

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: P191665

Luminaire Tested: **GAN-AF-07-LED-U-5NQ-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191665
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-07-LED-U-5NQ-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 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: 47641 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 448
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

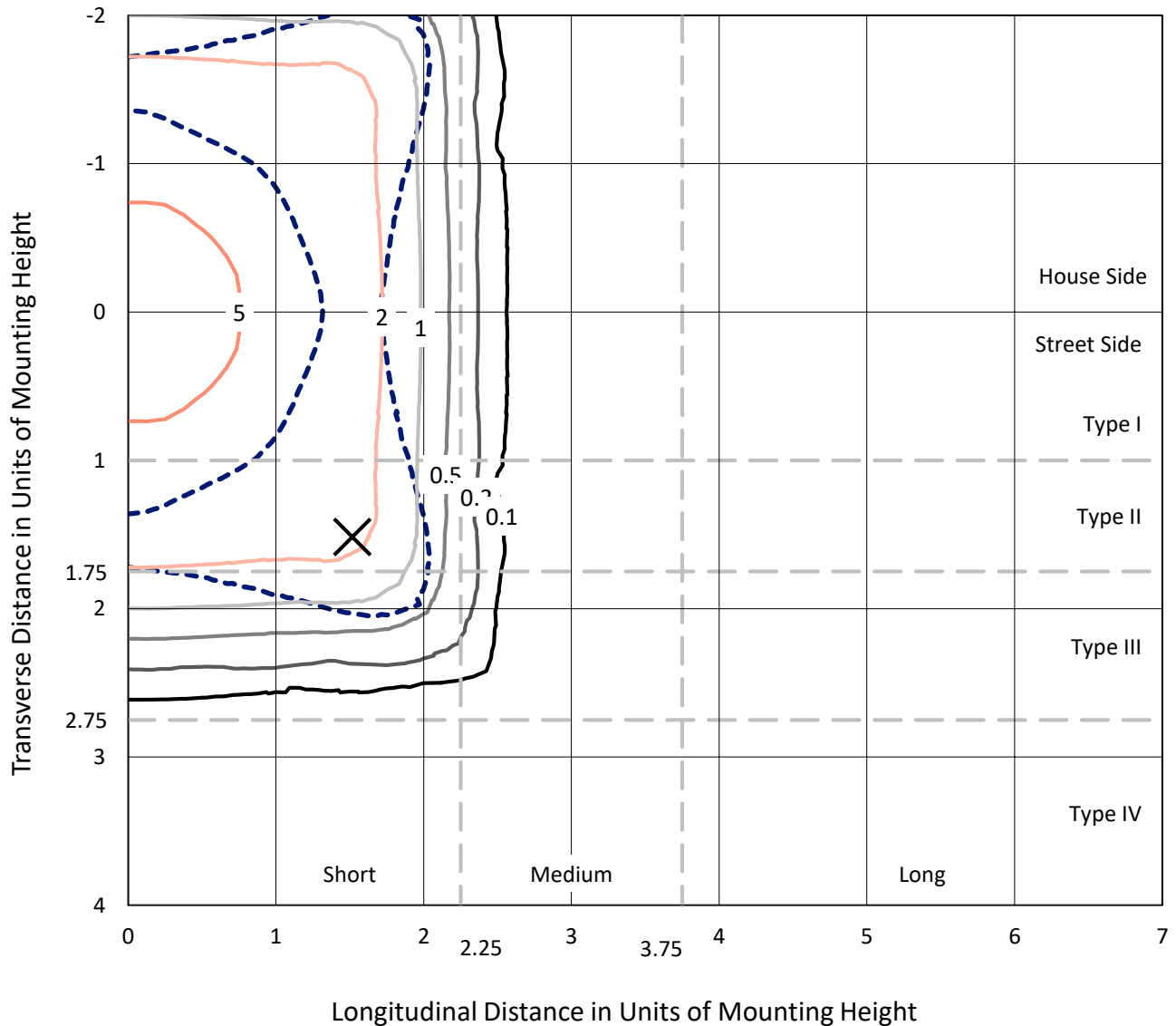


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Iso-Footcandle Lines of Horizontal Illumination

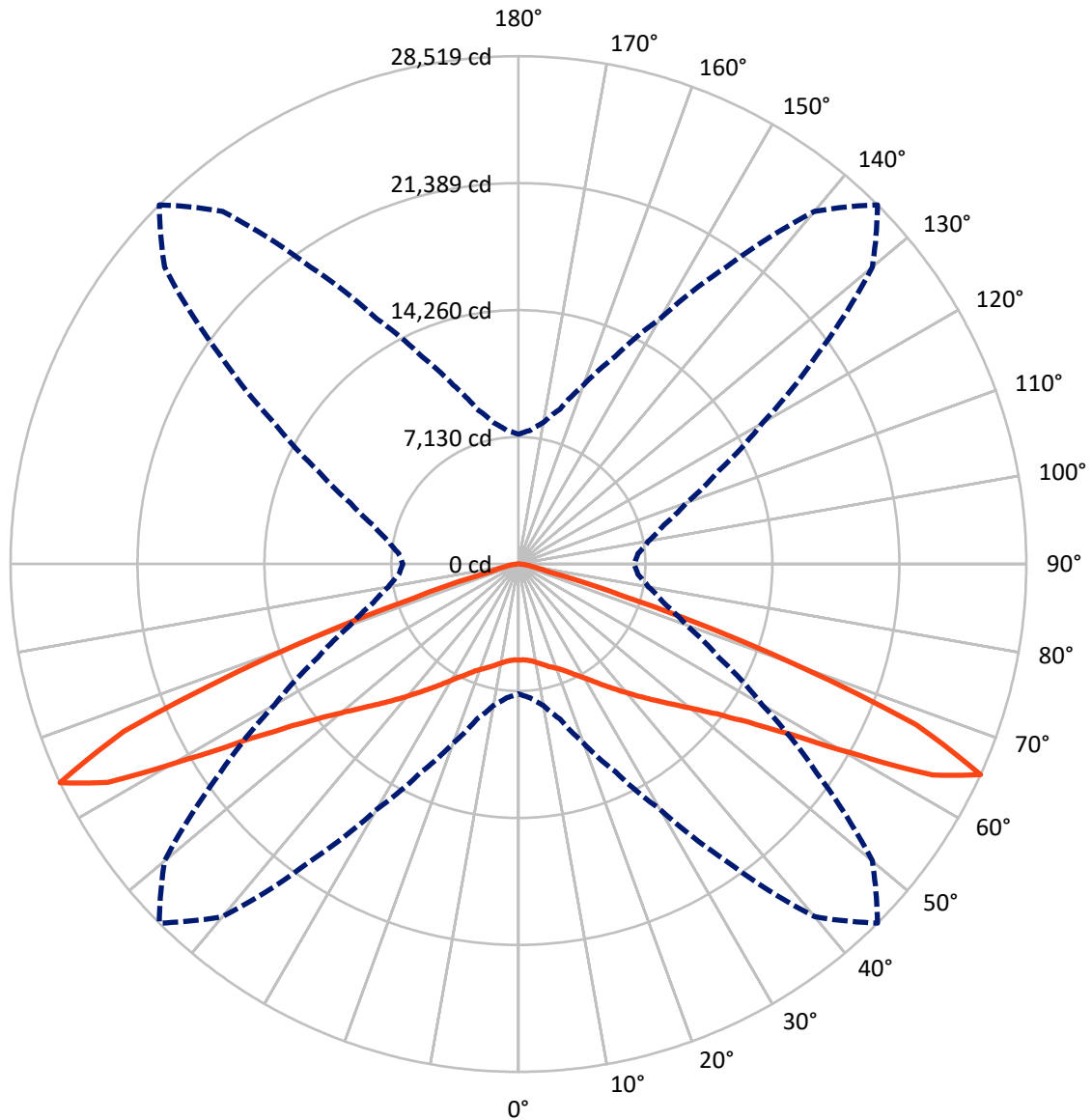
✕ Max cd
 - - - 1/2 Max cd



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 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23820.5	0.0	23820.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23820.5	0.0	23820.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	47641.0	0.0	47641.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	525.4	1.1
10°-20°	1685.1	3.5
20°-30°	3150.8	6.6
30°-40°	5328.9	11.2
40°-50°	8713.3	18.3
50°-60°	13855.5	29.1
60°-70°	12524.4	26.3
70°-80°	1585.0	3.3
80°-90°	272.7	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°	47641.0	100.0
0°-180°	47641.0	100.0



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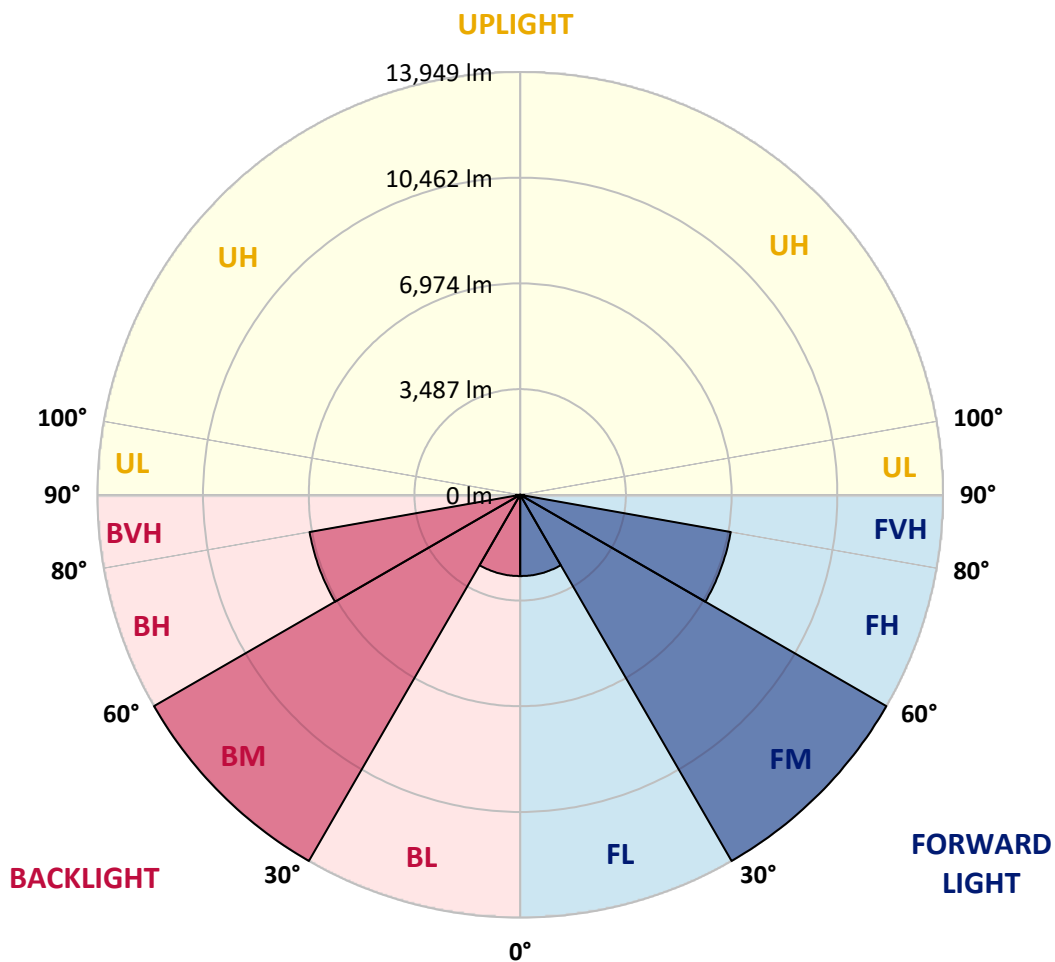
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2680.6	5.6			
FM	(30°-60°)	13948.8	29.3			
FH	(60°-80°)	7054.7	14.8			G3/7500
FVH	(80°-90°)	136.3	0.3			G2/225
BL	(0°-30°)	2680.6	5.6	B4/5000		
BM	(30°-60°)	13948.8	29.3	B5		
BH	(60°-80°)	7054.7	14.8	B5		G3/7500
BVH	(80°-90°)	136.3	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-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5390.6	5390.6	5390.6	5390.6	5390.6	5390.6	5390.6	5390.6	5390.6	5390.6	5390.6
2.5°	5395.1	5399.5	5404.0	5399.5	5404.0	5397.3	5392.8	5399.5	5392.8	5386.1	5390.6
5°	5441.9	5444.2	5444.2	5437.5	5444.2	5439.7	5433.0	5441.9	5435.2	5428.5	5433.0
7.5°	5520.0	5528.9	5522.2	5515.6	5520.0	5515.6	5511.1	5513.3	5511.1	5504.4	5506.6
10°	5624.9	5631.6	5627.1	5624.9	5629.3	5627.1	5622.7	5620.4	5622.7	5616.0	5616.0
12.5°	5752.1	5749.8	5747.6	5749.8	5756.5	5756.5	5754.3	5756.5	5761.0	5763.2	5758.8
15°	5877.0	5881.5	5881.5	5881.5	5894.9	5906.0	5912.7	5917.2	5926.1	5928.3	5919.4
17.5°	6033.2	6033.2	6031.0	6033.2	6046.6	6064.4	6071.1	6080.0	6089.0	6095.7	6084.5
20°	6207.2	6211.7	6211.7	6216.2	6234.0	6254.1	6254.1	6258.5	6254.1	6258.5	6251.9
22.5°	6419.2	6432.6	6432.6	6434.8	6452.7	6477.2	6470.5	6477.2	6466.0	6475.0	6466.0
25°	6695.9	6715.9	6711.5	6711.5	6724.9	6740.5	6742.7	6756.1	6753.9	6765.0	6758.3
27.5°	7008.2	7039.5	7048.4	7046.2	7055.1	7070.7	7075.2	7090.8	7081.9	7090.8	7086.3
30°	7383.1	7396.5	7414.3	7421.0	7432.2	7447.8	7447.8	7450.0	7438.9	7452.2	7458.9
32.5°	7771.3	7795.8	7813.7	7853.9	7873.9	7885.1	7882.9	7887.3	7876.2	7894.0	7907.4
35°	8284.5	8302.3	8331.3	8362.6	8389.4	8387.1	8380.4	8382.7	8382.7	8398.3	8411.7
37.5°	8902.5	8907.0	8944.9	8989.5	9002.9	8989.5	8949.4	8940.5	8920.4	8940.5	8962.8
40°	9556.3	9571.9	9647.8	9676.8	9683.5	9658.9	9600.9	9567.4	9522.8	9547.3	9578.6
42.5°	10241.3	10272.5	10341.7	10393.0	10415.3	10399.7	10319.3	10268.0	10210.0	10223.4	10254.6
45°	10999.9	11037.8	11136.0	11185.1	11227.5	11202.9	11124.8	11046.7	10955.2	10961.9	11011.0
47.5°	11847.7	11885.7	12012.8	12095.4	12117.7	12113.2	12026.2	11919.1	11794.2	11789.7	11832.1
50°	12798.2	12836.2	12994.6	13121.7	13186.5	13179.8	13077.1	12925.4	12773.7	12775.9	12829.5
52.5°	13726.4	13773.3	13938.4	14157.0	14284.2	14375.7	14313.2	14170.4	13985.2	13989.7	14038.8
55°	14596.6	14674.7	14864.3	15161.1	15397.6	15654.2	15727.8	15723.3	15611.8	15643.0	15692.1
57.5°	15018.3	15134.3	15426.6	15895.1	16377.1	16899.2	17341.0	17671.2	17811.8	18023.7	17974.6
60°	14219.5	14404.7	14835.3	15524.8	16477.5	17566.3	18733.2	19873.4	20846.2	21580.3	21158.6
62.5°	11642.5	11883.4	12405.5	13289.1	14730.5	16473.0	18706.5	21401.8	24338.0	26109.6	24844.5
65°	7284.9	7534.8	8065.8	9011.9	10698.7	12865.2	15895.1	20362.0	25848.6	28519.3	25944.5
67.5°	2840.3	2976.4	3264.3	3868.9	5136.2	7064.0	10105.2	15174.5	21736.5	24077.0	21332.6
70°	1423.5	1436.9	1490.4	1602.0	1874.2	2434.3	3703.8	7035.0	12465.8	15056.2	12017.3
72.5°	1028.6	1030.8	1057.6	1106.7	1193.7	1318.6	1559.6	2153.1	4054.1	6196.1	3799.8
75°	787.6	796.5	812.2	838.9	885.8	948.3	1035.3	1240.6	1537.3	1782.7	1499.4
77.5°	606.9	624.7	635.9	660.4	689.4	731.8	756.4	834.5	970.6	1021.9	1006.3
80°	461.9	477.5	502.0	522.1	542.2	562.3	553.3	589.0	660.4	702.8	680.5
82.5°	294.5	312.4	383.8	401.6	410.5	423.9	408.3	410.5	441.8	468.6	441.8
85°	189.7	200.8	243.2	265.5	267.7	276.7	270.0	254.4	254.4	232.0	261.1
87.5°	87.0	89.2	109.3	129.4	133.9	120.5	118.3	113.8	91.5	87.0	93.7
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°	5390.6	5390.6	5390.6	5390.6	5390.6	5390.6	5390.6	5390.6
2.5°	5388.4	5392.8	5395.1	5401.8	5404.0	5404.0	5406.2	5410.7
5°	5430.8	5437.5	5439.7	5448.6	5450.8	5448.6	5453.1	5455.3
7.5°	5506.6	5517.8	5522.2	5531.2	5524.5	5533.4	5535.6	5535.6
10°	5618.2	5629.3	5631.6	5640.5	5636.0	5640.5	5640.5	5636.0
12.5°	5765.4	5767.7	5761.0	5767.7	5758.8	5763.2	5756.5	5752.1
15°	5928.3	5921.6	5906.0	5906.0	5892.6	5894.9	5892.6	5890.4
17.5°	6086.7	6073.4	6062.2	6057.7	6046.6	6044.3	6037.7	6037.7
20°	6260.8	6254.1	6247.4	6238.5	6227.3	6216.2	6213.9	6218.4
22.5°	6470.5	6468.3	6468.3	6463.8	6448.2	6437.0	6430.3	6430.3
25°	6751.6	6731.6	6731.6	6729.3	6722.6	6715.9	6702.6	6709.3
27.5°	7068.5	7057.3	7066.2	7064.0	7057.3	7057.3	7048.4	7048.4
30°	7458.9	7454.5	7467.9	7456.7	7434.4	7432.2	7423.2	7412.1
32.5°	7909.6	7905.2	7925.3	7911.9	7876.2	7856.1	7838.2	7829.3
35°	8411.7	8413.9	8438.4	8429.5	8389.4	8376.0	8344.7	8340.3
37.5°	8960.5	8996.2	9038.6	9047.6	9014.1	9005.2	8971.7	8953.8
40°	9605.4	9652.2	9716.9	9732.5	9696.8	9690.1	9643.3	9618.7
42.5°	10292.6	10372.9	10453.2	10466.6	10430.9	10395.2	10350.6	10332.7
45°	11060.1	11156.1	11260.9	11287.7	11234.1	11191.8	11133.7	11133.7
47.5°	11921.4	12041.8	12160.1	12233.7	12184.6	12140.0	12070.8	12026.2
50°	12938.8	13103.9	13257.9	13333.7	13255.6	13170.8	13050.4	13010.2
52.5°	14215.0	14393.5	14527.4	14487.3	14366.8	14248.5	14116.9	14063.3
55°	15843.8	15904.1	15904.1	15752.3	15511.4	15312.8	15105.3	15036.1
57.5°	17880.9	17648.9	17291.9	16838.9	16270.0	15774.7	15440.0	15281.6
60°	20275.0	19159.4	17898.8	16660.4	15643.0	14804.1	14306.5	14078.9
62.5°	21870.3	18951.9	16426.2	14438.2	12974.5	11963.8	11276.5	11008.8
65°	20440.1	15805.9	12423.4	10044.9	8449.6	7421.0	6740.5	6490.6
67.5°	14971.4	9904.3	6615.5	4741.3	3474.0	2771.2	2492.3	2376.2
70°	6720.4	3487.4	2137.5	1668.9	1439.1	1320.9	1269.6	1251.7
72.5°	2025.9	1465.9	1236.1	1115.6	1024.1	966.1	923.7	919.3
75°	1222.7	1017.4	903.6	832.2	774.2	727.4	705.1	698.4
77.5°	854.6	747.5	693.9	642.6	598.0	562.3	542.2	526.6
80°	600.2	548.9	524.3	495.3	466.3	432.9	403.8	390.5
82.5°	401.6	390.5	390.5	372.6	348.1	316.8	258.8	245.4
85°	258.8	256.6	261.1	254.4	236.5	203.0	167.3	158.4
87.5°	120.5	122.7	136.1	133.9	129.4	107.1	84.8	80.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)