

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: P192558

Luminaire Tested: **GAN-AF-10-LED-U-5MQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192558
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-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 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: 59860.9 lumens
Efficiency: N/A
Efficacy: 107.3 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

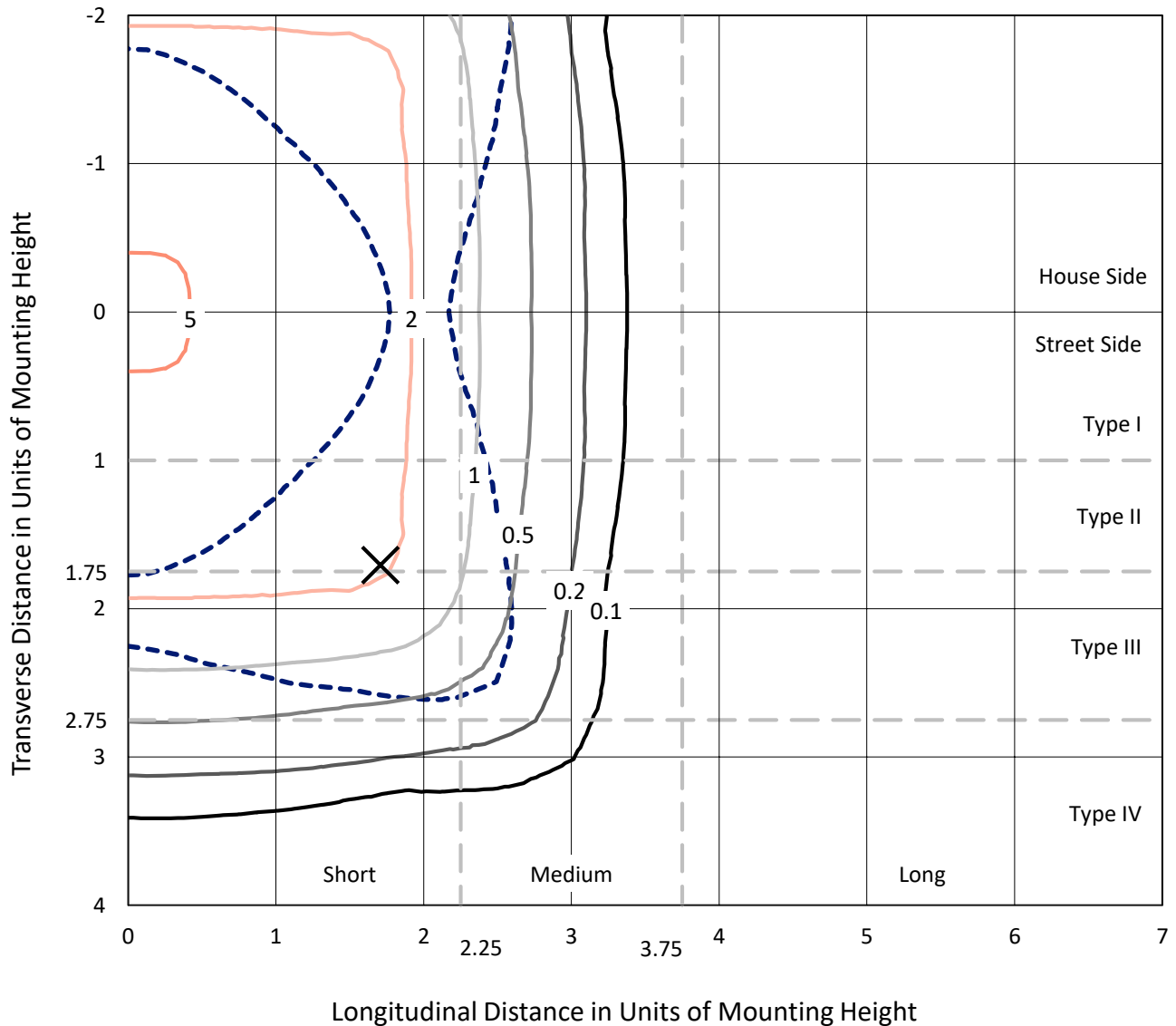
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

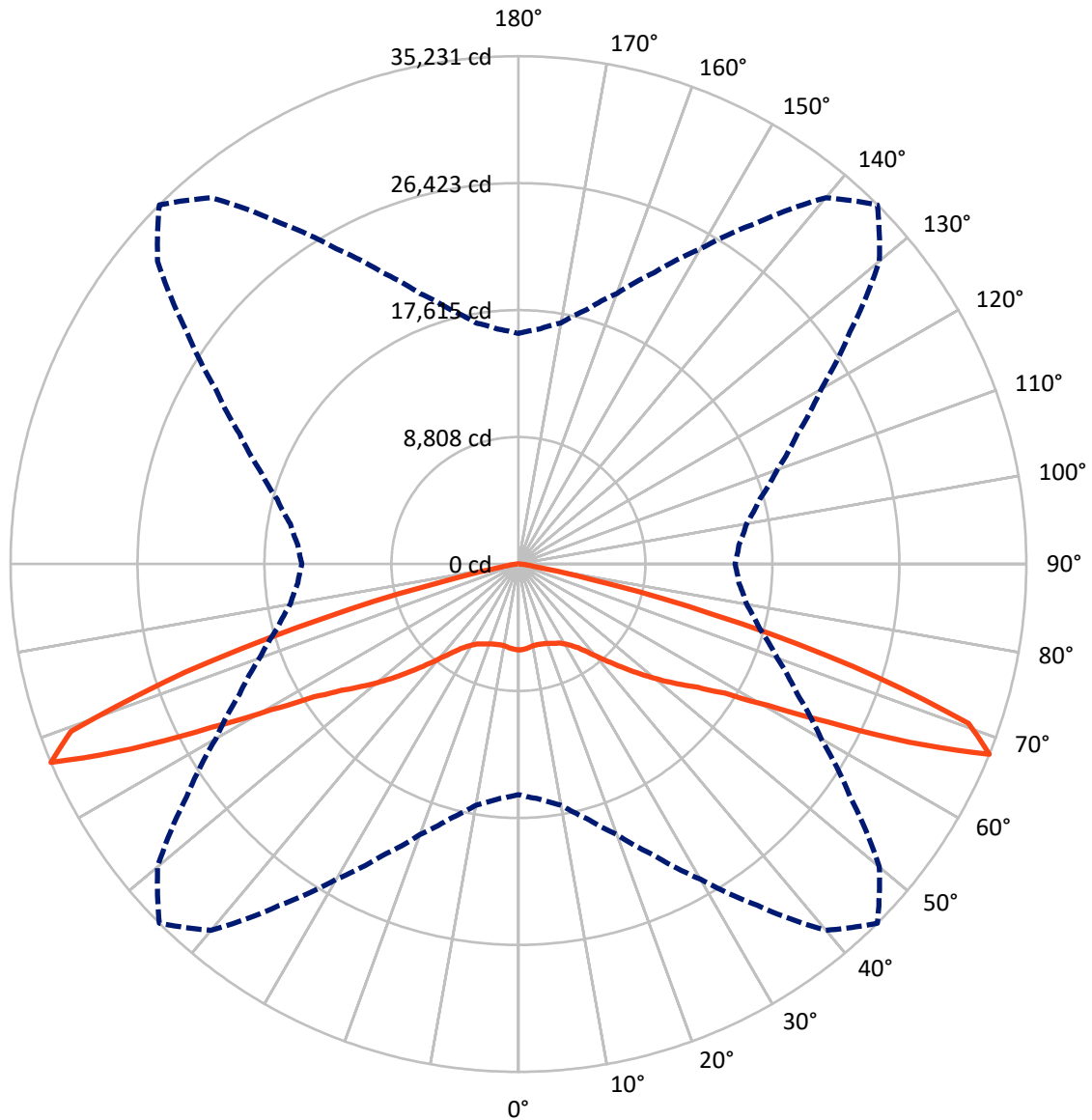
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.6 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	29930.5	0.0	29930.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	29930.5	0.0	29930.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	59860.9	0.0	59860.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	558.3	0.9
10°-20°	1620.2	2.7
20°-30°	2754.3	4.6
30°-40°	4502.4	7.5
40°-50°	8037.6	13.4
50°-60°	13551.6	22.6
60°-70°	21030.0	35.1
70°-80°	7389.0	12.3
80°-90°	417.6	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°	59860.9	100.0
0°-180°	59860.9	100.0



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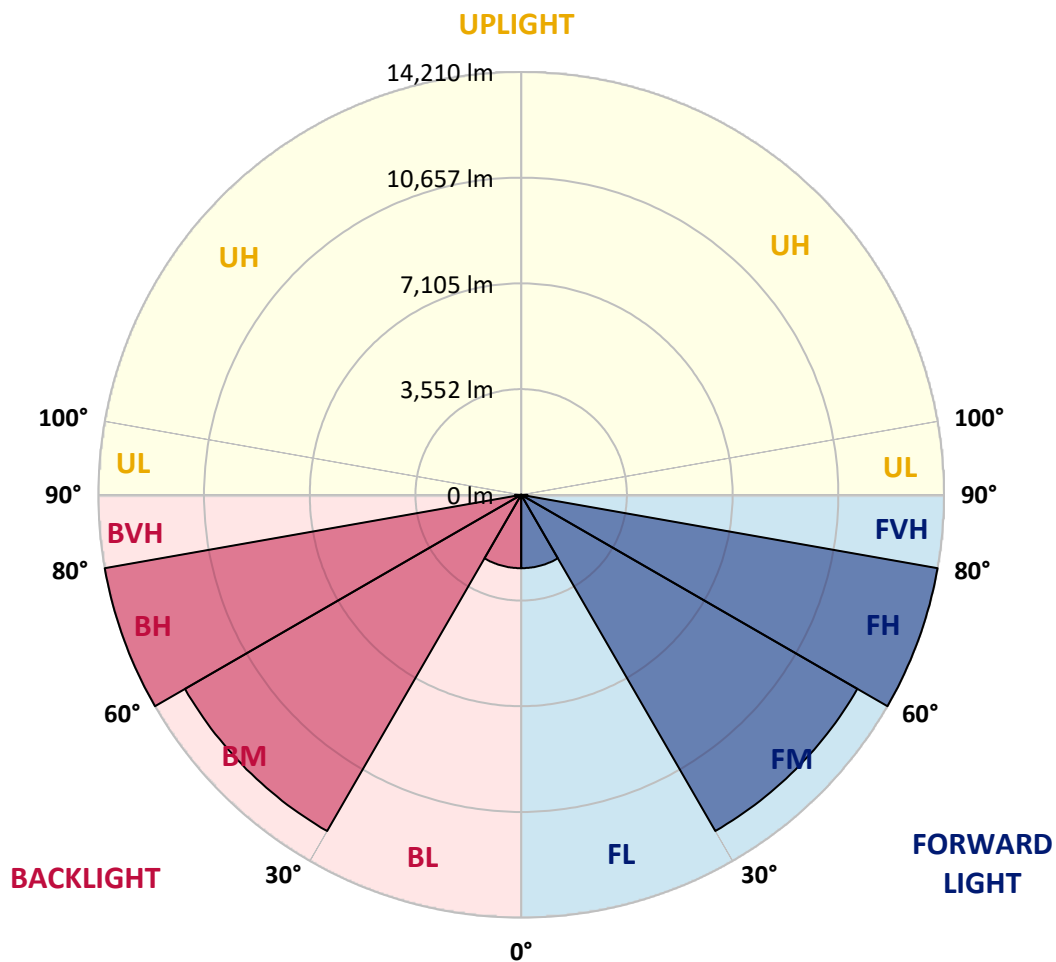
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2466.4	4.1			
FM	(30°-60°)	13045.8	21.8			
FH	(60°-80°)	14209.5	23.7			G5
FVH	(80°-90°)	208.8	0.3			G2/225
BL	(0°-30°)	2466.4	4.1	B3/2500		
BM	(30°-60°)	13045.8	21.8	B5		
BH	(60°-80°)	14209.5	23.7	B5		G5
BVH	(80°-90°)	208.8	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°	5965.4	5965.4	5965.4	5965.4	5965.4	5965.4	5965.4	5965.4	5965.4	5965.4	5965.4
2.5°	5943.3	5948.8	5948.8	5948.8	5946.1	5946.1	5940.7	5946.1	5943.3	5935.1	5937.9
5°	5893.8	5899.4	5899.4	5896.6	5904.8	5902.0	5893.8	5899.4	5896.6	5891.0	5893.8
7.5°	5822.2	5830.5	5830.5	5827.8	5836.0	5833.3	5827.8	5830.5	5830.5	5822.2	5822.2
10°	5742.4	5747.9	5747.9	5745.2	5758.9	5758.9	5756.3	5764.4	5767.1	5758.9	5753.5
12.5°	5668.1	5676.3	5676.3	5687.4	5701.1	5706.6	5720.4	5731.4	5742.4	5739.7	5728.7
15°	5624.0	5629.6	5640.5	5654.2	5676.3	5695.5	5717.6	5742.4	5764.4	5770.0	5753.5
17.5°	5596.5	5604.8	5621.3	5640.5	5670.9	5703.9	5736.8	5770.0	5800.2	5811.3	5792.0
20°	5588.3	5593.7	5610.3	5643.3	5684.6	5734.2	5780.9	5819.4	5860.7	5874.6	5860.7
22.5°	5604.8	5615.8	5635.0	5673.7	5728.7	5792.0	5847.0	5899.4	5951.7	5976.4	5957.2
25°	5679.1	5690.1	5715.0	5764.4	5825.0	5891.0	5954.4	6014.9	6061.7	6086.5	6072.7
27.5°	5816.8	5830.5	5860.7	5910.4	5976.4	6047.9	6116.8	6166.4	6205.0	6213.1	6196.6
30°	6023.3	6053.5	6089.2	6144.3	6221.4	6282.0	6350.8	6394.8	6441.6	6441.6	6427.8
32.5°	6345.3	6375.6	6414.1	6466.4	6526.9	6593.0	6653.6	6692.1	6741.8	6744.5	6711.5
35°	6827.1	6840.8	6873.8	6906.9	6961.9	7019.7	7072.1	7096.8	7138.1	7140.8	7110.6
37.5°	7463.0	7465.6	7487.7	7498.7	7548.2	7611.5	7661.2	7677.6	7716.2	7710.7	7680.4
40°	8203.4	8217.2	8225.5	8242.0	8294.3	8354.8	8407.2	8415.4	8456.6	8448.5	8409.9
42.5°	9059.6	9065.1	9111.9	9136.7	9186.2	9216.4	9282.5	9290.9	9340.3	9318.4	9274.3
45°	10020.2	10069.9	10113.9	10163.6	10215.7	10251.6	10303.9	10292.9	10325.9	10292.9	10268.0
47.5°	11030.6	11066.5	11165.5	11242.6	11327.9	11358.1	11432.6	11399.4	11432.6	11385.7	11377.5
50°	12142.7	12206.1	12291.4	12379.5	12470.3	12519.9	12616.2	12574.9	12619.0	12574.9	12550.2
52.5°	13238.4	13254.9	13442.0	13571.5	13698.2	13756.0	13813.7	13794.4	13797.3	13794.4	13769.7
55°	14279.0	14317.6	14504.7	14680.8	14901.1	15063.6	15162.7	15151.6	15126.8	15102.1	15060.8
57.5°	15451.7	15490.2	15704.9	15922.5	16172.9	16404.1	16605.1	16811.6	16891.4	16913.5	16822.5
60°	17037.4	17034.5	17320.9	17585.2	17943.0	18287.0	18727.6	19176.3	19691.0	19930.5	19614.0
62.5°	18650.4	18716.5	19129.4	19597.4	20335.3	21053.7	21865.8	22664.0	23478.9	24142.4	23437.6
65°	18457.8	18711.0	19324.9	20384.7	21747.4	23366.0	25116.8	26969.5	28643.3	29793.9	28502.9
67.5°	15996.7	16357.3	16982.2	18270.6	19974.6	22309.0	25249.0	28913.1	33171.6	35230.7	32678.9
70°	11594.9	12002.3	12657.5	13915.6	15603.1	17821.9	21015.2	25414.1	31052.0	33127.6	30317.0
72.5°	5770.0	5990.1	6394.8	7196.0	8473.3	10273.5	13169.6	17397.9	22386.0	24291.1	21722.6
75°	1960.0	2061.8	2130.7	2392.2	2796.9	3504.4	4944.1	7606.1	11603.3	13910.2	11438.1
77.5°	1131.4	1134.2	1181.0	1227.7	1296.6	1373.7	1566.3	2056.4	3556.7	5051.5	3680.5
80°	732.2	729.6	768.1	803.8	850.6	889.2	900.2	952.5	1098.4	1302.1	1164.4
82.5°	379.9	426.6	512.0	558.9	647.0	663.4	641.5	622.1	658.0	682.7	699.3
85°	209.2	181.7	272.5	352.4	390.9	396.4	396.4	374.4	388.2	379.9	412.9
87.5°	96.3	88.1	107.4	173.4	184.4	156.9	165.2	145.9	104.6	101.8	115.6
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°	5965.4	5965.4	5965.4	5965.4	5965.4	5965.4	5965.4	5965.4
2.5°	5937.9	5940.7	5940.7	5948.8	5951.7	5957.2	5962.6	5965.4
5°	5891.0	5899.4	5893.8	5902.0	5902.0	5907.5	5907.5	5910.4
7.5°	5822.2	5830.5	5830.5	5830.5	5827.8	5836.0	5836.0	5836.0
10°	5750.7	5756.3	5753.5	5747.9	5742.4	5750.7	5747.9	5745.2
12.5°	5728.7	5715.0	5703.9	5698.4	5687.4	5690.1	5681.8	5681.8
15°	5742.4	5717.6	5698.4	5690.1	5679.1	5673.7	5668.1	5670.9
17.5°	5778.1	5747.9	5723.1	5709.4	5695.5	5687.4	5676.3	5679.1
20°	5841.5	5805.7	5770.0	5742.4	5717.6	5703.9	5695.5	5692.9
22.5°	5935.1	5882.8	5830.5	5789.2	5756.3	5736.8	5728.7	5723.1
25°	6042.5	5984.6	5924.1	5877.3	5844.3	5819.4	5803.0	5803.0
27.5°	6177.4	6130.5	6075.5	6020.4	5990.1	5965.4	5954.4	5948.8
30°	6403.1	6359.1	6314.9	6262.7	6224.2	6199.4	6180.1	6163.7
32.5°	6692.1	6656.4	6620.6	6582.0	6546.3	6513.2	6482.9	6469.1
35°	7099.5	7072.1	7047.2	7003.2	6989.5	6970.2	6953.7	6939.9
37.5°	7661.2	7650.2	7650.2	7603.4	7592.3	7584.0	7567.6	7570.3
40°	8398.9	8409.9	8396.1	8379.6	8371.3	8349.4	8349.4	8368.6
42.5°	9271.5	9279.8	9310.1	9282.5	9312.8	9285.3	9268.8	9282.5
45°	10284.6	10314.8	10375.5	10348.0	10367.2	10320.4	10262.6	10265.4
47.5°	11421.5	11449.1	11473.9	11454.5	11457.3	11380.2	11303.2	11283.9
50°	12602.5	12613.6	12627.3	12599.8	12605.2	12519.9	12431.8	12434.6
52.5°	13769.7	13822.0	13877.0	13802.7	13786.3	13689.8	13565.9	13516.5
55°	15104.8	15179.2	15115.8	14986.4	14857.1	14727.7	14565.3	14537.7
57.5°	16751.0	16624.4	16426.1	16181.2	16002.2	15820.5	15655.4	15586.6
60°	19041.3	18565.2	18207.3	17843.9	17615.5	17392.4	17174.9	17141.9
62.5°	22278.7	21455.6	20742.7	19991.0	19377.2	18898.2	18515.6	18408.2
65°	26336.4	24390.2	22702.7	21128.0	19759.9	18727.6	18077.9	17791.6
67.5°	28081.7	24238.7	21345.6	19110.2	17320.9	16071.1	15369.1	15019.5
70°	24676.4	20101.2	16954.8	14716.6	13087.0	11754.6	11118.7	10744.3
72.5°	16976.7	12786.9	10111.2	8253.0	6951.0	5836.0	5395.6	5362.6
75°	7622.6	5048.7	3479.6	2681.2	2257.3	1962.8	1871.9	1803.1
77.5°	2133.4	1577.3	1406.7	1315.8	1227.7	1125.9	1087.3	1095.7
80°	1037.9	980.0	941.5	883.7	803.8	718.5	679.9	696.4
82.5°	688.3	679.9	704.7	663.4	547.8	465.2	390.9	357.9
85°	418.5	423.9	432.2	435.0	368.9	258.7	176.2	198.2
87.5°	165.2	189.9	206.5	214.7	200.9	123.9	99.1	101.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)