

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: P268488

Luminaire Tested: **GAN-AF-05-LED-U-5NQ-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268488
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-05-LED-U-5NQ-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29247.2 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G2

Input Watts (W): 320
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

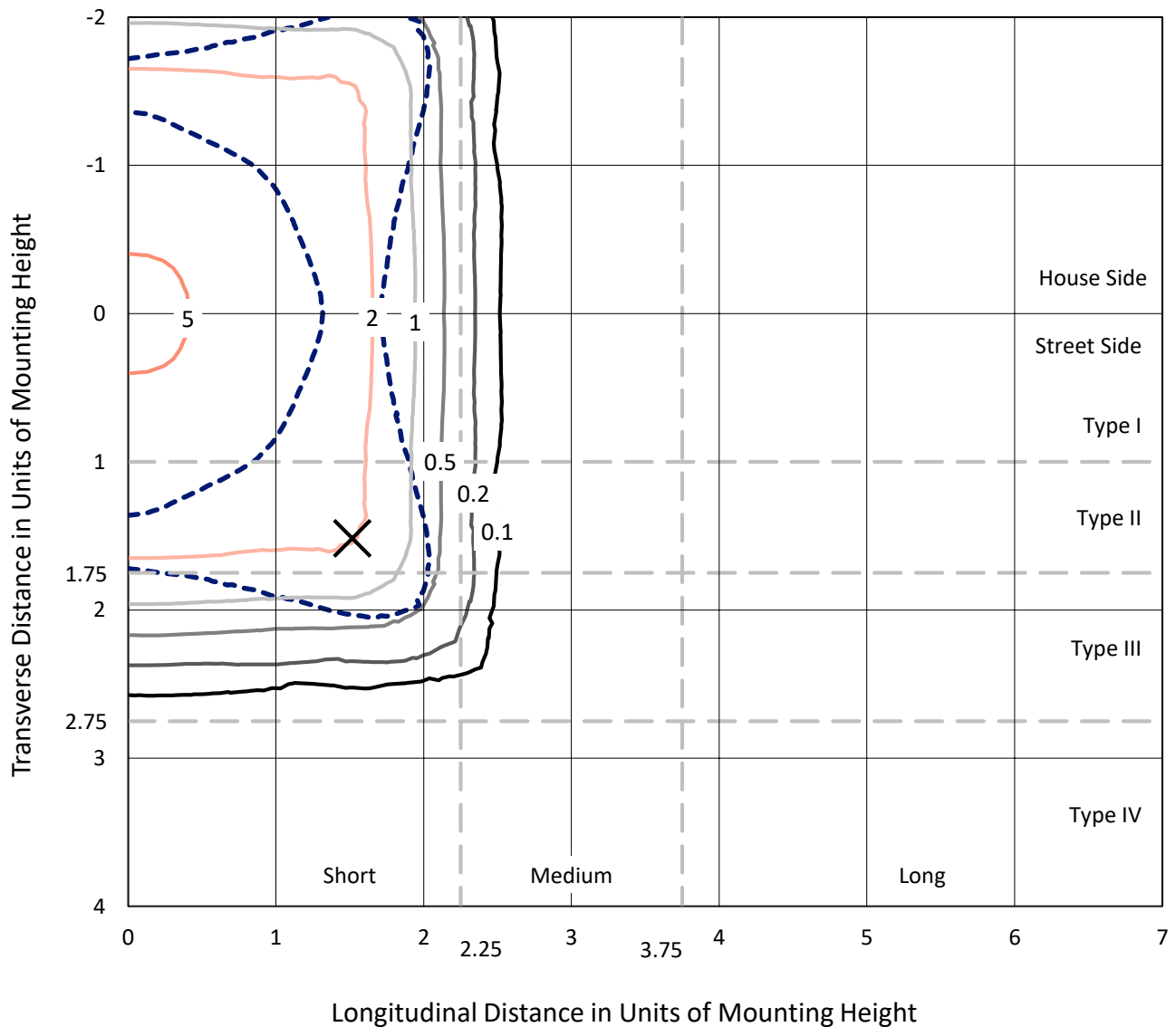


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

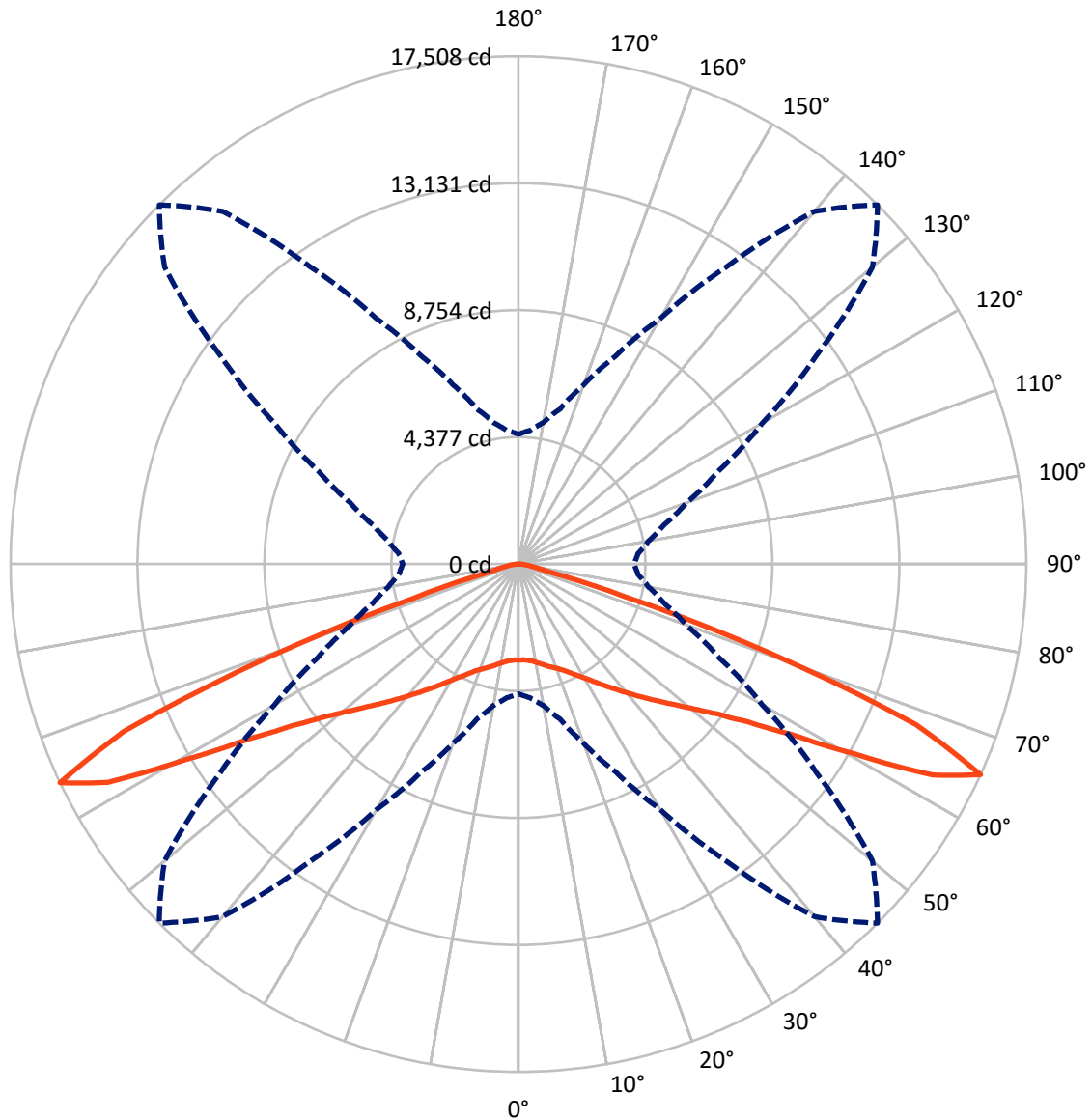


Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type V - Short - Full Cutoff

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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	14623.6	0.0	14623.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14623.6	0.0	14623.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	29247.2	0.0	29247.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.6	1.1
10°-20°	1034.5	3.5
20°-30°	1934.3	6.6
30°-40°	3271.4	11.2
40°-50°	5349.1	18.3
50°-60°	8506.0	29.1
60°-70°	7688.8	26.3
70°-80°	973.1	3.3
80°-90°	167.4	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°	29247.2	100.0
0°-180°	29247.2	100.0



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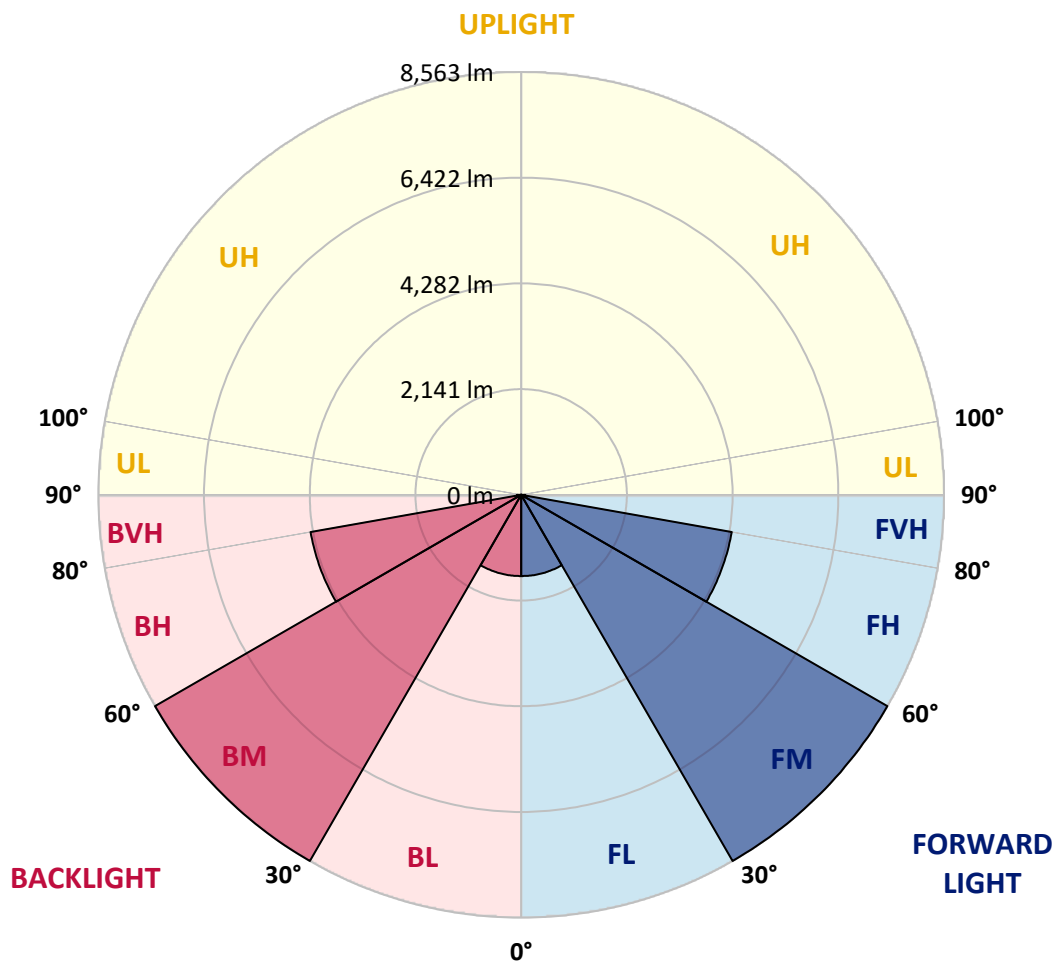
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1645.7	5.6			
FM	(30°-60°)	8563.3	29.3			
FH	(60°-80°)	4331.0	14.8			G2/5000
FVH	(80°-90°)	83.7	0.3			G1/100
BL	(0°-30°)	1645.7	5.6	B3/2500		
BM	(30°-60°)	8563.3	29.3	B5		
BH	(60°-80°)	4331.0	14.8	B4/5000		G2/5000
BVH	(80°-90°)	83.7	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3309.4	3309.4	3309.4	3309.4	3309.4	3309.4	3309.4	3309.4	3309.4	3309.4	3309.4
2.5°	3312.1	3314.8	3317.5	3314.8	3317.5	3313.5	3310.8	3314.8	3310.8	3306.7	3309.4
5°	3340.8	3342.2	3342.2	3338.1	3342.2	3339.4	3335.3	3340.8	3336.8	3332.6	3335.3
7.5°	3388.8	3394.2	3390.2	3386.0	3388.8	3386.0	3383.2	3384.6	3383.2	3379.2	3380.5
10°	3453.2	3457.2	3454.5	3453.2	3455.9	3454.5	3451.7	3450.4	3451.7	3447.7	3447.7
12.5°	3531.2	3529.9	3528.5	3529.9	3534.0	3534.0	3532.7	3534.0	3536.6	3538.1	3535.3
15°	3608.0	3610.6	3610.6	3610.6	3618.9	3625.7	3629.8	3632.6	3638.0	3639.5	3634.0
17.5°	3703.8	3703.8	3702.5	3703.8	3712.1	3722.9	3727.1	3732.5	3738.0	3742.2	3735.3
20°	3810.7	3813.5	3813.5	3816.1	3827.0	3839.4	3839.4	3842.2	3839.4	3842.2	3838.1
22.5°	3940.8	3948.9	3948.9	3950.3	3961.3	3976.3	3972.2	3976.3	3969.6	3975.0	3969.6
25°	4110.6	4123.0	4120.3	4120.3	4128.4	4138.0	4139.4	4147.7	4146.2	4153.1	4149.0
27.5°	4302.4	4321.6	4327.0	4325.7	4331.2	4340.8	4343.6	4353.0	4347.5	4353.0	4350.3
30°	4532.5	4540.8	4551.7	4555.8	4562.6	4572.3	4572.3	4573.6	4566.8	4575.0	4579.1
32.5°	4770.9	4785.9	4796.9	4821.6	4833.9	4840.7	4839.3	4842.1	4835.2	4846.1	4854.4
35°	5085.9	5096.9	5114.7	5133.9	5150.3	5148.9	5144.9	5146.2	5146.2	5155.7	5163.9
37.5°	5465.3	5468.1	5491.3	5518.7	5527.0	5518.7	5494.2	5488.6	5476.2	5488.6	5502.3
40°	5866.7	5876.3	5922.9	5940.6	5944.8	5929.7	5894.0	5873.5	5846.1	5861.3	5880.3
42.5°	6287.1	6306.3	6348.9	6380.3	6394.0	6384.4	6335.1	6303.6	6268.1	6276.2	6295.4
45°	6752.9	6776.2	6836.5	6866.6	6892.6	6877.6	6829.6	6781.7	6725.5	6729.7	6759.7
47.5°	7273.3	7296.8	7374.7	7425.5	7439.1	7436.3	7383.0	7317.2	7240.5	7237.9	7263.9
50°	7856.9	7880.2	7977.5	8055.6	8095.3	8091.2	8028.2	7935.0	7841.8	7843.2	7876.1
52.5°	8426.7	8455.4	8556.9	8691.1	8769.2	8825.4	8787.0	8699.4	8585.6	8588.3	8618.5
55°	8961.0	9008.9	9125.3	9307.5	9452.7	9610.2	9655.4	9652.6	9584.1	9603.4	9633.6
57.5°	9219.8	9291.1	9470.6	9758.2	10054.0	10374.5	10645.8	10848.6	10934.8	11065.0	11034.8
60°	8729.5	8843.2	9107.6	9530.7	10115.6	10784.2	11500.6	12200.4	12797.7	13248.4	12989.4
62.5°	7147.4	7295.3	7615.8	8158.2	9043.1	10112.8	11484.0	13138.7	14941.2	16028.8	15252.2
65°	4472.2	4625.6	4951.6	5532.4	6568.0	7898.0	9758.2	12500.5	15868.6	17508.2	15927.6
67.5°	1743.7	1827.2	2003.9	2375.2	3153.2	4336.7	6203.6	9315.8	13344.1	14781.0	13096.2
70°	874.0	882.1	915.1	983.5	1150.5	1494.4	2273.8	4318.8	7652.8	9243.1	7377.5
72.5°	631.5	632.9	649.3	679.4	732.7	809.6	957.5	1321.9	2488.8	3803.9	2332.7
75°	483.5	488.9	498.6	515.0	543.8	582.1	635.6	761.7	943.8	1094.5	920.5
77.5°	372.5	383.5	390.4	405.5	423.2	449.3	464.3	512.4	595.8	627.3	617.8
80°	283.5	293.1	308.2	320.5	332.8	345.2	339.6	361.6	405.5	431.5	417.8
82.5°	180.7	191.8	235.5	246.6	252.1	260.2	250.6	252.1	271.2	287.6	271.2
85°	116.4	123.2	149.3	163.0	164.4	169.9	165.7	156.1	156.1	142.4	160.3
87.5°	53.4	54.7	67.2	79.4	82.1	74.0	72.7	69.9	56.1	53.4	57.5
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°	3309.4	3309.4	3309.4	3309.4	3309.4	3309.4	3309.4	3309.4
2.5°	3308.0	3310.8	3312.1	3316.3	3317.5	3317.5	3318.9	3321.7
5°	3334.0	3338.1	3339.4	3345.0	3346.4	3345.0	3347.7	3349.1
7.5°	3380.5	3387.4	3390.2	3395.7	3391.6	3397.0	3398.4	3398.4
10°	3449.0	3455.9	3457.2	3462.7	3460.0	3462.7	3462.7	3460.0
12.5°	3539.4	3540.8	3536.6	3540.8	3535.3	3538.1	3534.0	3531.2
15°	3639.5	3635.4	3625.7	3625.7	3617.6	3618.9	3617.6	3616.1
17.5°	3736.7	3728.4	3721.6	3719.0	3712.1	3710.7	3706.5	3706.5
20°	3843.6	3839.4	3835.4	3829.8	3822.9	3816.1	3814.7	3817.4
22.5°	3972.2	3970.9	3970.9	3968.3	3958.7	3951.7	3947.6	3947.6
25°	4144.9	4132.6	4132.6	4131.1	4127.1	4123.0	4114.7	4118.9
27.5°	4339.4	4332.5	4338.1	4336.7	4332.5	4332.5	4327.0	4327.0
30°	4579.1	4576.3	4584.6	4577.8	4564.0	4562.6	4557.2	4550.4
32.5°	4855.8	4853.1	4865.4	4857.1	4835.2	4822.9	4812.0	4806.6
35°	5163.9	5165.3	5180.4	5175.0	5150.3	5142.1	5122.9	5120.2
37.5°	5501.0	5522.9	5548.9	5554.4	5533.7	5528.3	5507.8	5496.8
40°	5896.8	5925.6	5965.3	5974.8	5953.0	5948.8	5920.1	5905.0
42.5°	6318.7	6368.1	6417.3	6425.5	6403.6	6381.6	6354.3	6343.3
45°	6789.8	6848.8	6913.1	6929.5	6896.7	6870.6	6835.2	6835.2
47.5°	7318.6	7392.6	7465.2	7510.4	7480.2	7452.9	7410.4	7383.0
50°	7943.3	8044.6	8139.2	8185.6	8137.7	8085.6	8011.8	7987.1
52.5°	8726.8	8836.3	8918.6	8893.8	8819.9	8747.2	8666.5	8633.6
55°	9726.7	9763.6	9763.6	9670.4	9522.6	9400.7	9273.3	9230.9
57.5°	10977.2	10834.7	10615.6	10337.5	9988.3	9684.2	9478.7	9381.4
60°	12446.9	11762.0	10988.2	10228.0	9603.4	9088.3	8782.9	8643.1
62.5°	13426.3	11634.7	10084.2	8863.7	7965.1	7344.6	6922.8	6758.4
65°	12548.3	9703.3	7626.8	6166.7	5187.3	4555.8	4138.0	3984.6
67.5°	9191.1	6080.4	4061.3	2910.8	2132.8	1701.2	1530.1	1458.8
70°	4125.7	2140.9	1312.2	1024.5	883.6	810.9	779.4	768.4
72.5°	1243.8	899.9	758.9	684.9	628.8	593.2	567.1	564.3
75°	750.7	624.6	554.8	511.0	475.4	446.5	432.9	428.8
77.5°	524.6	458.9	425.9	394.4	367.0	345.2	332.8	323.3
80°	368.5	337.0	322.0	304.0	286.3	265.7	247.9	239.7
82.5°	246.6	239.7	239.7	228.8	213.6	194.6	158.9	150.6
85°	158.9	157.6	160.3	156.1	145.2	124.7	102.8	97.2
87.5°	74.0	75.4	83.5	82.1	79.4	65.8	52.0	49.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)