

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: P268808

Luminaire Tested: **GAN-AF-09-LED-U-5NQ-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268808
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-09-LED-U-5NQ-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 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: 52315 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 575
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

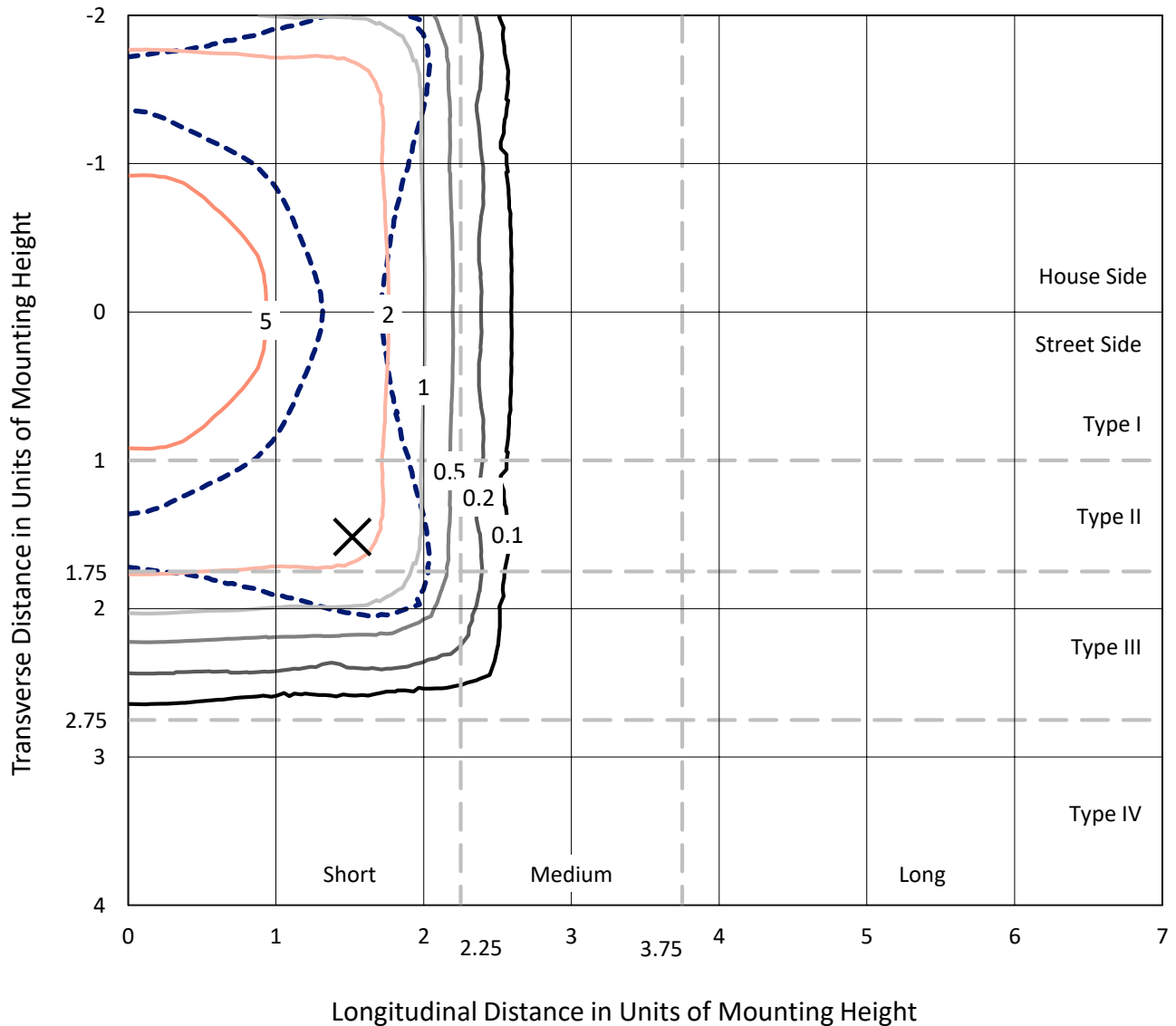


REPORT NUMBER: P268808

CATALOG NUMBER: GAN-AF-09-LED-U-5NQ-7027-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

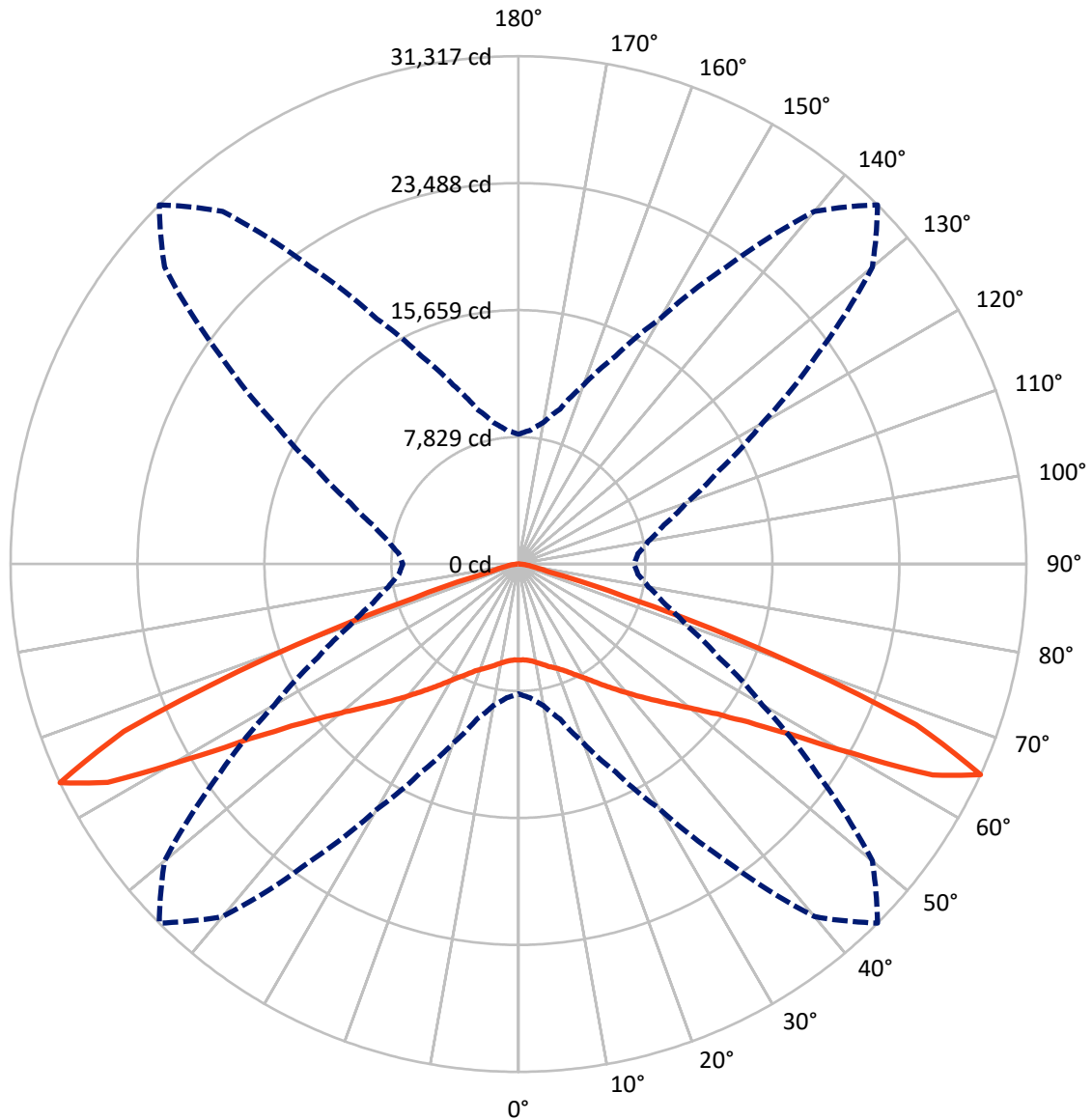


Based on 30 foot mounting height. Maximum calculated value = 6.6 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P268808

CATALOG NUMBER: GAN-AF-09-LED-U-5NQ-7027-1200

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P268808

CATALOG NUMBER: GAN-AF-09-LED-U-5NQ-7027-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26157.5	0.0	26157.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26157.5	0.0	26157.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	52315.0	0.0	52315.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	577.0	1.1
10°-20°	1850.4	3.5
20°-30°	3459.9	6.6
30°-40°	5851.7	11.2
40°-50°	9568.1	18.3
50°-60°	15214.8	29.1
60°-70°	13753.2	26.3
70°-80°	1740.5	3.3
80°-90°	299.4	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°	52315.0	100.0
0°-180°	52315.0	100.0



REPORT NUMBER: P268808

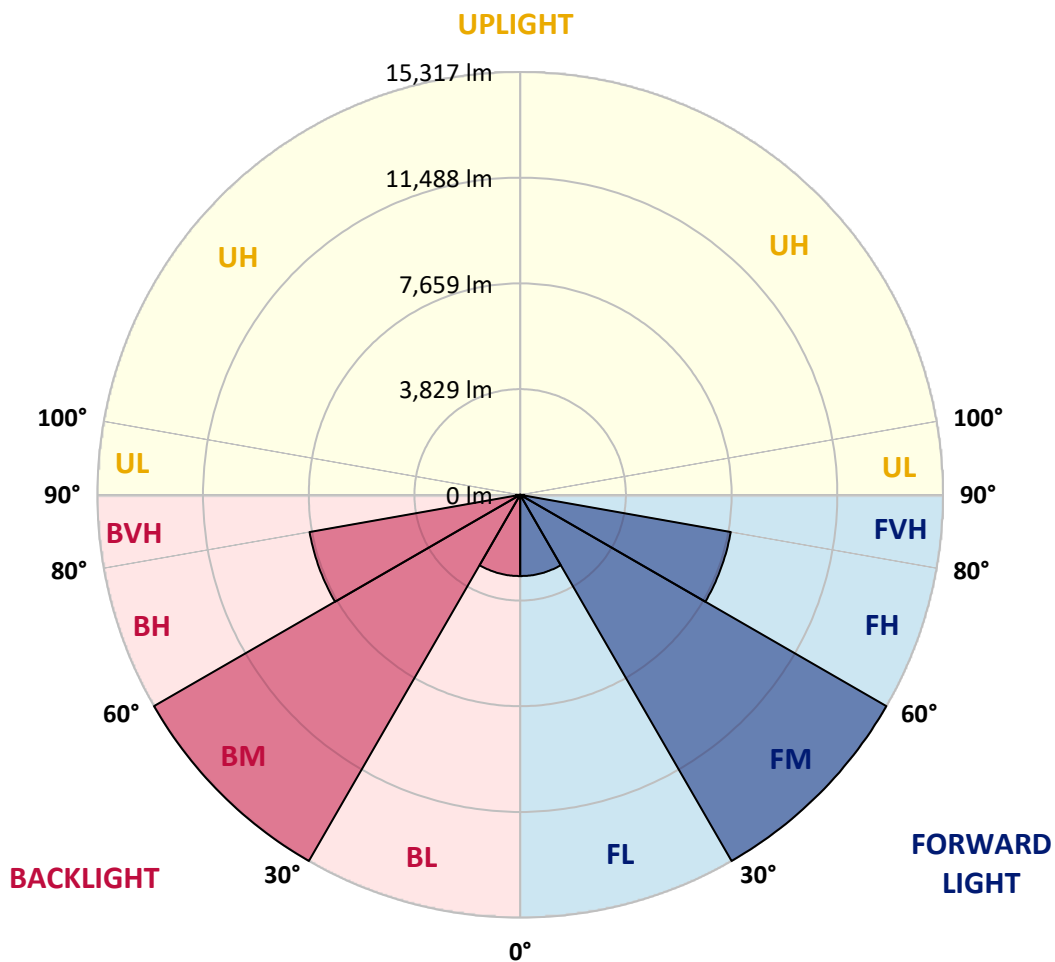
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2943.6	5.6			
FM	(30°-60°)	15317.3	29.3			
FH	(60°-80°)	7746.8	14.8			G4/12000
FVH	(80°-90°)	149.7	0.3			G2/225
BL	(0°-30°)	2943.6	5.6	B4/5000		
BM	(30°-60°)	15317.3	29.3	B5		
BH	(60°-80°)	7746.8	14.8	B5		G4/12000
BVH	(80°-90°)	149.7	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-G4

Type V Short





REPORT NUMBER: P268808

CATALOG NUMBER: GAN-AF-09-LED-U-5NQ-7027-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5919.4	5919.4	5919.4	5919.4	5919.4	5919.4	5919.4	5919.4	5919.4	5919.4	5919.4
2.5°	5924.3	5929.3	5934.2	5929.3	5934.2	5926.7	5921.8	5929.3	5921.8	5914.6	5919.4
5°	5975.9	5978.3	5978.3	5970.9	5978.3	5973.4	5966.1	5975.9	5968.5	5961.2	5966.1
7.5°	6061.6	6071.4	6064.0	6056.6	6061.6	6056.6	6051.8	6054.1	6051.8	6044.4	6046.9
10°	6176.7	6184.1	6179.3	6176.7	6181.6	6179.3	6174.3	6171.9	6174.3	6167.0	6167.0
12.5°	6316.4	6313.9	6311.5	6313.9	6321.3	6321.3	6318.9	6321.3	6326.1	6328.6	6323.7
15°	6453.7	6458.5	6458.5	6458.5	6473.1	6485.5	6492.8	6497.7	6507.5	6509.9	6500.1
17.5°	6625.1	6625.1	6622.7	6625.1	6639.8	6659.3	6666.7	6676.6	6686.4	6693.7	6681.5
20°	6816.2	6821.1	6821.1	6826.0	6845.7	6867.6	6867.6	6872.6	6867.6	6872.6	6865.1
22.5°	7049.0	7063.6	7063.6	7066.1	7085.7	7112.7	7105.4	7112.7	7100.5	7110.3	7100.5
25°	7352.7	7374.8	7370.0	7370.0	7384.6	7401.8	7404.2	7418.9	7416.4	7428.8	7421.3
27.5°	7695.8	7730.0	7739.8	7737.5	7747.3	7764.4	7769.4	7786.5	7776.6	7786.5	7781.6
30°	8107.5	8122.1	8141.7	8149.1	8161.3	8178.4	8178.4	8181.0	8168.6	8183.4	8190.7
32.5°	8533.7	8560.7	8580.3	8624.4	8646.5	8658.8	8656.2	8661.2	8648.9	8668.5	8683.1
35°	9097.2	9116.9	9148.7	9183.1	9212.4	9210.0	9202.5	9205.0	9205.0	9222.2	9236.9
37.5°	9776.0	9780.8	9822.4	9871.5	9886.1	9871.5	9827.4	9817.5	9795.6	9817.5	9842.1
40°	10493.8	10511.0	10594.3	10626.1	10633.4	10606.5	10542.8	10506.0	10457.1	10483.9	10518.3
42.5°	11246.1	11280.2	11356.3	11412.5	11437.1	11420.0	11331.8	11275.3	11211.7	11226.4	11260.8
45°	12079.0	12120.7	12228.4	12282.3	12329.0	12302.0	12216.2	12130.5	12030.0	12037.4	12091.2
47.5°	13010.1	13051.7	13191.4	13282.0	13306.6	13301.7	13206.2	13088.5	12951.3	12946.4	12992.9
50°	14053.9	14095.5	14269.4	14409.2	14480.1	14472.9	14360.0	14193.5	14026.9	14029.3	14088.1
52.5°	15073.1	15124.6	15305.9	15546.0	15685.6	15786.0	15717.5	15560.6	15357.2	15362.2	15416.2
55°	16028.5	16114.3	16322.7	16648.5	16908.2	17190.0	17270.9	17266.0	17143.4	17177.7	17231.6
57.5°	16491.7	16619.2	16940.1	17454.5	17983.8	18557.1	19042.2	19404.8	19559.2	19791.9	19738.1
60°	15614.6	15818.0	16290.8	17047.9	18094.0	19289.8	20571.0	21823.2	22891.4	23697.5	23234.4
62.5°	12784.7	13049.3	13622.5	14592.8	16175.6	18089.2	20541.7	23501.5	26725.7	28671.2	27282.0
65°	7999.5	8274.0	8857.2	9896.0	11748.3	14127.4	17454.5	22359.7	28384.6	31317.3	28489.8
67.5°	3118.9	3268.5	3584.4	4248.4	5640.2	7757.0	11096.6	16663.2	23869.0	26439.2	23425.6
70°	1563.2	1577.9	1636.7	1759.2	2058.0	2673.0	4067.2	7725.2	13688.7	16533.3	13196.3
72.5°	1129.4	1132.0	1161.4	1215.2	1310.7	1448.0	1712.6	2364.3	4451.8	6803.9	4172.5
75°	864.9	874.7	891.8	921.2	972.7	1041.2	1136.8	1362.3	1688.2	1957.6	1646.5
77.5°	666.5	686.0	698.3	725.2	757.1	803.7	830.7	916.4	1065.7	1122.2	1104.9
80°	507.2	524.3	551.3	573.3	595.3	617.5	607.7	646.8	725.2	771.7	747.3
82.5°	323.4	343.1	421.5	441.0	450.8	465.5	448.3	450.8	485.2	514.5	485.2
85°	208.2	220.5	267.1	291.6	294.0	303.7	296.5	279.4	279.4	254.8	286.6
87.5°	95.6	98.1	120.1	142.1	147.1	132.3	129.8	125.0	100.4	95.6	102.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P268808

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	5919.4	5919.4	5919.4	5919.4	5919.4	5919.4	5919.4	5919.4
2.5°	5917.0	5921.8	5924.3	5931.7	5934.2	5934.2	5936.5	5941.5
5°	5963.6	5970.9	5973.4	5983.3	5985.6	5983.3	5988.0	5990.4
7.5°	6046.9	6059.1	6064.0	6073.8	6066.4	6076.2	6078.7	6078.7
10°	6169.4	6181.6	6184.1	6193.9	6189.0	6193.9	6193.9	6189.0
12.5°	6331.1	6333.5	6326.1	6333.5	6323.7	6328.6	6321.3	6316.4
15°	6509.9	6502.7	6485.5	6485.5	6470.8	6473.1	6470.8	6468.2
17.5°	6683.8	6669.1	6656.9	6652.0	6639.8	6637.3	6630.0	6630.0
20°	6875.0	6867.6	6860.3	6850.6	6838.3	6826.0	6823.5	6828.5
22.5°	7105.4	7102.9	7102.9	7098.0	7080.8	7068.6	7061.1	7061.1
25°	7414.0	7392.0	7392.0	7389.5	7382.2	7374.8	7360.2	7367.4
27.5°	7762.0	7749.7	7759.5	7757.0	7749.7	7749.7	7739.8	7739.8
30°	8190.7	8185.9	8200.4	8188.3	8163.7	8161.3	8151.5	8139.3
32.5°	8685.6	8680.7	8702.8	8688.0	8648.9	8626.9	8607.2	8597.4
35°	9236.9	9239.3	9266.2	9256.6	9212.4	9197.7	9163.4	9158.5
37.5°	9839.7	9878.8	9925.5	9935.2	9898.5	9888.6	9851.9	9832.3
40°	10547.7	10599.2	10670.2	10687.3	10648.1	10640.9	10589.4	10562.5
42.5°	11302.4	11390.6	11478.7	11493.5	11454.3	11415.0	11366.1	11346.4
45°	12145.2	12250.5	12365.7	12395.2	12336.3	12289.7	12226.0	12226.0
47.5°	13090.9	13223.2	13353.0	13434.0	13380.1	13331.0	13255.1	13206.2
50°	14208.2	14389.5	14558.6	14641.8	14556.0	14463.0	14330.8	14286.6
52.5°	15609.7	15805.7	15952.6	15908.5	15776.3	15646.4	15501.8	15443.0
55°	17398.3	17464.4	17464.4	17297.8	17033.1	16815.2	16587.3	16511.2
57.5°	19635.2	19380.4	18988.4	18491.0	17866.2	17322.2	16954.8	16780.8
60°	22264.1	21039.1	19654.7	18294.9	17177.7	16256.4	15710.1	15460.2
62.5°	24015.9	20811.3	18037.6	15854.6	14247.4	13137.5	12382.9	12088.9
65°	22445.4	17356.6	13642.2	11030.4	9278.6	8149.1	7401.8	7127.3
67.5°	16440.2	10876.0	7264.6	5206.4	3814.8	3043.1	2736.7	2609.3
70°	7379.8	3829.6	2347.2	1832.7	1580.3	1450.5	1394.1	1374.4
72.5°	2224.7	1609.8	1357.3	1225.1	1124.6	1060.9	1014.4	1009.4
75°	1342.6	1117.2	992.3	913.8	850.2	798.8	774.2	767.0
77.5°	938.4	820.8	762.0	705.6	656.7	617.5	595.3	578.1
80°	659.0	602.8	575.8	544.0	512.0	475.4	443.5	428.9
82.5°	441.0	428.9	428.9	409.2	382.1	348.0	284.3	269.5
85°	284.3	281.8	286.6	279.4	259.7	223.0	183.8	173.9
87.5°	132.3	134.7	149.5	147.1	142.1	117.6	93.2	88.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)