

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: P318719

Luminaire Tested: **GAN-SA5B-740-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318719
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5B-740-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28734 lumens
Efficiency: N/A
Efficacy: 136.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

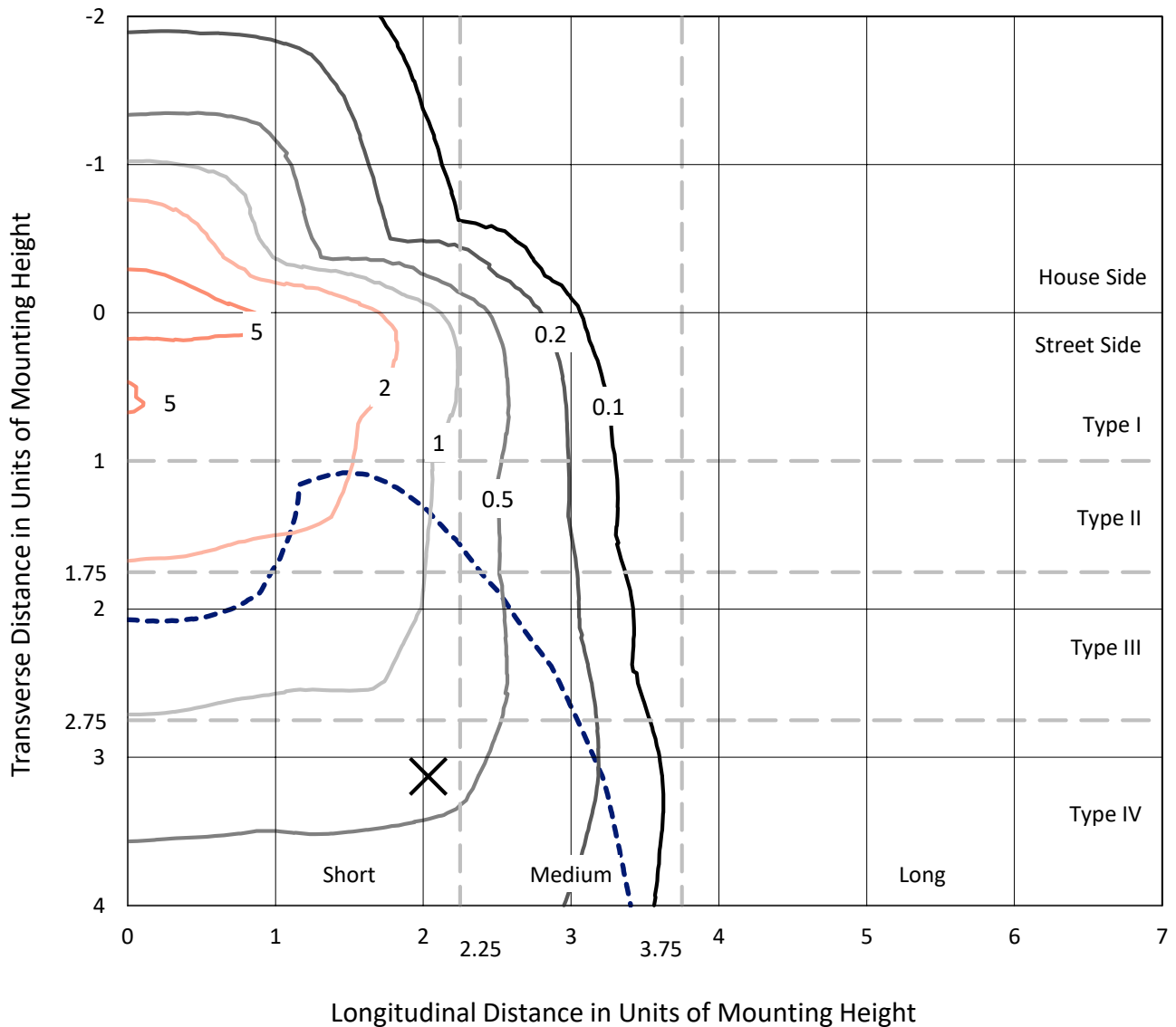
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

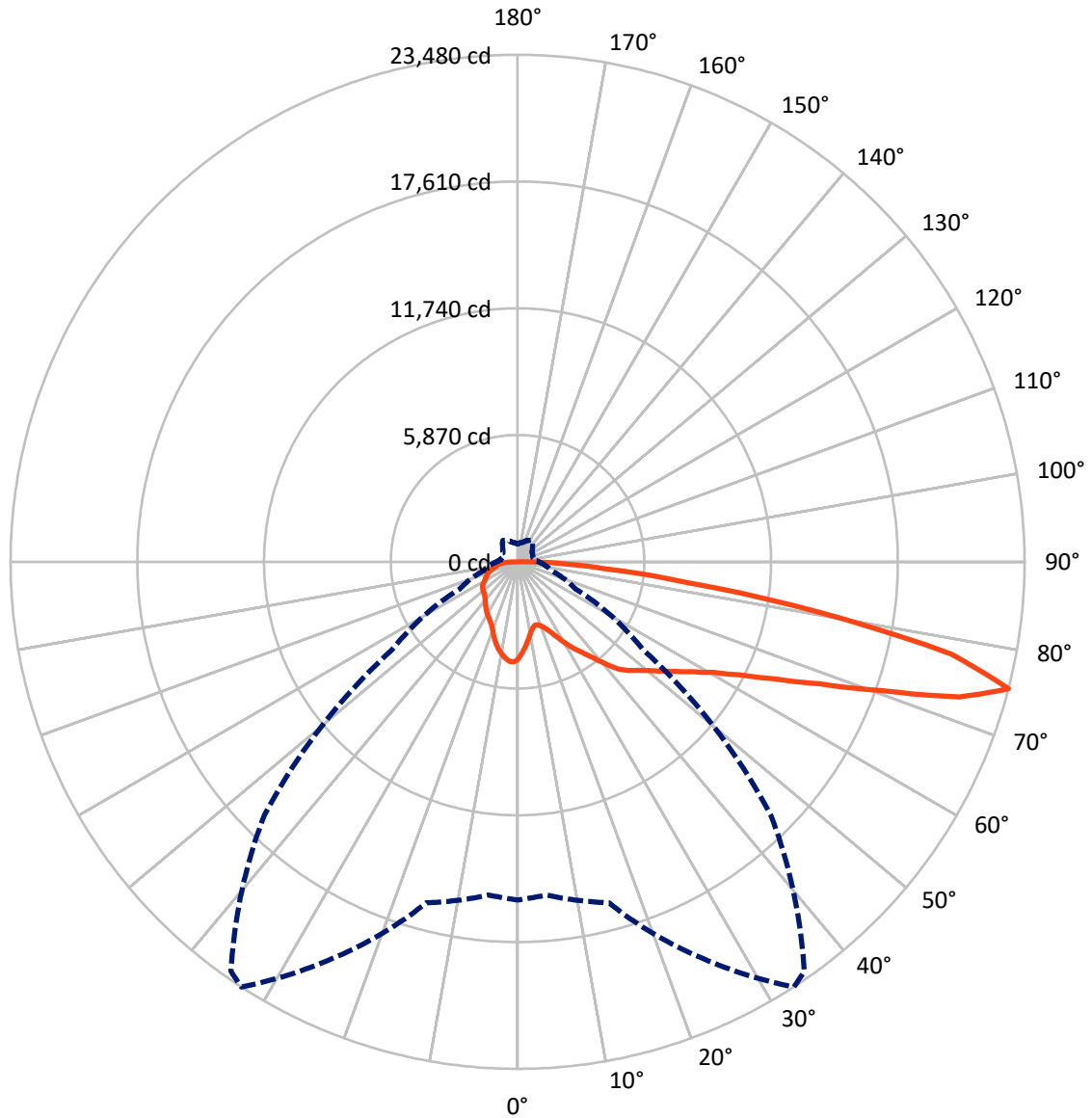
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6169.9	0.0	6169.9
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	22564.1	0.0	22564.1
	% Fixture	78.5	0.0	78.5
Total	Lumens	28734.0	0.0	28734.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.2	1.4
10°-20°	1100.1	3.8
20°-30°	1796.6	6.3
30°-40°	2675.6	9.3
40°-50°	3837.6	13.4
50°-60°	5268.4	18.3
60°-70°	6595.8	23.0
70°-80°	5966.9	20.8
80°-90°	1086.9	3.8
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°	28734.0	100.0
0°-180°	28734.0	100.0

Coefficient of Utilization

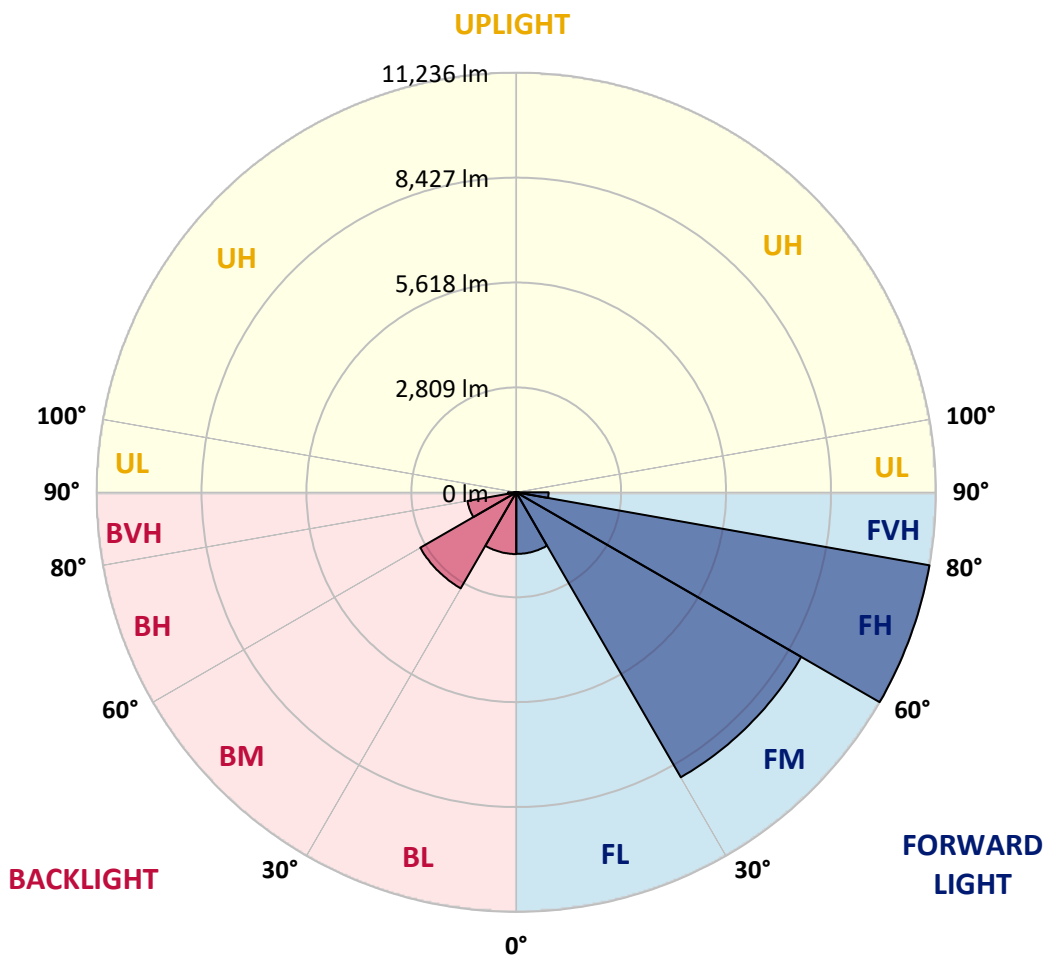


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1650.3	5.7			
FM (30°-60°)	8812.1	30.7			
FH (60°-80°)	11236.0	39.1			G4/12000
FVH (80°-90°)	865.6	3.0			G5
BL (0°-30°)	1652.6	5.8	B3/2500		
BM (30°-60°)	2969.4	10.3	B3/5000		
BH (60°-80°)	1326.7	4.6	B3/2500		G3/2500
BVH (80°-90°)	221.3	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	4491.3	4491.3	4491.3	4491.3	4491.3	4491.3	4491.3	4491.3	4491.3	4491.3	4491.3
2.5°	4170.7	4154.8	4184.6	4188.6	4214.4	4224.3	4260.0	4315.6	4361.3	4413.9	4461.5
5°	3792.5	3781.6	3823.3	3853.1	3909.7	3933.5	4017.8	4136.0	4241.2	4360.3	4468.5
7.5°	3433.2	3427.3	3473.9	3541.4	3606.9	3639.7	3785.6	3957.3	4133.0	4325.5	4491.3
10°	3130.5	3128.5	3173.2	3239.7	3336.0	3372.7	3561.3	3787.6	4033.7	4298.7	4530.0
12.5°	2960.8	2967.7	2988.6	3044.1	3133.5	3170.2	3379.6	3645.6	3950.3	4289.8	4586.6
15°	3002.5	3013.4	2977.6	2975.7	3039.2	3068.0	3264.5	3544.4	3890.8	4304.7	4669.0
17.5°	3180.1	3182.1	3087.8	3028.3	3067.0	3081.9	3228.8	3486.8	3856.1	4338.4	4772.2
20°	3430.3	3425.3	3258.5	3159.3	3180.1	3184.1	3279.4	3487.8	3853.1	4397.0	4906.2
22.5°	3761.8	3725.0	3500.7	3365.7	3360.8	3354.8	3409.4	3561.3	3896.7	4492.3	5066.0
25°	4194.5	4159.8	3851.1	3666.5	3626.8	3611.9	3619.8	3718.1	3983.1	4594.5	5244.6
27.5°	4675.9	4615.4	4317.6	4056.5	3974.2	3953.3	3905.7	3939.4	4077.4	4692.8	5457.0
30°	5078.9	5046.1	4786.1	4476.4	4379.1	4349.4	4224.3	4187.6	4213.4	4826.8	5725.0
32.5°	5304.2	5282.3	5124.5	4874.4	4784.1	4742.4	4565.7	4492.3	4431.7	5038.2	6088.3
35°	5577.1	5563.2	5468.0	5286.3	5152.3	5108.7	4971.7	4895.3	4739.4	5329.0	6557.8
37.5°	5924.5	5909.6	5911.6	5764.7	5604.9	5564.2	5473.9	5393.5	5138.4	5711.1	7067.9
40°	6317.6	6288.8	6277.9	6270.9	6169.7	6146.9	6099.2	5990.0	5638.7	6167.7	7571.2
42.5°	6909.1	6806.9	6588.5	6670.9	6771.2	6759.3	6798.0	6641.1	6194.5	6707.6	8062.5
45°	7479.9	7312.1	6934.9	6952.8	7172.2	7238.7	7528.5	7417.3	6797.0	7299.2	8570.7
47.5°	7739.9	7612.9	7292.3	7293.3	7510.6	7648.6	8283.8	8204.4	7430.2	7971.2	9191.0
50°	8030.7	7903.7	7615.8	7724.0	7913.6	8060.5	9013.3	8972.6	8032.7	8706.6	9934.4
52.5°	8348.3	8132.9	7950.3	8143.9	8409.9	8580.6	9743.9	9632.7	8585.6	9447.1	10789.0
55°	8352.3	8293.7	8432.7	8574.6	8972.6	9182.1	10509.1	10215.3	9036.2	10174.6	11484.8
57.5°	8827.7	8732.4	9027.2	9092.7	9612.8	9849.1	11270.4	10722.5	9494.7	10732.4	11860.0
60°	9457.0	9375.6	9616.8	9789.5	10404.9	10720.5	12083.3	11243.6	9855.0	11153.3	11842.1
62.5°	10543.9	10451.5	10448.6	10690.7	11519.5	11886.8	12995.4	11754.8	9997.9	11236.6	11336.9
65°	12134.9	11988.0	11711.1	11826.2	13059.0	13425.2	14014.8	12125.0	9809.4	10790.0	10035.7
67.5°	13683.3	13678.3	13337.9	13574.1	15091.7	15385.5	15176.1	12161.7	9220.8	9234.7	7727.0
70°	15226.7	15246.5	15189.0	16010.8	17838.1	18143.8	16412.8	11668.4	7897.7	6668.9	4629.2
72.5°	16449.5	16444.6	16734.4	18853.5	21402.3	21333.9	17455.0	10173.6	5670.4	3600.0	2212.4
75°	15657.5	15484.8	16348.3	20260.9	23479.7	23145.3	16568.6	7096.7	2942.9	1638.7	1191.1
77.5°	10212.3	10376.1	11643.6	16737.4	20537.8	20130.9	12155.8	3311.1	1386.6	1074.9	863.5
80°	3698.2	3870.9	5452.1	9480.8	14149.8	14083.3	5986.1	1360.8	938.0	811.9	629.3
82.5°	1272.4	1336.0	2150.9	4210.4	7989.0	8286.8	2252.1	773.2	681.9	575.7	430.8
85°	499.3	571.7	983.6	2025.8	4029.7	4059.5	912.2	462.5	474.4	377.2	236.2
87.5°	189.6	230.3	470.5	940.9	1840.2	1690.3	326.5	220.3	270.0	224.3	112.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4491.3	4491.3	4491.3	4491.3	4491.3	4491.3	4491.3	4491.3	4491.3	4491.3	4491.3
2.5°	4498.2	4519.1	4562.7	4592.5	4624.3	4633.2	4637.2	4645.1	4653.1	4650.1	4651.1
5°	4526.0	4566.7	4637.2	4667.0	4680.9	4665.0	4634.2	4609.4	4591.5	4581.6	4578.6
7.5°	4571.7	4629.2	4704.7	4699.7	4668.0	4597.5	4518.1	4458.5	4408.9	4391.0	4381.1
10°	4632.2	4699.7	4752.3	4695.8	4603.4	4481.4	4362.3	4269.9	4195.5	4166.7	4161.8
12.5°	4709.6	4778.1	4788.1	4668.0	4515.1	4348.4	4186.6	4064.5	3953.3	3917.6	3909.7
15°	4809.9	4874.4	4812.9	4619.3	4405.9	4181.6	3972.2	3806.4	3689.3	3645.6	3629.8
17.5°	4915.1	4976.6	4817.8	4538.9	4263.0	3984.1	3721.1	3551.3	3417.3	3366.7	3360.8
20°	5041.2	5068.9	4797.0	4423.8	4066.5	3728.0	3451.1	3291.3	3219.8	3184.1	3180.1
22.5°	5197.0	5167.2	4749.3	4268.0	3817.3	3432.2	3206.9	3132.5	3114.6	3106.7	3109.7
25°	5361.8	5270.4	4678.9	4064.5	3502.7	3136.5	3028.3	3049.1	3072.9	3070.0	3070.0
27.5°	5543.4	5375.6	4570.7	3794.5	3154.3	2894.3	2907.2	2983.6	3019.3	3018.3	3017.3
30°	5776.6	5494.8	4432.7	3470.0	2828.8	2723.6	2802.0	2895.3	2943.9	2941.9	2942.9
32.5°	6063.5	5625.8	4245.1	3107.7	2593.5	2597.5	2687.8	2780.1	2836.7	2831.7	2832.7
35°	6399.0	5772.7	3991.0	2750.4	2437.7	2497.3	2568.7	2633.2	2686.8	2679.9	2672.9
37.5°	6764.2	5916.6	3653.6	2430.8	2310.7	2404.0	2463.5	2474.4	2499.2	2481.4	2468.5
40°	7111.6	6026.8	3218.8	2168.7	2182.6	2324.6	2363.3	2319.6	2274.9	2269.0	2251.1
42.5°	7414.3	6063.5	2779.1	1959.3	2047.6	2241.2	2265.0	2173.7	2093.3	2055.6	2039.7
45°	7733.9	6076.4	2369.2	1783.6	1917.6	2166.7	2192.5	2070.5	1957.3	1875.9	1849.1
47.5°	8151.8	6169.7	2050.6	1653.6	1818.4	2117.1	2153.8	1988.1	1841.2	1725.1	1700.2
50°	8698.7	6354.3	1791.6	1554.3	1753.8	2084.4	2126.0	1907.7	1745.9	1605.9	1581.1
52.5°	9306.1	6524.0	1582.1	1473.9	1691.3	2026.8	2090.3	1850.1	1656.6	1495.8	1469.0
55°	9731.0	6394.0	1413.4	1390.6	1609.9	1944.4	2040.7	1801.5	1528.5	1388.6	1364.8
57.5°	9812.3	5949.3	1285.4	1304.2	1511.7	1841.2	1964.3	1693.3	1459.0	1341.9	1317.1
60°	9590.0	5330.0	1190.1	1224.8	1406.4	1711.2	1821.3	1616.9	1392.5	1292.3	1271.5
62.5°	9031.2	4695.8	1119.6	1153.3	1308.2	1579.1	1732.0	1536.5	1325.1	1235.7	1214.9
65°	7902.7	3942.4	1052.1	1089.8	1216.9	1465.0	1651.6	1462.0	1258.6	1190.1	1170.2
67.5°	5965.2	2952.8	988.6	1022.3	1135.5	1365.7	1564.3	1388.6	1194.0	1150.4	1126.5
70°	3512.6	1849.1	916.1	951.9	1050.1	1262.5	1471.0	1308.2	1113.6	1093.8	1063.0
72.5°	1634.7	1112.6	833.7	868.5	942.9	1124.6	1350.9	1203.0	1018.4	974.7	933.0
75°	975.7	813.9	736.5	767.2	819.8	977.7	1200.0	1095.8	928.0	870.5	826.8
77.5°	729.5	622.3	629.3	662.0	704.7	855.6	1063.0	1011.4	858.6	813.9	784.1
80°	525.1	472.5	513.1	548.9	593.5	778.2	1018.4	935.0	776.2	716.6	688.8
82.5°	350.4	339.5	386.1	422.8	466.5	680.9	956.8	818.9	663.0	587.6	526.1
85°	193.5	204.5	260.0	275.9	313.6	479.4	784.1	658.1	499.3	402.0	384.1
87.5°	80.4	94.3	139.9	135.0	166.7	285.9	516.1	397.0	317.6	237.2	184.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)