

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: P190893

Luminaire Tested: **GAN-AF-05-LED-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190893
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-05-LED-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32055.2 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 279
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

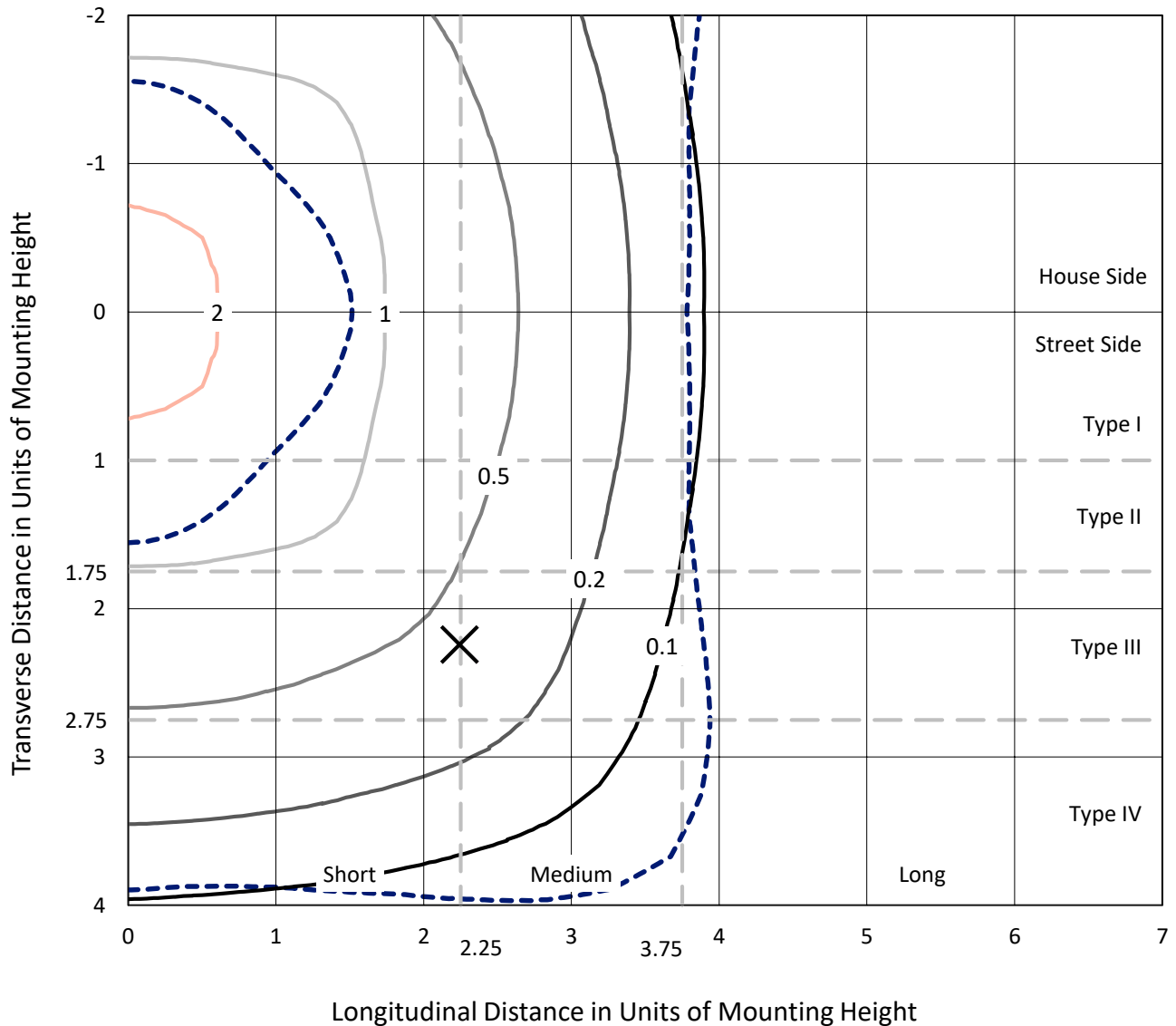


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

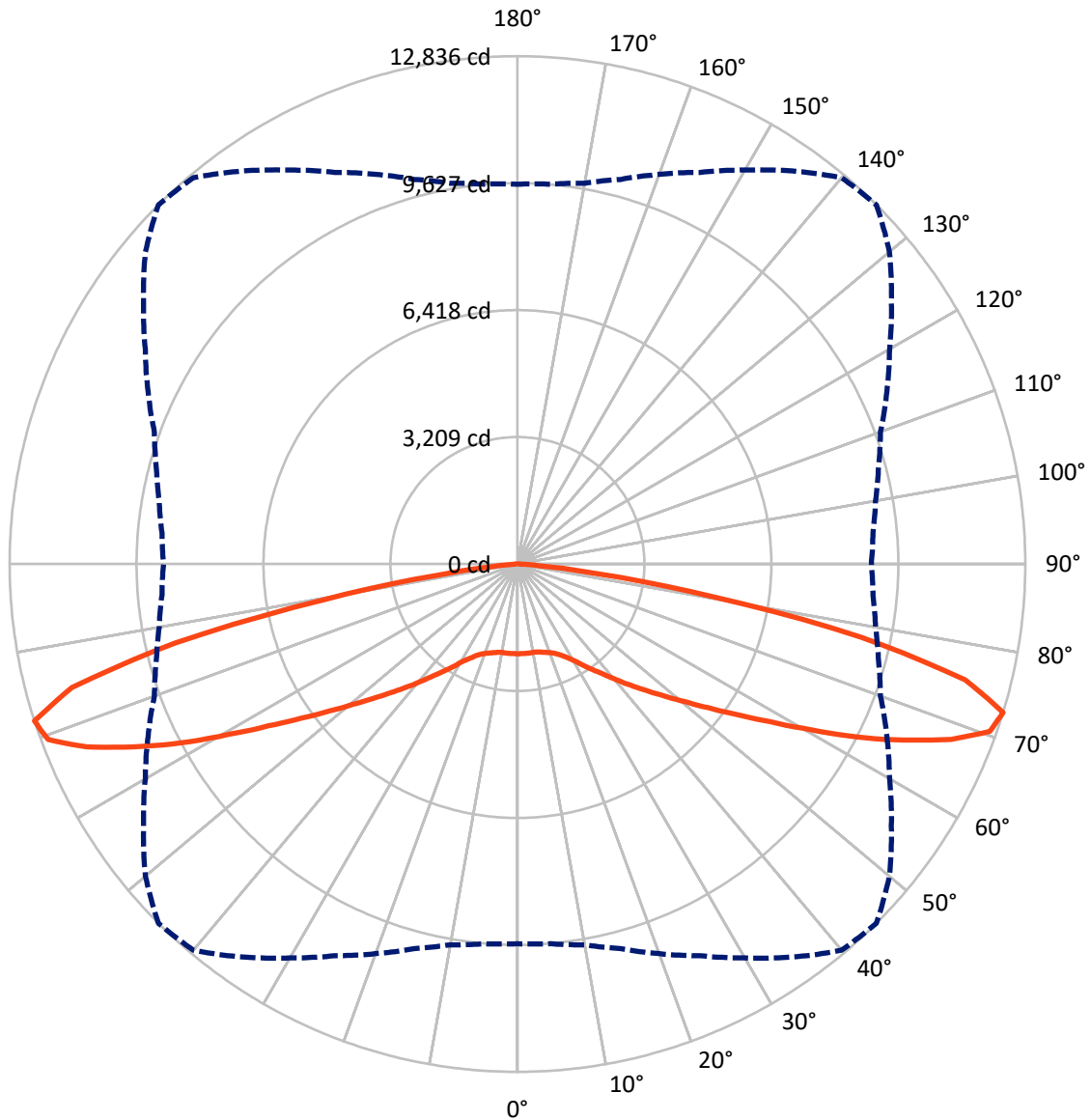


Based on 30 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - Semi-Cutoff

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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	16027.6	0.0	16027.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16027.6	0.0	16027.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	32055.2	0.0	32055.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.8	0.7
10°-20°	658.3	2.1
20°-30°	1203.0	3.8
30°-40°	2074.2	6.5
40°-50°	3545.9	11.1
50°-60°	5747.4	17.9
60°-70°	9534.7	29.7
70°-80°	8397.8	26.2
80°-90°	677.1	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°	32055.2	100.0
0°-180°	32055.2	100.0

Coefficient of Utilization



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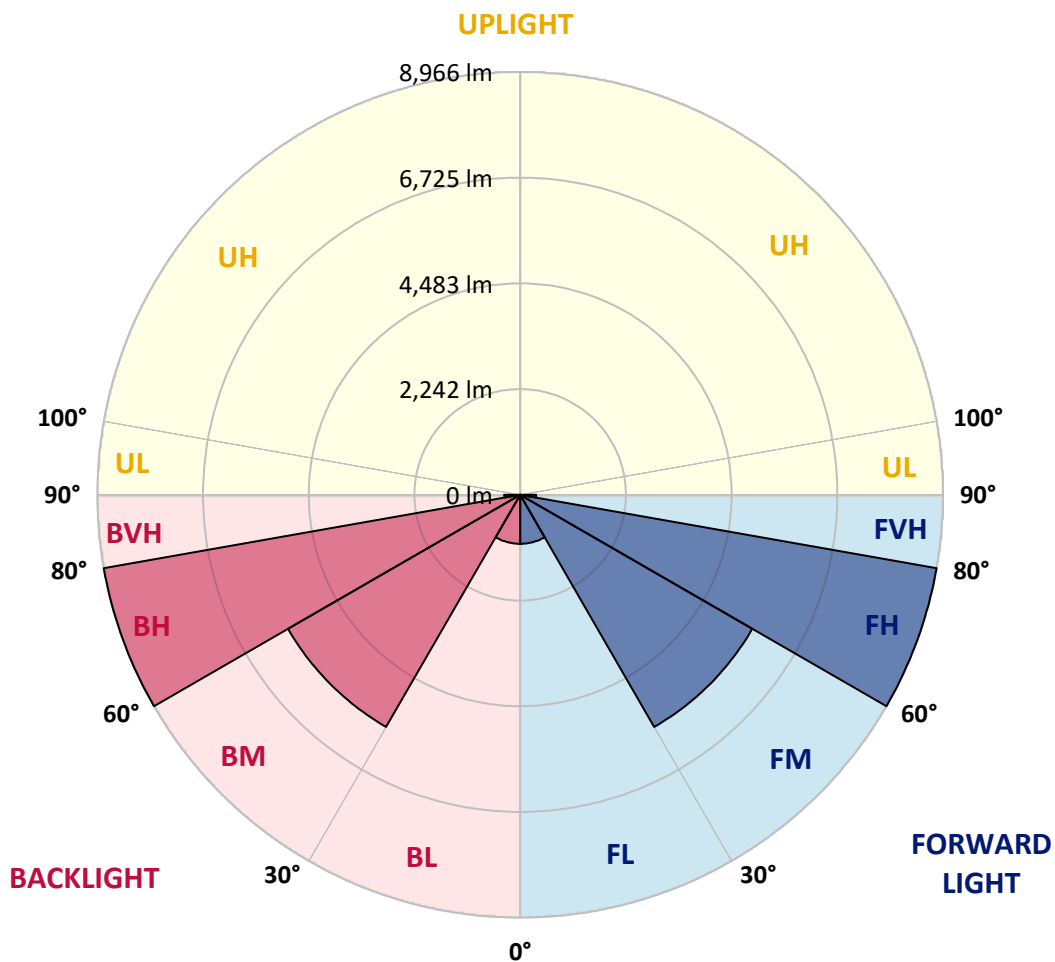
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1039.1	3.2			
FM	(30°-60°)	5683.7	17.7			
FH	(60°-80°)	8966.3	28.0			G4/12000
FVH	(80°-90°)	338.5	1.1			G3/500
BL	(0°-30°)	1039.1	3.2	B3/2500		
BM	(30°-60°)	5683.7	17.7	B4/8500		
BH	(60°-80°)	8966.3	28.0	B5		G4/12000
BVH	(80°-90°)	338.5	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°	2270.0	2270.0	2270.0	2270.0	2270.0	2270.0	2270.0	2270.0	2270.0	2270.0	2270.0
2.5°	2270.0	2271.5	2273.0	2271.5	2271.5	2270.0	2268.5	2270.0	2268.5	2265.6	2267.1
5°	2277.4	2280.3	2280.3	2277.4	2278.8	2277.4	2274.4	2275.9	2273.0	2268.5	2268.5
7.5°	2286.2	2287.6	2287.6	2284.7	2286.2	2283.2	2280.3	2278.8	2275.9	2270.0	2265.6
10°	2299.4	2300.9	2299.4	2296.4	2296.4	2292.0	2284.7	2281.8	2275.9	2267.1	2262.7
12.5°	2314.1	2315.6	2314.1	2311.2	2309.7	2302.4	2296.4	2292.0	2287.6	2280.3	2273.0
15°	2334.7	2337.6	2334.7	2328.8	2324.5	2318.5	2315.6	2317.1	2318.5	2312.7	2305.3
17.5°	2372.9	2374.4	2370.0	2356.8	2350.8	2345.0	2345.0	2347.9	2352.4	2349.4	2342.0
20°	2443.5	2439.1	2428.8	2412.6	2405.3	2394.9	2393.5	2394.9	2394.9	2393.5	2387.7
22.5°	2531.7	2528.7	2515.5	2495.0	2484.6	2478.8	2469.9	2462.7	2461.1	2456.7	2450.9
25°	2637.6	2636.0	2619.9	2602.3	2594.9	2587.6	2580.2	2570.0	2561.1	2550.8	2544.9
27.5°	2772.8	2767.0	2743.5	2734.6	2724.3	2719.9	2709.6	2697.8	2690.5	2677.3	2669.9
30°	2921.3	2921.3	2902.2	2899.2	2899.2	2888.9	2877.2	2856.6	2843.4	2830.2	2825.7
32.5°	3069.8	3071.3	3052.2	3058.0	3062.4	3069.8	3072.7	3065.4	3056.6	3055.1	3046.2
35°	3284.5	3278.6	3259.4	3263.8	3262.4	3261.0	3261.0	3277.1	3280.0	3283.0	3265.4
37.5°	3550.6	3550.6	3531.4	3531.4	3522.6	3513.8	3502.1	3512.3	3528.5	3533.0	3521.2
40°	3854.9	3865.2	3841.7	3840.2	3843.1	3815.2	3802.0	3818.2	3828.4	3846.1	3832.8
42.5°	4213.6	4206.3	4182.7	4179.8	4163.6	4154.8	4143.1	4156.2	4172.4	4184.2	4188.7
45°	4557.7	4551.7	4525.3	4525.3	4509.2	4501.8	4507.6	4529.7	4537.1	4553.3	4569.4
47.5°	4897.3	4889.9	4872.3	4879.7	4881.1	4894.3	4913.4	4934.0	4954.6	4976.7	4984.0
50°	5244.3	5245.7	5226.6	5244.3	5266.3	5303.1	5354.5	5388.3	5430.9	5458.9	5467.7
52.5°	5560.4	5566.2	5586.8	5628.0	5672.1	5744.1	5832.4	5914.7	5985.2	6032.2	6029.4
55°	5939.7	5948.5	5998.5	6069.1	6141.1	6249.8	6380.8	6526.2	6643.9	6711.5	6668.9
57.5°	6424.8	6444.0	6499.8	6595.4	6702.7	6843.8	7023.2	7242.3	7424.6	7515.7	7446.6
60°	7090.8	7102.6	7170.2	7276.0	7405.4	7580.4	7820.0	8114.0	8371.4	8491.9	8412.5
62.5°	7968.6	7990.6	8045.0	8152.3	8284.7	8483.1	8775.7	9143.2	9463.7	9631.4	9452.0
65°	9016.8	9087.4	9132.9	9241.7	9365.2	9575.4	9881.3	10275.3	10619.4	10729.6	10522.3
67.5°	10054.8	10116.5	10196.0	10320.9	10445.9	10682.6	10966.3	11348.5	11726.4	11826.3	11504.4
70°	10509.1	10544.4	10667.8	10838.4	11078.0	11357.4	11685.3	12114.5	12582.1	12664.4	12255.7
72.5°	9599.0	9634.3	9772.5	10062.2	10479.6	10923.7	11495.6	12126.3	12743.8	12836.4	12273.4
75°	7259.9	7202.6	7406.9	7790.7	8353.7	8972.7	9772.5	10676.6	11569.1	11685.3	11013.4
77.5°	3752.0	3744.6	3899.0	4375.4	5047.2	5751.4	6632.1	7653.9	8527.2	8880.0	8333.2
80°	1057.1	1068.9	1142.3	1379.0	1771.6	2280.3	2968.4	3925.5	4640.0	5004.6	4698.8
82.5°	414.6	446.9	474.9	518.9	570.4	645.4	861.5	1282.1	1720.2	2055.3	1683.4
85°	148.5	158.8	224.9	266.1	270.5	285.2	324.9	379.3	457.3	545.4	448.5
87.5°	55.9	61.8	72.0	119.1	117.6	107.3	130.8	136.8	102.9	94.1	116.1
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°	2270.0	2270.0	2270.0	2270.0	2270.0	2270.0	2270.0	2270.0
2.5°	2264.1	2265.6	2265.6	2267.1	2268.5	2268.5	2271.5	2271.5
5°	2265.6	2265.6	2262.7	2264.1	2262.7	2262.7	2264.1	2264.1
7.5°	2262.7	2261.2	2258.3	2256.7	2253.9	2253.9	2253.9	2253.9
10°	2258.3	2256.7	2253.9	2252.3	2250.9	2250.9	2250.9	2250.9
12.5°	2270.0	2265.6	2262.7	2261.2	2261.2	2261.2	2261.2	2261.2
15°	2300.9	2290.6	2283.2	2283.2	2284.7	2287.6	2287.6	2290.6
17.5°	2339.1	2327.3	2320.0	2314.1	2317.1	2321.5	2324.5	2327.3
20°	2384.7	2378.8	2368.5	2362.6	2362.6	2368.5	2371.4	2372.9
22.5°	2447.9	2443.5	2439.1	2431.8	2431.8	2434.6	2440.6	2440.6
25°	2542.0	2539.1	2536.1	2530.3	2528.7	2528.7	2531.7	2534.7
27.5°	2659.6	2661.1	2658.1	2656.7	2652.3	2650.8	2655.2	2653.7
30°	2816.9	2824.3	2831.6	2825.7	2818.4	2813.9	2809.5	2803.7
32.5°	3030.1	3021.3	3015.4	3005.1	2991.9	2980.2	2971.3	2961.0
35°	3231.5	3216.8	3210.9	3219.7	3218.3	3210.9	3200.6	3191.8
37.5°	3478.5	3475.6	3478.5	3494.7	3491.7	3499.1	3478.5	3477.0
40°	3790.2	3793.1	3813.8	3832.8	3843.1	3853.5	3841.7	3829.9
42.5°	4151.9	4150.4	4157.8	4184.2	4201.9	4213.6	4188.7	4185.7
45°	4534.1	4523.8	4529.7	4551.7	4569.4	4582.6	4554.7	4554.7
47.5°	4954.6	4937.0	4917.8	4942.9	4953.1	4961.9	4939.9	4932.6
50°	5423.6	5386.9	5345.7	5356.0	5356.0	5353.0	5325.1	5323.6
52.5°	5961.7	5894.0	5819.1	5791.1	5775.0	5757.4	5708.8	5685.3
55°	6580.6	6479.3	6361.6	6289.5	6251.4	6202.9	6122.0	6099.9
57.5°	7304.0	7145.2	6942.4	6854.1	6768.9	6689.5	6599.8	6574.8
60°	8161.1	7927.4	7658.3	7495.2	7402.5	7326.1	7233.4	7229.0
62.5°	9116.7	8747.8	8443.4	8296.4	8228.7	8161.1	8072.9	8084.7
65°	10088.5	9703.4	9418.2	9299.0	9235.8	9180.0	9091.8	9105.0
67.5°	11047.2	10692.8	10379.7	10257.6	10187.1	10116.5	10037.1	10050.4
70°	11735.2	11295.6	10942.8	10672.2	10503.1	10312.1	10188.6	10157.7
72.5°	11538.2	10860.5	10300.3	9763.7	9449.0	9193.3	9019.8	8944.8
75°	9985.6	9059.5	8339.0	7680.4	7309.9	7008.5	6789.4	6652.7
77.5°	7415.8	6374.8	5523.6	4764.9	4165.1	3762.3	3478.5	3294.7
80°	4059.3	3087.5	2256.7	1586.4	1165.9	968.8	855.7	801.3
82.5°	1264.4	816.0	601.3	518.9	482.2	461.7	427.8	373.5
85°	402.8	352.8	327.9	313.1	298.5	260.2	179.3	163.2
87.5°	155.8	160.3	158.8	150.0	152.9	110.3	88.2	77.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)