

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: P192745

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192745
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: GAN-AF-07-LED-U-RW-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33628.9 lumens
Efficiency: N/A
Efficacy: 114.0 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

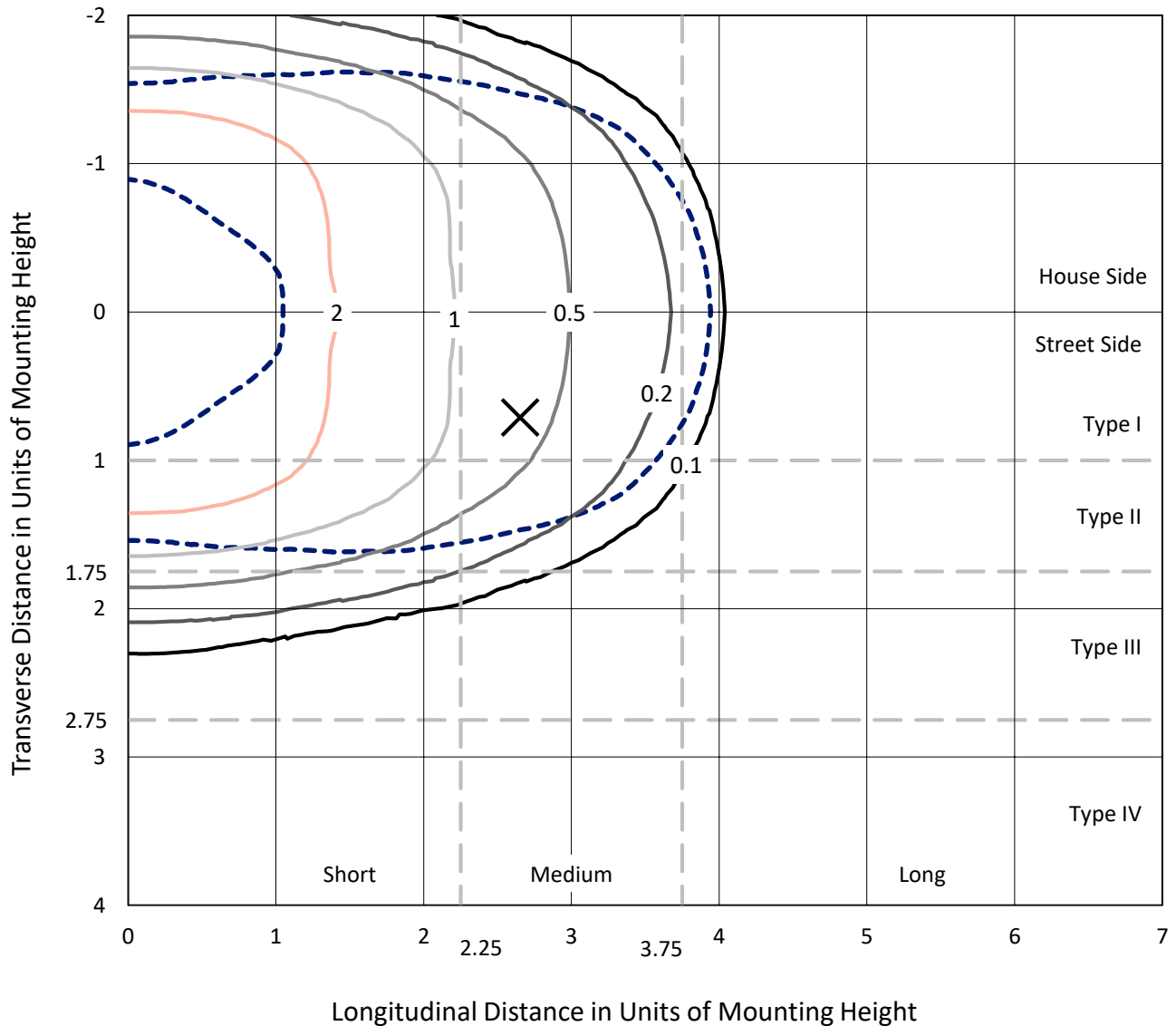
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

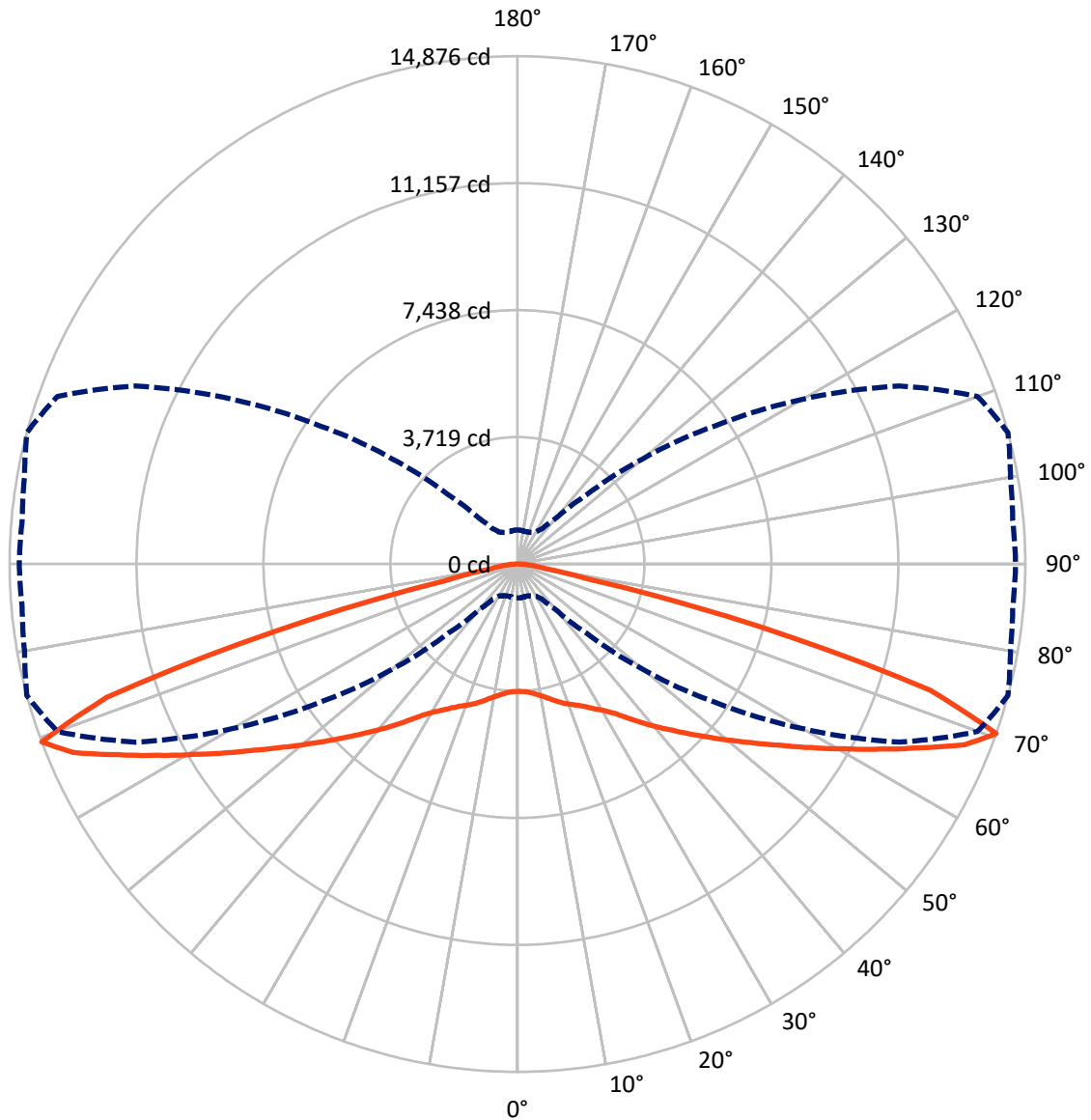
× Max cd
 - - - 1/2 Max cd



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	16814.5	0.0	16814.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16814.5	0.0	16814.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	33628.9	0.0	33628.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.8	1.1
10°-20°	1111.6	3.3
20°-30°	2092.2	6.2
30°-40°	3704.9	11.0
40°-50°	6195.8	18.4
50°-60°	8633.9	25.7
60°-70°	8006.5	23.8
70°-80°	3190.8	9.5
80°-90°	335.4	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°	33628.9	100.0
0°-180°	33628.9	100.0

Coefficient of Utilization



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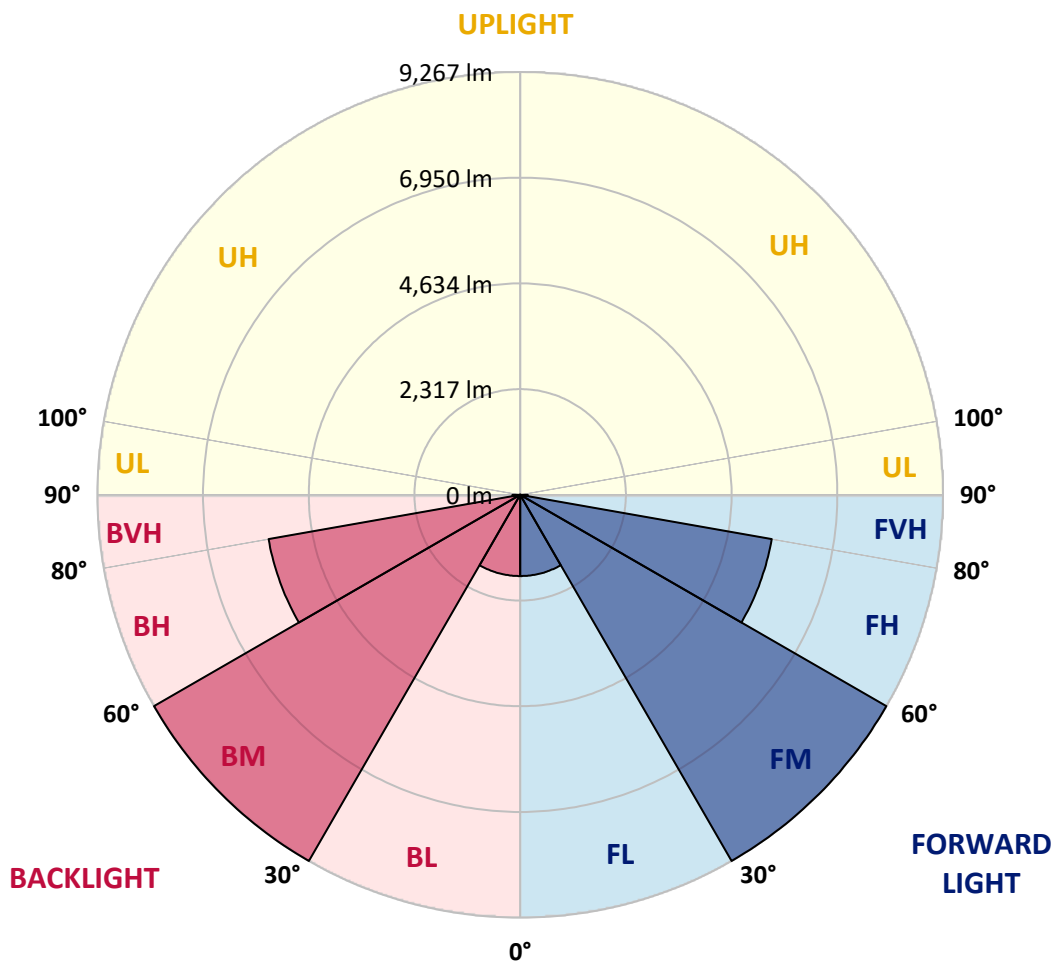
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1780.8	5.3			
FM	(30°-60°)	9267.3	27.6			
FH	(60°-80°)	5598.7	16.6			G3/7500
FVH	(80°-90°)	167.7	0.5			G2/225
BL	(0°-30°)	1780.8	5.3	B3/2500		
BM	(30°-60°)	9267.3	27.6	B5		
BH	(60°-80°)	5598.7	16.6	B5		G3/7500
BVH	(80°-90°)	167.7	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°	3730.2	3730.2	3730.2	3730.2	3730.2	3730.2	3730.2	3730.2	3730.2	3730.2	3730.2
2.5°	3723.9	3720.8	3723.9	3722.3	3725.4	3725.4	3728.7	3735.0	3735.0	3739.7	3738.2
5°	3687.3	3685.8	3690.4	3695.2	3700.1	3709.6	3719.0	3733.4	3744.6	3752.5	3760.3
7.5°	3615.8	3615.8	3622.2	3633.3	3644.5	3665.1	3687.3	3715.9	3744.6	3768.4	3789.0
10°	3556.9	3560.2	3568.1	3587.2	3606.2	3638.0	3668.3	3709.6	3749.3	3789.0	3820.8
12.5°	3522.0	3526.8	3541.1	3569.7	3601.5	3644.5	3690.4	3742.9	3787.5	3835.1	3866.9
15°	3533.1	3536.2	3556.9	3592.0	3633.3	3687.3	3749.3	3811.3	3863.7	3914.5	3957.5
17.5°	3595.1	3599.9	3623.7	3663.5	3706.4	3770.0	3836.7	3906.7	3971.8	4029.1	4081.5
20°	3706.4	3711.2	3741.4	3784.3	3835.1	3900.3	3967.1	4040.2	4113.3	4173.7	4232.4
22.5°	3863.7	3871.7	3900.3	3943.1	4000.4	4070.4	4149.7	4227.7	4297.6	4353.2	4405.7
25°	4070.4	4087.8	4114.8	4162.6	4223.0	4286.5	4372.3	4451.8	4518.5	4571.0	4609.1
27.5°	4362.8	4386.6	4407.3	4453.4	4512.2	4572.6	4658.4	4728.3	4791.9	4842.8	4871.5
30°	4750.6	4774.4	4795.1	4839.6	4893.6	4950.9	5031.9	5093.8	5133.6	5173.3	5171.8
32.5°	5221.1	5246.5	5254.4	5302.2	5357.7	5419.7	5492.8	5527.8	5559.5	5564.3	5535.7
35°	5747.1	5759.8	5791.7	5855.2	5918.8	5969.6	6039.6	6057.0	6057.0	6033.2	5969.6
37.5°	6324.0	6332.0	6376.5	6448.1	6513.2	6565.6	6613.4	6648.3	6630.8	6579.9	6473.5
40°	6956.6	6971.0	7034.5	7098.1	7171.2	7220.5	7271.3	7277.6	7260.2	7185.6	7040.8
42.5°	7560.6	7573.3	7636.9	7736.9	7832.4	7900.7	7948.4	7957.9	7902.2	7834.0	7654.3
45°	8080.3	8113.7	8196.3	8314.0	8452.2	8549.2	8614.3	8641.4	8592.0	8503.1	8294.9
47.5°	8491.9	8525.3	8643.0	8782.8	8954.5	9111.7	9219.9	9277.1	9264.4	9197.7	8970.4
50°	8793.9	8825.8	8952.9	9124.6	9324.7	9520.3	9704.6	9841.3	9889.0	9858.8	9650.7
52.5°	8828.9	8881.3	9030.8	9261.3	9521.8	9788.9	10051.1	10283.2	10440.5	10464.3	10310.1
55°	8341.0	8393.4	8600.1	8941.8	9329.5	9765.0	10184.6	10575.6	10885.5	11044.5	10963.4
57.5°	7190.3	7284.0	7501.7	7902.2	8472.8	9124.6	9793.7	10488.3	11119.2	11540.4	11621.4
60°	5510.3	5621.6	5840.9	6266.9	6902.6	7679.9	8573.0	9599.7	10713.9	11661.1	12226.9
62.5°	3534.7	3639.7	3870.1	4240.5	4758.6	5600.9	6559.3	7778.3	9275.4	10771.1	12118.9
65°	1816.7	1873.9	1994.6	2218.7	2622.4	3251.9	4111.7	5327.6	7039.2	8884.5	10833.0
67.5°	1150.7	1161.9	1188.8	1220.7	1323.9	1541.6	1942.2	2700.4	4108.4	6033.2	8314.0
70°	995.0	995.0	982.2	977.5	990.2	1020.4	1082.3	1258.7	1734.0	2864.0	4795.1
72.5°	910.6	901.2	878.9	861.4	858.2	858.2	871.1	898.0	974.3	1166.6	1877.1
75°	839.2	812.2	782.0	761.3	753.4	745.3	743.8	748.5	764.5	794.7	896.4
77.5°	751.8	716.8	681.9	661.1	651.6	640.5	631.0	619.8	611.9	621.4	665.9
80°	647.0	607.2	580.1	567.4	557.9	541.9	521.2	502.3	484.8	481.7	508.6
82.5°	521.2	475.2	476.8	481.7	464.2	441.9	419.5	398.9	368.8	352.8	368.8
85°	421.2	397.3	386.2	416.4	390.9	357.6	322.7	286.0	238.4	200.3	217.8
87.5°	163.7	163.7	244.7	376.7	338.4	276.5	236.8	201.8	125.5	96.9	98.6
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°	3730.2	3730.2	3730.2	3730.2	3730.2	3730.2	3730.2	3730.2
2.5°	3736.5	3739.7	3738.2	3736.5	3736.5	3735.0	3736.5	3736.5
5°	3765.2	3773.2	3773.2	3776.3	3776.3	3777.8	3779.5	3777.8
7.5°	3808.1	3822.4	3831.9	3843.0	3844.7	3846.3	3849.4	3846.3
10°	3851.1	3879.6	3900.3	3921.0	3930.5	3933.7	3936.8	3936.8
12.5°	3905.0	3944.8	3981.3	4017.9	4035.4	4044.9	4044.9	4051.4
15°	3994.1	4033.9	4076.7	4125.9	4156.2	4172.1	4176.9	4176.9
17.5°	4119.6	4154.6	4191.1	4238.8	4277.0	4297.6	4302.4	4300.8
20°	4265.8	4299.3	4319.9	4350.0	4383.5	4407.3	4413.6	4413.6
22.5°	4432.7	4451.8	4454.9	4464.6	4491.5	4523.4	4537.6	4540.9
25°	4617.1	4621.8	4609.1	4609.1	4626.6	4656.8	4671.2	4672.7
27.5°	4855.5	4831.7	4799.9	4788.8	4799.9	4834.8	4852.3	4858.6
30°	5152.6	5095.6	5022.4	4982.7	4976.3	5022.4	5054.2	5058.9
32.5°	5492.8	5410.2	5313.3	5232.2	5211.5	5240.1	5278.4	5276.6
35°	5896.5	5798.0	5680.4	5577.0	5529.4	5558.0	5612.0	5618.4
37.5°	6362.1	6233.5	6098.5	5968.1	5893.3	5901.3	5958.6	5977.6
40°	6881.9	6715.1	6544.9	6370.2	6263.8	6243.0	6312.9	6324.0
42.5°	7438.3	7223.6	7009.1	6792.9	6656.3	6624.5	6705.5	6700.8
45°	8031.0	7757.6	7506.5	7268.2	7106.0	7058.3	7125.2	7125.2
47.5°	8668.4	8331.4	8032.6	7762.5	7586.0	7517.7	7581.3	7586.0
50°	9343.9	8986.2	8635.0	8334.7	8123.2	8035.8	8118.4	8131.2
52.5°	10016.2	9668.2	9313.7	8970.4	8714.5	8608.0	8703.4	8744.7
55°	10698.0	10356.2	10017.8	9682.3	9378.9	9253.2	9355.0	9407.4
57.5°	11417.9	11101.8	10779.1	10440.5	10148.1	9952.5	10060.7	10130.6
60°	12261.9	11991.8	11656.4	11282.8	10987.2	10788.6	10850.5	10912.6
62.5°	12929.4	13034.3	12749.9	12317.6	11937.6	11683.4	11743.7	11809.0
65°	12606.8	13682.7	13935.5	13498.4	12972.4	12576.7	12551.1	12584.6
67.5°	10537.5	12627.4	14151.7	14568.1	14127.9	13577.8	13476.1	13525.4
70°	7048.9	9652.2	12341.4	14344.0	14876.4	14663.4	14563.2	14593.5
72.5°	3385.3	5621.6	8372.7	11034.9	12656.0	13399.9	13638.3	13754.3
75°	1238.1	2231.5	4035.4	6081.0	7341.2	8498.3	9253.2	9561.6
77.5°	747.0	901.2	1288.9	1940.7	2198.1	2460.3	2358.6	2409.5
80°	553.1	624.6	707.2	794.7	823.3	823.3	791.5	766.1
82.5°	387.8	433.9	473.6	521.2	534.1	510.1	419.5	333.8
85°	249.5	270.2	287.7	317.8	310.0	295.6	198.7	176.5
87.5°	114.4	130.3	136.7	151.0	144.7	138.3	98.6	82.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)