

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: P193565

Luminaire Tested: **GAN-AF-07-LED-U-RW-8030-1200-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193565
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-8030-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38524 lumens
Efficiency: N/A
Efficacy: 86.0 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): 448
Input Voltage (V): NR
Input Current (A_{in}): 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

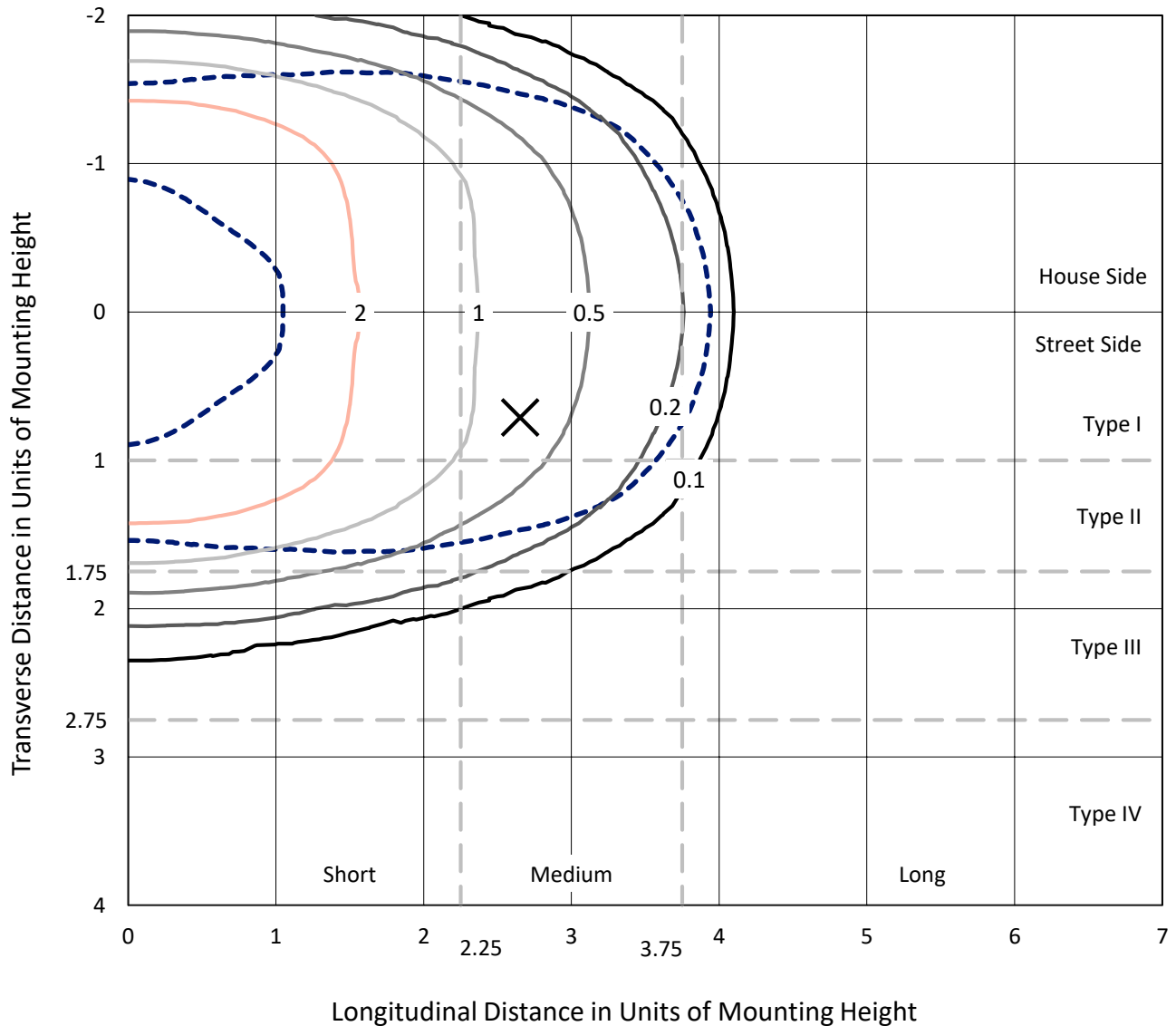


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

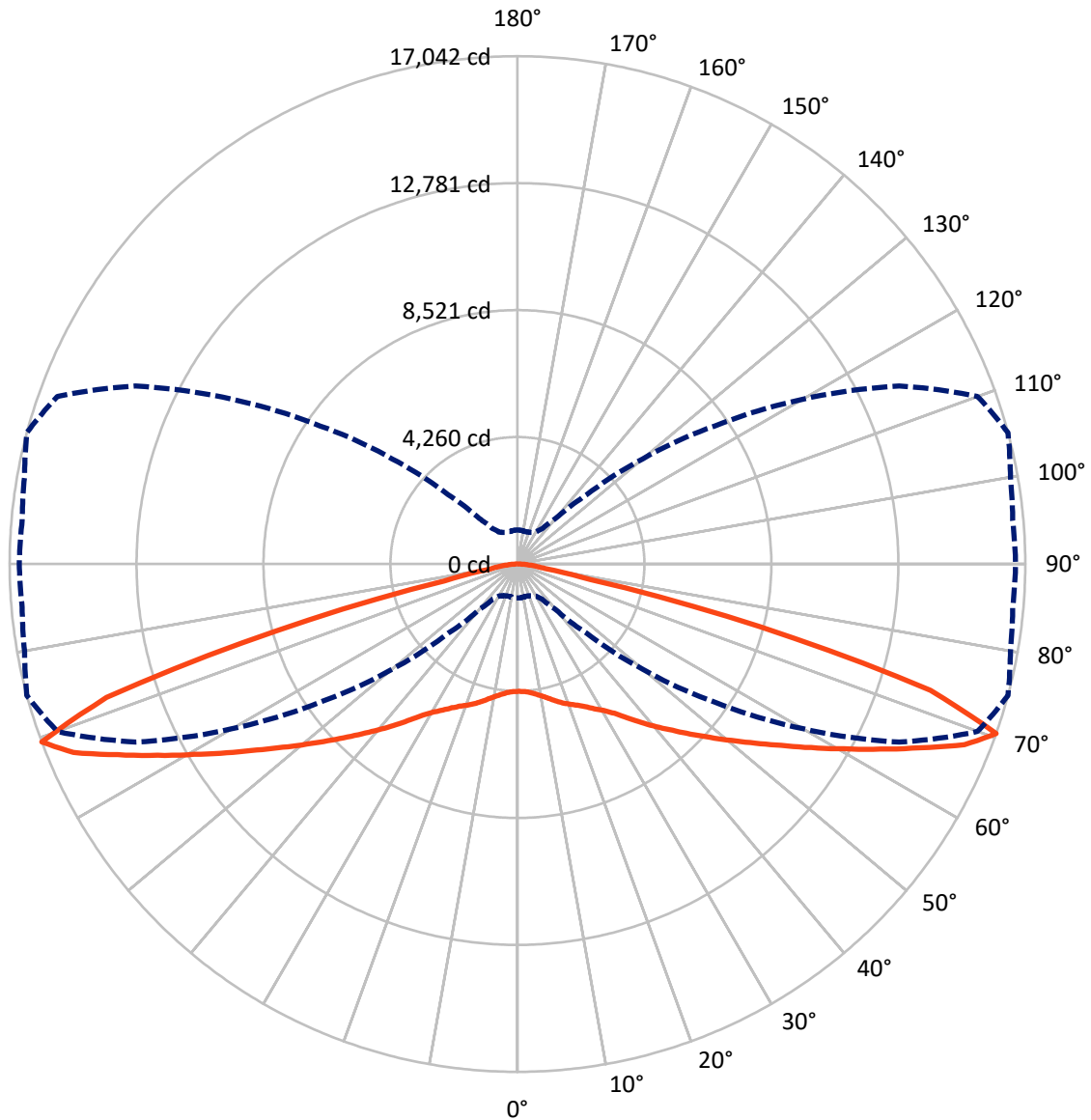


Based on 30 foot mounting height. Maximum calculated value = 4.8 fc
 Type V - Medium - Full Cutoff

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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	19262.0	0.0	19262.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19262.0	0.0	19262.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	38524.0	0.0	38524.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.8	1.1
10°-20°	1273.4	3.3
20°-30°	2396.8	6.2
30°-40°	4244.2	11.0
40°-50°	7097.7	18.4
50°-60°	9890.6	25.7
60°-70°	9172.0	23.8
70°-80°	3655.3	9.5
80°-90°	384.2	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°	38524.0	100.0
0°-180°	38524.0	100.0



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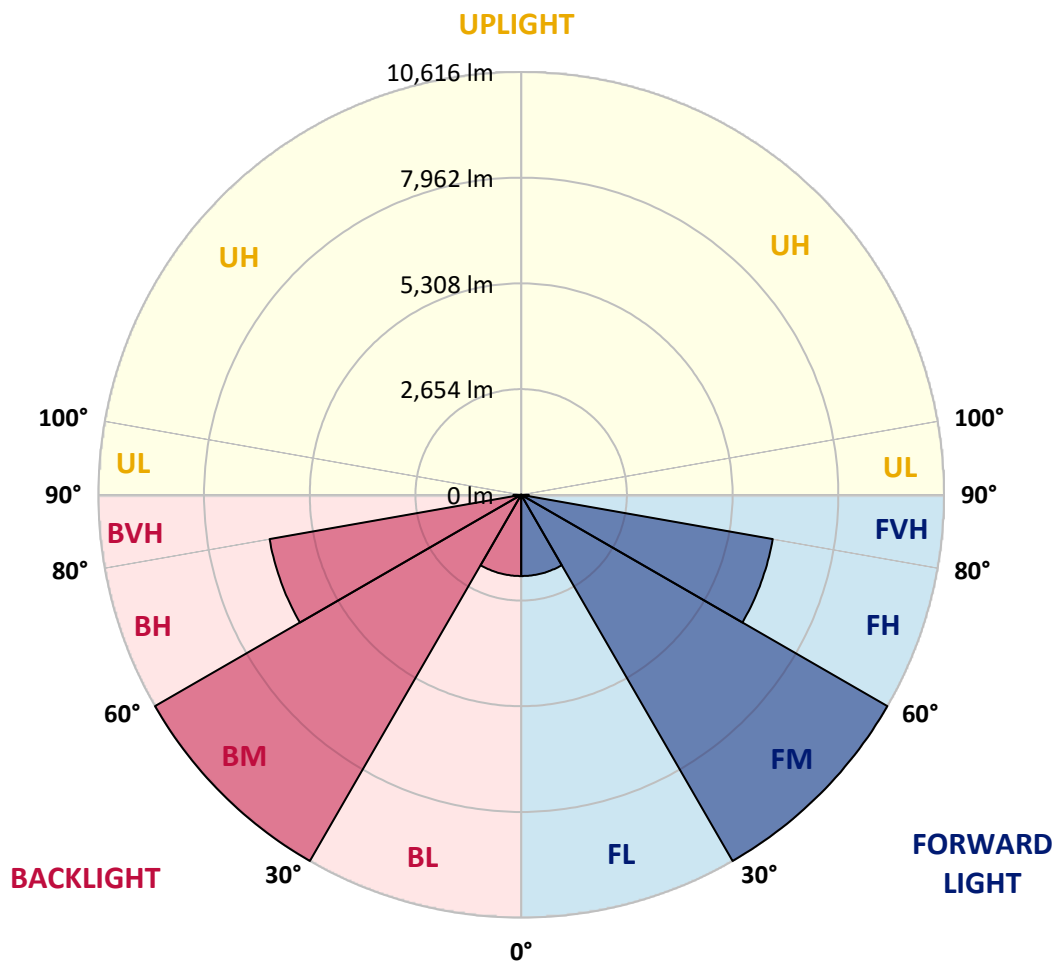
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2040.0	5.3			
FM	(30°-60°)	10616.3	27.6			
FH	(60°-80°)	6413.6	16.6			G3/7500
FVH	(80°-90°)	192.1	0.5			G2/225
BL	(0°-30°)	2040.0	5.3	B3/2500		
BM	(30°-60°)	10616.3	27.6	B5		
BH	(60°-80°)	6413.6	16.6	B5		G3/7500
BVH	(80°-90°)	192.1	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°	4273.2	4273.2	4273.2	4273.2	4273.2	4273.2	4273.2	4273.2	4273.2	4273.2	4273.2
2.5°	4265.9	4262.3	4265.9	4264.1	4267.7	4267.7	4271.4	4278.7	4278.7	4284.1	4282.3
5°	4224.1	4222.2	4227.7	4233.2	4238.6	4249.5	4260.5	4276.9	4289.6	4298.7	4307.8
7.5°	4142.1	4142.1	4149.4	4162.1	4174.9	4198.6	4224.1	4256.8	4289.6	4316.9	4340.6
10°	4074.8	4078.4	4087.5	4109.3	4131.2	4167.6	4202.2	4249.5	4295.1	4340.6	4377.0
12.5°	4034.7	4040.2	4056.5	4089.3	4125.7	4174.9	4227.7	4287.8	4338.8	4393.4	4429.8
15°	4047.4	4051.1	4074.8	4114.8	4162.1	4224.1	4295.1	4366.1	4426.1	4484.4	4533.6
17.5°	4118.4	4123.9	4151.2	4196.7	4245.9	4318.7	4395.2	4475.3	4550.0	4615.5	4675.6
20°	4245.9	4251.4	4286.0	4335.1	4393.4	4468.0	4544.5	4628.2	4712.0	4781.2	4848.6
22.5°	4426.1	4435.3	4468.0	4517.2	4582.7	4662.8	4753.9	4843.1	4923.2	4986.9	5047.0
25°	4662.8	4682.9	4713.8	4768.4	4837.6	4910.5	5008.8	5099.8	5176.3	5236.4	5280.1
27.5°	4997.9	5025.2	5048.8	5101.6	5169.0	5238.2	5336.5	5416.6	5489.4	5547.7	5580.5
30°	5442.1	5469.4	5493.1	5544.1	5606.0	5671.5	5764.4	5835.4	5880.9	5926.4	5924.6
32.5°	5981.0	6010.2	6019.3	6073.9	6137.6	6208.6	6292.4	6332.4	6368.8	6374.3	6341.5
35°	6583.7	6598.3	6634.7	6707.5	6780.3	6838.6	6918.7	6938.7	6938.7	6911.4	6838.6
37.5°	7244.6	7253.7	7304.7	7386.6	7461.3	7521.4	7576.0	7616.0	7596.0	7537.7	7415.8
40°	7969.3	7985.6	8058.5	8131.3	8215.0	8271.5	8329.8	8337.0	8317.0	8231.4	8065.8
42.5°	8661.1	8675.7	8748.5	8863.2	8972.5	9050.8	9105.4	9116.3	9052.6	8974.3	8768.5
45°	9256.5	9294.7	9389.4	9524.1	9682.5	9793.6	9868.3	9899.2	9842.8	9740.8	9502.3
47.5°	9728.1	9766.3	9901.0	10061.3	10257.9	10438.1	10561.9	10627.5	10612.9	10536.5	10276.1
50°	10074.0	10110.4	10256.1	10452.7	10682.1	10906.1	11117.3	11273.8	11328.5	11293.9	11055.4
52.5°	10114.1	10174.1	10345.3	10609.3	10907.9	11213.8	11514.2	11780.0	11960.3	11987.6	11811.0
55°	9555.1	9615.2	9851.9	10243.3	10687.6	11186.4	11667.1	12115.0	12470.1	12652.1	12559.3
57.5°	8236.9	8344.3	8593.8	9052.6	9706.2	10452.7	11219.2	12014.9	12737.7	13220.2	13313.0
60°	6312.4	6439.9	6691.1	7179.1	7907.3	8797.7	9820.9	10997.1	12273.4	13358.6	14006.7
62.5°	4049.3	4169.4	4433.4	4857.7	5451.2	6416.2	7514.1	8910.6	10625.7	12339.0	13882.9
65°	2081.1	2146.6	2285.0	2541.7	3004.2	3725.2	4710.2	6103.0	8063.9	10177.8	12410.0
67.5°	1318.2	1330.9	1361.9	1398.3	1516.7	1766.1	2224.9	3093.4	4706.5	6911.4	9524.1
70°	1139.8	1139.8	1125.2	1119.7	1134.3	1168.9	1239.9	1442.0	1986.4	3280.9	5493.1
72.5°	1043.3	1032.3	1006.9	986.8	983.2	983.2	997.7	1028.7	1116.1	1336.4	2150.3
75°	961.3	930.4	895.8	872.1	863.0	853.9	852.1	857.6	875.8	910.4	1026.9
77.5°	861.2	821.1	781.1	757.4	746.5	733.7	722.8	710.1	701.0	711.9	762.9
80°	741.0	695.5	664.6	650.0	639.1	620.9	597.2	575.3	555.3	551.7	582.6
82.5°	597.2	544.4	546.2	551.7	531.6	506.2	480.7	457.0	422.4	404.2	422.4
85°	482.5	455.2	442.4	477.0	447.9	409.7	369.6	327.7	273.1	229.4	249.4
87.5°	187.5	187.5	280.4	431.5	387.8	316.8	271.3	231.2	143.8	111.1	112.9
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°	4273.2	4273.2	4273.2	4273.2	4273.2	4273.2	4273.2	4273.2
2.5°	4280.5	4284.1	4282.3	4280.5	4280.5	4278.7	4280.5	4280.5
5°	4313.3	4322.4	4322.4	4326.0	4326.0	4327.8	4329.7	4327.8
7.5°	4362.4	4378.8	4389.7	4402.5	4404.3	4406.1	4409.8	4406.1
10°	4411.6	4444.4	4468.0	4491.7	4502.6	4506.3	4509.9	4509.9
12.5°	4473.5	4519.0	4560.9	4602.8	4622.8	4633.7	4633.7	4641.0
15°	4575.4	4621.0	4670.1	4726.6	4761.2	4779.4	4784.8	4784.8
17.5°	4719.3	4759.3	4801.2	4855.8	4899.5	4923.2	4928.7	4926.8
20°	4886.8	4925.0	4948.7	4983.3	5021.5	5048.8	5056.1	5056.1
22.5°	5078.0	5099.8	5103.5	5114.4	5145.3	5181.7	5198.1	5201.8
25°	5289.2	5294.6	5280.1	5280.1	5300.1	5334.7	5351.1	5352.9
27.5°	5562.3	5535.0	5498.5	5485.8	5498.5	5538.6	5558.6	5565.9
30°	5902.7	5837.2	5753.4	5707.9	5700.6	5753.4	5789.9	5795.3
32.5°	6292.4	6197.7	6086.6	5993.8	5970.1	6002.9	6046.6	6044.8
35°	6754.8	6642.0	6507.2	6388.9	6334.3	6367.0	6428.9	6436.2
37.5°	7288.3	7140.8	6986.1	6836.8	6751.2	6760.3	6825.8	6847.7
40°	7883.7	7692.5	7497.7	7297.4	7175.4	7151.8	7231.9	7244.6
42.5°	8520.9	8275.1	8029.3	7781.7	7625.1	7588.7	7681.6	7676.1
45°	9200.1	8886.9	8599.2	8326.1	8140.4	8085.8	8162.2	8162.2
47.5°	9930.2	9544.2	9201.9	8892.4	8690.3	8612.0	8684.8	8690.3
50°	10704.0	10294.3	9891.9	9547.8	9305.7	9205.5	9300.2	9314.8
52.5°	11474.1	11075.4	10669.4	10276.1	9983.0	9861.0	9970.2	10017.6
55°	12255.2	11863.8	11475.9	11091.8	10744.0	10600.2	10716.7	10776.8
57.5°	13080.0	12717.7	12348.1	11960.3	11625.2	11401.3	11525.1	11605.2
60°	14046.8	13737.3	13353.1	12925.2	12586.6	12359.0	12430.0	12501.0
62.5°	14811.5	14931.7	14605.7	14110.5	13675.4	13384.0	13453.2	13527.9
65°	14441.9	15674.5	15964.0	15463.3	14860.6	14407.3	14378.2	14416.4
67.5°	12071.3	14465.6	16211.6	16688.6	16184.3	15554.3	15437.8	15494.3
70°	8074.9	11057.2	14137.8	16431.9	17041.9	16797.9	16683.2	16717.8
72.5°	3878.1	6439.9	9591.5	12641.2	14498.3	15350.4	15623.5	15756.4
75°	1418.3	2556.3	4622.8	6966.0	8409.9	9735.3	10600.2	10953.4
77.5°	855.7	1032.3	1476.6	2223.1	2518.0	2818.5	2701.9	2760.2
80°	633.6	715.5	810.2	910.4	943.1	943.1	906.7	877.6
82.5°	444.3	497.1	542.6	597.2	611.8	584.4	480.7	382.3
85°	285.9	309.5	329.5	364.1	355.0	338.7	227.6	202.1
87.5°	131.1	149.3	156.6	173.0	165.7	158.4	112.9	94.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)