

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: P192585

Luminaire Tested: **GAN-AF-07-LED-U-5NQ-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192585
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
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-5NQ-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33935.9 lumens
Efficiency: N/A
Efficacy: 115.0 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

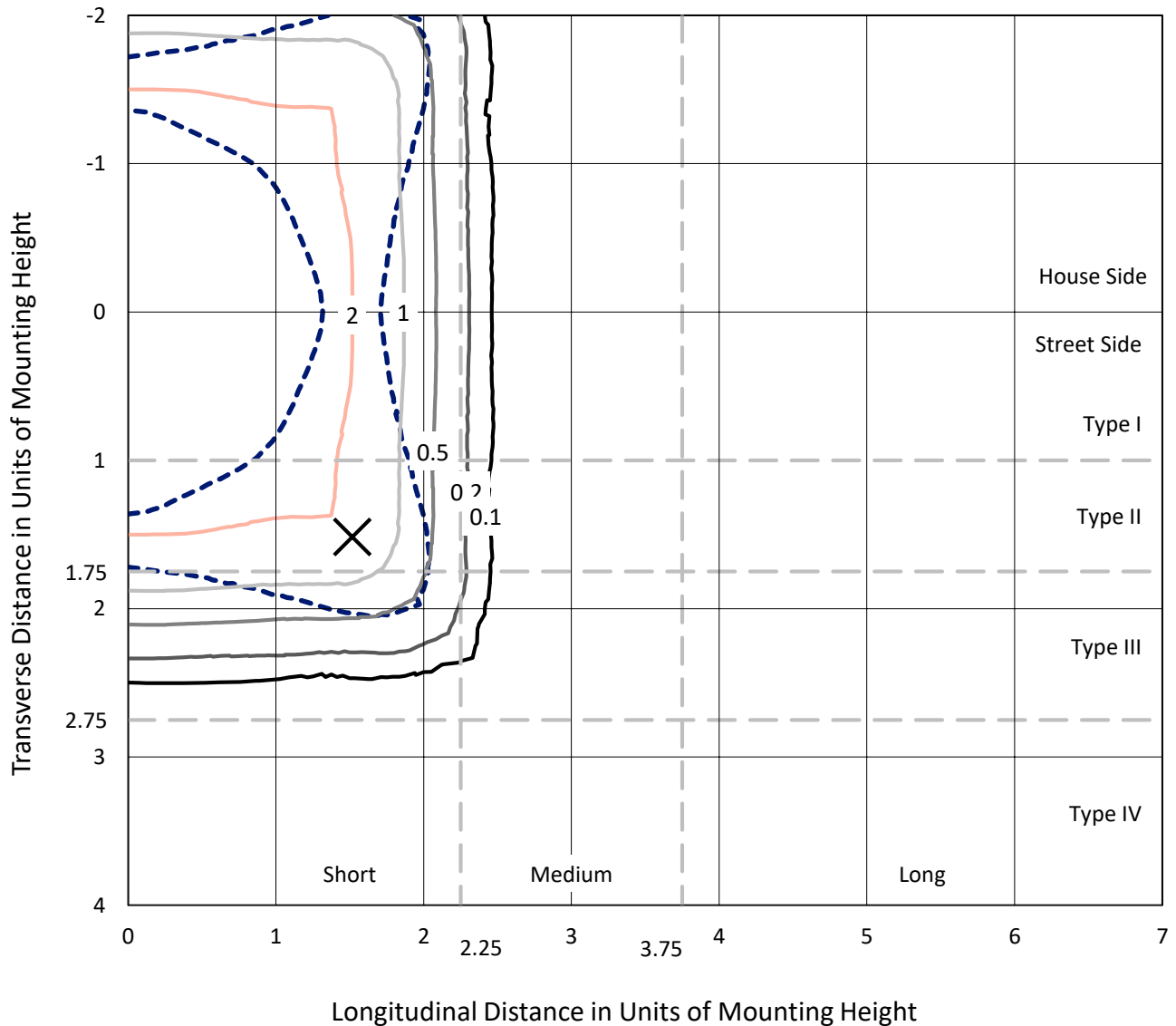


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

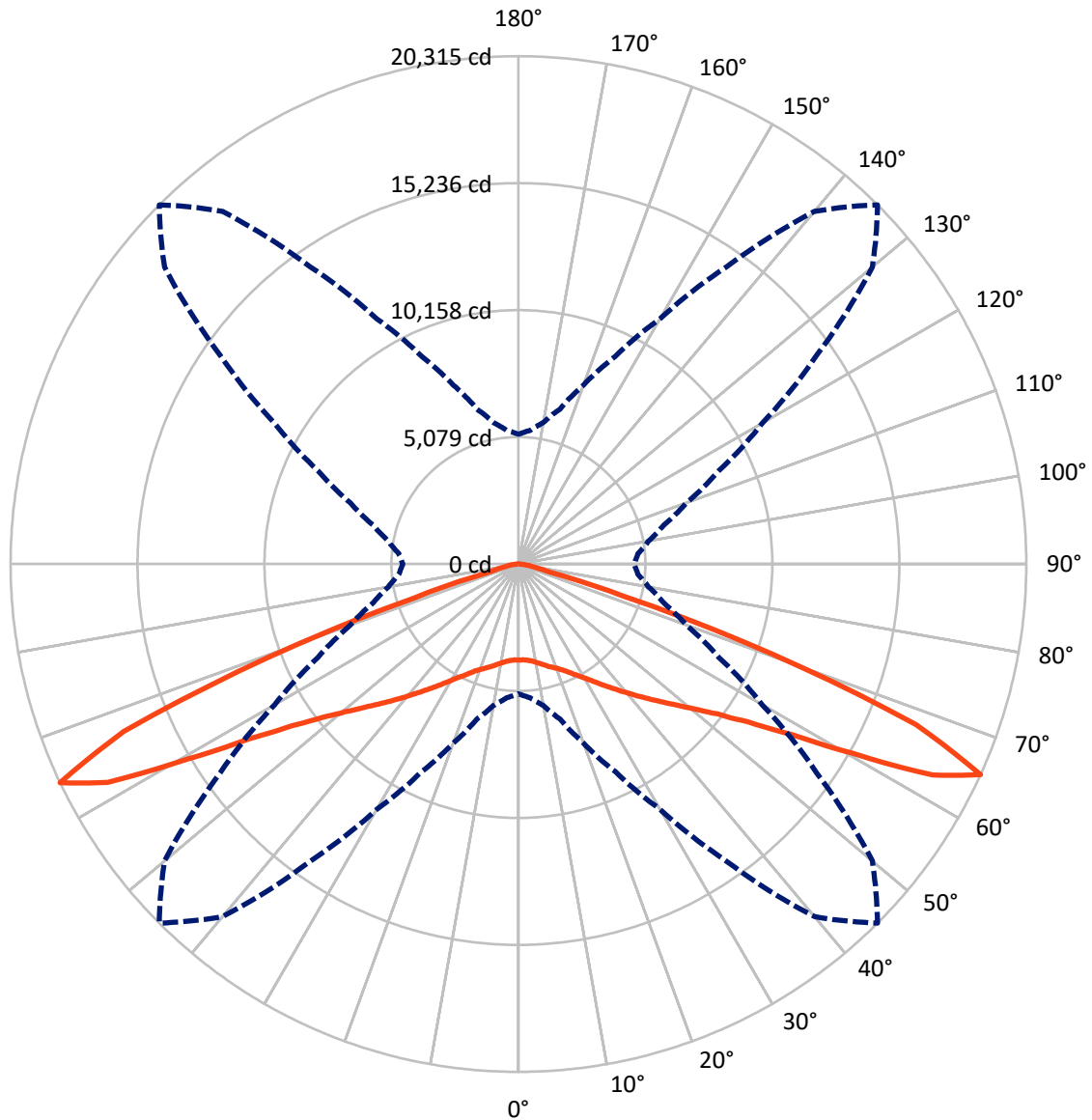


Based on 30 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16967.9	0.0	16967.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16967.9	0.0	16967.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	33935.9	0.0	33935.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.3	1.1
10°-20°	1200.3	3.5
20°-30°	2244.4	6.6
30°-40°	3795.9	11.2
40°-50°	6206.7	18.3
50°-60°	9869.6	29.1
60°-70°	8921.5	26.3
70°-80°	1129.0	3.3
80°-90°	194.2	0.6
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°	33935.9	100.0
0°-180°	33935.9	100.0

Coefficient of Utilization



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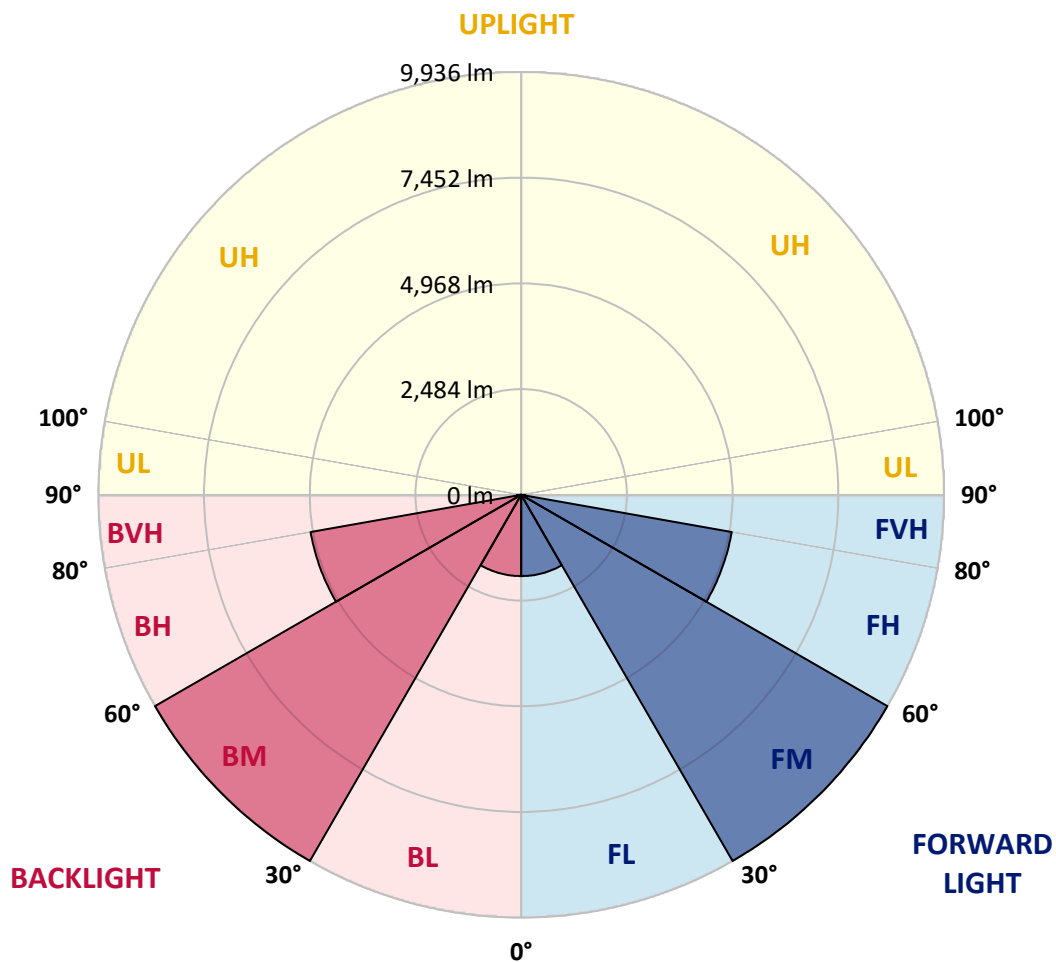
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1909.5	5.6			
FM	(30°-60°)	9936.1	29.3			
FH	(60°-80°)	5025.3	14.8			G3/7500
FVH	(80°-90°)	97.1	0.3			G1/100
BL	(0°-30°)	1909.5	5.6	B3/2500		
BM	(30°-60°)	9936.1	29.3	B5		
BH	(60°-80°)	5025.3	14.8	B5		G3/7500
BVH	(80°-90°)	97.1	0.3			G1/100
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°	3839.9	3839.9	3839.9	3839.9	3839.9	3839.9	3839.9	3839.9	3839.9	3839.9	3839.9
2.5°	3843.0	3846.3	3849.4	3846.3	3849.4	3844.7	3841.4	3846.3	3841.4	3836.6	3839.9
5°	3876.4	3878.0	3878.0	3873.2	3878.0	3874.9	3870.1	3876.4	3871.6	3866.9	3870.1
7.5°	3932.0	3938.4	3933.7	3928.9	3932.0	3928.9	3925.6	3927.4	3925.6	3920.9	3922.5
10°	4006.7	4011.6	4008.2	4006.7	4010.0	4008.2	4005.1	4003.6	4005.1	4000.4	4000.4
12.5°	4097.3	4095.8	4094.2	4095.8	4100.5	4100.5	4099.0	4100.5	4103.7	4105.3	4102.1
15°	4186.4	4189.5	4189.5	4189.5	4199.1	4207.0	4211.7	4215.0	4221.3	4222.9	4216.6
17.5°	4297.6	4297.6	4296.0	4297.6	4307.1	4319.9	4324.6	4330.9	4337.4	4342.1	4334.2
20°	4421.6	4424.8	4424.8	4427.9	4440.7	4454.9	4454.9	4458.1	4454.9	4458.1	4453.4
22.5°	4572.6	4582.2	4582.2	4583.7	4596.4	4613.9	4609.1	4613.9	4606.0	4612.3	4606.0
25°	4769.6	4783.9	4780.7	4780.7	4790.3	4801.4	4803.0	4812.6	4811.0	4818.9	4814.2
27.5°	4992.2	5014.4	5020.8	5019.2	5025.5	5036.7	5039.8	5050.9	5044.6	5050.9	5047.8
30°	5259.2	5268.7	5281.4	5286.2	5294.1	5305.3	5305.3	5306.8	5298.8	5308.5	5313.2
32.5°	5535.7	5553.2	5565.8	5594.5	5608.9	5616.8	5615.2	5618.3	5610.4	5623.1	5632.7
35°	5901.2	5913.9	5934.6	5957.0	5975.9	5974.4	5969.6	5971.2	5971.2	5982.3	5991.9
37.5°	6341.5	6344.6	6371.7	6403.4	6413.0	6403.4	6374.8	6368.5	6354.2	6368.5	6384.4
40°	6807.2	6818.4	6872.3	6893.0	6897.7	6880.3	6839.0	6815.1	6783.4	6800.9	6823.1
42.5°	7295.1	7317.3	7366.6	7403.2	7419.0	7408.0	7350.8	7314.2	7272.9	7282.3	7304.6
45°	7835.5	7862.6	7932.4	7967.4	7997.6	7980.1	7924.5	7868.9	7803.8	7808.4	7843.4
47.5°	8439.4	8466.5	8557.0	8615.8	8631.8	8628.5	8566.6	8490.3	8401.3	8398.1	8428.4
50°	9116.5	9143.6	9256.3	9346.9	9393.0	9388.3	9315.2	9207.1	9099.0	9100.6	9138.8
52.5°	9777.7	9811.1	9928.7	10084.4	10175.0	10240.3	10195.6	10093.9	9962.0	9965.2	10000.2
55°	10397.5	10453.2	10588.2	10799.6	10968.1	11150.9	11203.3	11200.1	11120.6	11143.0	11177.9
57.5°	10697.9	10780.6	10988.8	11322.5	11665.8	12037.7	12352.5	12587.6	12687.7	12838.7	12803.8
60°	10128.9	10260.9	10567.5	11058.6	11737.4	12512.9	13344.2	14156.2	14849.3	15372.2	15071.8
62.5°	8293.3	8464.9	8836.8	9466.1	10492.9	11734.1	13325.1	15245.1	17336.6	18598.5	17697.4
65°	5189.3	5367.3	5745.5	6419.4	7621.0	9164.2	11322.5	14504.3	18412.6	20315.0	18480.9
67.5°	2023.3	2120.1	2325.2	2755.9	3658.6	5031.8	7198.1	10809.1	15483.4	17150.7	15195.8
70°	1014.0	1023.5	1061.7	1141.1	1335.0	1734.0	2638.3	5011.1	8879.7	10724.9	8560.3
72.5°	732.7	734.3	753.4	788.3	850.2	939.3	1110.9	1533.7	2887.8	4413.6	2706.7
75°	561.0	567.4	578.5	597.6	631.0	675.4	737.5	883.7	1095.1	1269.9	1068.0
77.5°	432.3	445.0	453.0	470.5	491.1	521.2	538.7	594.4	691.4	727.8	716.8
80°	329.0	340.2	357.6	371.9	386.2	400.6	394.2	419.5	470.5	500.6	484.8
82.5°	209.8	222.6	273.3	286.0	292.5	302.0	290.8	292.5	314.6	333.8	314.6
85°	135.1	143.0	173.2	189.1	190.7	197.1	192.3	181.2	181.2	165.3	186.0
87.5°	62.0	63.6	77.9	92.3	95.4	85.9	84.2	81.1	65.1	62.0	66.7
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°	3839.9	3839.9	3839.9	3839.9	3839.9	3839.9	3839.9	3839.9
2.5°	3838.3	3841.4	3843.0	3847.8	3849.4	3849.4	3851.0	3854.1
5°	3868.5	3873.2	3874.9	3881.2	3882.7	3881.2	3884.3	3886.0
7.5°	3922.5	3930.5	3933.7	3940.0	3935.2	3941.6	3943.1	3943.1
10°	4001.9	4010.0	4011.6	4017.9	4014.7	4017.9	4017.9	4014.7
12.5°	4106.8	4108.4	4103.7	4108.4	4102.1	4105.3	4100.5	4097.3
15°	4222.9	4218.2	4207.0	4207.0	4197.5	4199.1	4197.5	4195.9
17.5°	4335.7	4326.2	4318.3	4315.0	4307.1	4305.6	4300.8	4300.8
20°	4459.8	4454.9	4450.1	4443.8	4435.9	4427.9	4426.3	4429.5
22.5°	4609.1	4607.6	4607.6	4604.3	4593.3	4585.3	4580.4	4580.4
25°	4809.4	4795.1	4795.1	4793.5	4788.8	4783.9	4774.4	4779.2
27.5°	5035.1	5027.1	5033.5	5031.8	5027.1	5027.1	5020.8	5020.8
30°	5313.2	5310.0	5319.5	5311.6	5295.7	5294.1	5287.7	5279.9
32.5°	5634.3	5631.1	5645.3	5635.8	5610.4	5596.2	5583.3	5577.0
35°	5991.9	5993.4	6010.9	6004.6	5975.9	5966.4	5944.1	5941.0
37.5°	6382.8	6408.3	6438.4	6444.7	6420.9	6414.6	6390.8	6378.0
40°	6842.2	6875.5	6921.6	6932.7	6907.3	6902.6	6869.1	6851.6
42.5°	7331.7	7388.8	7446.1	7455.7	7430.1	7404.8	7373.1	7360.2
45°	7878.3	7946.8	8021.5	8040.5	8002.3	7972.2	7930.8	7930.8
47.5°	8491.8	8577.7	8662.0	8714.4	8679.4	8647.7	8598.3	8566.6
50°	9216.7	9334.2	9444.0	9497.9	9442.3	9382.0	9296.1	9267.5
52.5°	10125.7	10252.9	10348.3	10319.6	10233.8	10149.6	10055.7	10017.7
55°	11285.9	11328.9	11328.9	11220.8	11049.2	10907.7	10759.9	10710.5
57.5°	12737.0	12571.8	12317.5	11994.8	11589.5	11236.7	10998.2	10885.5
60°	14442.4	13647.8	12749.8	11867.6	11143.0	10545.3	10190.9	10028.8
62.5°	15578.8	13500.0	11700.8	10284.7	9242.0	8522.1	8032.5	7841.9
65°	14560.0	11258.9	8849.5	7155.3	6018.9	5286.2	4801.4	4623.5
67.5°	10664.6	7055.1	4712.5	3377.3	2474.6	1974.0	1775.4	1692.7
70°	4787.0	2484.1	1522.6	1188.8	1025.2	940.9	904.3	891.7
72.5°	1443.1	1044.2	880.5	794.7	729.6	688.3	658.0	654.8
75°	871.1	724.7	643.6	592.8	551.5	518.1	502.3	497.4
77.5°	608.7	532.4	494.3	457.7	425.9	400.6	386.2	375.1
80°	427.5	390.9	373.4	352.8	332.1	308.3	287.7	278.2
82.5°	286.0	278.2	278.2	265.4	247.9	225.7	184.3	174.9
85°	184.3	182.8	186.0	181.2	168.5	144.7	119.2	112.9
87.5°	85.9	87.4	96.9	95.4	92.3	76.3	60.4	57.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)