

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: P192577

Luminaire Tested: **GAN-AF-09-LED-U-5NQ-7030-600-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192577
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-7030-600-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34978.3 lumens
Efficiency: N/A
Efficacy: 120.6 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 - G3

Input Watts (W): 290
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

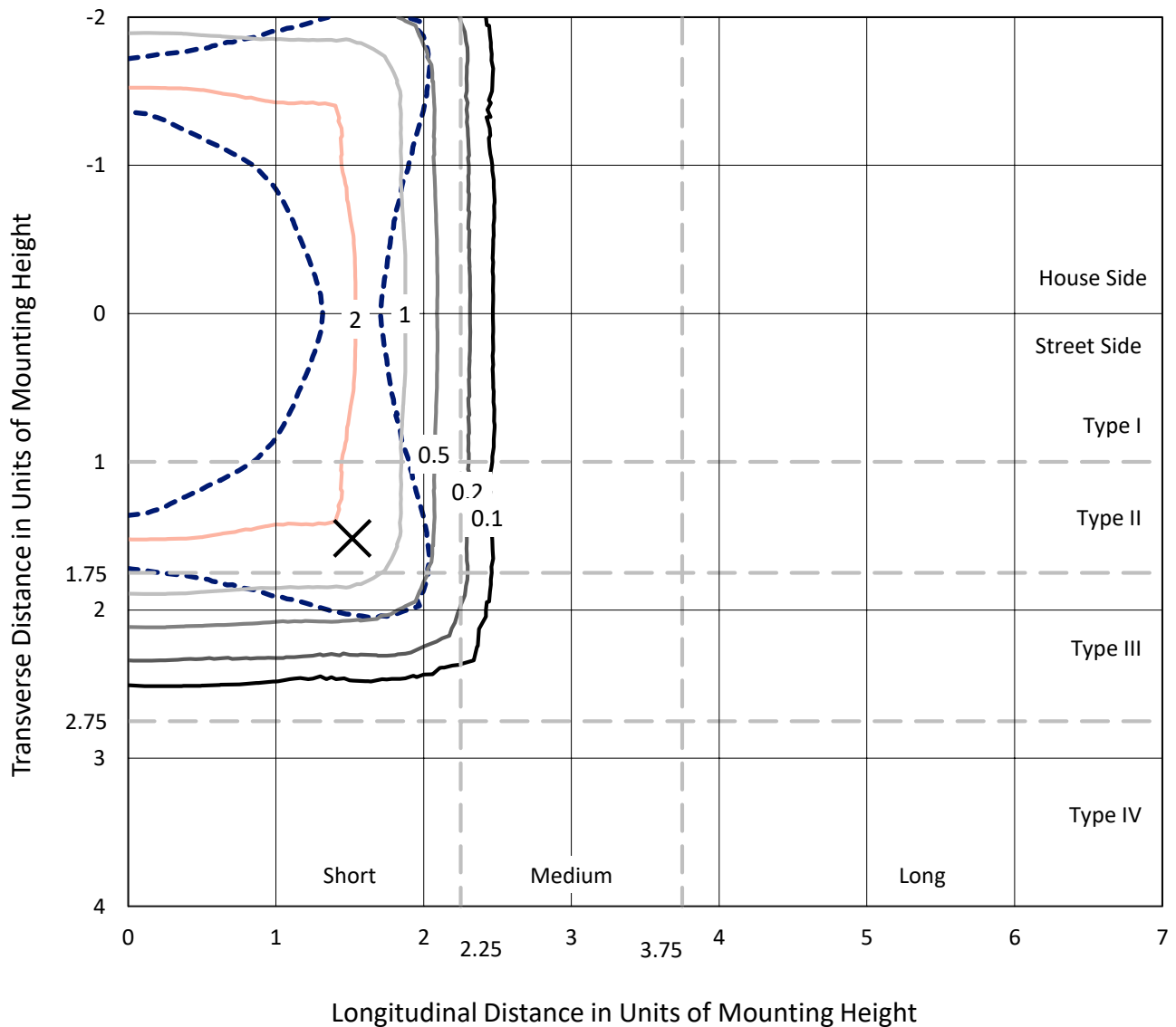


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

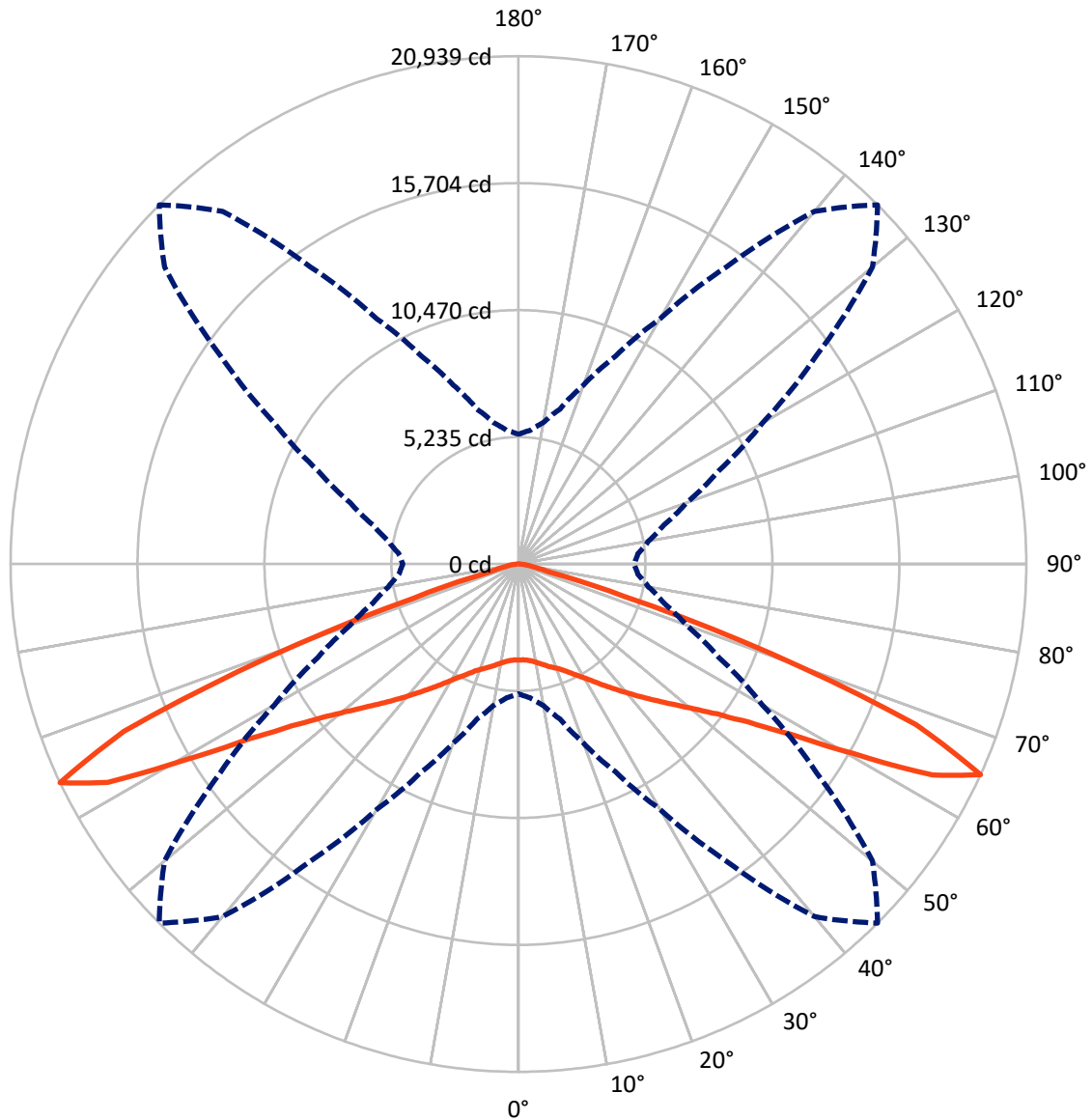


Based on 30 foot mounting height. Maximum calculated value = 4.4 fc
 Type V - Short - Full Cutoff

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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	17489.1	0.0	17489.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17489.1	0.0	17489.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	34978.3	0.0	34978.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.8	1.1
10°-20°	1237.2	3.5
20°-30°	2313.3	6.6
30°-40°	3912.5	11.2
40°-50°	6397.3	18.3
50°-60°	10172.8	29.1
60°-70°	9195.5	26.3
70°-80°	1163.7	3.3
80°-90°	200.2	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°	34978.3	100.0
0°-180°	34978.3	100.0

Coefficient of Utilization



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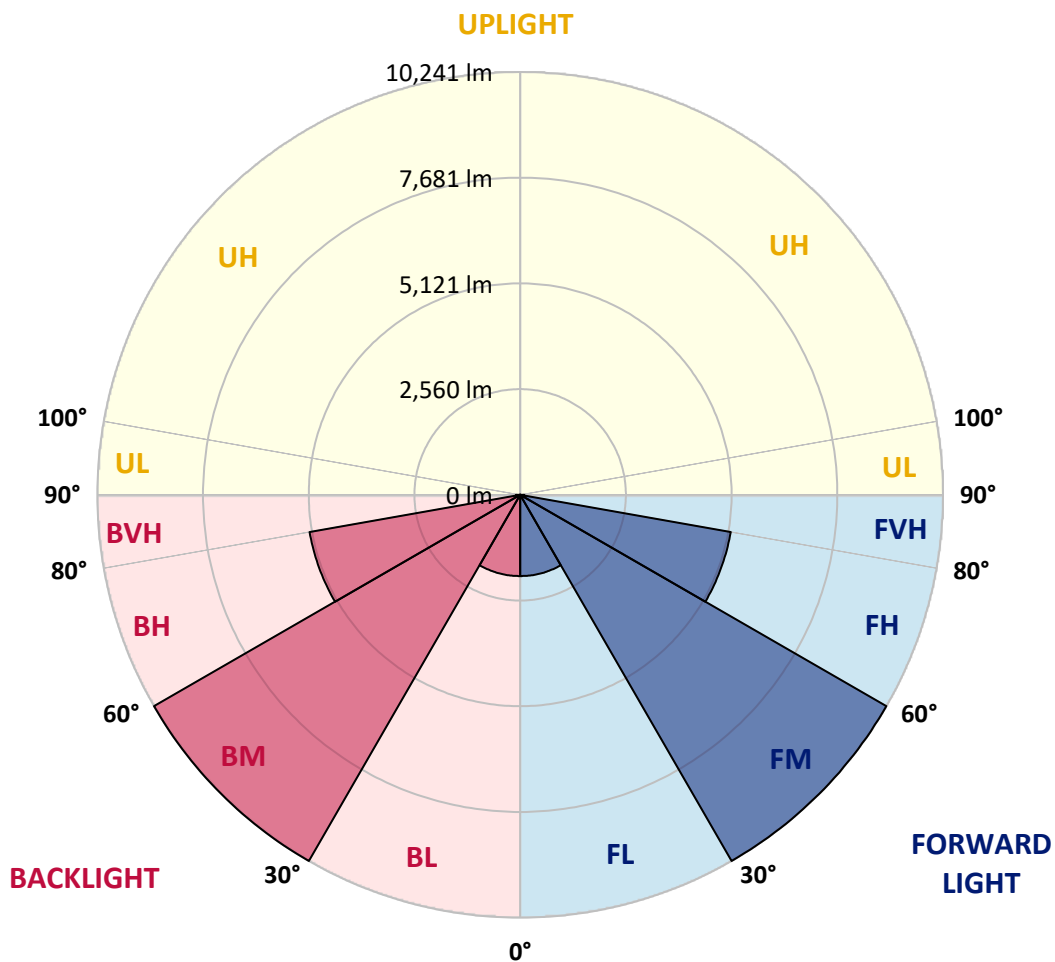
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1968.1	5.6			
FM (30°-60°)	10241.3	29.3			
FH (60°-80°)	5179.6	14.8			G3/7500
FVH (80°-90°)	100.1	0.3			G2/225
BL (0°-30°)	1968.1	5.6	B3/2500		
BM (30°-60°)	10241.3	29.3	B5		
BH (60°-80°)	5179.6	14.8	B5		G3/7500
BVH (80°-90°)	100.1	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°	3957.8	3957.8	3957.8	3957.8	3957.8	3957.8	3957.8	3957.8	3957.8	3957.8	3957.8
2.5°	3961.0	3964.4	3967.6	3964.4	3967.6	3962.8	3959.4	3964.4	3959.4	3954.5	3957.8
5°	3995.5	3997.1	3997.1	3992.3	3997.1	3993.9	3988.9	3995.5	3990.5	3985.7	3988.9
7.5°	4052.9	4059.4	4054.5	4049.5	4052.9	4049.5	4046.3	4047.9	4046.3	4041.4	4043.0
10°	4129.8	4134.7	4131.4	4129.8	4133.1	4131.4	4128.2	4126.5	4128.2	4123.2	4123.2
12.5°	4223.2	4221.6	4219.9	4221.6	4226.4	4226.4	4224.8	4226.4	4229.8	4231.4	4228.2
15°	4314.9	4318.3	4318.3	4318.3	4328.1	4336.2	4341.1	4344.3	4350.9	4352.6	4346.0
17.5°	4429.6	4429.6	4427.9	4429.6	4439.4	4452.6	4457.4	4464.0	4470.6	4475.5	4467.3
20°	4557.4	4560.7	4560.7	4564.0	4577.1	4591.7	4591.7	4595.0	4591.7	4595.0	4590.1
22.5°	4713.0	4722.8	4722.8	4724.5	4737.6	4755.6	4750.7	4755.6	4747.5	4754.0	4747.5
25°	4916.1	4930.9	4927.6	4927.6	4937.4	4948.9	4950.5	4960.4	4958.7	4966.9	4962.0
27.5°	5145.4	5168.4	5174.9	5173.3	5179.9	5191.4	5194.6	5206.1	5199.5	5206.1	5202.8
30°	5420.7	5430.5	5443.7	5448.5	5456.7	5468.2	5468.2	5469.8	5461.7	5471.4	5476.4
32.5°	5705.7	5723.8	5736.8	5766.3	5781.1	5789.3	5787.7	5791.0	5782.8	5795.8	5805.7
35°	6082.5	6095.6	6116.9	6139.9	6159.5	6157.9	6152.9	6154.6	6154.6	6166.0	6175.9
37.5°	6536.3	6539.6	6567.3	6600.2	6609.9	6600.2	6570.7	6564.1	6549.4	6564.1	6580.4
40°	7016.3	7027.8	7083.4	7104.7	7109.6	7091.6	7049.1	7024.5	6991.7	7009.7	7032.7
42.5°	7519.2	7542.1	7592.9	7630.5	7646.9	7635.5	7576.5	7538.9	7496.3	7506.1	7529.0
45°	8076.1	8104.0	8176.1	8212.2	8243.3	8225.2	8167.9	8110.6	8043.4	8048.2	8084.3
47.5°	8698.6	8726.5	8819.9	8880.5	8896.9	8893.6	8829.7	8751.1	8659.4	8656.1	8687.2
50°	9396.6	9424.3	9540.6	9634.1	9681.6	9676.6	9601.2	9489.9	9378.5	9380.1	9419.5
52.5°	10078.0	10112.4	10233.7	10394.2	10487.6	10554.7	10508.9	10404.0	10268.0	10271.4	10307.3
55°	10716.9	10774.2	10913.5	11131.4	11304.9	11493.4	11547.4	11544.2	11462.3	11485.3	11521.2
57.5°	11026.5	11111.6	11326.3	11670.3	12024.1	12407.5	12731.9	12974.3	13077.5	13233.2	13197.1
60°	10440.0	10576.0	10892.2	11398.4	12097.8	12897.3	13754.0	14591.1	15305.4	15844.3	15534.7
62.5°	8547.9	8724.9	9108.2	9757.0	10815.1	12094.6	13734.4	15713.3	17869.2	19169.9	18241.0
65°	5348.6	5532.2	5922.0	6616.5	7854.9	9445.7	11670.3	14950.0	18978.2	20939.0	19048.6
67.5°	2085.4	2185.3	2396.6	2840.6	3771.1	5186.4	7419.2	11141.1	15959.1	17677.5	15662.6
70°	1045.2	1055.0	1094.3	1176.1	1376.0	1787.3	2719.4	5165.1	9152.4	11054.3	8823.1
72.5°	755.2	756.8	776.5	812.6	876.4	968.1	1145.0	1580.9	2976.5	4549.2	2789.8
75°	578.3	584.9	596.3	616.0	650.3	696.2	760.1	910.7	1128.6	1308.9	1100.9
77.5°	445.6	458.7	466.9	484.9	506.2	537.3	555.4	612.7	712.6	750.3	738.8
80°	339.1	350.6	368.6	383.3	398.0	412.8	406.2	432.4	484.9	516.0	499.7
82.5°	216.3	229.3	281.8	294.9	301.4	311.3	299.8	301.4	324.4	344.0	324.4
85°	139.2	147.4	178.5	194.9	196.5	203.1	198.2	186.8	186.8	170.3	191.6
87.5°	63.9	65.5	80.3	95.0	98.4	88.5	86.9	83.6	67.2	63.9	68.9
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°	3957.8	3957.8	3957.8	3957.8	3957.8	3957.8	3957.8	3957.8
2.5°	3956.2	3959.4	3961.0	3966.0	3967.6	3967.6	3969.3	3972.5
5°	3987.3	3992.3	3993.9	4000.4	4002.0	4000.4	4003.7	4005.3
7.5°	4043.0	4051.3	4054.5	4061.0	4056.1	4062.7	4064.3	4064.3
10°	4124.9	4133.1	4134.7	4141.3	4137.9	4141.3	4141.3	4137.9
12.5°	4233.0	4234.7	4229.8	4234.7	4228.2	4231.4	4226.4	4223.2
15°	4352.6	4347.7	4336.2	4336.2	4326.4	4328.1	4326.4	4324.8
17.5°	4468.9	4459.1	4450.9	4447.6	4439.4	4437.8	4432.8	4432.8
20°	4596.6	4591.7	4586.8	4580.2	4572.2	4564.0	4562.3	4565.6
22.5°	4750.7	4749.1	4749.1	4745.7	4734.3	4726.1	4721.2	4721.2
25°	4957.1	4942.4	4942.4	4940.7	4935.8	4930.9	4921.0	4926.0
27.5°	5189.7	5181.5	5188.0	5186.4	5181.5	5181.5	5174.9	5174.9
30°	5476.4	5473.2	5482.9	5474.8	5458.4	5456.7	5450.2	5441.9
32.5°	5807.3	5804.1	5818.7	5809.0	5782.8	5768.1	5754.9	5748.3
35°	6175.9	6177.5	6195.5	6189.0	6159.5	6149.6	6126.7	6123.4
37.5°	6578.8	6605.0	6636.2	6642.8	6618.2	6611.6	6587.0	6573.9
40°	7052.3	7086.7	7134.2	7145.7	7119.5	7114.5	7080.1	7062.1
42.5°	7556.8	7615.8	7674.8	7684.6	7658.4	7632.2	7599.4	7586.3
45°	8120.3	8190.8	8267.8	8287.6	8248.2	8217.1	8174.4	8174.4
47.5°	8752.8	8841.1	8928.0	8982.1	8946.0	8913.3	8862.4	8829.7
50°	9499.8	9621.0	9734.0	9789.6	9732.4	9670.1	9581.6	9552.1
52.5°	10436.8	10567.8	10666.1	10636.6	10548.1	10461.3	10364.7	10325.3
55°	11632.7	11676.9	11676.9	11565.4	11388.5	11242.8	11090.4	11039.5
57.5°	13128.3	12957.9	12695.8	12363.2	11945.6	11581.8	11336.0	11219.9
60°	14886.0	14066.9	13141.3	12232.2	11485.3	10869.2	10503.9	10336.8
62.5°	16057.3	13914.6	12060.1	10600.6	9526.0	8783.9	8279.3	8082.7
65°	15007.2	11604.8	9121.3	7375.0	6203.7	5448.5	4948.9	4765.5
67.5°	10992.1	7271.9	4857.1	3481.1	2550.6	2034.6	1829.9	1744.7
70°	4934.1	2560.5	1569.4	1225.4	1056.6	969.7	932.1	919.0
72.5°	1487.4	1076.3	907.5	819.1	751.9	709.3	678.2	674.9
75°	897.7	747.0	663.4	611.1	568.4	534.1	517.7	512.8
77.5°	627.3	548.8	509.4	471.8	439.0	412.8	398.0	386.6
80°	440.7	402.9	384.9	363.8	342.4	317.8	296.5	286.7
82.5°	294.9	286.7	286.7	273.5	255.5	232.6	190.0	180.2
85°	190.0	188.4	191.6	186.8	173.6	149.0	122.9	116.4
87.5°	88.5	90.1	100.0	98.4	95.0	78.6	62.3	59.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)