2	B3/2500		
BM	(30°-60°)	7605.0	17.7	B4/8500		
BH	(60°-80°)	11997.1	28.0	B5		G4/12000
BVH	(80°-90°)	453.0	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°	3037.3	3037.3	3037.3	3037.3	3037.3	3037.3	3037.3	3037.3	3037.3	3037.3	3037.3
2.5°	3037.3	3039.3	3041.2	3039.3	3039.3	3037.3	3035.3	3037.3	3035.3	3031.4	3033.4
5°	3047.1	3051.1	3051.1	3047.1	3049.1	3047.1	3043.2	3045.2	3041.2	3035.3	3035.3
7.5°	3058.9	3060.9	3060.9	3057.0	3058.9	3055.0	3051.1	3049.1	3045.2	3037.3	3031.4
10°	3076.6	3078.6	3076.6	3072.7	3072.7	3066.8	3057.0	3053.0	3045.2	3033.4	3027.5
12.5°	3096.3	3098.3	3096.3	3092.4	3090.4	3080.6	3072.7	3066.8	3060.9	3051.1	3041.2
15°	3123.9	3127.9	3123.9	3116.1	3110.2	3102.3	3098.3	3100.2	3102.3	3094.3	3084.5
17.5°	3175.1	3177.0	3171.1	3153.4	3145.6	3137.7	3137.7	3141.6	3147.5	3143.6	3133.8
20°	3269.5	3263.6	3249.8	3228.2	3218.3	3204.6	3202.6	3204.6	3204.6	3202.6	3194.7
22.5°	3387.5	3383.5	3365.8	3338.3	3324.5	3316.7	3304.9	3295.0	3293.1	3287.2	3279.3
25°	3529.2	3527.2	3505.5	3481.9	3472.0	3462.2	3452.4	3438.6	3426.8	3413.0	3405.2
27.5°	3710.1	3702.2	3670.8	3659.0	3645.2	3639.3	3625.6	3609.8	3600.0	3582.3	3572.4
30°	3908.7	3908.7	3883.2	3879.2	3879.2	3865.5	3849.7	3822.2	3804.5	3786.8	3780.9
32.5°	4107.5	4109.5	4083.9	4091.8	4097.7	4107.5	4111.4	4101.6	4089.8	4087.8	4076.0
35°	4394.7	4386.9	4361.3	4367.2	4365.2	4363.3	4363.3	4384.9	4388.8	4392.8	4369.2
37.5°	4750.7	4750.7	4725.1	4725.1	4713.3	4701.5	4685.8	4699.6	4721.2	4727.1	4711.4
40°	5157.9	5171.8	5140.2	5138.3	5142.2	5104.8	5087.1	5108.8	5122.5	5146.1	5128.4
42.5°	5638.0	5628.2	5596.7	5592.8	5571.0	5559.2	5543.5	5561.2	5582.9	5598.7	5604.6
45°	6098.3	6090.4	6055.0	6055.0	6033.4	6023.6	6031.4	6060.9	6070.8	6092.4	6114.0
47.5°	6552.8	6542.9	6519.3	6529.2	6531.1	6548.8	6574.3	6601.9	6629.5	6659.0	6668.7
50°	7016.9	7019.0	6993.3	7016.9	7046.4	7095.7	7164.4	7209.7	7266.9	7304.2	7316.0
52.5°	7439.9	7447.7	7475.3	7530.3	7589.3	7685.9	7803.9	7913.9	8008.3	8071.4	8067.4
55°	7947.4	7959.2	8026.0	8120.5	8217.0	8362.4	8537.6	8732.3	8889.8	8980.2	8923.2
57.5°	8596.6	8622.2	8696.9	8824.8	8968.4	9157.2	9397.3	9690.3	9934.3	10056.2	9963.8
60°	9487.7	9503.5	9593.9	9735.6	9908.7	10142.9	10463.4	10856.9	11201.1	11362.4	11256.2
62.5°	10662.2	10691.7	10764.4	10908.0	11085.1	11350.6	11742.1	12234.0	12662.8	12887.0	12647.1
65°	12064.7	12159.1	12220.2	12365.8	12531.0	12812.3	13221.5	13748.6	14208.9	14356.5	14079.1
67.5°	13453.6	13536.2	13642.4	13809.6	13976.9	14293.7	14673.2	15184.8	15690.2	15824.0	15393.2
70°	14061.4	14108.6	14273.9	14502.1	14822.7	15196.6	15635.2	16209.6	16835.2	16945.3	16398.5
72.5°	12843.8	12891.0	13075.9	13463.5	14022.2	14616.1	15381.4	16225.3	17051.5	17175.5	16422.1
75°	9713.9	9637.2	9910.7	10424.1	11177.6	12005.7	13075.9	14285.7	15479.8	15635.2	14736.3
77.5°	5020.3	5010.4	5217.0	5854.3	6753.4	7695.6	8873.9	10241.2	11409.7	11881.8	11150.0
80°	1414.4	1430.1	1528.5	1845.2	2370.5	3051.1	3971.8	5252.4	6208.4	6696.3	6287.1
82.5°	554.7	597.9	635.5	694.5	763.2	863.5	1152.8	1715.4	2301.6	2750.2	2252.4
85°	198.7	212.5	301.0	356.0	361.9	381.7	434.8	507.5	611.8	729.9	600.0
87.5°	74.8	82.6	96.3	159.3	157.4	143.5	175.1	182.9	137.6	125.8	155.3
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°	3037.3	3037.3	3037.3	3037.3	3037.3	3037.3	3037.3	3037.3
2.5°	3029.4	3031.4	3031.4	3033.4	3035.3	3035.3	3039.3	3039.3
5°	3031.4	3031.4	3027.5	3029.4	3027.5	3027.5	3029.4	3029.4
7.5°	3027.5	3025.5	3021.6	3019.6	3015.7	3015.7	3015.7	3015.7
10°	3021.6	3019.6	3015.7	3013.7	3011.7	3011.7	3011.7	3011.7
12.5°	3037.3	3031.4	3027.5	3025.5	3025.5	3025.5	3025.5	3025.5
15°	3078.6	3064.8	3055.0	3055.0	3057.0	3060.9	3060.9	3064.8
17.5°	3129.8	3114.1	3104.3	3096.3	3100.2	3106.2	3110.2	3114.1
20°	3190.8	3182.9	3169.2	3161.3	3161.3	3169.2	3173.1	3175.1
22.5°	3275.4	3269.5	3263.6	3253.7	3253.7	3257.7	3265.5	3265.5
25°	3401.2	3397.3	3393.4	3385.5	3383.5	3383.5	3387.5	3391.4
27.5°	3558.7	3560.6	3556.7	3554.7	3548.8	3546.9	3552.8	3550.8
30°	3769.1	3779.0	3788.8	3780.9	3771.1	3765.2	3759.3	3751.4
32.5°	4054.4	4042.6	4034.7	4021.0	4003.3	3987.5	3975.7	3962.0
35°	4323.8	4304.2	4296.3	4308.1	4306.1	4296.3	4282.5	4270.7
37.5°	4654.3	4650.4	4654.3	4676.0	4672.0	4681.9	4654.3	4652.4
40°	5071.4	5075.3	5102.9	5128.4	5142.2	5156.0	5140.2	5124.5
42.5°	5555.3	5553.3	5563.2	5598.7	5622.3	5638.0	5604.6	5600.6
45°	6066.8	6053.1	6060.9	6090.4	6114.0	6131.7	6094.4	6094.4
47.5°	6629.5	6605.9	6580.2	6613.7	6627.4	6639.2	6609.7	6600.0
50°	7257.0	7207.8	7152.6	7166.5	7166.5	7162.5	7125.2	7123.1
52.5°	7976.9	7886.5	7786.2	7748.7	7727.2	7703.6	7638.6	7607.0
55°	8805.1	8669.4	8512.1	8415.5	8364.5	8299.6	8191.3	8161.8
57.5°	9773.0	9560.5	9289.0	9171.0	9056.9	8950.7	8830.7	8797.2
60°	10919.8	10607.1	10247.1	10028.7	9904.8	9802.5	9678.5	9672.6
62.5°	12198.6	11704.7	11297.5	11100.8	11010.4	10919.8	10801.8	10817.5
65°	13498.9	12983.4	12601.8	12442.5	12357.9	12283.2	12165.0	12182.7
67.5°	14781.4	14307.4	13888.4	13725.0	13630.6	13536.2	13429.9	13447.7
70°	15702.0	15114.0	14641.8	14279.8	14053.6	13797.8	13632.6	13591.3
72.5°	15438.5	14531.6	13782.1	13064.1	12643.2	12300.9	12068.7	11968.4
75°	13361.1	12121.8	11157.9	10276.6	9780.9	9377.6	9084.5	8901.6
77.5°	9922.5	8529.8	7390.8	6375.6	5573.0	5034.0	4654.3	4408.5
80°	5431.4	4131.1	3019.6	2122.6	1560.0	1296.4	1144.9	1072.2
82.5°	1691.8	1091.8	804.5	694.5	645.2	617.7	572.4	499.7
85°	538.9	472.1	438.6	419.0	399.4	348.2	240.1	218.4
87.5°	208.5	214.4	212.5	200.6	204.6	147.5	118.0	104.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)