

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: P268401

Luminaire Tested: **GAN-AF-04-LED-U-5MQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268401
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-04-LED-U-5MQ-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 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: 21914.5 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

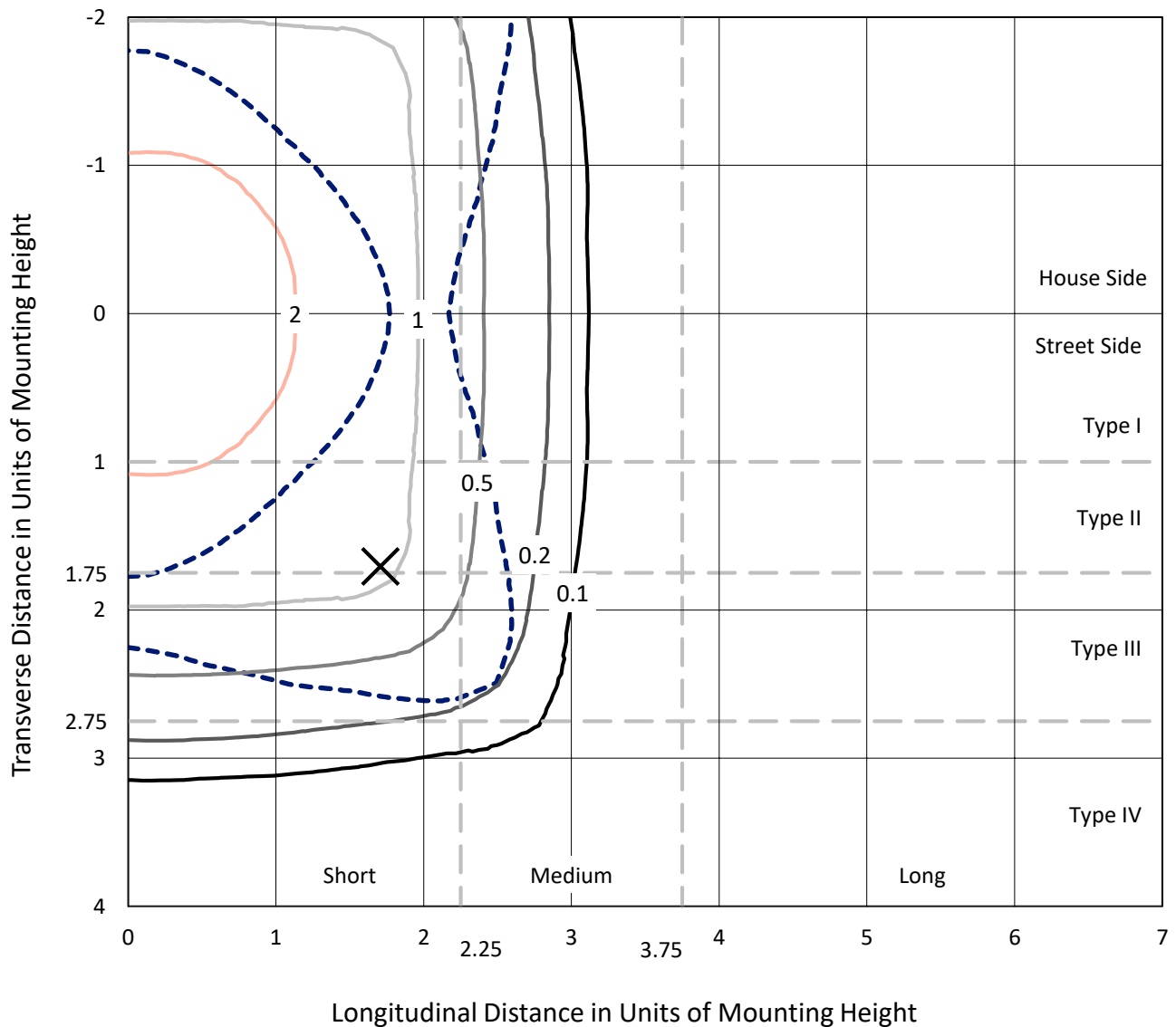
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

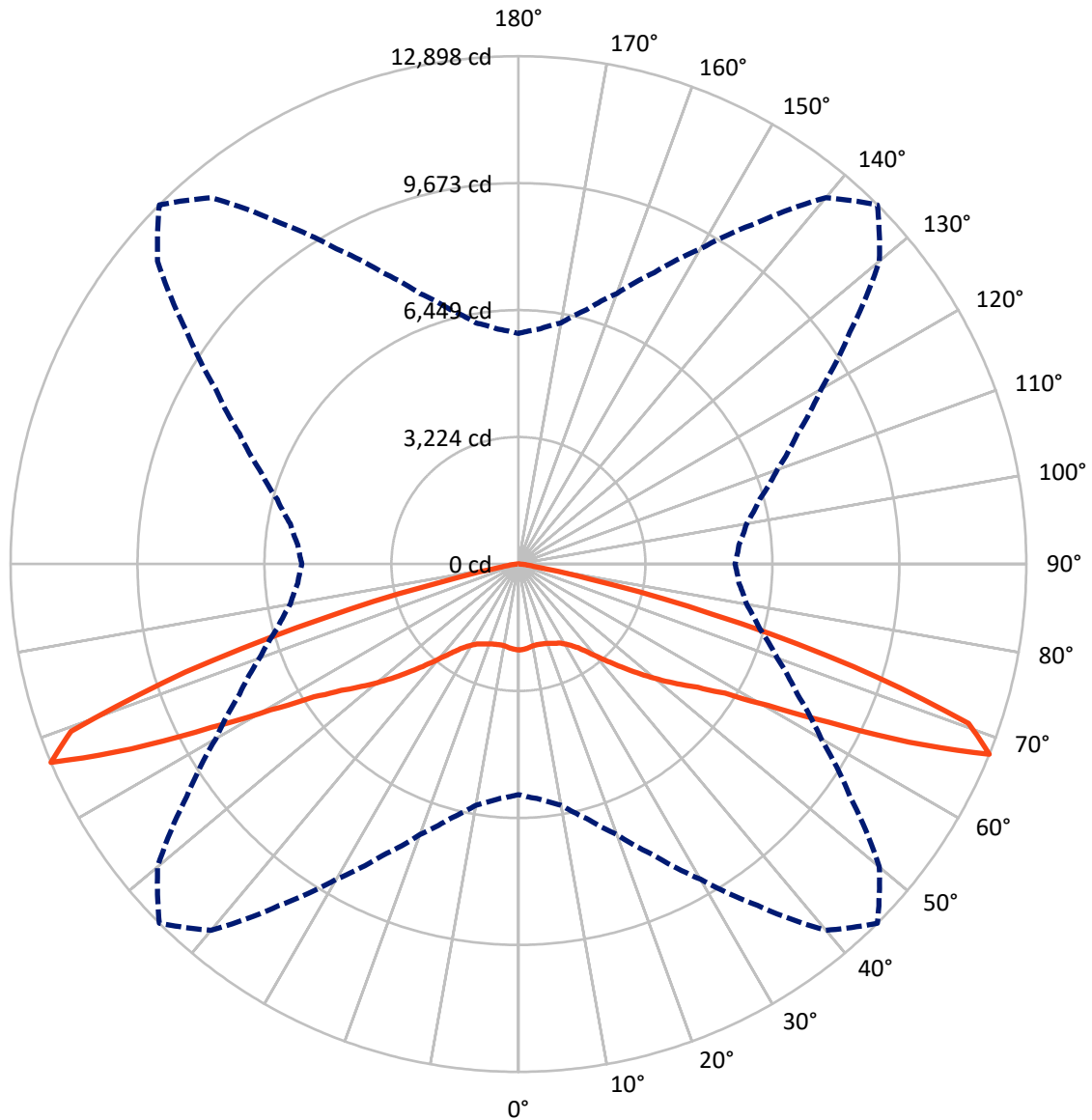
× Max cd
 - - - 1/2 Max cd



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 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10957.3	0.0	10957.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10957.3	0.0	10957.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	21914.5	0.0	21914.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.4	0.9
10°-20°	593.1	2.7
20°-30°	1008.3	4.6
30°-40°	1648.3	7.5
40°-50°	2942.5	13.4
50°-60°	4961.1	22.6
60°-70°	7698.9	35.1
70°-80°	2705.1	12.3
80°-90°	152.9	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°	21914.5	100.0
0°-180°	21914.5	100.0



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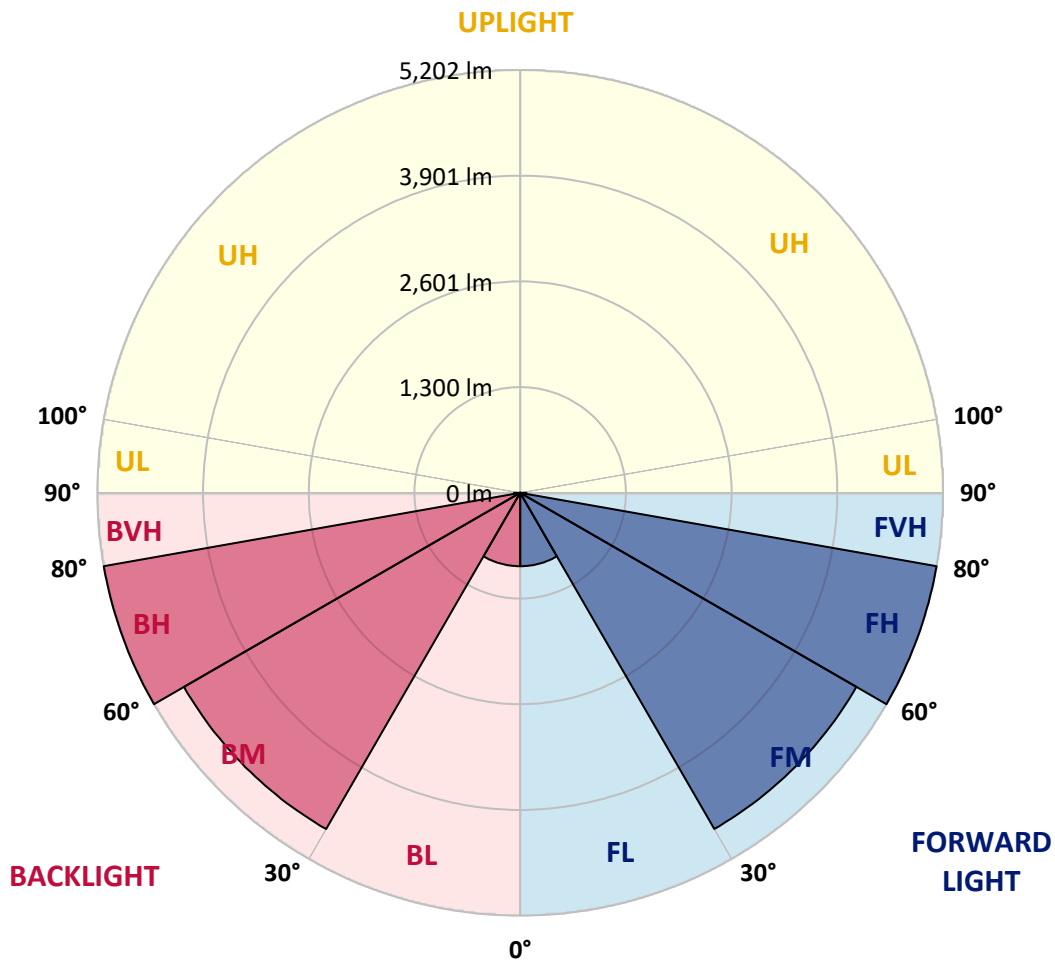
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	902.9	4.1			
FM	(30°-60°)	4775.9	21.8			
FH	(60°-80°)	5202.0	23.7			G3/7500
FVH	(80°-90°)	76.4	0.3			G1/100
BL	(0°-30°)	902.9	4.1	B2/1000		
BM	(30°-60°)	4775.9	21.8	B3/5000		
BH	(60°-80°)	5202.0	23.7	B5		G3/7500
BVH	(80°-90°)	76.4	0.3			G1/100
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°	2183.9	2183.9	2183.9	2183.9	2183.9	2183.9	2183.9	2183.9	2183.9	2183.9	2183.9
2.5°	2175.9	2177.9	2177.9	2177.9	2176.9	2176.9	2174.7	2176.9	2175.9	2172.8	2173.8
5°	2157.6	2159.6	2159.6	2158.6	2161.7	2160.8	2157.6	2159.6	2158.6	2156.7	2157.6
7.5°	2131.5	2134.6	2134.6	2133.5	2136.4	2135.5	2133.5	2134.6	2134.6	2131.5	2131.5
10°	2102.3	2104.3	2104.3	2103.2	2108.3	2108.3	2107.2	2110.3	2111.2	2108.3	2106.3
12.5°	2075.1	2078.0	2078.0	2082.1	2087.1	2089.2	2094.2	2098.3	2102.3	2101.2	2097.3
15°	2058.9	2060.9	2064.9	2070.1	2078.0	2085.1	2093.2	2102.3	2110.3	2112.4	2106.3
17.5°	2048.9	2051.9	2057.8	2064.9	2076.1	2088.1	2100.2	2112.4	2123.5	2127.5	2120.4
20°	2045.8	2047.9	2053.9	2065.9	2081.1	2099.2	2116.3	2130.5	2145.6	2150.6	2145.6
22.5°	2051.9	2056.0	2063.0	2077.1	2097.3	2120.4	2140.5	2159.6	2178.7	2187.9	2180.8
25°	2079.0	2083.1	2092.2	2110.3	2132.4	2156.7	2179.8	2202.0	2219.2	2228.2	2223.1
27.5°	2129.4	2134.6	2145.6	2163.7	2187.9	2214.1	2239.4	2257.4	2271.5	2274.6	2268.5
30°	2205.0	2216.1	2229.2	2249.4	2277.7	2299.8	2325.0	2341.2	2358.2	2358.2	2353.2
32.5°	2322.9	2334.1	2348.1	2367.4	2389.4	2413.7	2435.8	2449.9	2468.1	2469.1	2457.0
35°	2499.4	2504.4	2516.4	2528.5	2548.8	2569.8	2589.1	2598.1	2613.2	2614.2	2603.1
37.5°	2732.1	2733.2	2741.2	2745.2	2763.4	2786.5	2804.7	2810.7	2824.8	2822.8	2811.8
40°	3003.3	3008.2	3011.3	3017.2	3036.5	3058.5	3077.9	3080.7	3095.9	3093.0	3078.9
42.5°	3316.6	3318.7	3335.8	3344.8	3363.0	3374.0	3398.3	3401.3	3419.4	3411.4	3395.2
45°	3668.4	3686.5	3702.6	3720.8	3740.0	3752.9	3772.2	3768.1	3780.2	3768.1	3759.0
47.5°	4038.2	4051.3	4087.6	4115.9	4147.0	4158.2	4185.4	4173.3	4185.4	4168.2	4165.3
50°	4445.4	4468.4	4499.8	4531.9	4565.2	4583.4	4618.6	4603.5	4619.8	4603.5	4594.6
52.5°	4846.4	4852.6	4921.1	4968.3	5014.8	5035.9	5057.1	5050.0	5051.0	5050.0	5041.0
55°	5227.3	5241.5	5310.1	5374.5	5455.1	5514.6	5550.8	5546.9	5537.8	5528.7	5513.5
57.5°	5656.6	5670.8	5749.4	5829.0	5920.8	6005.3	6079.0	6154.6	6183.8	6191.8	6158.6
60°	6237.2	6236.2	6341.0	6437.8	6568.8	6694.7	6856.0	7020.3	7208.7	7296.4	7180.5
62.5°	6827.7	6851.9	7003.0	7174.5	7444.6	7707.5	8004.8	8297.1	8595.4	8838.3	8580.3
65°	6757.2	6849.9	7074.6	7462.7	7961.5	8554.1	9195.1	9873.4	10486.0	10907.3	10434.6
67.5°	5856.2	5988.3	6217.0	6688.7	7312.6	8167.1	9243.4	10584.8	12143.8	12897.7	11963.4
70°	4244.9	4394.0	4633.7	5094.4	5712.1	6524.4	7693.4	9303.8	11367.8	12127.7	11098.7
72.5°	2112.4	2192.9	2341.2	2634.4	3101.9	3761.1	4821.3	6369.3	8195.3	8892.7	7952.4
75°	717.6	754.8	780.0	875.8	1023.9	1282.9	1809.9	2784.6	4247.8	5092.3	4187.4
77.5°	414.2	415.1	432.4	449.5	474.7	503.0	573.5	752.8	1302.1	1849.3	1347.4
80°	268.1	267.1	281.2	294.3	311.4	325.5	329.6	348.7	402.1	476.7	426.2
82.5°	139.1	156.2	187.4	204.5	236.9	242.9	234.7	227.8	240.8	249.9	255.9
85°	76.5	66.6	99.8	128.9	143.1	145.2	145.2	137.0	142.1	139.1	151.2
87.5°	35.3	32.2	39.3	63.5	67.6	57.4	60.5	53.4	38.3	37.3	42.3
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°	2183.9	2183.9	2183.9	2183.9	2183.9	2183.9	2183.9	2183.9
2.5°	2173.8	2174.7	2174.7	2177.9	2178.7	2180.8	2182.9	2183.9
5°	2156.7	2159.6	2157.6	2160.8	2160.8	2162.7	2162.7	2163.7
7.5°	2131.5	2134.6	2134.6	2134.6	2133.5	2136.4	2136.4	2136.4
10°	2105.3	2107.2	2106.3	2104.3	2102.3	2105.3	2104.3	2103.2
12.5°	2097.3	2092.2	2088.1	2086.1	2082.1	2083.1	2080.0	2080.0
15°	2102.3	2093.2	2086.1	2083.1	2079.0	2077.1	2075.1	2076.1
17.5°	2115.4	2104.3	2095.1	2090.1	2085.1	2082.1	2078.0	2079.0
20°	2138.5	2125.4	2112.4	2102.3	2093.2	2088.1	2085.1	2084.1
22.5°	2172.8	2153.6	2134.6	2119.5	2107.2	2100.2	2097.3	2095.1
25°	2212.0	2191.0	2168.8	2151.6	2139.6	2130.5	2124.4	2124.4
27.5°	2261.5	2244.3	2224.3	2204.0	2192.9	2183.9	2179.8	2177.9
30°	2344.0	2328.0	2311.9	2292.7	2278.6	2269.6	2262.6	2256.5
32.5°	2449.9	2436.8	2423.7	2409.7	2396.5	2384.5	2373.3	2368.3
35°	2599.1	2589.1	2579.9	2563.9	2558.7	2551.7	2545.6	2540.6
37.5°	2804.7	2800.6	2800.6	2783.5	2779.4	2776.4	2770.5	2771.5
40°	3074.8	3078.9	3073.7	3067.7	3064.7	3056.7	3056.7	3063.7
42.5°	3394.2	3397.2	3408.3	3398.3	3409.3	3399.2	3393.2	3398.3
45°	3765.1	3776.1	3798.4	3788.2	3795.2	3778.2	3757.0	3758.0
47.5°	4181.3	4191.4	4200.5	4193.4	4194.4	4166.2	4138.0	4130.9
50°	4613.6	4617.6	4622.7	4612.6	4614.7	4583.4	4551.2	4552.3
52.5°	5041.0	5060.2	5080.3	5053.1	5046.9	5011.7	4966.4	4948.3
55°	5529.7	5556.9	5533.7	5486.4	5439.0	5391.6	5332.2	5322.1
57.5°	6132.4	6086.0	6013.4	5923.8	5858.2	5791.7	5731.2	5706.2
60°	6970.8	6796.5	6665.6	6532.5	6448.8	6367.1	6287.5	6275.5
62.5°	8156.0	7854.7	7593.7	7318.5	7093.8	6918.4	6778.4	6739.1
65°	9641.5	8929.1	8311.2	7734.8	7234.0	6856.0	6618.2	6513.3
67.5°	10280.5	8873.5	7814.4	6996.1	6341.0	5883.4	5626.4	5498.4
70°	9033.9	7358.8	6207.0	5387.7	4791.0	4303.2	4070.5	3933.4
72.5°	6215.1	4681.2	3701.6	3021.4	2544.7	2136.4	1975.3	1963.2
75°	2790.6	1848.4	1273.8	981.6	826.4	718.6	685.2	660.2
77.5°	781.0	577.5	515.0	481.8	449.5	412.2	398.0	401.2
80°	380.0	358.8	344.7	323.5	294.3	263.1	248.9	254.9
82.5°	252.0	248.9	258.1	242.9	200.5	170.3	143.1	131.1
85°	153.3	155.1	158.2	159.2	135.0	94.7	64.5	72.6
87.5°	60.5	69.4	75.5	78.6	73.7	45.4	36.3	37.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)