

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: P192573

Luminaire Tested: **GAN-AF-05-LED-U-5NQ-7030-600-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192573
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-05-LED-U-5NQ-7030-600-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 19555.2 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 162
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

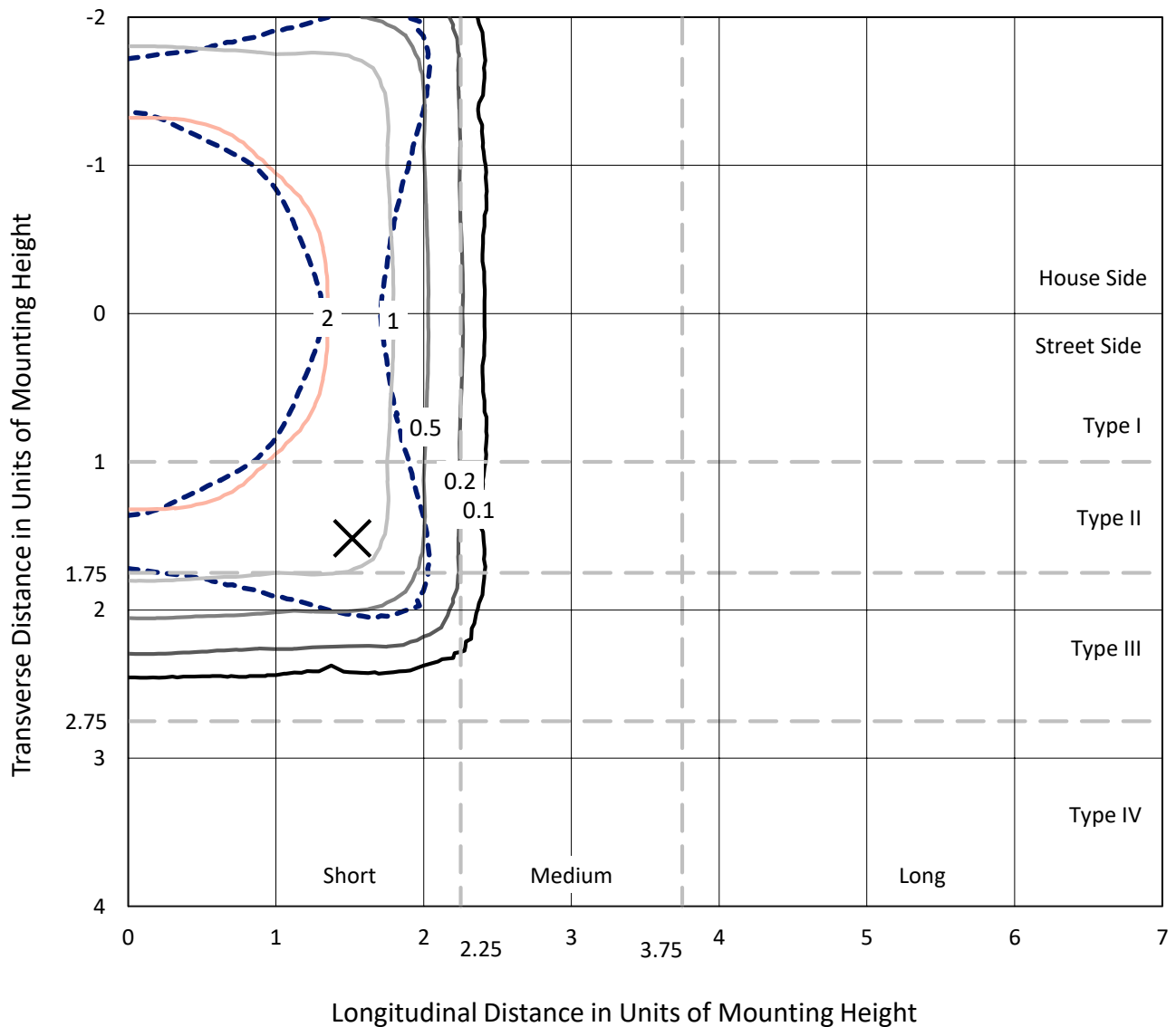


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

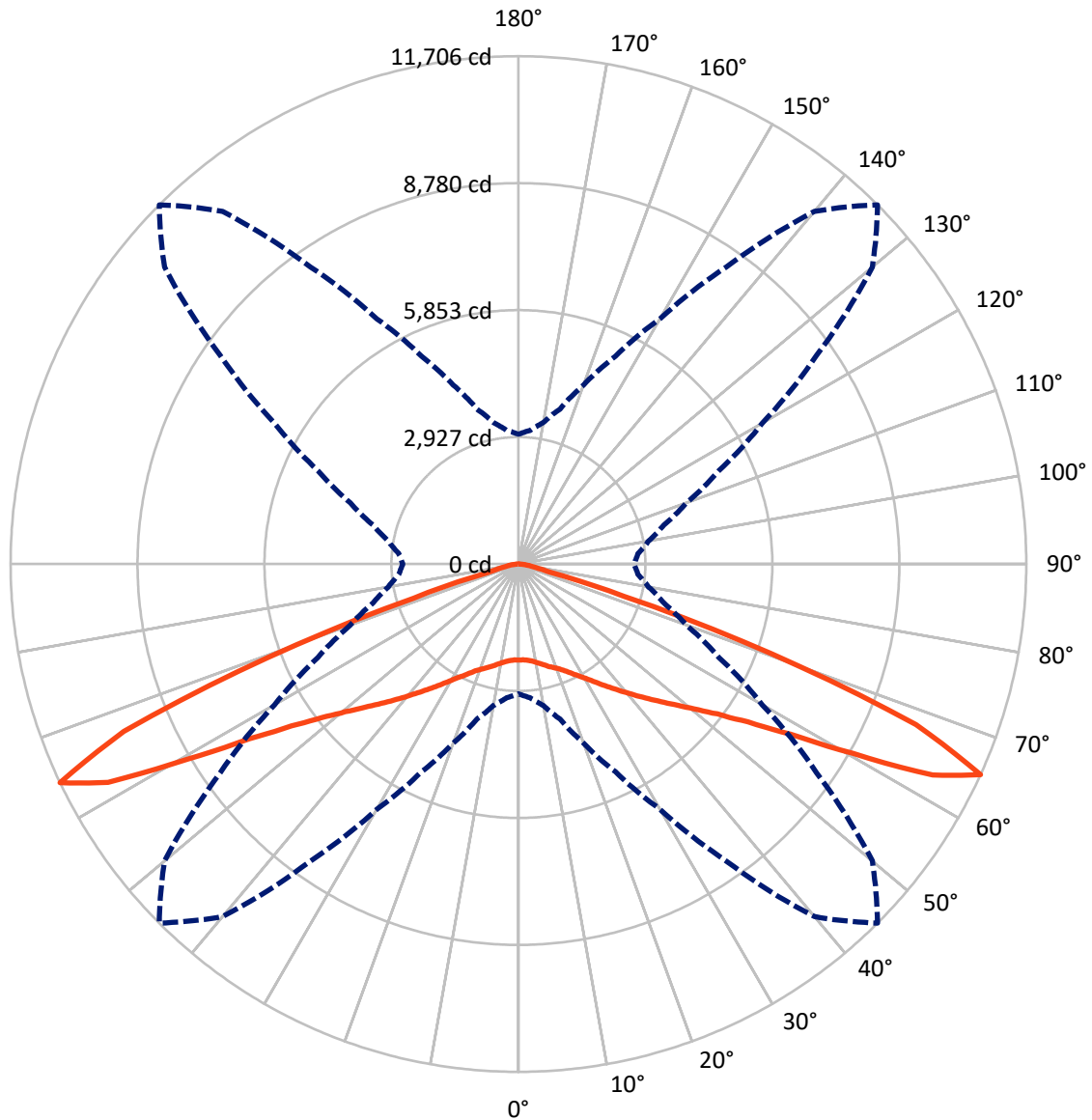


Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Short - Full Cutoff

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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	9777.6	0.0	9777.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9777.6	0.0	9777.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	19555.2	0.0	19555.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.7	1.1
10°-20°	691.7	3.5
20°-30°	1293.3	6.6
30°-40°	2187.3	11.2
40°-50°	3576.5	18.3
50°-60°	5687.3	29.1
60°-70°	5140.9	26.3
70°-80°	650.6	3.3
80°-90°	111.9	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°	19555.2	100.0
0°-180°	19555.2	100.0

Coefficient of Utilization



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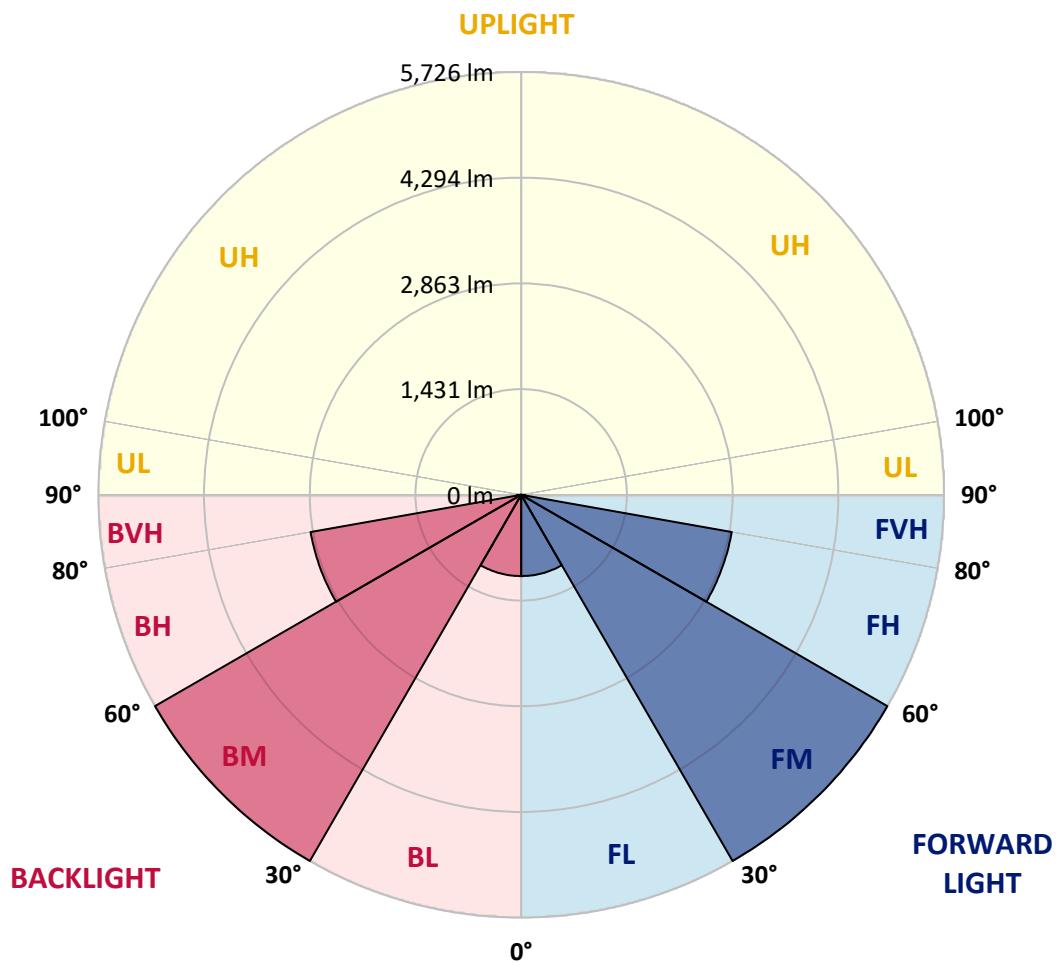
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1100.3	5.6			
FM	(30°-60°)	5725.6	29.3			
FH	(60°-80°)	2895.7	14.8			G2/5000
FVH	(80°-90°)	56.0	0.3			G1/100
BL	(0°-30°)	1100.3	5.6	B3/2500		
BM	(30°-60°)	5725.6	29.3	B4/8500		
BH	(60°-80°)	2895.7	14.8	B4/5000		G2/5000
BVH	(80°-90°)	56.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2212.7	2212.7	2212.7	2212.7	2212.7	2212.7	2212.7	2212.7	2212.7	2212.7	2212.7
2.5°	2214.4	2216.4	2218.2	2216.4	2218.2	2215.4	2213.6	2216.4	2213.6	2210.9	2212.7
5°	2233.7	2234.7	2234.7	2231.9	2234.7	2232.8	2230.1	2233.7	2231.0	2228.3	2230.1
7.5°	2265.8	2269.5	2266.7	2264.0	2265.8	2264.0	2262.1	2263.1	2262.1	2259.4	2260.3
10°	2308.8	2311.6	2309.7	2308.8	2310.8	2309.7	2307.9	2307.0	2307.9	2305.2	2305.2
12.5°	2361.1	2360.1	2359.2	2360.1	2362.8	2362.8	2361.9	2362.8	2364.7	2365.7	2363.9
15°	2412.3	2414.2	2414.2	2414.2	2419.6	2424.3	2426.9	2428.9	2432.4	2433.4	2429.7
17.5°	2476.5	2476.5	2475.5	2476.5	2482.0	2489.3	2491.9	2495.7	2499.3	2502.0	2497.5
20°	2547.9	2549.7	2549.7	2551.5	2558.9	2567.1	2567.1	2568.9	2567.1	2568.9	2566.2
22.5°	2634.9	2640.4	2640.4	2641.4	2648.7	2658.8	2656.0	2658.8	2654.1	2657.7	2654.1
25°	2748.4	2756.7	2754.9	2754.9	2760.3	2766.8	2767.6	2773.2	2772.2	2776.9	2774.1
27.5°	2876.7	2889.5	2893.1	2892.2	2895.9	2902.4	2904.1	2910.5	2906.9	2910.5	2908.7
30°	3030.6	3036.0	3043.3	3046.1	3050.7	3057.1	3057.1	3058.0	3053.5	3058.9	3061.7
32.5°	3190.0	3199.9	3207.3	3223.8	3232.0	3236.6	3235.7	3237.5	3233.0	3240.3	3245.8
35°	3400.5	3407.9	3419.9	3432.6	3443.7	3442.6	3439.9	3440.8	3440.8	3447.2	3452.7
37.5°	3654.1	3656.1	3671.6	3689.9	3695.4	3689.9	3673.4	3669.8	3661.6	3669.8	3679.0
40°	3922.5	3929.0	3960.1	3972.0	3974.8	3964.7	3940.9	3927.1	3908.9	3918.9	3931.7
42.5°	4203.8	4216.6	4244.9	4266.0	4275.2	4268.8	4235.8	4214.6	4190.8	4196.4	4209.2
45°	4515.1	4530.7	4571.0	4591.2	4608.5	4598.5	4566.4	4534.4	4496.8	4499.6	4519.7
47.5°	4863.1	4878.8	4930.9	4964.8	4973.9	4972.2	4936.5	4892.4	4841.2	4839.3	4856.7
50°	5253.3	5268.8	5333.9	5386.1	5412.7	5409.9	5367.8	5305.5	5243.3	5244.1	5266.1
52.5°	5634.3	5653.5	5721.3	5811.1	5863.3	5900.8	5875.2	5816.5	5740.5	5742.3	5762.6
55°	5991.4	6023.6	6101.4	6223.2	6320.2	6425.5	6455.8	6454.0	6408.2	6420.9	6441.2
57.5°	6164.5	6212.2	6332.1	6524.5	6722.2	6936.7	7117.9	7253.5	7311.2	7398.2	7378.1
60°	5836.7	5912.7	6089.4	6372.4	6763.4	7210.4	7689.4	8157.4	8556.7	8858.0	8685.0
62.5°	4778.9	4877.8	5092.1	5454.8	6046.4	6761.7	7678.4	8784.8	9990.0	10717.2	10197.9
65°	2990.2	3092.8	3310.8	3699.1	4391.4	5280.7	6524.5	8358.0	10610.0	11706.4	10649.5
67.5°	1165.9	1221.7	1339.8	1588.1	2108.2	2899.5	4147.9	6228.7	8922.2	9882.9	8756.4
70°	584.3	589.8	611.8	657.6	769.3	999.1	1520.4	2887.6	5116.8	6180.1	4932.7
72.5°	422.2	423.2	434.1	454.3	490.0	541.3	640.1	883.8	1664.1	2543.3	1559.6
75°	323.3	326.9	333.3	344.3	363.7	389.2	424.9	509.2	631.0	731.7	615.4
77.5°	249.1	256.4	261.0	271.1	283.0	300.4	310.6	342.5	398.4	419.4	413.0
80°	189.6	196.0	206.1	214.2	222.6	230.7	227.2	241.8	271.1	288.5	279.3
82.5°	120.8	128.3	157.6	164.9	168.5	174.0	167.6	168.5	181.4	192.3	181.4
85°	77.8	82.4	99.9	108.9	110.0	113.5	110.8	104.5	104.5	95.3	107.2
87.5°	35.7	36.6	44.9	53.1	54.9	49.5	48.5	46.7	37.5	35.7	38.5
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°	2212.7	2212.7	2212.7	2212.7	2212.7	2212.7	2212.7	2212.7
2.5°	2211.7	2213.6	2214.4	2217.3	2218.2	2218.2	2219.0	2220.9
5°	2229.2	2231.9	2232.8	2236.5	2237.4	2236.5	2238.2	2239.3
7.5°	2260.3	2264.8	2266.7	2270.4	2267.6	2271.3	2272.3	2272.3
10°	2306.1	2310.8	2311.6	2315.3	2313.4	2315.3	2315.3	2313.4
12.5°	2366.5	2367.4	2364.7	2367.4	2363.9	2365.7	2362.8	2361.1
15°	2433.4	2430.7	2424.3	2424.3	2418.8	2419.6	2418.8	2417.8
17.5°	2498.4	2493.0	2488.4	2486.5	2482.0	2481.1	2478.3	2478.3
20°	2569.9	2567.1	2564.4	2560.7	2556.1	2551.5	2550.6	2552.6
22.5°	2656.0	2655.0	2655.0	2653.3	2646.8	2642.2	2639.4	2639.4
25°	2771.4	2763.0	2763.0	2762.2	2759.5	2756.7	2751.1	2754.0
27.5°	2901.4	2896.8	2900.5	2899.5	2896.8	2896.8	2893.1	2893.1
30°	3061.7	3059.8	3065.4	3060.8	3051.6	3050.7	3047.0	3042.5
32.5°	3246.6	3244.9	3253.0	3247.6	3233.0	3224.7	3217.3	3213.8
35°	3452.7	3453.6	3463.7	3460.0	3443.7	3438.1	3425.3	3423.4
37.5°	3678.0	3692.8	3710.1	3713.7	3700.1	3696.3	3682.6	3675.3
40°	3942.7	3962.0	3988.5	3994.9	3980.4	3977.5	3958.3	3948.2
42.5°	4224.8	4257.8	4290.7	4296.2	4281.6	4266.9	4248.6	4241.3
45°	4539.8	4579.3	4622.3	4633.2	4611.3	4594.0	4570.1	4570.1
47.5°	4893.4	4942.8	4991.4	5021.5	5001.5	4983.1	4954.7	4936.5
50°	5311.0	5378.8	5441.9	5473.2	5441.0	5406.2	5356.8	5340.3
52.5°	5834.9	5908.0	5963.1	5946.6	5897.2	5848.5	5794.6	5772.6
55°	6503.4	6528.1	6528.1	6465.9	6367.0	6285.4	6200.3	6171.8
57.5°	7339.6	7244.3	7097.8	6911.8	6678.4	6475.0	6337.7	6272.7
60°	8322.3	7864.4	7346.9	6838.6	6420.9	6076.7	5872.3	5778.9
62.5°	8977.1	7779.2	6742.5	5926.4	5325.7	4910.7	4628.7	4518.8
65°	8390.0	6487.9	5099.4	4123.1	3468.3	3046.1	2766.8	2664.2
67.5°	6145.3	4065.4	2715.5	1946.1	1426.0	1137.5	1023.0	975.3
70°	2758.6	1431.6	877.4	685.0	590.8	542.2	521.1	513.7
72.5°	831.6	601.7	507.4	457.9	420.3	396.6	379.1	377.4
75°	501.9	417.6	370.9	341.7	317.8	298.6	289.4	286.7
77.5°	350.7	306.8	284.8	263.8	245.4	230.7	222.6	216.2
80°	246.4	225.3	215.2	203.3	191.4	177.6	165.7	160.3
82.5°	164.9	160.3	160.3	153.0	142.9	130.0	106.2	100.7
85°	106.2	105.3	107.2	104.5	97.1	83.4	68.8	65.0
87.5°	49.5	50.4	55.8	54.9	53.1	43.9	34.9	33.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)