

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: P268821

Luminaire Tested: **GAN-AF-09-LED-U-RW-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268821
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-09-LED-U-RW-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47259.3 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B5 - U0 - G4

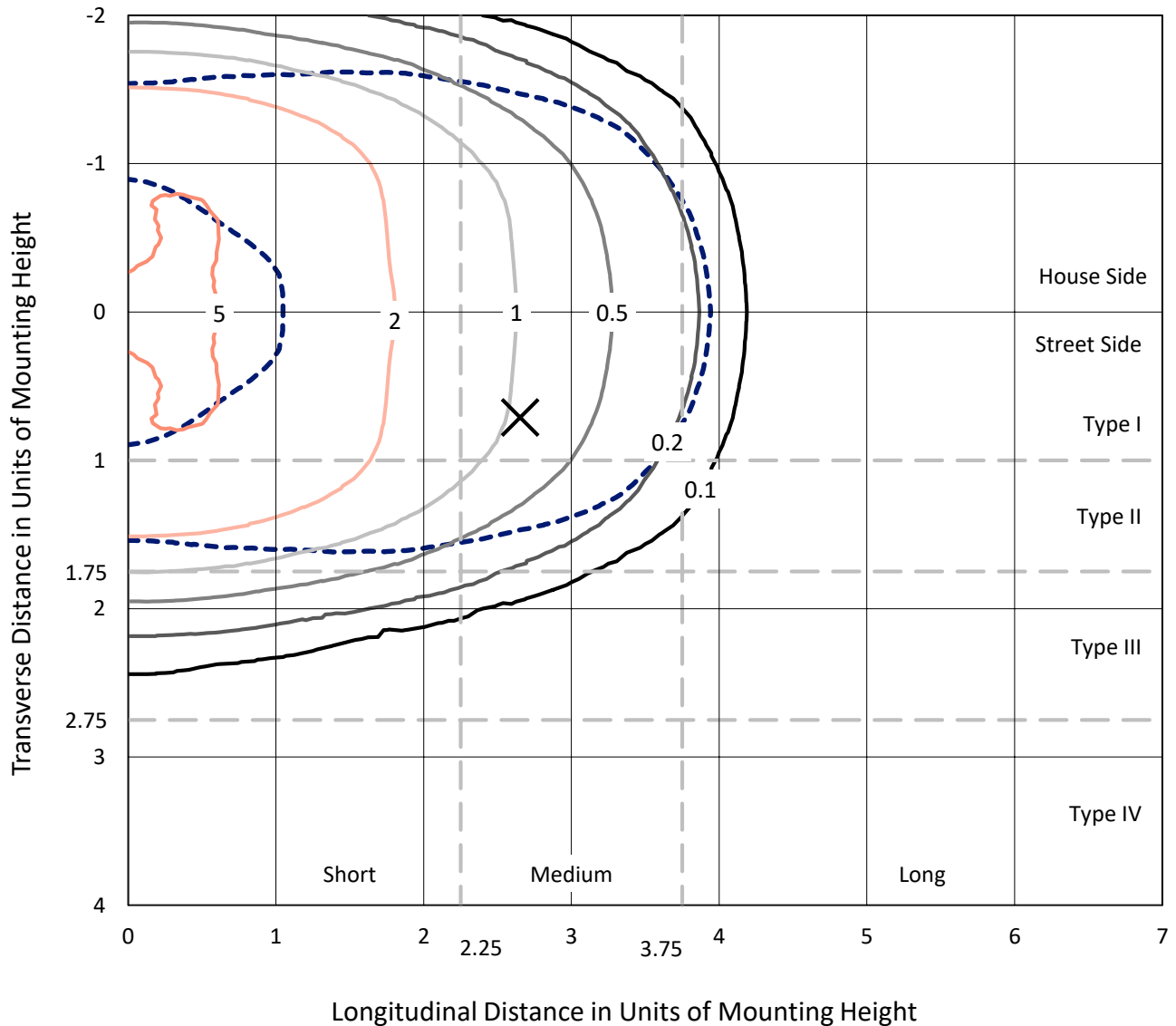
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

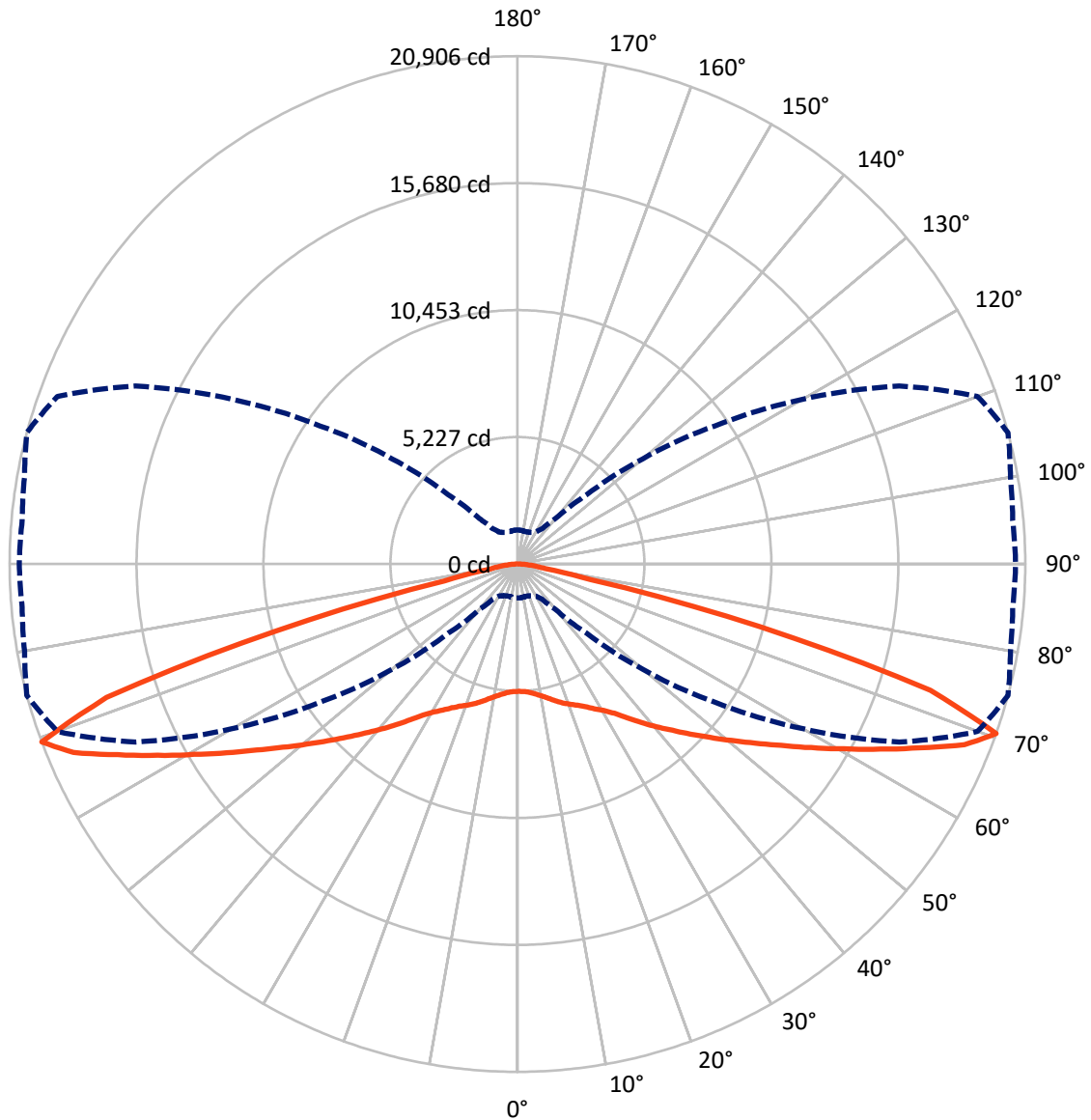


Based on 30 foot mounting height. Maximum calculated value = 5.9 fc
 Type V - Medium - Full Cutoff

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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	23629.7	0.0	23629.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23629.7	0.0	23629.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	47259.3	0.0	47259.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	502.8	1.1
10°-20°	1562.2	3.3
20°-30°	2940.2	6.2
30°-40°	5206.6	11.0
40°-50°	8707.1	18.4
50°-60°	12133.3	25.7
60°-70°	11251.7	23.8
70°-80°	4484.1	9.5
80°-90°	471.4	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°	47259.3	100.0
0°-180°	47259.3	100.0



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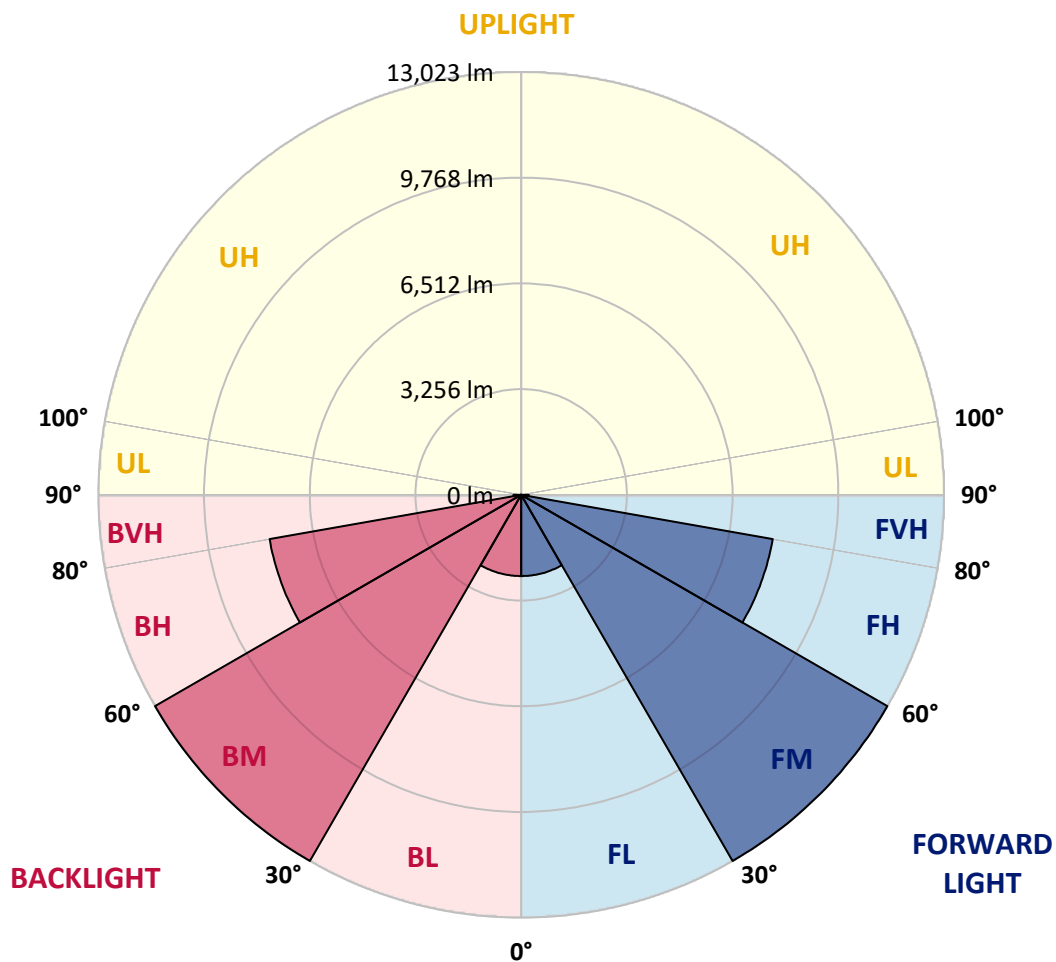
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2502.6	5.3			
FM	(30°-60°)	13023.5	27.6			
FH	(60°-80°)	7867.9	16.6			G4/12000
FVH	(80°-90°)	235.7	0.5			G3/500
BL	(0°-30°)	2502.6	5.3	B4/5000		
BM	(30°-60°)	13023.5	27.6	B5		
BH	(60°-80°)	7867.9	16.6	B5		G4/12000
BVH	(80°-90°)	235.7	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5242.1	5242.1	5242.1	5242.1	5242.1	5242.1	5242.1	5242.1	5242.1	5242.1	5242.1
2.5°	5233.3	5228.8	5233.3	5231.0	5235.4	5235.4	5240.0	5248.8	5248.8	5255.5	5253.3
5°	5181.9	5179.5	5186.4	5193.0	5199.7	5213.1	5226.5	5246.6	5262.2	5273.4	5284.5
7.5°	5081.4	5081.4	5090.2	5106.0	5121.5	5150.6	5181.9	5222.0	5262.2	5295.8	5324.9
10°	4998.7	5003.2	5014.2	5041.2	5068.0	5112.7	5155.1	5213.1	5269.0	5324.9	5369.4
12.5°	4949.7	4956.3	4976.4	5016.6	5061.2	5121.5	5186.4	5260.0	5322.5	5389.7	5434.2
15°	4965.2	4969.7	4998.7	5047.8	5106.0	5181.9	5269.0	5356.1	5429.7	5501.2	5561.5
17.5°	5052.2	5059.1	5092.5	5148.4	5208.6	5298.1	5391.7	5490.1	5581.7	5662.0	5735.8
20°	5208.6	5215.4	5257.8	5318.1	5389.7	5481.2	5574.9	5677.6	5780.5	5865.4	5947.9
22.5°	5429.7	5440.9	5481.2	5541.5	5621.9	5720.1	5831.8	5941.3	6039.6	6117.6	6191.4
25°	5720.1	5744.8	5782.7	5849.8	5934.6	6023.9	6144.5	6256.2	6349.9	6423.7	6477.3
27.5°	6131.1	6164.6	6193.6	6258.4	6341.0	6425.9	6546.6	6644.9	6734.1	6805.6	6845.9
30°	6676.2	6709.6	6738.6	6801.2	6877.2	6957.6	7071.5	7158.6	7214.4	7270.3	7267.9
32.5°	7337.3	7373.0	7384.2	7451.1	7529.4	7616.4	7719.1	7768.4	7813.0	7819.7	7779.5
35°	8076.5	8094.4	8139.2	8228.5	8317.8	8389.2	8487.5	8512.1	8512.1	8478.7	8389.2
37.5°	8887.3	8898.5	8961.0	9061.6	9153.1	9226.9	9293.9	9343.0	9318.4	9247.0	9097.2
40°	9776.3	9796.3	9885.7	9975.0	10077.8	10147.1	10218.5	10227.5	10202.9	10097.8	9894.7
42.5°	10625.1	10642.8	10732.2	10872.9	11006.9	11103.1	11170.1	11183.4	11105.2	11009.2	10756.8
45°	11355.5	11402.2	11518.4	11683.7	11878.1	12014.3	12105.9	12143.8	12074.6	11949.6	11656.9
47.5°	11934.0	11980.9	12146.2	12342.6	12583.8	12805.0	12956.9	13037.3	13019.5	12925.6	12606.3
50°	12358.3	12403.0	12581.7	12822.9	13104.2	13378.9	13638.1	13830.1	13897.1	13854.7	13562.3
52.5°	12407.4	12481.1	12691.1	13015.0	13381.2	13756.5	14124.9	14451.2	14672.2	14705.8	14489.1
55°	11721.8	11795.5	12085.7	12566.0	13111.0	13723.0	14312.7	14862.1	15297.6	15520.9	15407.1
57.5°	10104.7	10236.4	10542.4	11105.2	11907.2	12822.9	13763.2	14739.2	15625.9	16217.9	16331.7
60°	7743.7	7900.1	8208.4	8807.0	9700.3	10792.5	12047.8	13490.7	15056.4	16387.6	17182.8
62.5°	4967.4	5114.9	5438.7	5959.1	6687.3	7871.0	9217.9	10931.0	13035.0	15136.8	17030.8
65°	2553.0	2633.4	2803.2	3118.0	3685.3	4569.9	5778.2	7486.8	9892.5	12485.6	15223.9
67.5°	1617.0	1632.7	1670.7	1715.4	1860.6	2166.5	2729.4	3794.8	5773.8	8478.7	11683.7
70°	1398.2	1398.2	1380.3	1373.7	1391.6	1434.0	1521.1	1769.0	2436.8	4024.9	6738.6
72.5°	1279.8	1266.4	1235.2	1210.6	1206.2	1206.2	1224.0	1261.9	1369.1	1639.4	2637.9
75°	1179.4	1141.3	1098.8	1069.9	1058.7	1047.6	1045.3	1052.0	1074.4	1116.9	1259.8
77.5°	1056.4	1007.3	958.2	929.1	915.7	900.1	886.7	871.0	859.9	873.3	935.9
80°	909.1	853.2	815.2	797.3	784.0	761.7	732.6	705.8	681.3	676.8	714.7
82.5°	732.6	667.8	670.0	676.8	652.2	620.9	589.6	560.6	518.2	495.9	518.2
85°	592.0	558.3	542.8	585.2	549.5	502.5	453.5	402.0	335.1	281.3	306.1
87.5°	230.1	230.1	344.1	529.3	475.7	388.6	332.8	283.7	176.4	136.3	138.5
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°	5242.1	5242.1	5242.1	5242.1	5242.1	5242.1	5242.1	5242.1
2.5°	5251.1	5255.5	5253.3	5251.1	5251.1	5248.8	5251.1	5251.1
5°	5291.2	5302.4	5302.4	5306.9	5306.9	5309.2	5311.4	5309.2
7.5°	5351.7	5371.8	5385.1	5400.7	5402.9	5405.2	5409.7	5405.2
10°	5411.8	5452.2	5481.2	5510.3	5523.6	5528.1	5532.5	5532.5
12.5°	5487.8	5543.7	5595.1	5646.4	5671.0	5684.5	5684.5	5693.4
15°	5612.9	5668.8	5729.1	5798.3	5840.8	5863.1	5869.7	5869.7
17.5°	5789.3	5838.5	5889.8	5956.9	6010.5	6039.6	6046.2	6043.9
20°	5994.8	6041.8	6070.8	6113.2	6160.1	6193.6	6202.5	6202.5
22.5°	6229.3	6256.2	6260.6	6274.0	6312.0	6356.6	6376.8	6381.3
25°	6488.5	6495.1	6477.3	6477.3	6501.9	6544.3	6564.5	6566.7
27.5°	6823.5	6790.0	6745.4	6729.7	6745.4	6794.5	6819.0	6827.9
30°	7241.1	7160.7	7058.1	7002.2	6993.2	7058.1	7102.7	7109.5
32.5°	7719.1	7603.1	7466.8	7352.8	7323.8	7364.0	7417.7	7415.4
35°	8286.4	8148.0	7982.8	7837.5	7770.6	7810.8	7886.7	7895.7
37.5°	8940.9	8760.0	8570.2	8387.0	8282.1	8293.2	8373.6	8400.4
40°	9671.3	9436.8	9197.7	8952.1	8802.4	8773.3	8871.8	8887.3
42.5°	10453.0	10151.6	9849.9	9546.2	9354.1	9309.5	9423.4	9416.8
45°	11286.1	10902.0	10549.1	10214.1	9986.3	9919.3	10013.0	10013.0
47.5°	12181.8	11708.2	11288.5	10908.7	10660.7	10564.7	10654.1	10660.7
50°	13131.1	12628.6	12134.9	11712.8	11415.8	11292.9	11409.1	11426.9
52.5°	14075.9	13586.8	13088.7	12606.3	12246.7	12096.9	12231.0	12289.1
55°	15034.0	14553.9	14078.1	13606.8	13180.2	13003.8	13146.8	13220.4
57.5°	16045.9	15601.5	15147.9	14672.2	14261.2	13986.5	14138.5	14236.7
60°	17231.8	16852.3	16381.0	15856.1	15440.5	15161.5	15248.5	15335.7
62.5°	18169.9	18317.3	17917.7	17310.1	16776.2	16419.0	16503.8	16595.4
65°	17716.6	19228.7	19583.8	18969.6	18230.4	17674.2	17638.4	17685.3
67.5°	14808.5	17745.6	19887.5	20472.8	19854.1	19081.3	18938.3	19007.5
70°	9905.8	13564.3	17343.5	20157.8	20906.2	20606.8	20466.1	20508.6
72.5°	4757.5	7900.1	11766.4	15507.6	17785.8	18831.1	19166.1	19329.2
75°	1739.9	3136.0	5671.0	8545.5	10316.9	11942.8	13003.8	13437.0
77.5°	1049.8	1266.4	1811.4	2727.2	3089.0	3457.5	3314.6	3386.2
80°	777.3	877.9	994.0	1116.9	1156.9	1156.9	1112.3	1076.6
82.5°	545.0	609.8	665.6	732.6	750.4	716.9	589.6	469.0
85°	350.7	379.8	404.2	446.6	435.6	415.5	279.3	247.9
87.5°	160.8	183.2	192.1	212.2	203.2	194.4	138.5	116.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)