

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: P300571

Luminaire Tested: **GAA-AF-07-LED-U-RW-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300571
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-7027
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND
Rectangular Wide Type I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37265.2 lumens
Efficiency: N/A
Efficacy: 95.3 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

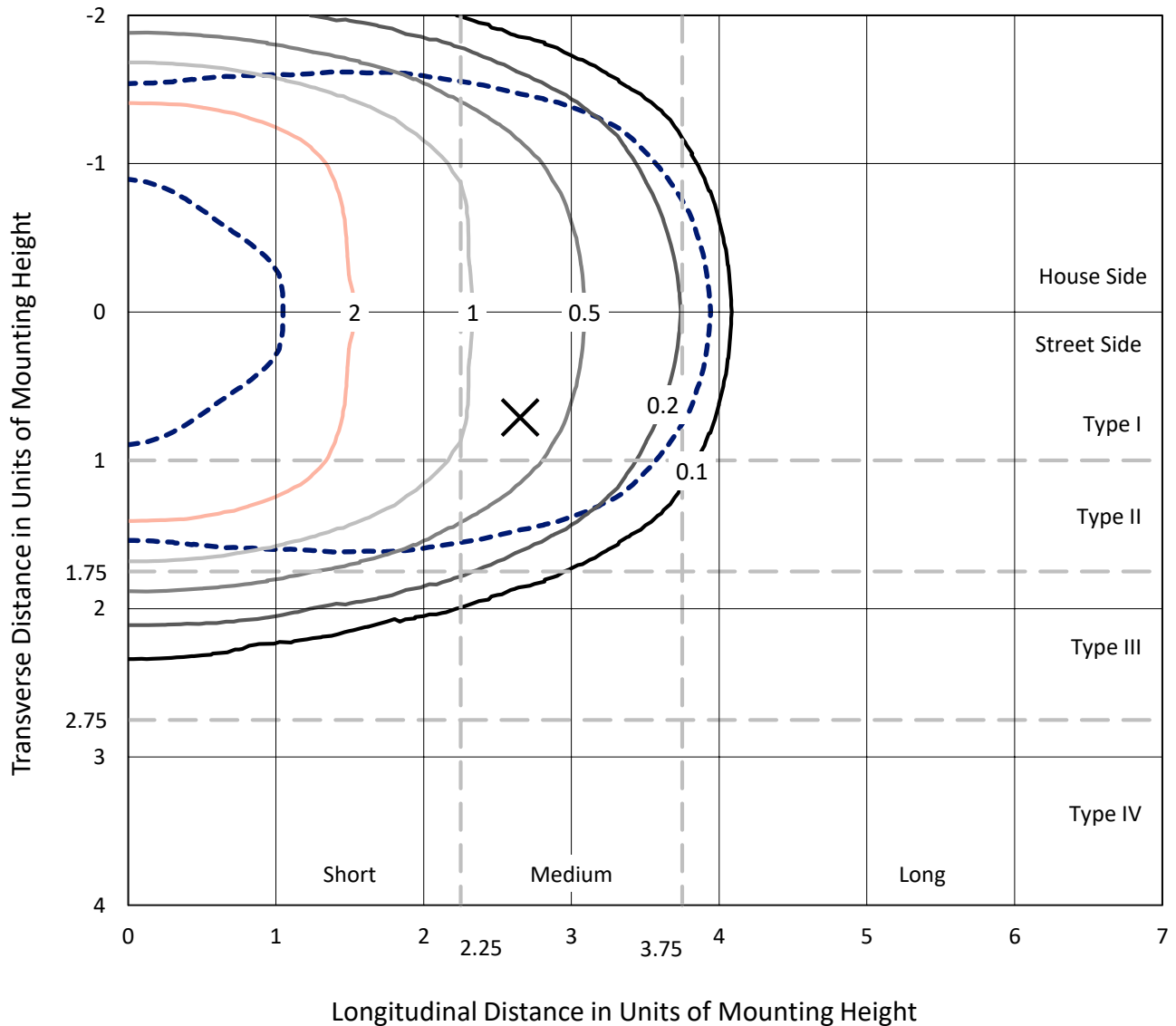
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

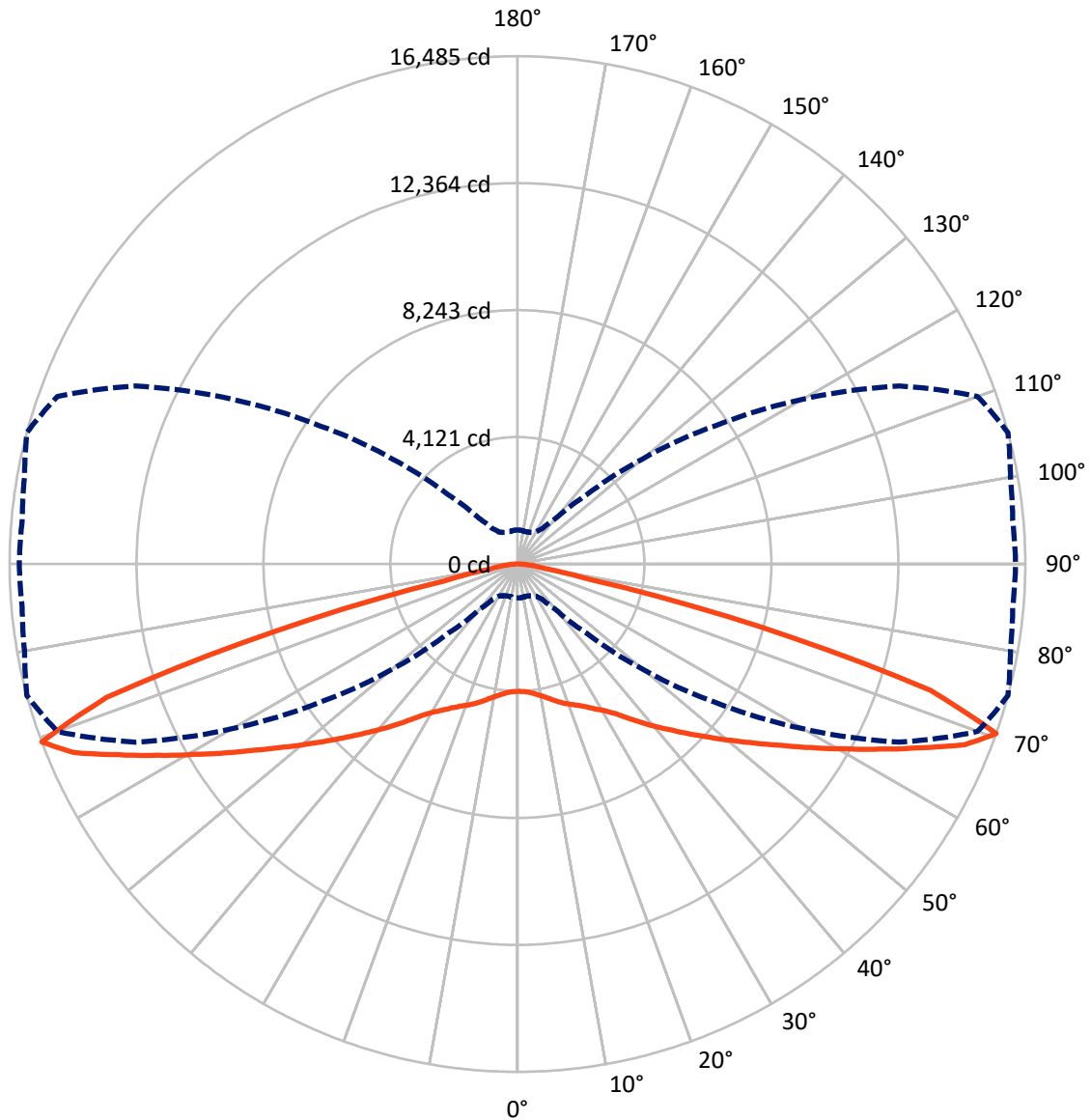


Based on 30 foot mounting height. Maximum calculated value = 4.6 fc
 Type V - Medium - Full Cutoff

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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	18632.6	0.0	18632.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18632.6	0.0	18632.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	37265.2	0.0	37265.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.4	1.1
10°-20°	1231.8	3.3
20°-30°	2318.4	6.2
30°-40°	4105.5	11.0
40°-50°	6865.7	18.4
50°-60°	9567.4	25.7
60°-70°	8872.3	23.8
70°-80°	3535.9	9.5
80°-90°	371.7	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°	37265.2	100.0
0°-180°	37265.2	100.0

Coefficient of Utilization



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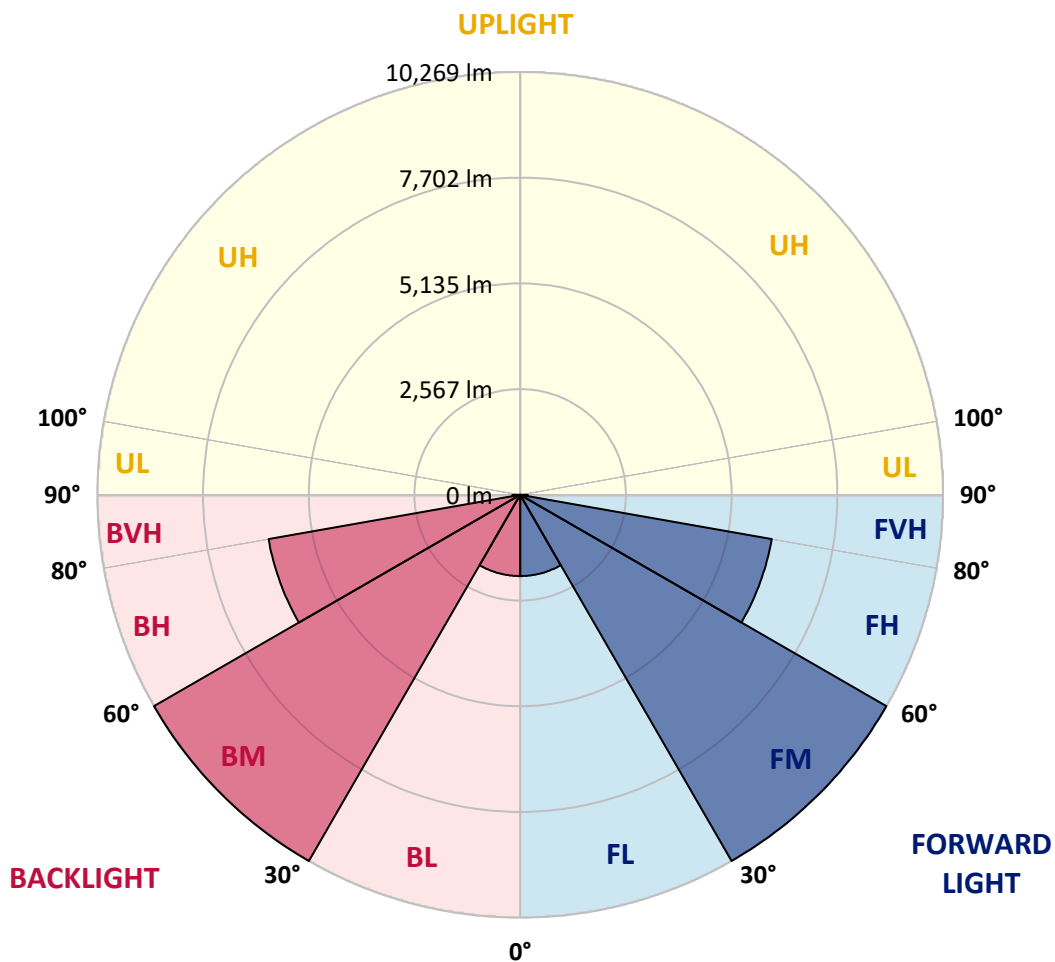
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1973.3	5.3			
FM	(30°-60°)	10269.4	27.6			
FH	(60°-80°)	6204.1	16.6			G3/7500
FVH	(80°-90°)	185.8	0.5			G2/225
BL	(0°-30°)	1973.3	5.3	B3/2500		
BM	(30°-60°)	10269.4	27.6	B5		
BH	(60°-80°)	6204.1	16.6	B5		G3/7500
BVH	(80°-90°)	185.8	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°	4133.6	4133.6	4133.6	4133.6	4133.6	4133.6	4133.6	4133.6	4133.6	4133.6	4133.6
2.5°	4126.5	4123.0	4126.5	4124.8	4128.3	4128.3	4131.8	4138.9	4138.9	4144.1	4142.4
5°	4086.0	4084.3	4089.5	4094.8	4100.1	4110.7	4121.3	4137.1	4149.4	4158.2	4167.0
7.5°	4006.8	4006.8	4013.8	4026.1	4038.5	4061.4	4086.0	4117.7	4149.4	4175.8	4198.7
10°	3941.6	3945.1	3953.9	3975.1	3996.2	4031.4	4064.9	4110.7	4154.7	4198.7	4234.0
12.5°	3902.9	3908.1	3924.0	3955.7	3990.9	4038.5	4089.5	4147.7	4197.0	4249.8	4285.0
15°	3915.2	3918.7	3941.6	3980.4	4026.1	4086.0	4154.7	4223.4	4281.5	4337.9	4385.4
17.5°	3983.9	3989.2	4015.6	4059.6	4107.2	4177.6	4251.6	4329.1	4401.3	4464.7	4522.8
20°	4107.2	4112.4	4145.9	4193.5	4249.8	4322.0	4396.0	4477.0	4558.0	4625.0	4690.1
22.5°	4281.5	4290.3	4322.0	4369.6	4433.0	4510.5	4598.5	4684.8	4762.3	4824.0	4882.1
25°	4510.5	4529.9	4559.8	4612.6	4679.6	4750.0	4845.1	4933.2	5007.1	5065.3	5107.5
27.5°	4834.5	4861.0	4883.9	4934.9	5000.1	5067.0	5162.1	5239.6	5310.1	5366.4	5398.1
30°	5264.3	5290.7	5313.6	5362.9	5422.8	5486.2	5576.0	5644.7	5688.7	5732.8	5731.0
32.5°	5785.6	5813.8	5822.6	5875.4	5937.1	6005.8	6086.8	6125.5	6160.7	6166.0	6134.3
35°	6368.6	6382.7	6417.9	6488.3	6558.8	6615.1	6692.6	6712.0	6712.0	6685.6	6615.1
37.5°	7007.9	7016.7	7066.0	7145.3	7217.5	7275.6	7328.4	7367.2	7347.8	7291.4	7173.4
40°	7708.9	7724.7	7795.2	7865.6	7946.6	8001.2	8057.6	8064.6	8045.2	7962.5	7802.2
42.5°	8378.1	8392.2	8462.7	8573.6	8679.3	8755.0	8807.9	8818.4	8756.8	8681.0	8482.0
45°	8954.0	8991.0	9082.6	9212.9	9366.2	9473.6	9545.8	9575.7	9521.1	9422.5	9191.8
47.5°	9410.2	9447.2	9577.5	9732.5	9922.7	10097.1	10216.8	10280.2	10266.1	10192.2	9940.3
50°	9744.8	9780.0	9920.9	10111.2	10333.1	10549.7	10754.0	10905.5	10958.3	10924.8	10694.1
52.5°	9783.6	9841.7	10007.2	10262.6	10551.5	10847.3	11137.9	11395.1	11569.4	11595.9	11425.0
55°	9242.9	9301.0	9530.0	9908.6	10338.4	10820.9	11285.9	11719.1	12062.6	12238.7	12148.9
57.5°	7967.8	8071.7	8313.0	8756.8	9389.1	10111.2	10852.6	11622.3	12321.5	12788.2	12878.0
60°	6106.1	6229.4	6472.5	6944.5	7649.0	8510.2	9500.0	10637.8	11872.4	12922.1	13549.1
62.5°	3917.0	4033.2	4288.6	4698.9	5273.1	6206.5	7268.5	8619.4	10278.5	11935.8	13429.3
65°	2013.1	2076.5	2210.3	2458.7	2906.0	3603.5	4556.3	5903.6	7800.4	9845.2	12004.5
67.5°	1275.1	1287.5	1317.4	1352.6	1467.1	1708.4	2152.2	2992.3	4552.8	6685.6	9212.9
70°	1102.5	1102.5	1088.4	1083.1	1097.2	1130.7	1199.4	1394.9	1921.5	3173.7	5313.6
72.5°	1009.2	998.6	974.0	954.6	951.1	951.1	965.1	995.1	1079.6	1292.7	2080.0
75°	929.9	900.0	866.5	843.6	834.8	826.0	824.3	829.5	847.1	880.6	993.3
77.5°	833.1	794.3	755.6	732.7	722.1	709.8	699.2	686.9	678.1	688.6	738.0
80°	716.8	672.8	642.8	628.8	618.2	600.6	577.7	556.5	537.2	533.6	563.6
82.5°	577.7	526.6	528.4	533.6	514.3	489.6	465.0	442.1	408.6	391.0	408.6
85°	466.7	440.3	428.0	461.4	433.3	396.3	357.5	317.0	264.2	221.9	241.3
87.5°	181.4	181.4	271.2	417.4	375.1	306.5	262.4	223.7	139.1	107.4	109.2
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°	4133.6	4133.6	4133.6	4133.6	4133.6	4133.6	4133.6	4133.6
2.5°	4140.6	4144.1	4142.4	4140.6	4140.6	4138.9	4140.6	4140.6
5°	4172.3	4181.1	4181.1	4184.7	4184.7	4186.4	4188.2	4186.4
7.5°	4219.9	4235.7	4246.3	4258.6	4260.4	4262.1	4265.7	4262.1
10°	4267.4	4299.1	4322.0	4344.9	4355.5	4359.0	4362.5	4362.5
12.5°	4327.3	4371.3	4411.9	4452.4	4471.7	4482.3	4482.3	4489.3
15°	4425.9	4470.0	4517.5	4572.1	4605.6	4623.2	4628.5	4628.5
17.5°	4565.1	4603.8	4644.3	4697.2	4739.4	4762.3	4767.6	4765.9
20°	4727.1	4764.1	4787.0	4820.5	4857.4	4883.9	4890.9	4890.9
22.5°	4912.0	4933.2	4936.7	4947.3	4977.2	5012.4	5028.3	5031.8
25°	5116.3	5121.6	5107.5	5107.5	5126.9	5160.4	5176.2	5178.0
27.5°	5380.5	5354.1	5318.9	5306.6	5318.9	5357.6	5377.0	5384.0
30°	5709.9	5646.5	5565.5	5521.4	5514.4	5565.5	5600.7	5606.0
32.5°	6086.8	5995.2	5887.8	5797.9	5775.0	5806.7	5849.0	5847.2
35°	6534.1	6424.9	6294.6	6180.1	6127.3	6159.0	6218.9	6225.9
37.5°	7050.2	6907.5	6757.8	6613.4	6530.6	6539.4	6602.8	6623.9
40°	7626.1	7441.1	7252.7	7059.0	6941.0	6918.1	6995.6	7007.9
42.5°	8242.5	8004.7	7767.0	7527.4	7376.0	7340.8	7430.6	7425.3
45°	8899.4	8596.5	8318.2	8054.1	7874.4	7821.6	7895.5	7895.5
47.5°	9605.7	9232.3	8901.2	8601.8	8406.3	8330.6	8401.0	8406.3
50°	10354.2	9957.9	9568.7	9235.8	9001.6	8904.7	8996.3	9010.4
52.5°	11099.2	10713.5	10320.7	9940.3	9656.8	9538.8	9644.4	9690.2
55°	11854.8	11476.1	11101.0	10729.3	10393.0	10253.8	10366.5	10424.7
57.5°	12652.6	12302.1	11944.6	11569.4	11245.4	11028.8	11148.5	11226.0
60°	13587.8	13288.4	12916.8	12502.9	12175.3	11955.2	12023.8	12092.5
62.5°	14327.5	14443.8	14128.5	13649.4	13228.5	12946.7	13013.6	13085.9
65°	13970.0	15162.3	15442.4	14958.0	14375.1	13936.5	13908.3	13945.3
67.5°	11676.9	13992.9	15681.9	16143.3	15655.5	15046.1	14933.4	14988.0
70°	7811.0	10695.9	13675.9	15895.0	16485.0	16249.0	16138.0	16171.5
72.5°	3751.4	6229.4	9278.1	12228.1	14024.6	14848.8	15113.0	15241.6
75°	1372.0	2472.8	4471.7	6738.4	8135.1	9417.2	10253.8	10595.5
77.5°	827.8	998.6	1428.3	2150.4	2435.8	2726.4	2613.6	2670.0
80°	612.9	692.2	783.7	880.6	912.3	912.3	877.1	848.9
82.5°	429.7	480.8	524.8	577.7	591.8	565.4	465.0	369.9
85°	276.5	299.4	318.8	352.2	343.4	327.6	220.2	195.5
87.5°	126.8	144.4	151.5	167.3	160.3	153.2	109.2	91.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)