

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: P192638

Luminaire Tested: **GAN-AF-10-LED-U-5WQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192638
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-10-LED-U-5WQ-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60020.5 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G5

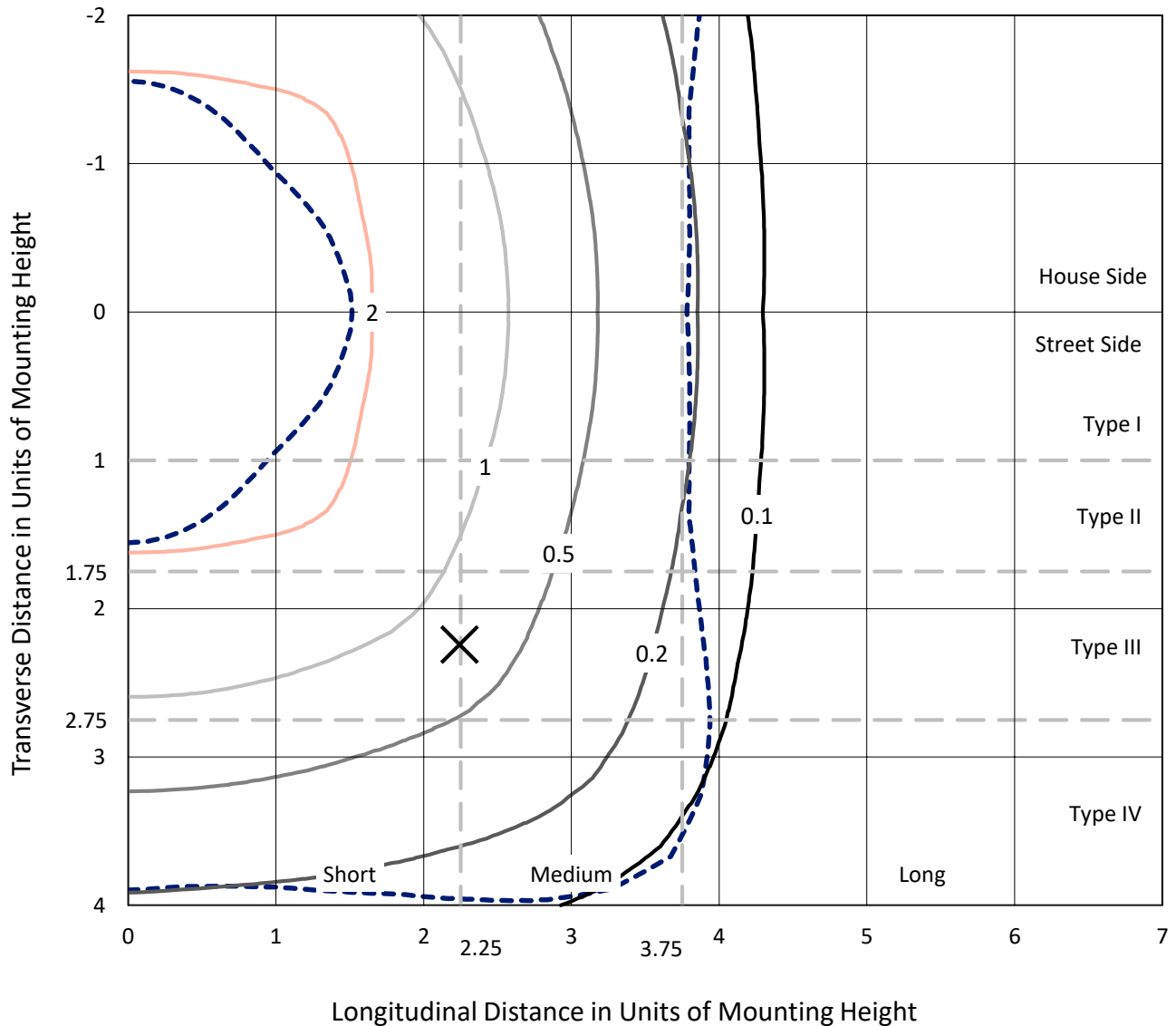
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

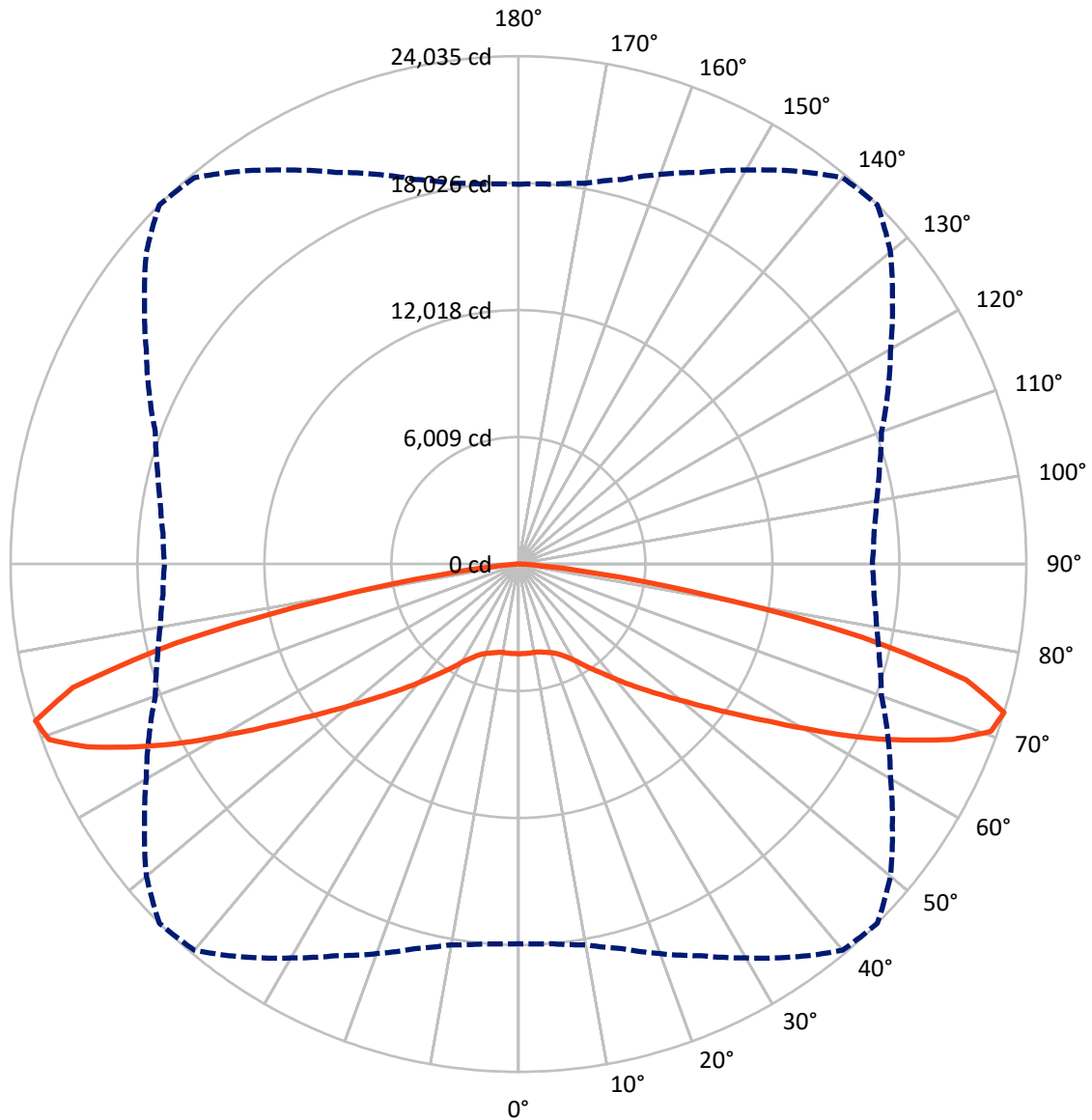
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	30010.3	0.0	30010.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	30010.3	0.0	30010.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	60020.5	0.0	60020.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.9	0.7
10°-20°	1232.6	2.1
20°-30°	2252.6	3.8
30°-40°	3883.8	6.5
40°-50°	6639.3	11.1
50°-60°	10761.5	17.9
60°-70°	17852.9	29.7
70°-80°	15724.2	26.2
80°-90°	1267.8	2.1
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°	60020.5	100.0
0°-180°	60020.5	100.0



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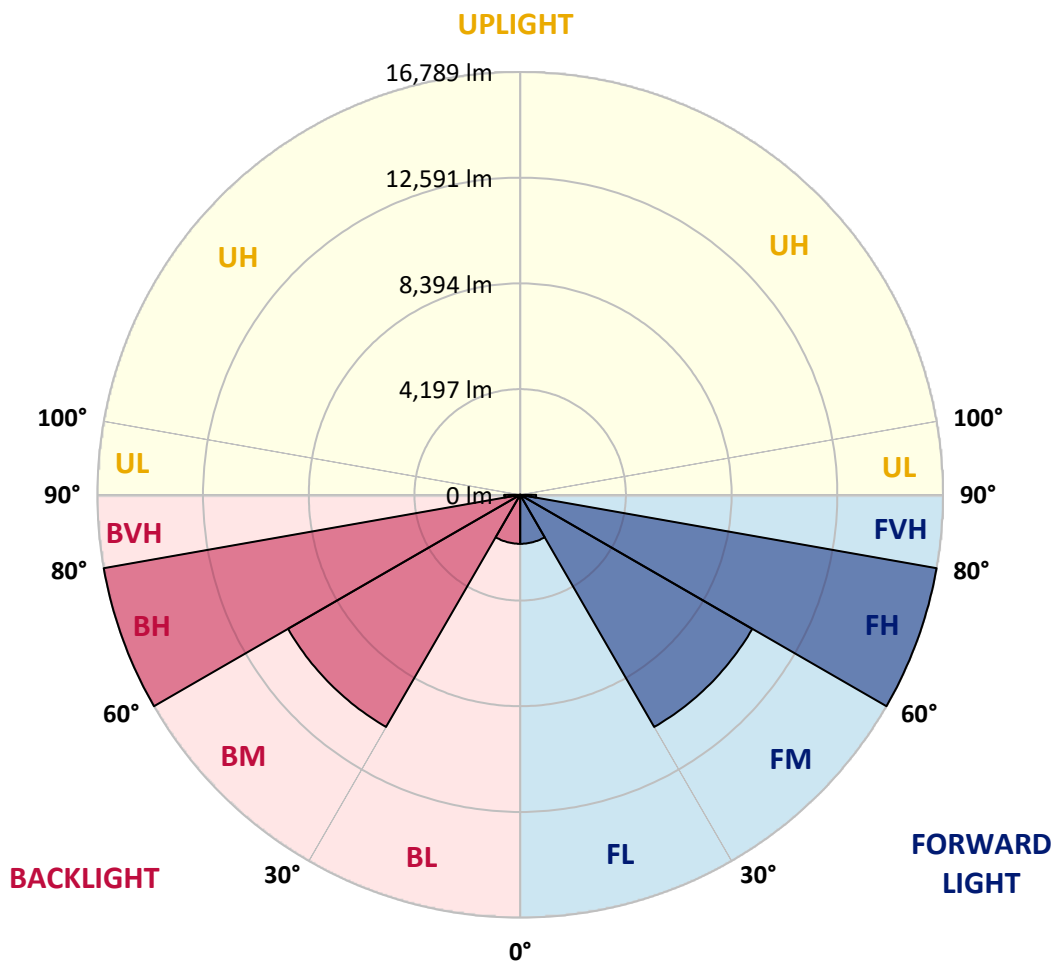
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1945.5	3.2			
FM	(30°-60°)	10642.3	17.7			
FH	(60°-80°)	16788.5	28.0			G5
FVH	(80°-90°)	633.9	1.1			G4/750
BL	(0°-30°)	1945.5	3.2	B3/2500		
BM	(30°-60°)	10642.3	17.7	B5		
BH	(60°-80°)	16788.5	28.0	B5		G5
BVH	(80°-90°)	633.9	1.1			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4250.4	4250.4	4250.4	4250.4	4250.4	4250.4	4250.4	4250.4	4250.4	4250.4	4250.4
2.5°	4250.4	4253.1	4255.8	4253.1	4253.1	4250.4	4247.7	4250.4	4247.7	4242.1	4244.8
5°	4264.2	4269.7	4269.7	4264.2	4266.9	4264.2	4258.6	4261.4	4255.8	4247.7	4247.7
7.5°	4280.7	4283.4	4283.4	4277.9	4280.7	4275.2	4269.7	4266.9	4261.4	4250.4	4242.1
10°	4305.5	4308.2	4305.5	4299.9	4299.9	4291.7	4277.9	4272.4	4261.4	4244.8	4236.6
12.5°	4333.0	4335.7	4333.0	4327.4	4324.7	4311.0	4299.9	4291.7	4283.4	4269.7	4255.8
15°	4371.5	4377.0	4371.5	4360.5	4352.3	4341.2	4335.7	4338.4	4341.2	4330.2	4316.4
17.5°	4443.0	4445.9	4437.6	4412.8	4401.8	4390.8	4390.8	4396.3	4404.6	4399.0	4385.2
20°	4575.2	4566.9	4547.7	4517.5	4503.6	4484.3	4481.6	4484.3	4484.3	4481.6	4470.6
22.5°	4740.4	4734.9	4710.0	4671.6	4652.3	4641.4	4624.7	4611.0	4608.2	4600.1	4589.0
25°	4938.6	4935.8	4905.5	4872.5	4858.8	4845.0	4831.2	4812.0	4795.5	4776.2	4765.2
27.5°	5191.9	5180.8	5136.9	5120.3	5101.0	5092.8	5073.5	5051.5	5037.7	5013.0	4999.1
30°	5469.8	5469.8	5434.1	5428.5	5428.5	5409.3	5387.3	5348.8	5323.9	5299.2	5291.0
32.5°	5747.9	5750.7	5715.0	5725.9	5734.2	5747.9	5753.5	5739.7	5723.1	5720.4	5703.9
35°	6149.8	6138.8	6103.0	6111.3	6108.5	6105.9	6105.9	6136.1	6141.6	6147.0	6114.0
37.5°	6648.1	6648.1	6612.4	6612.4	6595.8	6579.3	6557.3	6576.6	6606.8	6615.1	6593.0
40°	7218.0	7237.3	7193.2	7190.5	7196.0	7143.6	7118.8	7149.2	7168.4	7201.4	7176.7
42.5°	7889.6	7875.9	7831.8	7826.4	7796.0	7779.5	7757.5	7782.3	7812.6	7834.6	7842.8
45°	8533.8	8522.8	8473.3	8473.3	8443.0	8429.3	8440.2	8481.5	8495.2	8525.5	8555.9
47.5°	9169.7	9155.9	9122.9	9136.7	9139.4	9164.2	9199.9	9238.5	9277.1	9318.4	9332.2
50°	9819.3	9822.1	9786.4	9819.3	9860.6	9929.5	10025.8	10089.1	10169.0	10221.3	10237.8
52.5°	10411.2	10422.2	10460.8	10537.8	10620.4	10755.4	10920.5	11074.6	11206.8	11294.9	11289.4
55°	11121.5	11138.0	11231.7	11363.7	11498.6	11702.3	11947.3	12219.9	12440.0	12566.7	12486.9
57.5°	12029.9	12065.7	12170.3	12349.2	12550.2	12814.5	13150.3	13560.5	13901.8	14072.5	13943.1
60°	13276.9	13298.9	13425.6	13623.7	13866.1	14193.7	14642.4	15192.9	15674.7	15900.4	15751.7
62.5°	14920.3	14961.6	15063.6	15264.5	15512.2	15883.9	16431.7	17120.0	17720.0	18033.9	17698.1
65°	16883.2	17015.3	17100.6	17304.4	17535.6	17929.2	18501.9	19239.6	19883.8	20090.3	19702.0
67.5°	18826.7	18942.3	19091.0	19324.9	19558.9	20002.1	20533.4	21249.2	21956.6	22143.8	21541.0
70°	19677.3	19743.3	19974.6	20294.0	20742.7	21265.6	21879.6	22683.5	23558.8	23713.0	22947.6
72.5°	17973.2	18039.4	18298.0	18840.4	19622.2	20453.6	21524.4	22705.3	23861.5	24035.1	22980.7
75°	13593.5	13486.2	13868.9	14587.3	15641.7	16800.6	18298.0	19991.1	21662.1	21879.6	20621.5
77.5°	7025.3	7011.5	7300.4	8192.5	9450.5	10769.1	12418.1	14331.3	15966.5	16627.2	15603.1
80°	1979.3	2001.3	2139.0	2582.2	3317.2	4269.7	5558.0	7350.1	8688.0	9370.6	8798.1
82.5°	776.3	836.8	889.2	971.8	1068.1	1208.5	1613.2	2400.4	3220.9	3848.4	3152.0
85°	278.1	297.3	421.2	498.2	506.5	534.1	608.3	710.1	856.1	1021.3	839.6
87.5°	104.6	115.6	134.9	223.0	220.2	200.9	245.0	256.0	192.8	176.2	217.4
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°	4250.4	4250.4	4250.4	4250.4	4250.4	4250.4	4250.4	4250.4
2.5°	4239.4	4242.1	4242.1	4244.8	4247.7	4247.7	4253.1	4253.1
5°	4242.1	4242.1	4236.6	4239.4	4236.6	4236.6	4239.4	4239.4
7.5°	4236.6	4233.9	4228.4	4225.6	4220.1	4220.1	4220.1	4220.1
10°	4228.4	4225.6	4220.1	4217.3	4214.5	4214.5	4214.5	4214.5
12.5°	4250.4	4242.1	4236.6	4233.9	4233.9	4233.9	4233.9	4233.9
15°	4308.2	4289.0	4275.2	4275.2	4277.9	4283.4	4283.4	4289.0
17.5°	4379.7	4357.7	4343.9	4333.0	4338.4	4346.8	4352.3	4357.7
20°	4465.1	4454.1	4434.9	4423.8	4423.8	4434.9	4440.3	4443.0
22.5°	4583.4	4575.2	4566.9	4553.2	4553.2	4558.8	4569.7	4569.7
25°	4759.7	4754.2	4748.6	4737.6	4734.9	4734.9	4740.4	4745.9
27.5°	4979.9	4982.7	4977.1	4974.3	4966.2	4963.3	4971.7	4968.9
30°	5274.5	5288.1	5302.0	5291.0	5277.2	5268.9	5260.8	5249.7
32.5°	5673.7	5657.1	5646.1	5626.9	5602.0	5580.0	5563.5	5544.3
35°	6050.8	6023.3	6012.2	6028.7	6025.9	6012.2	5993.0	5976.4
37.5°	6513.2	6507.7	6513.2	6543.5	6538.0	6551.7	6513.2	6510.4
40°	7096.8	7102.3	7140.8	7176.7	7196.0	7215.2	7193.2	7171.1
42.5°	7774.1	7771.3	7785.0	7834.6	7867.6	7889.6	7842.8	7837.3
45°	8489.8	8470.5	8481.5	8522.8	8555.9	8580.5	8528.3	8528.3
47.5°	9277.1	9244.0	9208.3	9255.1	9274.4	9290.9	9249.6	9235.8
50°	10155.2	10086.4	10009.4	10028.6	10028.6	10023.1	9970.8	9968.0
52.5°	11162.8	11036.2	10895.8	10843.4	10813.2	10780.1	10689.3	10645.2
55°	12321.7	12131.7	11911.6	11776.6	11705.1	11614.3	11462.8	11421.5
57.5°	13676.1	13378.8	12998.9	12833.7	12674.1	12525.4	12357.4	12310.7
60°	15281.0	14843.3	14339.5	14034.1	13860.5	13717.4	13544.0	13535.7
62.5°	17070.3	16379.4	15809.6	15534.3	15407.6	15281.0	15115.8	15137.9
65°	18890.0	18168.7	17634.7	17411.7	17293.3	17188.7	17023.5	17048.4
67.5°	20684.9	20021.4	19435.0	19206.5	19074.4	18942.3	18793.5	18818.4
70°	21973.1	21150.1	20489.4	19982.9	19666.2	19308.4	19077.2	19019.5
72.5°	21604.3	20335.3	19286.3	18281.6	17692.5	17213.5	16888.6	16748.3
75°	18697.3	16962.9	15614.1	14380.8	13687.1	13122.8	12712.7	12456.6
77.5°	13885.3	11936.3	10342.4	8922.0	7798.8	7044.5	6513.2	6169.1
80°	7600.6	5780.9	4225.6	2970.3	2183.0	1814.1	1602.2	1500.3
82.5°	2367.4	1527.8	1125.9	971.8	902.9	864.4	801.1	699.3
85°	754.3	660.7	613.9	586.4	558.9	487.3	335.9	305.6
87.5°	291.8	300.0	297.3	280.8	286.3	206.5	165.2	145.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)