

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: P193335

Luminaire Tested: **GAN-AF-07-LED-U-5MQ-8030-600-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193335
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-07-LED-U-5MQ-8030-600-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23779 lumens
Efficiency: N/A
Efficacy: 105.2 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): 226
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

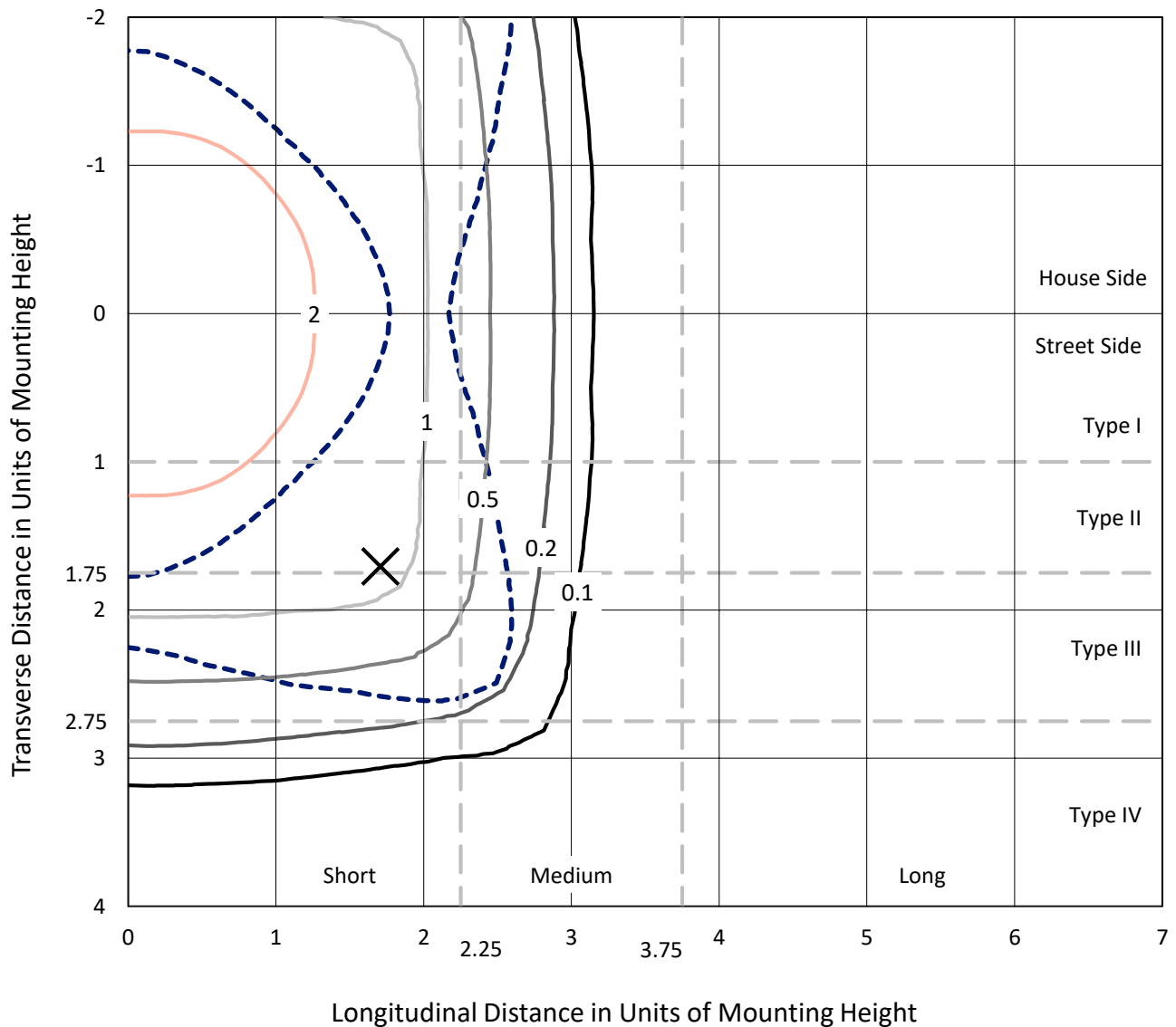


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

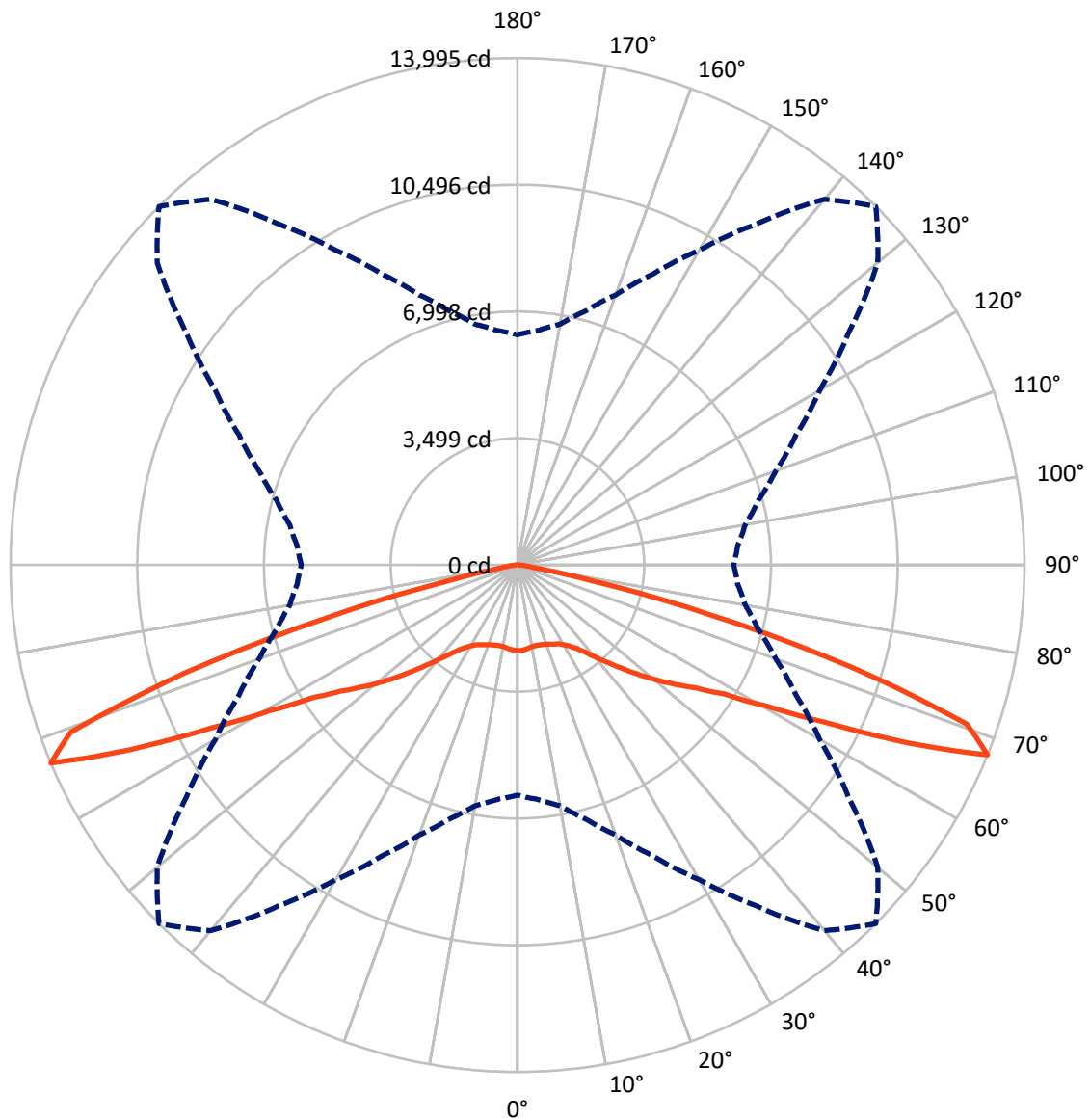


Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Short - Full Cutoff

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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	11889.5	0.0	11889.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11889.5	0.0	11889.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	23779.0	0.0	23779.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.8	0.9
10°-20°	643.6	2.7
20°-30°	1094.1	4.6
30°-40°	1788.5	7.5
40°-50°	3192.8	13.4
50°-60°	5383.2	22.6
60°-70°	8353.9	35.1
70°-80°	2935.2	12.3
80°-90°	165.9	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°	23779.0	100.0
0°-180°	23779.0	100.0



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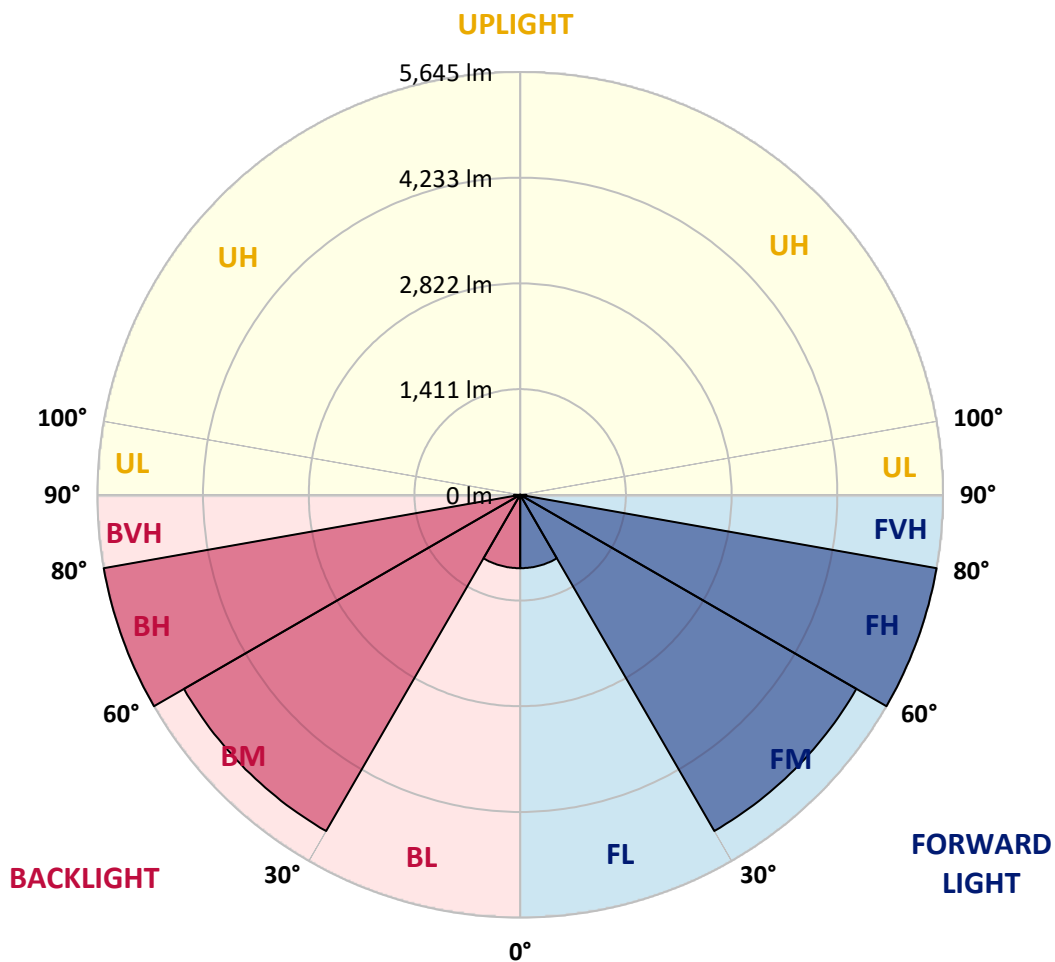
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	979.7	4.1			
FM (30°-60°)	5182.3	21.8			
FH (60°-80°)	5644.6	23.7			G3/7500
FVH (80°-90°)	82.9	0.3			G1/100
BL (0°-30°)	979.7	4.1	B2/1000		
BM (30°-60°)	5182.3	21.8	B4/8500		
BH (60°-80°)	5644.6	23.7	B5		G3/7500
BVH (80°-90°)	82.9	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°	2369.7	2369.7	2369.7	2369.7	2369.7	2369.7	2369.7	2369.7	2369.7	2369.7	2369.7
2.5°	2360.9	2363.1	2363.1	2363.1	2362.0	2362.0	2359.8	2362.0	2360.9	2357.6	2358.7
5°	2341.2	2343.4	2343.4	2342.3	2345.6	2344.5	2341.2	2343.4	2342.3	2340.2	2341.2
7.5°	2312.8	2316.1	2316.1	2315.0	2318.3	2317.2	2315.0	2316.1	2316.1	2312.8	2312.8
10°	2281.1	2283.3	2283.3	2282.2	2287.7	2287.7	2286.6	2289.9	2290.9	2287.7	2285.5
12.5°	2251.6	2254.9	2254.9	2259.2	2264.7	2266.9	2272.4	2276.7	2281.1	2280.0	2275.6
15°	2234.1	2236.3	2240.6	2246.1	2254.9	2262.5	2271.3	2281.1	2289.9	2292.0	2285.5
17.5°	2223.1	2226.4	2233.0	2240.6	2252.7	2265.8	2278.9	2292.0	2304.1	2308.4	2300.8
20°	2219.9	2222.1	2228.6	2241.7	2258.1	2277.8	2296.4	2311.7	2328.1	2333.6	2328.1
22.5°	2226.4	2230.8	2238.5	2253.8	2275.6	2300.8	2322.7	2343.4	2364.2	2374.1	2366.4
25°	2256.0	2260.3	2270.2	2289.9	2313.9	2340.2	2365.3	2389.4	2408.0	2417.8	2412.3
27.5°	2310.6	2316.1	2328.1	2347.8	2374.1	2402.5	2429.8	2449.5	2464.8	2468.1	2461.5
30°	2392.6	2404.7	2418.9	2440.8	2471.4	2495.4	2522.8	2540.3	2558.9	2558.9	2553.4
32.5°	2520.6	2532.6	2547.9	2568.7	2592.8	2619.0	2643.1	2658.4	2678.1	2679.1	2666.0
35°	2712.0	2717.4	2730.5	2743.7	2765.5	2788.5	2809.3	2819.1	2835.5	2836.6	2824.6
37.5°	2964.6	2965.7	2974.4	2978.8	2998.5	3023.6	3043.3	3049.9	3065.2	3063.0	3050.9
40°	3258.7	3264.2	3267.5	3274.0	3294.8	3318.9	3339.6	3342.9	3359.3	3356.0	3340.7
42.5°	3598.8	3601.0	3619.6	3629.4	3649.1	3661.1	3687.4	3690.7	3710.3	3701.6	3684.1
45°	3980.4	4000.1	4017.6	4037.3	4058.1	4072.3	4093.1	4088.7	4101.8	4088.7	4078.9
47.5°	4381.8	4396.0	4435.4	4466.0	4499.9	4511.9	4541.4	4528.3	4541.4	4522.8	4519.6
50°	4823.6	4848.7	4882.6	4917.6	4953.7	4973.4	5011.6	4995.2	5012.7	4995.2	4985.4
52.5°	5258.8	5265.3	5339.7	5391.1	5441.4	5464.4	5487.3	5479.7	5480.8	5479.7	5469.8
55°	5672.1	5687.4	5761.8	5831.8	5919.3	5983.8	6023.2	6018.8	6008.9	5999.1	5982.7
57.5°	6138.0	6153.3	6238.6	6325.0	6424.5	6516.3	6596.2	6678.2	6709.9	6718.6	6682.6
60°	6767.9	6766.8	6880.5	6985.5	7127.6	7264.3	7439.3	7617.5	7822.0	7917.2	7791.4
62.5°	7408.7	7434.9	7598.9	7784.8	8077.9	8363.3	8685.9	9003.0	9326.7	9590.3	9310.3
65°	7332.1	7432.7	7676.6	8097.6	8638.9	9281.9	9977.4	10713.3	11378.2	11835.3	11322.4
67.5°	6354.5	6497.8	6746.0	7257.8	7934.6	8862.0	10029.8	11485.3	13177.0	13995.0	12981.3
70°	4605.9	4767.8	5028.0	5527.8	6198.1	7079.5	8348.0	10095.5	12335.0	13159.5	12043.0
72.5°	2292.0	2379.5	2540.3	2858.5	3365.9	4081.1	5231.4	6911.1	8892.6	9649.3	8629.0
75°	778.6	819.1	846.4	950.3	1111.0	1392.1	1964.0	3021.4	4609.2	5525.6	4543.6
77.5°	449.4	450.5	469.1	487.7	515.1	545.7	622.2	816.9	1412.8	2006.6	1462.0
80°	290.9	289.8	305.1	319.3	337.9	353.2	357.6	378.4	436.3	517.2	462.6
82.5°	150.9	169.5	203.4	222.0	257.0	263.5	254.8	247.1	261.4	271.2	277.8
85°	83.1	72.2	108.3	140.0	155.3	157.5	157.5	148.7	154.2	150.9	164.0
87.5°	38.3	35.0	42.6	68.9	73.3	62.3	65.6	58.0	41.6	40.5	45.9
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°	2369.7	2369.7	2369.7	2369.7	2369.7	2369.7	2369.7	2369.7
2.5°	2358.7	2359.8	2359.8	2363.1	2364.2	2366.4	2368.6	2369.7
5°	2340.2	2343.4	2341.2	2344.5	2344.5	2346.7	2346.7	2347.8
7.5°	2312.8	2316.1	2316.1	2316.1	2315.0	2318.3	2318.3	2318.3
10°	2284.4	2286.6	2285.5	2283.3	2281.1	2284.4	2283.3	2282.2
12.5°	2275.6	2270.2	2265.8	2263.6	2259.2	2260.3	2257.0	2257.0
15°	2281.1	2271.3	2263.6	2260.3	2256.0	2253.8	2251.6	2252.7
17.5°	2295.3	2283.3	2273.4	2268.0	2262.5	2259.2	2254.9	2256.0
20°	2320.5	2306.3	2292.0	2281.1	2271.3	2265.8	2262.5	2261.4
22.5°	2357.6	2336.9	2316.1	2299.7	2286.6	2278.9	2275.6	2273.4
25°	2400.3	2377.3	2353.3	2334.7	2321.6	2311.7	2305.2	2305.2
27.5°	2453.9	2435.3	2413.4	2391.5	2379.5	2369.7	2365.3	2363.1
30°	2543.5	2526.1	2508.6	2487.8	2472.5	2462.6	2455.0	2448.4
32.5°	2658.4	2644.2	2629.9	2614.6	2600.4	2587.3	2575.3	2569.8
35°	2820.2	2809.3	2799.4	2781.9	2776.5	2768.8	2762.3	2756.8
37.5°	3043.3	3038.9	3038.9	3020.3	3016.0	3012.7	3006.1	3007.2
40°	3336.4	3340.7	3335.3	3328.7	3325.4	3316.7	3316.7	3324.3
42.5°	3683.0	3686.3	3698.3	3687.4	3699.4	3688.5	3681.9	3687.4
45°	4085.4	4097.5	4121.5	4110.6	4118.2	4099.6	4076.7	4077.8
47.5°	4537.1	4548.0	4557.8	4550.2	4551.3	4520.6	4490.0	4482.4
50°	5006.2	5010.6	5016.0	5005.1	5007.3	4973.4	4938.4	4939.5
52.5°	5469.8	5490.6	5512.5	5483.0	5476.4	5438.1	5388.9	5369.2
55°	6000.2	6029.7	6004.6	5953.2	5901.8	5850.4	5785.9	5774.9
57.5°	6654.1	6603.8	6525.1	6427.8	6356.7	6284.5	6218.9	6191.6
60°	7563.9	7374.8	7232.6	7088.3	6997.5	6908.9	6822.5	6809.4
62.5°	8849.9	8523.0	8239.7	7941.2	7697.4	7507.1	7355.1	7312.4
65°	10461.8	9688.7	9018.3	8392.8	7849.4	7439.3	7181.2	7067.5
67.5°	11155.1	9628.5	8479.2	7591.3	6880.5	6384.0	6105.2	5966.3
70°	9802.4	7984.9	6735.0	5846.0	5198.6	4669.4	4416.8	4268.0
72.5°	6743.8	5079.4	4016.5	3278.4	2761.2	2318.3	2143.3	2130.2
75°	3028.0	2005.5	1382.2	1065.1	896.7	779.7	743.6	716.3
77.5°	847.5	626.6	558.8	522.7	487.7	447.3	431.9	435.2
80°	412.3	389.3	374.0	351.0	319.3	285.4	270.1	276.7
82.5°	273.4	270.1	279.9	263.5	217.6	184.8	155.3	142.2
85°	166.2	168.4	171.7	172.8	146.5	102.8	70.0	78.7
87.5°	65.6	75.5	82.0	85.3	79.8	49.2	39.4	40.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)