

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: P192604

Luminaire Tested: **GAN-AF-06-LED-U-5NQ-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192604
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-06-LED-U-5NQ-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 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: 38961.9 lumens
Efficiency: N/A
Efficacy: 102.0 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 - G3

Input Watts (W): 382
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

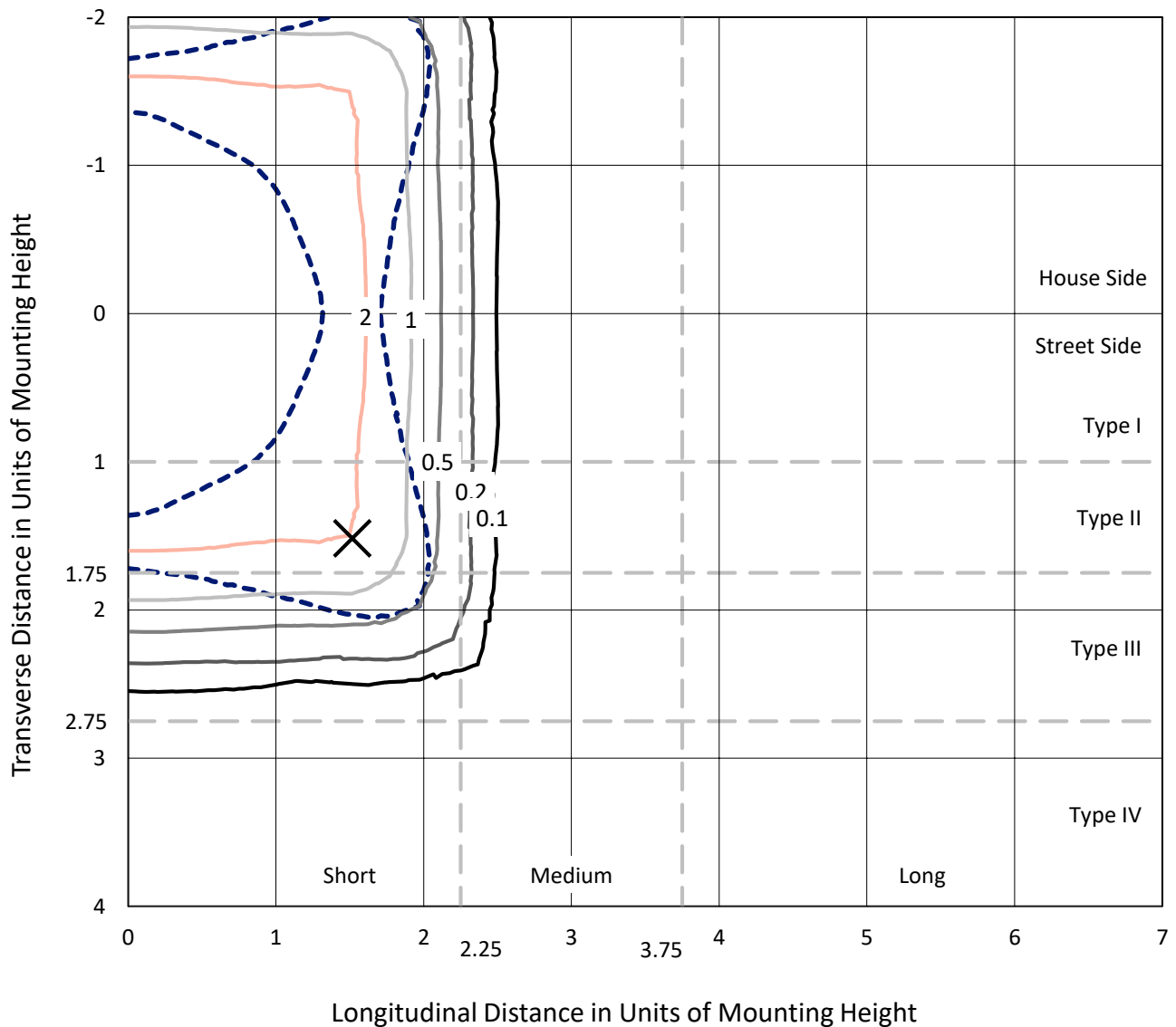


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Iso-Footcandle Lines of Horizontal Illumination

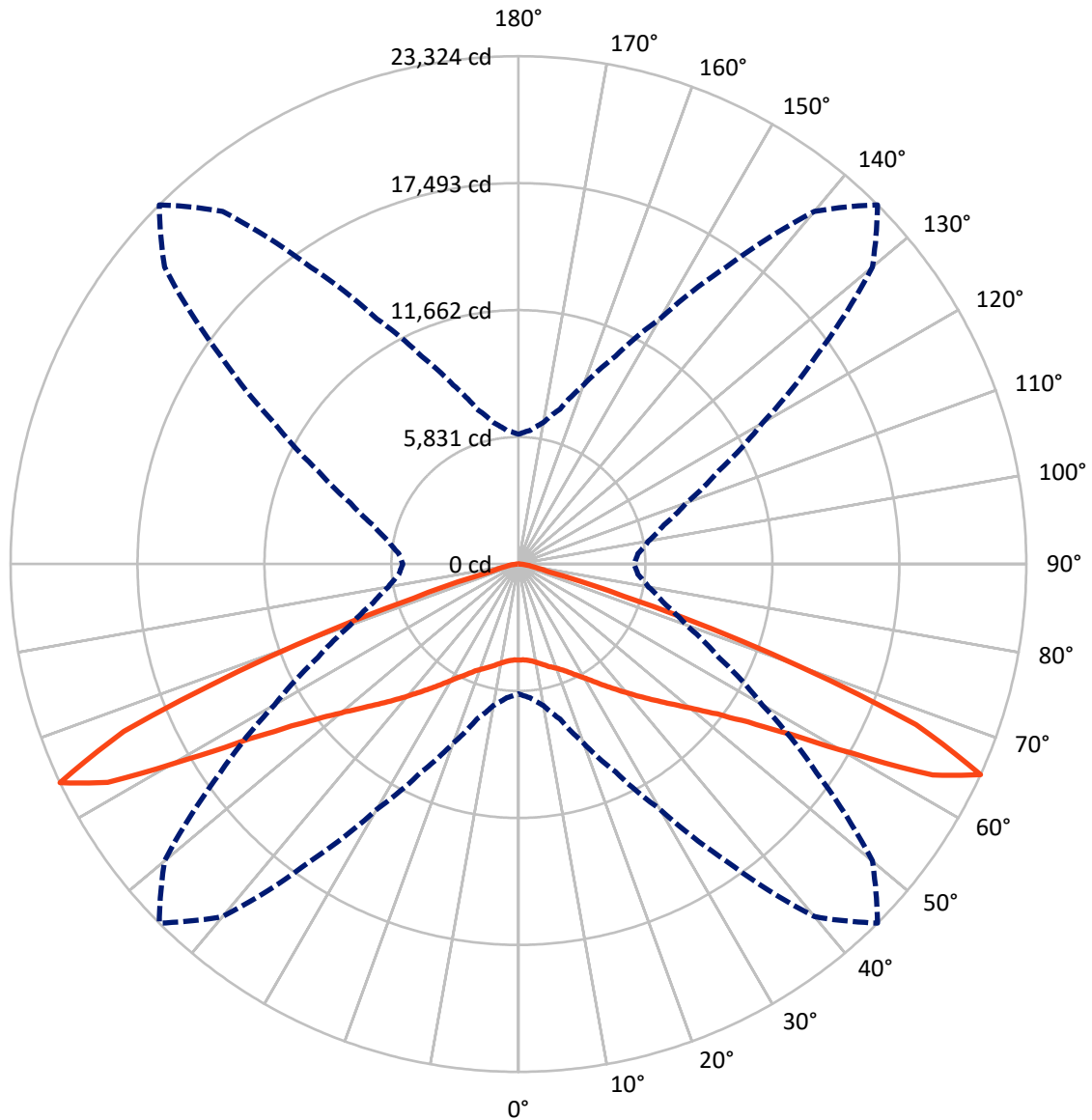
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.9 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	19480.9	0.0	19480.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19480.9	0.0	19480.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	38961.9	0.0	38961.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.7	1.1
10°-20°	1378.1	3.5
20°-30°	2576.8	6.6
30°-40°	4358.1	11.2
40°-50°	7125.9	18.3
50°-60°	11331.3	29.1
60°-70°	10242.7	26.3
70°-80°	1296.3	3.3
80°-90°	223.0	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°	38961.9	100.0
0°-180°	38961.9	100.0



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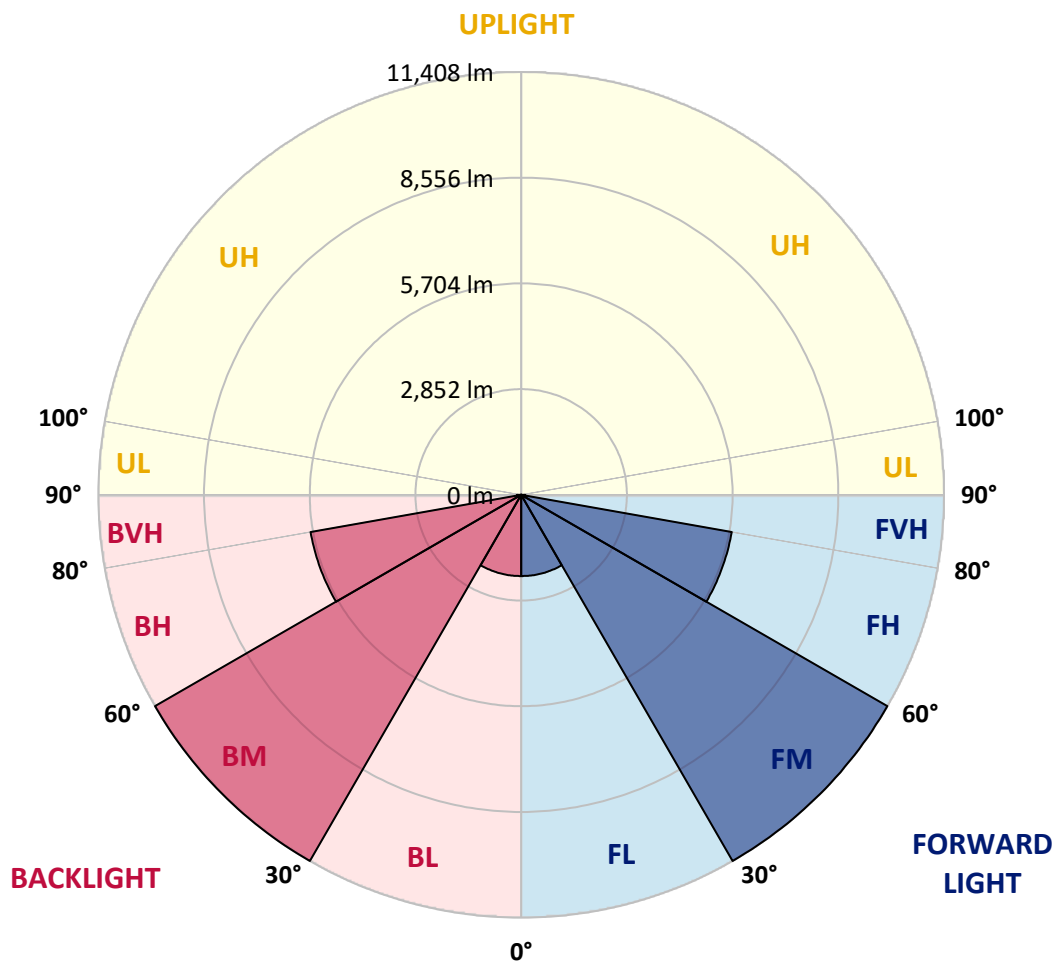
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2192.3	5.6			
FM	(30°-60°)	11407.6	29.3			
FH	(60°-80°)	5769.5	14.8			G3/7500
FVH	(80°-90°)	111.5	0.3			G2/225
BL	(0°-30°)	2192.3	5.6	B3/2500		
BM	(30°-60°)	11407.6	29.3	B5		
BH	(60°-80°)	5769.5	14.8	B5		G3/7500
BVH	(80°-90°)	111.5	0.3			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4408.5	4408.5	4408.5	4408.5	4408.5	4408.5	4408.5	4408.5	4408.5	4408.5	4408.5
2.5°	4412.2	4415.8	4419.5	4415.8	4419.5	4414.1	4410.4	4415.8	4410.4	4404.9	4408.5
5°	4450.5	4452.4	4452.4	4446.9	4452.4	4448.7	4443.2	4450.5	4445.1	4439.5	4443.2
7.5°	4514.4	4521.7	4516.2	4510.8	4514.4	4510.8	4507.1	4508.9	4507.1	4501.6	4503.4
10°	4600.2	4605.6	4602.0	4600.2	4603.7	4602.0	4598.2	4596.5	4598.2	4592.8	4592.8
12.5°	4704.1	4702.3	4700.6	4702.3	4707.8	4707.8	4706.1	4707.8	4711.5	4713.3	4709.6
15°	4806.4	4810.0	4810.0	4810.0	4820.9	4830.1	4835.6	4839.2	4846.5	4848.3	4841.1
17.5°	4934.0	4934.0	4932.3	4934.0	4945.1	4959.6	4965.1	4972.4	4979.7	4985.2	4976.0
20°	5076.4	5080.0	5080.0	5083.8	5098.2	5114.8	5114.8	5118.4	5114.8	5118.4	5112.9
22.5°	5249.8	5260.8	5260.8	5262.6	5277.1	5297.2	5291.8	5297.2	5288.0	5295.4	5288.0
25°	5476.1	5492.5	5488.7	5488.7	5499.8	5512.5	5514.4	5525.2	5523.5	5532.6	5527.1
27.5°	5731.5	5757.0	5764.3	5762.6	5769.8	5782.5	5786.3	5799.1	5791.8	5799.1	5795.3
30°	6038.0	6049.0	6063.6	6069.1	6078.2	6090.9	6090.9	6092.8	6083.7	6094.6	6100.1
32.5°	6355.5	6375.6	6390.2	6423.1	6439.5	6448.6	6446.8	6450.4	6441.3	6455.9	6466.8
35°	6775.2	6789.8	6813.5	6839.1	6861.1	6859.2	6853.8	6855.5	6855.5	6868.2	6879.3
37.5°	7280.7	7284.4	7315.4	7351.8	7362.8	7351.8	7318.9	7311.7	7295.2	7311.7	7329.9
40°	7815.4	7828.1	7890.1	7913.8	7919.3	7899.2	7851.8	7824.5	7788.0	7808.0	7833.6
42.5°	8375.5	8401.1	8457.6	8499.6	8517.9	8505.1	8439.4	8397.4	8350.0	8360.9	8386.5
45°	8996.0	9027.0	9107.2	9147.4	9182.0	9161.9	9098.1	9034.2	8959.5	8964.9	9005.0
47.5°	9689.3	9720.4	9824.4	9891.9	9910.2	9906.4	9835.3	9747.7	9645.5	9641.9	9676.5
50°	10466.7	10497.7	10627.2	10731.2	10784.2	10778.7	10694.8	10570.8	10446.6	10448.5	10492.1
52.5°	11225.8	11264.1	11399.1	11577.8	11681.9	11756.8	11705.7	11588.9	11437.5	11441.1	11481.2
55°	11937.4	12001.2	12156.4	12399.1	12592.4	12802.4	12862.5	12858.9	12767.7	12793.1	12833.4
57.5°	12282.3	12377.2	12616.1	12999.4	13393.5	13820.5	14181.9	14451.8	14566.9	14740.1	14700.1
60°	11629.0	11780.5	12132.7	12696.5	13475.6	14366.2	15320.5	16252.9	17048.5	17648.8	17303.9
62.5°	9521.5	9718.5	10145.5	10868.1	12046.9	13472.0	15298.6	17502.8	19904.2	21353.0	20318.4
65°	5957.8	6162.1	6596.4	7370.1	8749.6	10521.4	12999.4	16652.5	21139.5	23323.7	21218.0
67.5°	2322.9	2434.2	2669.5	3164.0	4200.6	5777.1	8264.3	12410.0	17776.6	19690.7	17446.3
70°	1164.1	1175.1	1218.9	1310.1	1532.8	1990.8	3029.1	5753.4	10194.8	12313.3	9828.0
72.5°	841.2	843.1	864.9	905.1	976.2	1078.4	1275.5	1760.8	3315.6	5067.3	3107.6
75°	644.1	651.4	664.2	686.1	724.4	775.5	846.6	1014.6	1257.2	1457.9	1226.2
77.5°	496.4	510.9	520.1	540.1	563.9	598.5	618.6	682.5	793.8	835.8	822.9
80°	377.7	390.5	410.6	426.9	443.4	459.9	452.6	481.8	540.1	574.8	556.5
82.5°	240.9	255.4	313.9	328.5	335.8	346.7	333.9	335.8	361.3	383.2	361.3
85°	155.1	164.2	198.9	217.1	218.9	226.2	220.8	208.0	208.0	189.8	213.5
87.5°	71.1	72.9	89.4	105.9	109.5	98.6	96.7	93.1	74.9	71.1	76.6
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°	4408.5	4408.5	4408.5	4408.5	4408.5	4408.5	4408.5	4408.5
2.5°	4406.8	4410.4	4412.2	4417.7	4419.5	4419.5	4421.2	4425.0
5°	4441.4	4446.9	4448.7	4456.0	4457.8	4456.0	4459.6	4461.5
7.5°	4503.4	4512.5	4516.2	4523.6	4518.1	4525.3	4527.1	4527.1
10°	4594.7	4603.7	4605.6	4612.9	4609.3	4612.9	4612.9	4609.3
12.5°	4715.1	4716.9	4711.5	4716.9	4709.6	4713.3	4707.8	4704.1
15°	4848.3	4842.8	4830.1	4830.1	4819.1	4820.9	4819.1	4817.2
17.5°	4977.9	4966.9	4957.7	4954.2	4945.1	4943.2	4937.8	4937.8
20°	5120.2	5114.8	5109.3	5102.0	5092.8	5083.8	5081.8	5085.6
22.5°	5291.8	5289.9	5289.9	5286.3	5273.5	5264.3	5258.8	5258.8
25°	5521.6	5505.2	5505.2	5503.4	5497.9	5492.5	5481.5	5487.0
27.5°	5780.8	5771.6	5778.9	5777.1	5771.6	5771.6	5764.3	5764.3
30°	6100.1	6096.4	6107.4	6098.3	6080.1	6078.2	6070.9	6061.8
32.5°	6468.7	6465.0	6481.5	6470.6	6441.3	6424.9	6410.2	6403.0
35°	6879.3	6881.0	6901.2	6893.8	6861.1	6850.0	6824.6	6820.8
37.5°	7328.1	7357.3	7392.1	7399.2	7371.9	7364.6	7337.2	7322.7
40°	7855.5	7893.8	7946.8	7959.5	7930.2	7924.8	7886.5	7866.4
42.5°	8417.5	8483.2	8548.9	8559.8	8530.6	8501.5	8465.0	8450.3
45°	9045.2	9123.7	9209.5	9231.4	9187.5	9152.8	9105.4	9105.4
47.5°	9749.5	9848.1	9944.8	10005.0	9964.9	9928.4	9871.8	9835.3
50°	10581.6	10716.7	10842.6	10904.6	10840.7	10771.5	10672.9	10640.0
52.5°	11625.4	11771.4	11880.9	11848.0	11749.4	11652.7	11545.1	11501.2
55°	12957.4	13006.7	13006.7	12882.6	12685.5	12523.2	12353.4	12296.9
57.5°	14623.4	14433.5	14141.7	13771.2	13305.9	12900.9	12627.2	12497.6
60°	16581.3	15669.0	14638.0	13625.2	12793.1	12107.1	11700.1	11514.1
62.5°	17886.1	15499.3	13433.7	11807.8	10610.8	9784.1	9222.2	9003.2
65°	16716.3	12926.4	10160.1	8214.9	6910.2	6069.1	5512.5	5308.2
67.5°	12243.9	8099.9	5410.3	3877.6	2841.1	2266.4	2038.2	1943.4
70°	5496.1	2852.1	1748.1	1364.8	1176.9	1080.2	1038.3	1023.6
72.5°	1656.8	1198.9	1010.8	912.4	837.6	790.2	755.4	751.8
75°	999.9	832.1	739.0	680.5	633.1	594.9	576.6	571.1
77.5°	698.8	611.3	567.5	525.5	489.1	459.9	443.4	430.6
80°	490.9	448.8	428.9	405.2	381.4	354.0	330.3	319.4
82.5°	328.5	319.4	319.4	304.8	284.6	259.2	211.6	200.7
85°	211.6	209.9	213.5	208.0	193.4	166.1	136.9	129.6
87.5°	98.6	100.4	111.3	109.5	105.9	87.6	69.4	65.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)