

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: P268881

Luminaire Tested: **GAN-AF-10-LED-U-5MQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268881
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
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-5MQ-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53773.4 lumens
Efficiency: N/A
Efficacy: 96.4 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 - G5

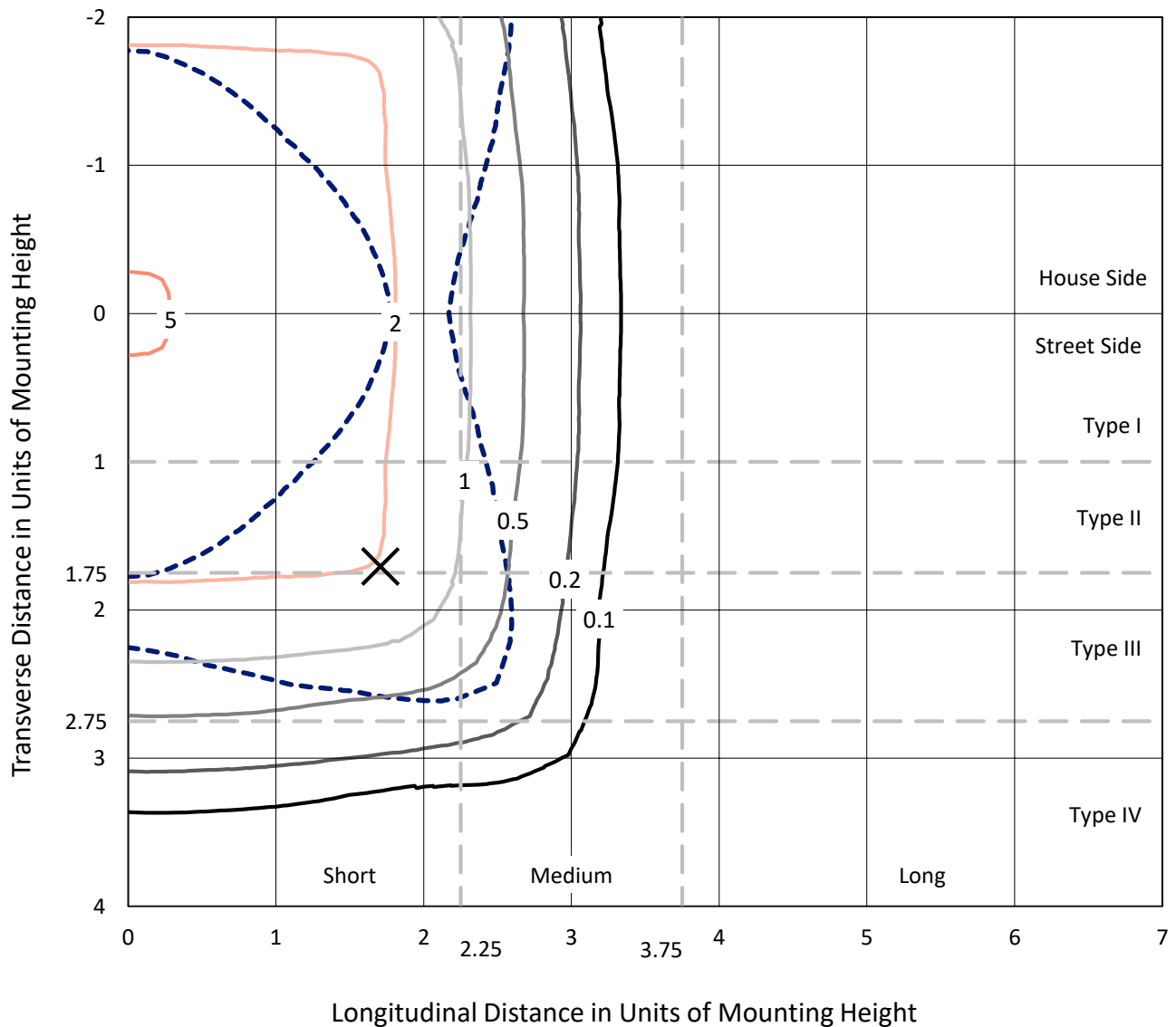
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

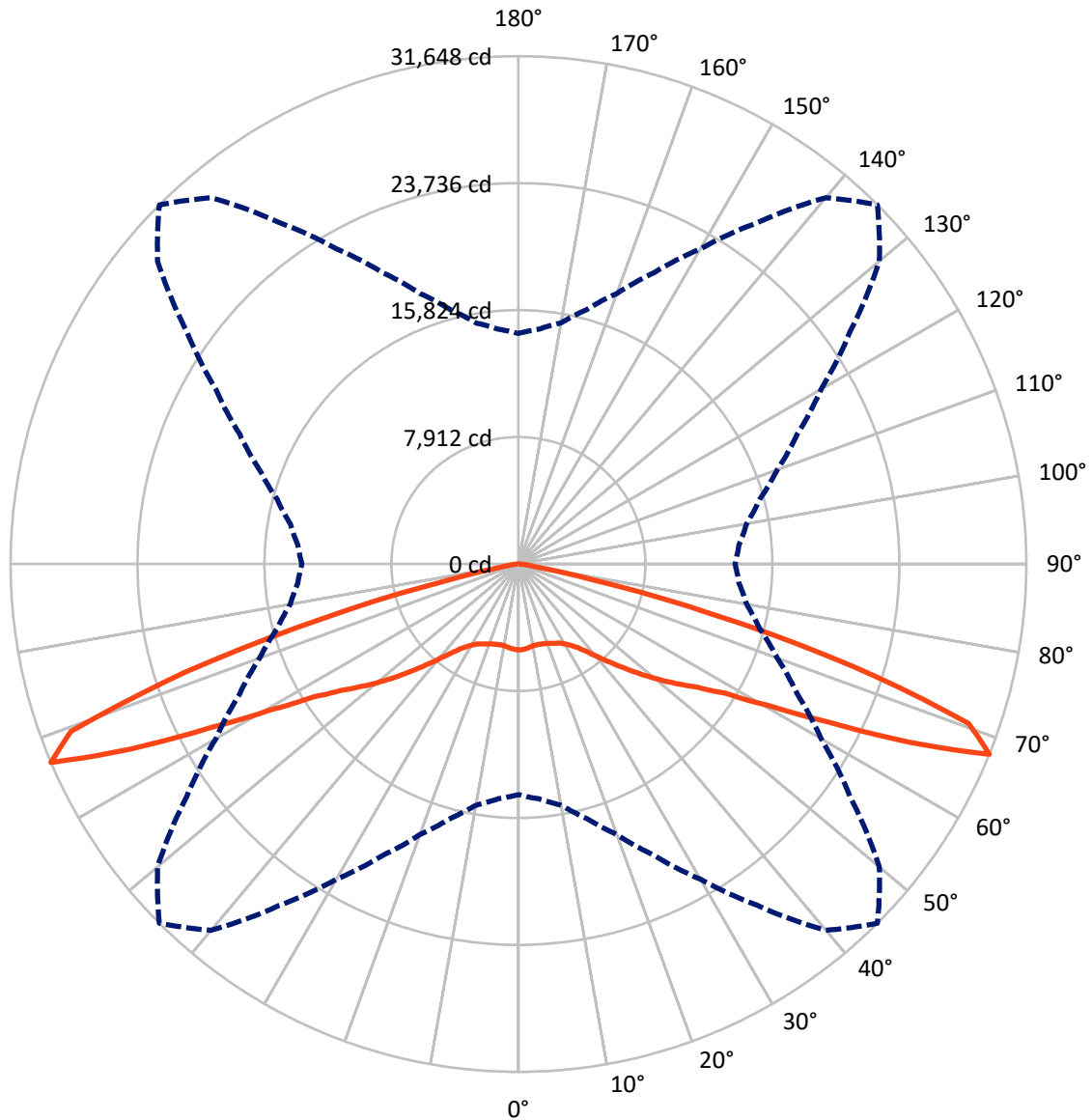
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26886.7	0.0	26886.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26886.7	0.0	26886.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	53773.4	0.0	53773.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.6	0.9
10°-20°	1455.4	2.7
20°-30°	2474.2	4.6
30°-40°	4044.5	7.5
40°-50°	7220.2	13.4
50°-60°	12173.4	22.6
60°-70°	18891.4	35.1
70°-80°	6637.6	12.3
80°-90°	375.1	0.7
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°	53773.4	100.0
0°-180°	53773.4	100.0



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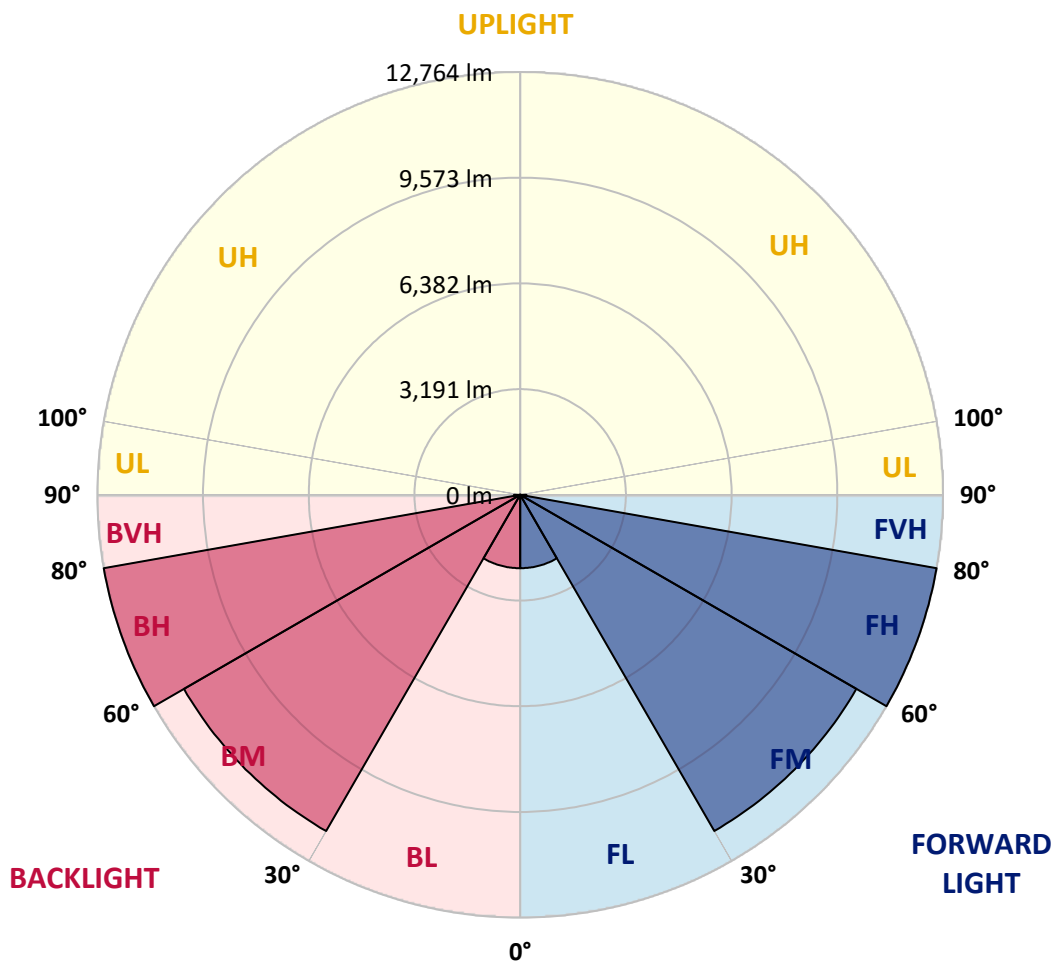
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2215.6	4.1			
FM	(30°-60°)	11719.1	21.8			
FH	(60°-80°)	12764.5	23.7			G5
FVH	(80°-90°)	187.6	0.3			G2/225
BL	(0°-30°)	2215.6	4.1	B3/2500		
BM	(30°-60°)	11719.1	21.8	B5		
BH	(60°-80°)	12764.5	23.7	B5		G5
BVH	(80°-90°)	187.6	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-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5358.7	5358.7	5358.7	5358.7	5358.7	5358.7	5358.7	5358.7	5358.7	5358.7	5358.7
2.5°	5338.9	5343.8	5343.8	5343.8	5341.4	5341.4	5336.6	5341.4	5338.9	5331.5	5334.0
5°	5294.4	5299.5	5299.5	5296.9	5304.3	5301.8	5294.4	5299.5	5296.9	5291.9	5294.4
7.5°	5230.1	5237.6	5237.6	5235.1	5242.5	5240.1	5235.1	5237.6	5237.6	5230.1	5230.1
10°	5158.4	5163.4	5163.4	5160.9	5173.2	5173.2	5170.9	5178.2	5180.6	5173.2	5168.4
12.5°	5091.7	5099.0	5099.0	5109.0	5121.3	5126.3	5138.7	5148.5	5158.4	5156.0	5146.1
15°	5052.1	5057.1	5066.9	5079.2	5099.0	5116.3	5136.1	5158.4	5178.2	5183.2	5168.4
17.5°	5027.4	5034.8	5049.6	5066.9	5094.2	5123.8	5153.4	5183.2	5210.3	5220.3	5203.0
20°	5020.0	5024.8	5039.8	5069.4	5106.5	5151.1	5193.0	5227.6	5264.7	5277.2	5264.7
22.5°	5034.8	5044.7	5061.9	5096.7	5146.1	5203.0	5252.4	5299.5	5346.4	5368.6	5351.4
25°	5101.6	5111.4	5133.8	5178.2	5232.6	5291.9	5348.9	5403.2	5445.3	5467.5	5455.1
27.5°	5225.3	5237.6	5264.7	5309.3	5368.6	5432.9	5494.8	5539.3	5574.0	5581.3	5566.4
30°	5410.8	5437.9	5470.0	5519.5	5588.7	5643.2	5705.0	5744.5	5786.5	5786.5	5774.1
32.5°	5700.0	5727.2	5761.8	5808.8	5863.1	5922.5	5977.0	6011.5	6056.2	6058.6	6029.0
35°	6132.8	6145.1	6174.8	6204.5	6253.9	6305.8	6352.9	6375.1	6412.2	6414.6	6387.5
37.5°	6704.1	6706.4	6726.2	6736.1	6780.6	6837.4	6882.1	6896.8	6931.5	6926.6	6899.3
40°	7369.2	7381.6	7389.0	7403.8	7450.8	7505.2	7552.2	7559.6	7596.6	7589.3	7554.7
42.5°	8138.3	8143.2	8185.3	8207.5	8252.0	8279.1	8338.5	8346.1	8390.4	8370.8	8331.2
45°	9001.2	9045.8	9085.4	9130.0	9176.8	9209.1	9256.0	9246.2	9275.8	9246.2	9223.8
47.5°	9908.8	9941.1	10030.0	10099.3	10175.9	10203.0	10270.0	10240.1	10270.0	10227.8	10220.5
50°	10907.8	10964.8	11041.4	11120.6	11202.1	11246.7	11333.2	11296.1	11335.7	11296.1	11273.9
52.5°	11892.1	11906.9	12075.0	12191.3	12305.2	12357.1	12408.9	12391.6	12394.2	12391.6	12369.4
55°	12826.9	12861.6	13029.6	13187.8	13385.7	13531.7	13620.7	13610.8	13588.5	13566.3	13529.2
57.5°	13880.3	13914.9	14107.8	14303.3	14528.2	14735.9	14916.4	15101.9	15173.6	15193.5	15111.7
60°	15304.8	15302.2	15559.5	15796.9	16118.3	16427.3	16823.1	17226.2	17688.5	17903.7	17619.4
62.5°	16753.7	16813.1	17184.0	17604.4	18267.3	18912.6	19642.2	20359.2	21091.2	21687.2	21054.1
65°	16580.7	16808.2	17359.7	18311.7	19535.8	20989.8	22562.5	24226.8	25730.4	26764.0	25604.3
67.5°	14369.9	14693.8	15255.2	16412.6	17943.3	20040.3	22681.3	25972.8	29798.2	31647.9	29355.6
70°	10415.8	10781.7	11370.3	12500.5	14016.3	16009.5	18878.1	22829.6	27894.2	29758.7	27233.9
72.5°	5183.2	5380.9	5744.5	6464.2	7611.6	9228.7	11830.3	15628.6	20109.5	21820.8	19513.5
75°	1760.7	1852.1	1914.0	2148.9	2512.5	3148.0	4441.3	6832.6	10423.3	12495.6	10274.9
77.5°	1016.3	1018.9	1060.9	1102.8	1164.7	1234.0	1407.0	1847.3	3195.0	4537.8	3306.2
80°	657.7	655.4	690.0	722.1	764.1	798.8	808.7	855.6	986.7	1169.7	1046.0
82.5°	341.3	383.2	459.9	502.1	581.2	595.9	576.3	558.8	591.1	613.3	628.2
85°	187.9	163.2	244.8	316.6	351.1	356.1	356.1	336.3	348.7	341.3	370.9
87.5°	86.5	79.1	96.5	155.8	165.6	140.9	148.4	131.1	94.0	91.4	103.8
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°	5358.7	5358.7	5358.7	5358.7	5358.7	5358.7	5358.7	5358.7
2.5°	5334.0	5336.6	5336.6	5343.8	5346.4	5351.4	5356.2	5358.7
5°	5291.9	5299.5	5294.4	5301.8	5301.8	5306.7	5306.7	5309.3
7.5°	5230.1	5237.6	5237.6	5237.6	5235.1	5242.5	5242.5	5242.5
10°	5165.9	5170.9	5168.4	5163.4	5158.4	5165.9	5163.4	5160.9
12.5°	5146.1	5133.8	5123.8	5118.9	5109.0	5111.4	5104.0	5104.0
15°	5158.4	5136.1	5118.9	5111.4	5101.6	5096.7	5091.7	5094.2
17.5°	5190.5	5163.4	5141.1	5128.8	5116.3	5109.0	5099.0	5101.6
20°	5247.4	5215.3	5183.2	5158.4	5136.1	5123.8	5116.3	5114.0
22.5°	5331.5	5284.5	5237.6	5200.5	5170.9	5153.4	5146.1	5141.1
25°	5428.0	5376.0	5321.6	5279.6	5250.0	5227.6	5212.9	5212.9
27.5°	5549.2	5507.1	5457.7	5408.2	5380.9	5358.7	5348.9	5343.8
30°	5751.9	5712.4	5672.7	5625.8	5591.2	5569.0	5551.6	5536.9
32.5°	6011.5	5979.5	5947.3	5912.6	5880.6	5850.8	5823.6	5811.2
35°	6377.5	6352.9	6330.5	6291.0	6278.7	6261.4	6246.5	6234.1
37.5°	6882.1	6872.2	6872.2	6830.2	6820.2	6812.7	6798.0	6800.4
40°	7544.8	7554.7	7542.3	7527.4	7520.0	7500.3	7500.3	7517.6
42.5°	8328.6	8336.1	8363.3	8338.5	8365.7	8341.0	8326.2	8338.5
45°	9238.7	9265.8	9320.4	9295.7	9312.9	9270.9	9218.9	9221.5
47.5°	10260.0	10284.8	10307.1	10289.6	10292.2	10222.9	10153.7	10136.4
50°	11320.9	11330.9	11343.2	11318.5	11323.3	11246.7	11167.5	11170.1
52.5°	12369.4	12416.4	12465.8	12399.0	12384.3	12297.6	12186.3	12141.9
55°	13568.7	13635.6	13578.6	13462.4	13346.2	13230.0	13084.1	13059.3
57.5°	15047.5	14933.8	14755.6	14535.7	14374.9	14211.6	14063.3	14001.5
60°	17104.9	16677.2	16355.7	16029.3	15824.1	15623.7	15428.3	15398.7
62.5°	20013.1	19273.7	18633.3	17958.0	17406.6	16976.3	16632.7	16536.2
65°	23658.1	21909.8	20394.0	18979.4	17750.4	16823.1	16239.5	15982.3
67.5°	25225.9	21773.7	19174.9	17166.8	15559.5	14436.8	13806.1	13492.1
70°	22166.9	18057.0	15230.6	13220.0	11756.1	10559.2	9988.0	9651.7
72.5°	15250.3	11486.5	9082.9	7413.7	6244.1	5242.5	4846.9	4817.3
75°	6847.4	4535.3	3125.7	2408.5	2027.7	1763.2	1681.5	1619.7
77.5°	1916.4	1416.9	1263.6	1182.0	1102.8	1011.4	976.7	984.3
80°	932.4	880.3	845.8	793.8	722.1	645.4	610.8	625.6
82.5°	618.3	610.8	633.0	595.9	492.1	417.9	351.1	321.5
85°	375.9	380.8	388.2	390.8	331.4	232.4	158.3	178.0
87.5°	148.4	170.6	185.5	192.9	180.5	111.3	89.0	91.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)