

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: P268651

Luminaire Tested: **GAN-AF-07-LED-U-5WQ-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268651
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
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-5WQ-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31129.6 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 295
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

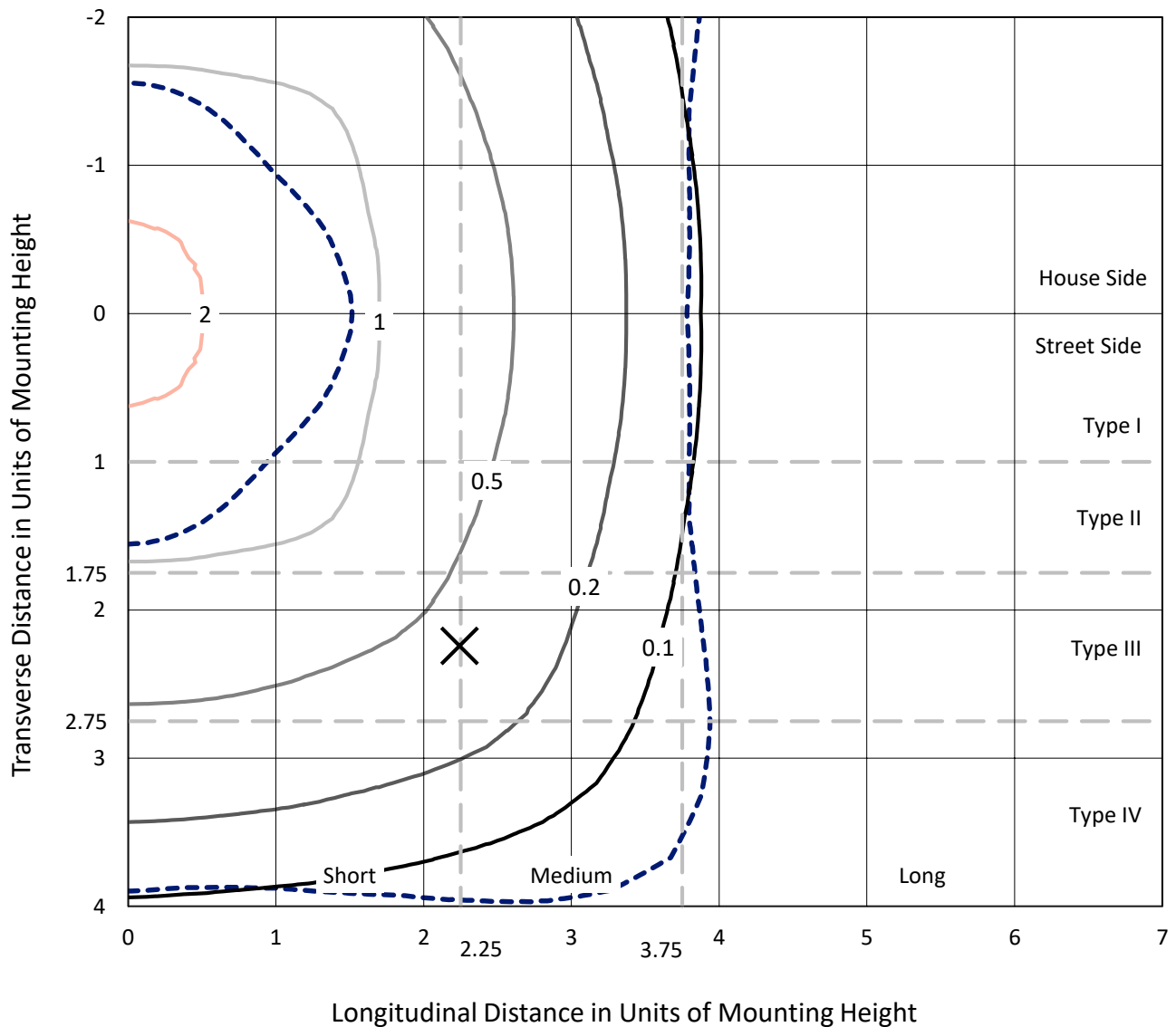


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

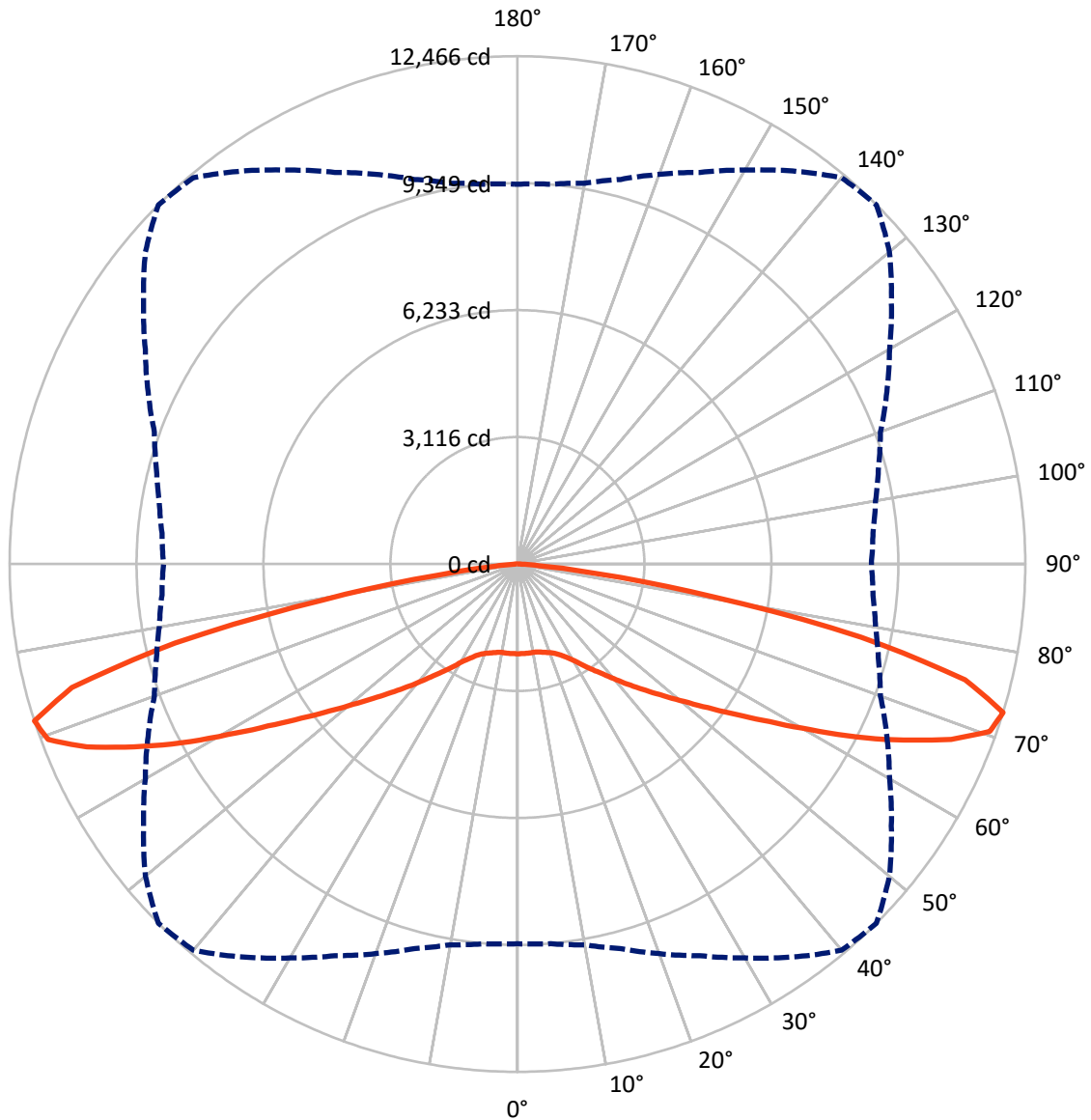


Based on 30 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15564.8	0.0	15564.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15564.8	0.0	15564.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	31129.6	0.0	31129.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.5	0.7
10°-20°	639.3	2.1
20°-30°	1168.3	3.8
30°-40°	2014.3	6.5
40°-50°	3443.5	11.1
50°-60°	5581.4	17.9
60°-70°	9259.4	29.7
70°-80°	8155.4	26.2
80°-90°	657.5	2.1
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°	31129.6	100.0
0°-180°	31129.6	100.0



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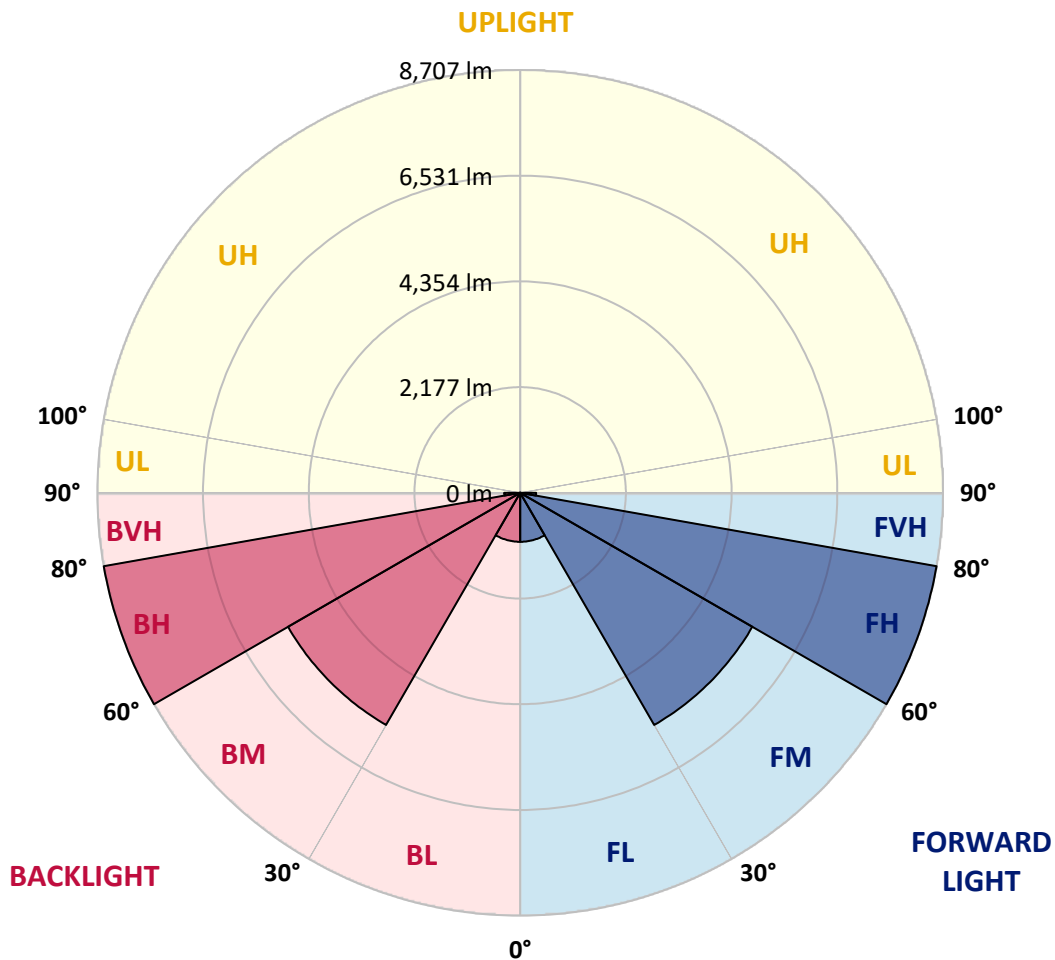
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1009.1	3.2			
FM	(30°-60°)	5519.6	17.7			
FH	(60°-80°)	8707.4	28.0			G4/12000
FVH	(80°-90°)	328.8	1.1			G3/500
BL	(0°-30°)	1009.1	3.2	B3/2500		
BM	(30°-60°)	5519.6	17.7	B4/8500		
BH	(60°-80°)	8707.4	28.0	B5		G4/12000
BVH	(80°-90°)	328.8	1.1			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2204.5	2204.5	2204.5	2204.5	2204.5	2204.5	2204.5	2204.5	2204.5	2204.5	2204.5
2.5°	2204.5	2205.9	2207.3	2205.9	2205.9	2204.5	2203.1	2204.5	2203.1	2200.2	2201.6
5°	2211.5	2214.4	2214.4	2211.5	2213.1	2211.5	2208.8	2210.2	2207.3	2203.1	2203.1
7.5°	2220.3	2221.6	2221.6	2218.8	2220.3	2217.2	2214.4	2213.1	2210.2	2204.5	2200.2
10°	2233.0	2234.4	2233.0	2230.1	2230.1	2225.9	2218.8	2215.8	2210.2	2201.6	2197.3
12.5°	2247.3	2248.7	2247.3	2244.4	2243.0	2235.9	2230.1	2225.9	2221.6	2214.4	2207.3
15°	2267.3	2270.1	2267.3	2261.6	2257.4	2251.6	2248.7	2250.2	2251.6	2245.9	2238.8
17.5°	2304.4	2305.8	2301.5	2288.7	2283.0	2277.3	2277.3	2280.2	2284.4	2281.5	2274.4
20°	2373.0	2368.7	2358.7	2343.0	2335.9	2325.8	2324.5	2325.8	2325.8	2324.5	2318.6
22.5°	2458.7	2455.7	2442.9	2422.9	2412.8	2407.2	2398.7	2391.5	2390.1	2385.8	2380.1
25°	2561.3	2560.0	2544.3	2527.1	2519.9	2512.9	2505.7	2495.8	2487.1	2477.2	2471.4
27.5°	2692.8	2687.0	2664.3	2655.6	2645.7	2641.3	2631.3	2619.9	2612.8	2600.0	2592.8
30°	2836.9	2836.9	2818.4	2815.6	2815.6	2805.5	2794.1	2774.1	2761.3	2748.5	2744.1
32.5°	2981.1	2982.6	2964.0	2969.7	2974.0	2981.1	2984.0	2976.9	2968.3	2966.9	2958.3
35°	3189.6	3184.0	3165.4	3169.6	3168.2	3166.7	3166.7	3182.4	3185.3	3188.2	3171.0
37.5°	3448.1	3448.1	3429.5	3429.5	3420.9	3412.3	3401.0	3411.0	3426.7	3430.8	3419.5
40°	3743.5	3753.6	3730.8	3729.4	3732.2	3705.0	3692.3	3707.9	3717.8	3735.1	3722.1
42.5°	4092.0	4084.9	4062.0	4059.1	4043.5	4034.8	4023.4	4036.3	4052.0	4063.5	4067.6
45°	4426.0	4420.4	4394.7	4394.7	4379.0	4371.8	4377.5	4398.9	4406.0	4421.7	4437.4
47.5°	4755.8	4748.7	4731.6	4738.6	4740.1	4753.0	4771.5	4791.6	4811.5	4833.1	4840.1
50°	5092.9	5094.3	5075.8	5092.9	5114.2	5150.0	5199.8	5232.7	5274.2	5301.3	5309.8
52.5°	5399.8	5405.6	5425.6	5465.5	5508.2	5578.2	5664.0	5743.9	5812.5	5858.0	5855.2
55°	5768.1	5776.7	5825.2	5893.8	5963.8	6069.4	6196.5	6337.8	6452.0	6517.7	6476.3
57.5°	6239.3	6257.9	6312.1	6404.9	6509.2	6646.2	6820.4	7033.2	7210.2	7298.6	7231.6
60°	6886.0	6897.5	6963.2	7066.0	7191.7	7361.5	7594.2	7879.8	8129.8	8246.7	8169.6
62.5°	7738.4	7759.9	7812.6	7916.9	8045.4	8238.1	8522.3	8879.2	9190.5	9353.2	9179.2
65°	8756.5	8824.9	8869.2	8974.8	9094.8	9299.1	9596.0	9978.6	10312.7	10419.8	10218.5
67.5°	9764.4	9824.5	9901.5	10022.8	10144.2	10374.0	10649.6	11020.9	11387.9	11484.9	11172.2
70°	10205.6	10239.9	10359.9	10525.4	10758.2	11029.5	11347.8	11764.7	12218.7	12298.8	11901.9
72.5°	9321.8	9356.0	9490.4	9771.7	10177.1	10608.3	11163.6	11776.2	12375.8	12465.8	11918.9
75°	7050.3	6994.7	7193.1	7565.7	8112.6	8713.6	9490.4	10368.3	11235.0	11347.8	10695.4
77.5°	3643.6	3636.5	3786.4	4249.1	4901.5	5585.4	6440.7	7432.9	8281.0	8623.6	8092.6
80°	1026.6	1038.0	1109.3	1339.3	1720.4	2214.4	2882.7	3812.0	4506.0	4860.1	4563.1
82.5°	402.6	434.1	461.2	503.9	554.0	626.7	836.7	1245.1	1670.5	1996.0	1634.7
85°	144.2	154.1	218.5	258.4	262.8	276.9	315.6	368.3	444.0	529.7	435.5
87.5°	54.3	59.9	70.0	115.6	114.3	104.3	127.1	132.8	99.9	91.4	112.7
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°	2204.5	2204.5	2204.5	2204.5	2204.5	2204.5	2204.5	2204.5
2.5°	2198.7	2200.2	2200.2	2201.6	2203.1	2203.1	2205.9	2205.9
5°	2200.2	2200.2	2197.3	2198.7	2197.3	2197.3	2198.7	2198.7
7.5°	2197.3	2195.8	2193.0	2191.7	2188.8	2188.8	2188.8	2188.8
10°	2193.0	2191.7	2188.8	2187.4	2185.8	2185.8	2185.8	2185.8
12.5°	2204.5	2200.2	2197.3	2195.8	2195.8	2195.8	2195.8	2195.8
15°	2234.4	2224.5	2217.2	2217.2	2218.8	2221.6	2221.6	2224.5
17.5°	2271.5	2260.1	2252.9	2247.3	2250.2	2254.4	2257.4	2260.1
20°	2315.8	2310.1	2300.1	2294.5	2294.5	2300.1	2303.0	2304.4
22.5°	2377.3	2373.0	2368.7	2361.6	2361.6	2364.3	2370.1	2370.1
25°	2468.6	2465.8	2463.0	2457.1	2455.7	2455.7	2458.7	2461.4
27.5°	2582.8	2584.2	2581.4	2579.9	2575.7	2574.3	2578.6	2577.1
30°	2735.6	2742.7	2749.9	2744.1	2737.0	2732.7	2728.4	2722.8
32.5°	2942.6	2934.0	2928.4	2918.4	2905.5	2894.1	2885.4	2875.6
35°	3138.1	3123.9	3118.2	3126.8	3125.4	3118.2	3108.2	3099.7
37.5°	3378.0	3375.2	3378.0	3393.7	3390.9	3398.1	3378.0	3376.6
40°	3680.7	3683.6	3703.6	3722.1	3732.2	3742.2	3730.8	3719.3
42.5°	4032.0	4030.5	4037.7	4063.5	4080.6	4092.0	4067.6	4064.8
45°	4403.2	4393.3	4398.9	4420.4	4437.4	4450.4	4423.3	4423.3
47.5°	4811.5	4794.4	4775.8	4800.2	4810.2	4818.7	4797.3	4790.1
50°	5267.0	5231.3	5191.3	5201.4	5201.4	5198.5	5171.4	5169.9
52.5°	5789.5	5723.9	5651.1	5624.0	5608.3	5591.1	5544.0	5521.2
55°	6390.6	6292.2	6178.0	6107.9	6070.8	6023.8	5945.3	5923.8
57.5°	7093.0	6938.9	6741.9	6656.3	6573.3	6496.4	6409.1	6385.0
60°	7925.4	7698.5	7437.2	7278.7	7188.7	7114.5	7024.6	7020.3
62.5°	8853.5	8495.2	8199.5	8056.9	7991.2	7925.4	7839.9	7851.2
65°	9797.3	9423.2	9146.3	9030.7	8969.1	8914.9	8829.4	8842.1
67.5°	10728.2	10384.0	10080.1	9961.5	9892.9	9824.5	9747.2	9760.2
70°	11396.3	10969.6	10626.8	10364.1	10200.0	10014.3	9894.4	9864.4
72.5°	11205.1	10546.9	10002.8	9481.8	9176.2	8927.7	8759.4	8686.5
75°	9697.4	8797.9	8098.3	7458.6	7098.9	6806.2	6593.4	6460.6
77.5°	7201.6	6190.8	5364.0	4627.3	4044.9	3653.6	3378.0	3199.7
80°	3942.0	2998.4	2191.7	1540.6	1132.3	940.9	830.9	778.1
82.5°	1227.9	792.5	584.0	503.9	468.2	448.3	415.5	362.6
85°	391.2	342.7	318.4	304.2	289.9	252.8	174.2	158.6
87.5°	151.4	155.6	154.1	145.6	148.5	107.1	85.7	75.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)