

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: P300632

Luminaire Tested: **GAA-AF-07-LED-U-RW-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300632
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAA-AF-07-LED-U-RW-7030-800
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Rectangular
Wide Type I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33516.9 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B5 - U0 - G3

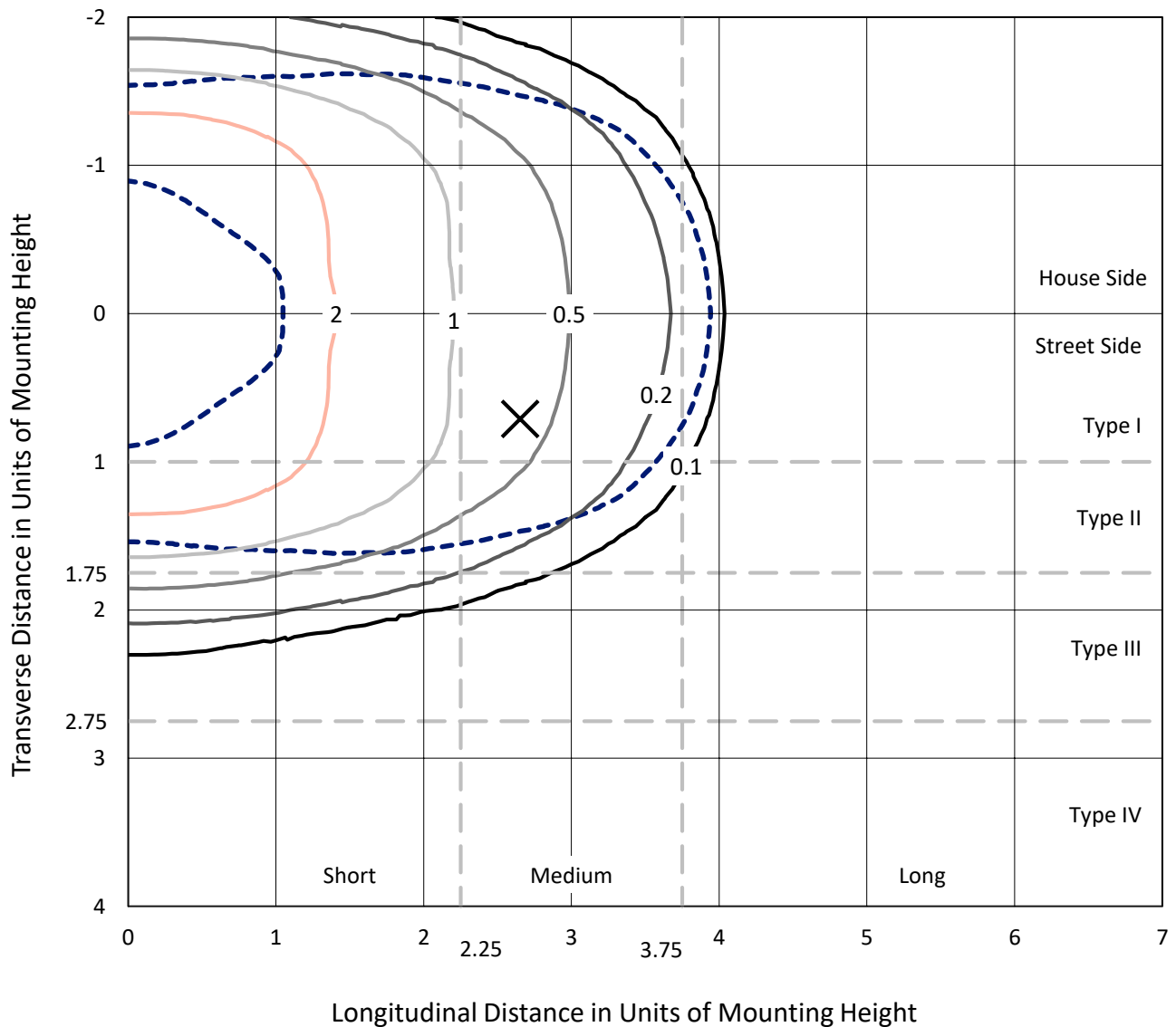
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

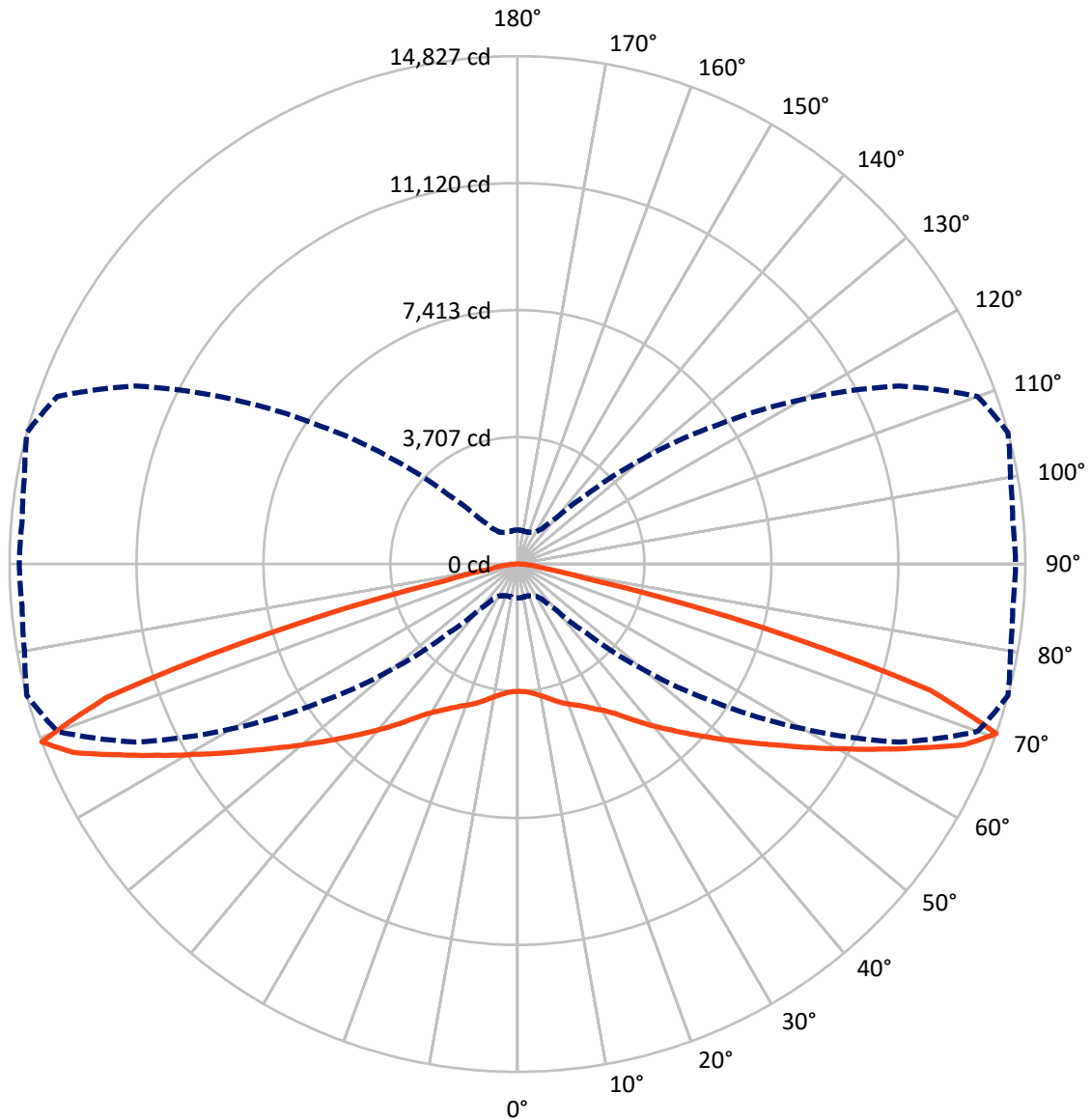


Based on 30 foot mounting height. Maximum calculated value = 4.2 fc
 Type V - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16758.4	0.0	16758.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16758.4	0.0	16758.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	33516.9	0.0	33516.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.6	1.1
10°-20°	1107.9	3.3
20°-30°	2085.3	6.2
30°-40°	3692.6	11.0
40°-50°	6175.2	18.4
50°-60°	8605.1	25.7
60°-70°	7979.8	23.8
70°-80°	3180.2	9.5
80°-90°	334.3	1.0
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°	33516.9	100.0
0°-180°	33516.9	100.0

Coefficient of Utilization



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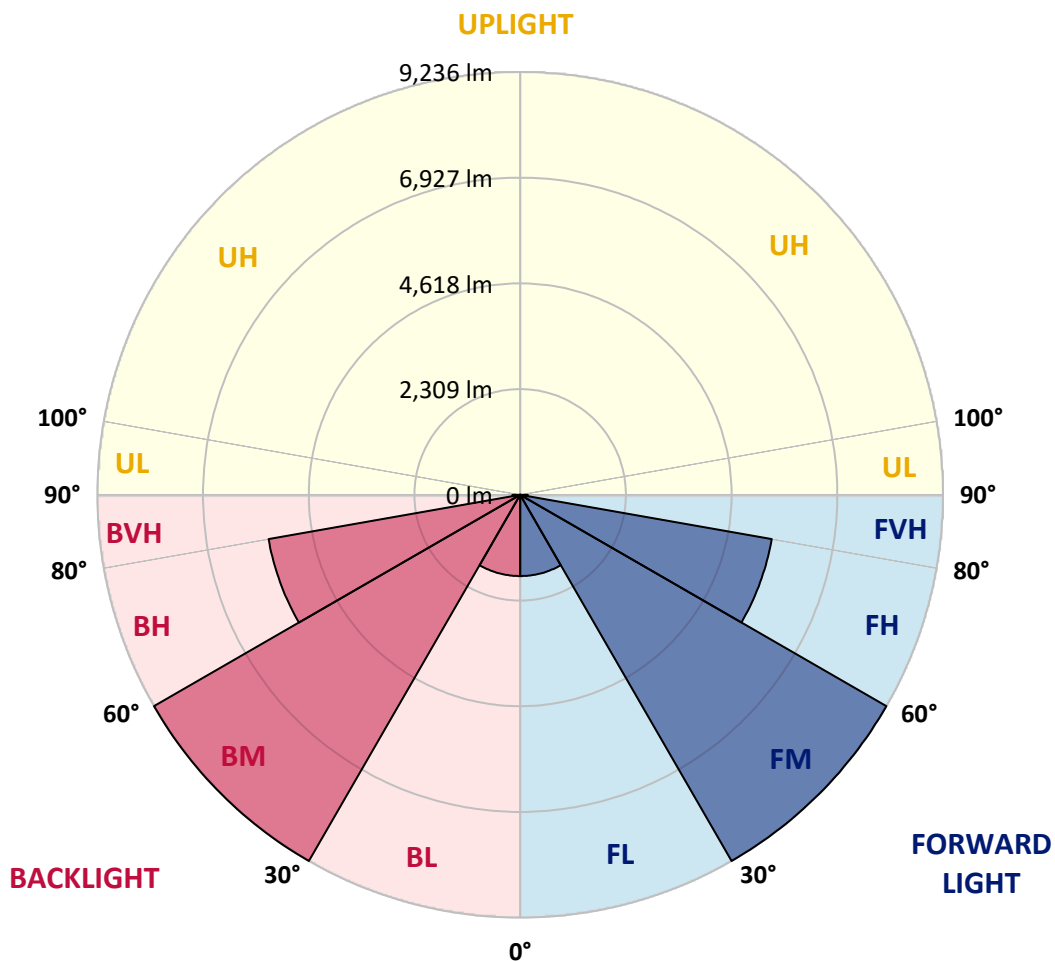
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1774.9	5.3			
FM	(30°-60°)	9236.4	27.6			
FH	(60°-80°)	5580.0	16.6			G3/7500
FVH	(80°-90°)	167.1	0.5			G2/225
BL	(0°-30°)	1774.9	5.3	B3/2500		
BM	(30°-60°)	9236.4	27.6	B5		
BH	(60°-80°)	5580.0	16.6	B5		G3/7500
BVH	(80°-90°)	167.1	0.5			G2/225
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3717.8	3717.8	3717.8	3717.8	3717.8	3717.8	3717.8	3717.8	3717.8	3717.8	3717.8
2.5°	3711.5	3708.3	3711.5	3709.9	3713.1	3713.1	3716.2	3722.6	3722.6	3727.3	3725.7
5°	3675.0	3673.5	3678.2	3683.0	3687.7	3697.2	3706.7	3721.0	3732.1	3740.0	3747.9
7.5°	3603.8	3603.8	3610.1	3621.2	3632.3	3652.9	3675.0	3703.5	3732.1	3755.8	3776.4
10°	3545.1	3548.3	3556.2	3575.2	3594.2	3625.9	3656.0	3697.2	3736.8	3776.4	3808.1
12.5°	3510.3	3515.0	3529.3	3557.8	3589.5	3632.3	3678.2	3730.5	3774.8	3822.4	3854.0
15°	3521.4	3524.5	3545.1	3580.0	3621.2	3675.0	3736.8	3798.6	3850.9	3901.6	3944.3
17.5°	3583.2	3587.9	3611.7	3651.3	3694.0	3757.4	3823.9	3893.6	3958.6	4015.6	4067.9
20°	3694.0	3698.8	3728.9	3771.7	3822.4	3887.3	3953.8	4026.7	4099.6	4159.8	4218.4
22.5°	3850.9	3858.8	3887.3	3930.1	3987.1	4056.8	4136.0	4213.6	4283.3	4338.8	4391.0
25°	4056.8	4074.2	4101.1	4148.7	4208.9	4272.2	4357.8	4437.0	4503.5	4555.8	4593.8
27.5°	4348.3	4372.0	4392.6	4438.6	4497.2	4557.4	4642.9	4712.6	4776.0	4826.7	4855.2
30°	4734.8	4758.5	4779.1	4823.5	4877.3	4934.4	5015.2	5076.9	5116.5	5156.1	5154.6
32.5°	5203.7	5229.0	5236.9	5284.4	5339.9	5401.7	5474.5	5509.4	5541.1	5545.8	5517.3
35°	5728.0	5740.7	5772.3	5835.7	5899.1	5949.8	6019.5	6036.9	6036.9	6013.1	5949.8
37.5°	6303.0	6310.9	6355.3	6426.6	6491.5	6543.8	6591.3	6626.1	6608.7	6558.0	6451.9
40°	6933.5	6947.7	7011.1	7074.4	7147.3	7196.4	7247.1	7253.4	7236.0	7161.6	7017.4
42.5°	7535.4	7548.1	7611.4	7711.2	7806.3	7874.4	7921.9	7931.4	7876.0	7807.9	7628.9
45°	8053.4	8086.7	8169.0	8286.3	8424.1	8520.7	8585.6	8612.6	8563.5	8474.8	8267.2
47.5°	8463.7	8496.9	8614.2	8753.6	8924.6	9081.5	9189.2	9246.2	9233.5	9167.0	8940.5
50°	8764.6	8796.3	8923.0	9094.1	9293.7	9488.6	9672.3	9808.5	9856.1	9826.0	9618.5
52.5°	8799.5	8851.8	9000.7	9230.4	9490.1	9756.3	10017.6	10248.9	10405.7	10429.5	10275.8
55°	8313.2	8365.5	8571.4	8912.0	9298.5	9732.5	10150.7	10540.4	10849.3	11007.7	10926.9
57.5°	7166.3	7259.8	7476.8	7876.0	8444.7	9094.1	9761.0	10453.3	11082.1	11501.9	11582.7
60°	5492.0	5602.8	5821.4	6246.0	6879.6	7654.2	8544.5	9567.8	10678.2	11622.3	12186.2
62.5°	3523.0	3627.5	3857.2	4226.3	4742.7	5582.3	6537.4	7752.4	9244.6	10735.2	12078.5
65°	1810.6	1867.6	1988.0	2211.4	2613.7	3241.0	4098.0	5309.8	7015.8	8854.9	10797.0
67.5°	1146.9	1158.0	1184.9	1216.6	1319.5	1536.5	1935.7	2691.3	4094.8	6013.1	8286.3
70°	991.6	991.6	979.0	974.2	986.9	1017.0	1078.7	1254.6	1728.2	2854.5	4779.1
72.5°	907.7	898.2	876.0	858.6	855.4	855.4	868.1	895.0	971.0	1162.7	1870.8
75°	836.4	809.5	779.4	758.8	750.8	742.9	741.3	746.1	761.9	792.0	893.4
77.5°	749.3	714.4	679.6	659.0	649.5	638.4	628.9	617.8	609.9	619.4	663.7
80°	644.7	605.1	578.2	565.5	556.0	540.2	519.6	500.6	483.1	480.0	506.9
82.5°	519.6	473.6	475.2	480.0	462.5	440.4	418.2	397.6	367.5	351.7	367.5
85°	419.8	396.0	384.9	415.0	389.7	356.4	321.6	285.1	237.6	199.6	217.0
87.5°	163.2	163.2	243.9	375.4	337.4	275.6	236.0	201.2	125.1	96.6	98.2
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°	3717.8	3717.8	3717.8	3717.8	3717.8	3717.8	3717.8	3717.8
2.5°	3724.1	3727.3	3725.7	3724.1	3724.1	3722.6	3724.1	3724.1
5°	3752.7	3760.6	3760.6	3763.7	3763.7	3765.3	3766.9	3765.3
7.5°	3795.4	3809.7	3819.2	3830.3	3831.9	3833.4	3836.6	3833.4
10°	3838.2	3866.7	3887.3	3907.9	3917.4	3920.6	3923.7	3923.7
12.5°	3892.1	3931.7	3968.1	4004.5	4021.9	4031.4	4031.4	4037.8
15°	3980.8	4020.4	4063.1	4112.2	4142.3	4158.2	4162.9	4162.9
17.5°	4105.9	4140.7	4177.2	4224.7	4262.7	4283.3	4288.1	4286.5
20°	4251.6	4284.9	4305.5	4335.6	4368.9	4392.6	4399.0	4399.0
22.5°	4418.0	4437.0	4440.1	4449.6	4476.6	4508.3	4522.5	4525.7
25°	4601.7	4606.5	4593.8	4593.8	4611.2	4641.3	4655.6	4657.2
27.5°	4839.3	4815.6	4783.9	4772.8	4783.9	4818.7	4836.2	4842.5
30°	5135.5	5078.5	5005.6	4966.0	4959.7	5005.6	5037.3	5042.1
32.5°	5474.5	5392.2	5295.5	5214.7	5194.2	5222.7	5260.7	5259.1
35°	5876.9	5778.7	5661.5	5558.5	5511.0	5539.5	5593.3	5599.7
37.5°	6341.0	6212.7	6078.1	5948.2	5873.7	5881.6	5938.7	5957.7
40°	6859.0	6692.7	6523.2	6348.9	6242.8	6222.2	6291.9	6303.0
42.5°	7413.4	7199.6	6985.7	6770.3	6634.1	6602.4	6683.2	6678.4
45°	8004.3	7731.8	7481.5	7243.9	7082.4	7034.8	7101.4	7101.4
47.5°	8639.5	8303.7	8005.9	7736.6	7560.7	7492.6	7556.0	7560.7
50°	9312.7	8956.3	8606.2	8306.8	8096.2	8009.0	8091.4	8104.1
52.5°	9982.8	9635.9	9282.6	8940.5	8685.4	8579.3	8674.3	8715.5
55°	10662.4	10321.8	9984.4	9650.1	9347.6	9222.4	9323.8	9376.1
57.5°	11379.9	11064.7	10743.1	10405.7	10114.3	9919.4	10027.1	10096.8
60°	12221.1	11951.8	11617.5	11245.3	10950.7	10752.6	10814.4	10876.2
62.5°	12886.4	12990.9	12707.4	12276.5	11897.9	11644.5	11704.7	11769.6
65°	12564.8	13637.2	13889.1	13453.5	12929.2	12534.7	12509.4	12542.6
67.5°	10502.4	12585.4	14104.5	14519.6	14080.8	13532.7	13431.3	13480.4
70°	7025.3	9620.0	12300.3	14296.2	14826.9	14614.6	14514.8	14544.9
72.5°	3374.1	5602.8	8344.9	10998.2	12613.9	13355.3	13592.9	13708.5
75°	1234.0	2224.0	4021.9	6060.6	7316.8	8470.0	9222.4	9529.7
77.5°	744.5	898.2	1284.7	1934.1	2190.8	2452.1	2350.8	2401.4
80°	551.3	622.5	704.9	792.0	820.5	820.5	788.9	763.5
82.5°	386.5	432.5	472.1	519.6	532.2	508.5	418.2	332.7
85°	248.7	269.3	286.7	316.8	308.9	294.6	198.0	175.8
87.5°	114.1	129.9	136.2	150.5	144.2	137.8	98.2	82.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)