

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: P318710

Luminaire Tested: **GAN-SA6A-740-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318710
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-SA6A-740-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 615mA 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: 28040 lumens
Efficiency: N/A
Efficacy: 145.3 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): 193
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

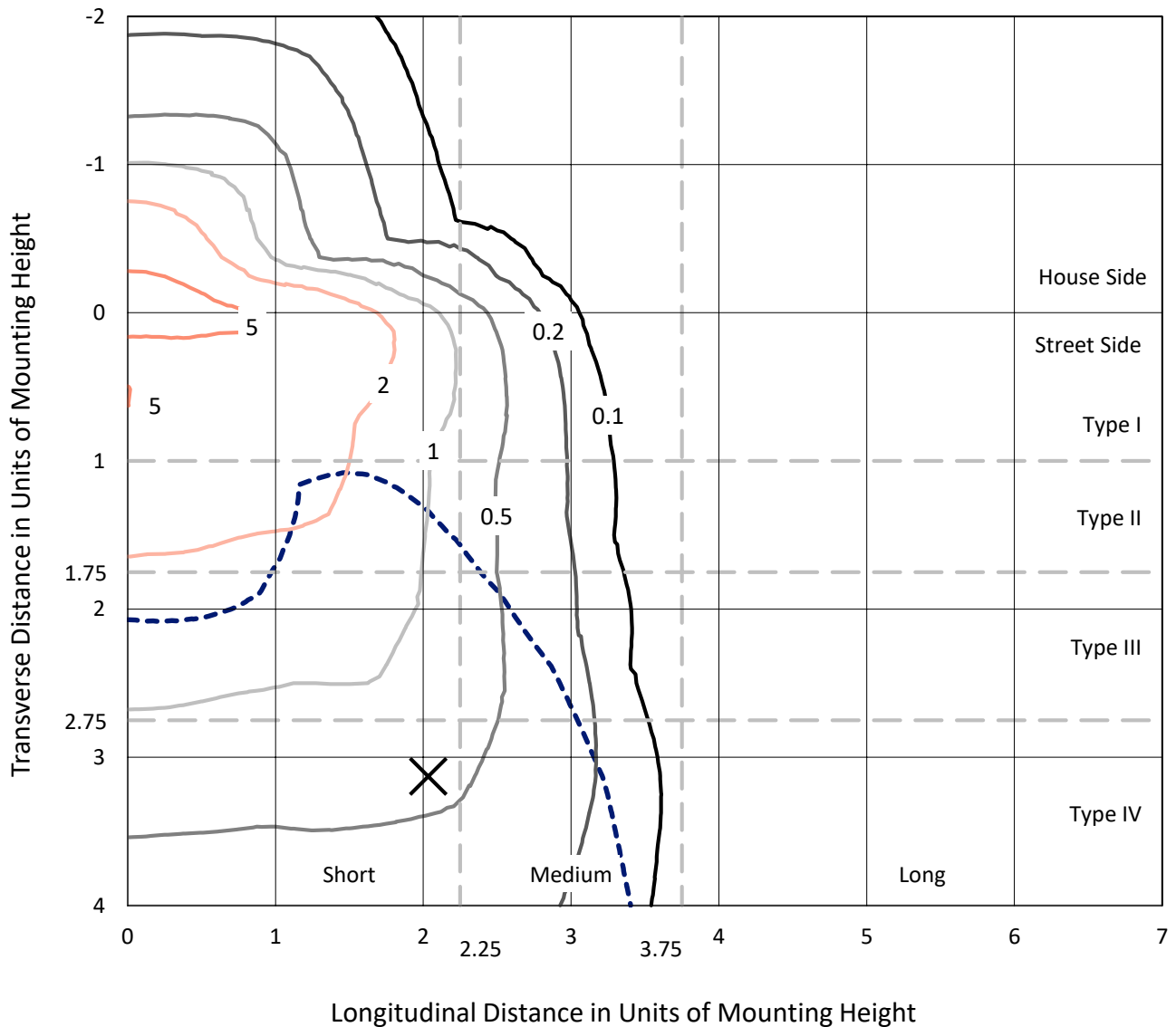




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Iso-Footcandle Lines of Horizontal Illumination

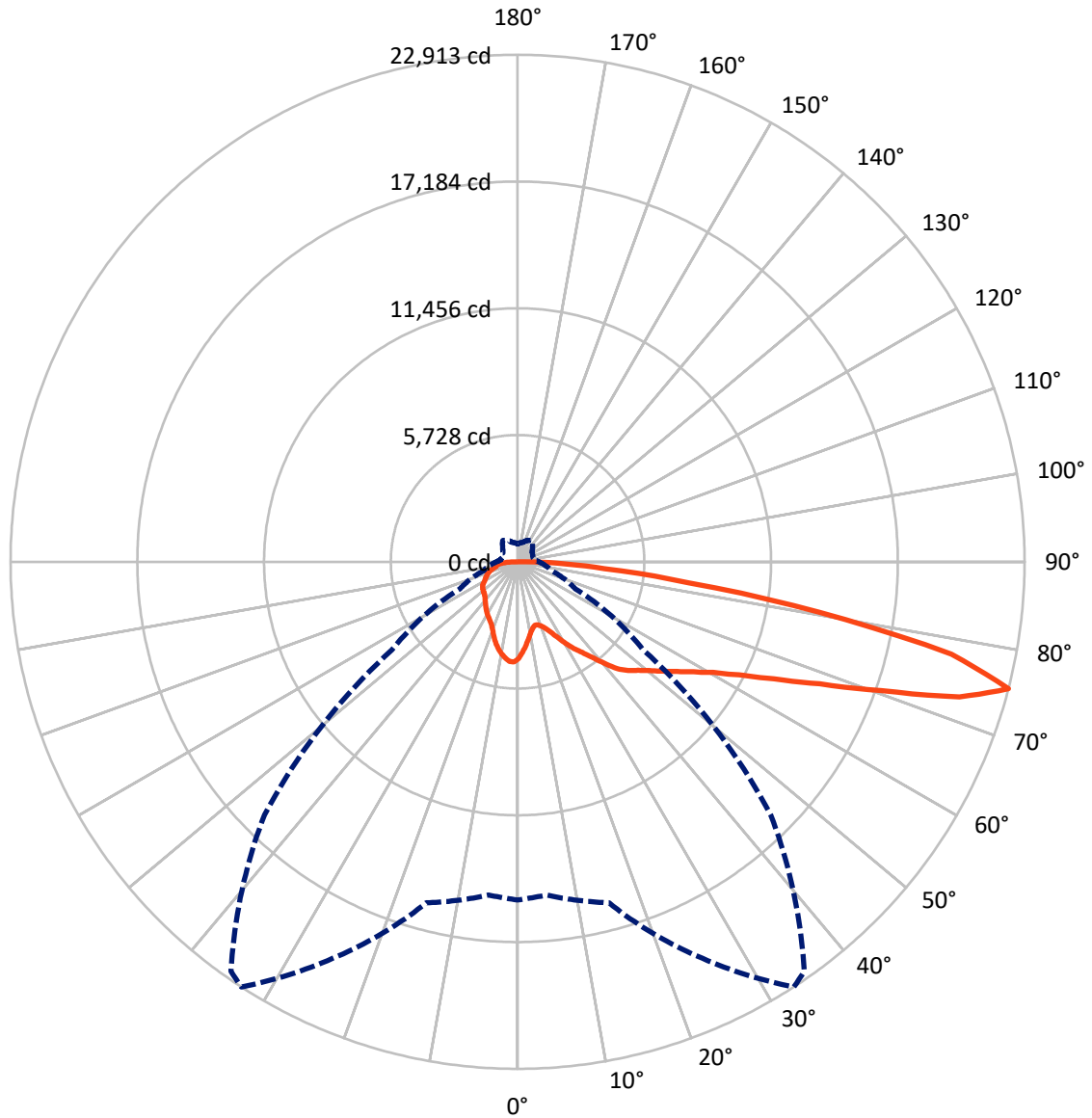
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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	6020.9	0.0	6020.9
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	22019.1	0.0	22019.1
	% Fixture	78.5	0.0	78.5
Total	Lumens	28040.0	0.0	28040.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.4	1.4
10°-20°	1073.5	3.8
20°-30°	1753.2	6.3
30°-40°	2611.0	9.3
40°-50°	3744.9	13.4
50°-60°	5141.1	18.3
60°-70°	6436.5	23.0
70°-80°	5822.8	20.8
80°-90°	1060.7	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°	28040.0	100.0
0°-180°	28040.0	100.0

Coefficient of Utilization



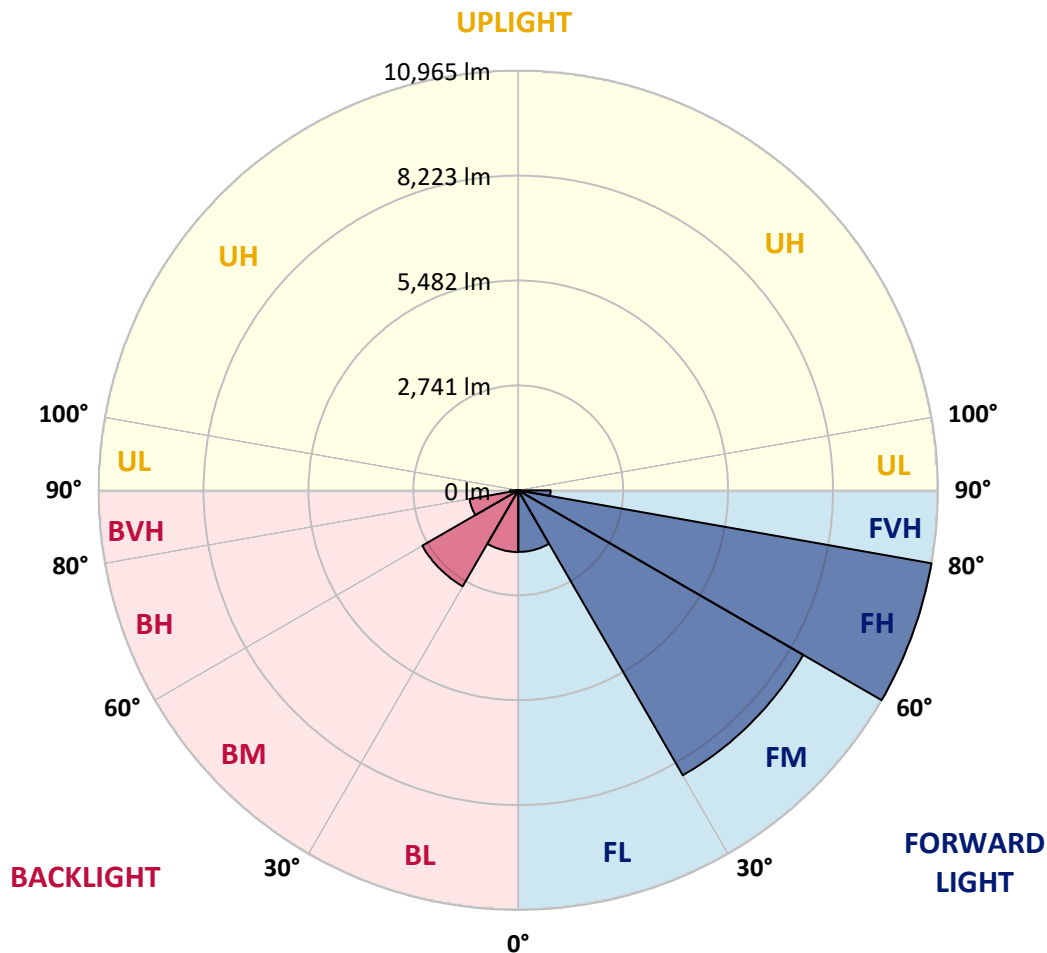
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1610.5	5.7			
FM (30°-60°)	8599.3	30.7			
FH (60°-80°)	10964.6	39.1			G4/12000
FVH (80°-90°)	844.7	3.0			G5
BL (0°-30°)	1612.7	5.8	B3/2500		
BM (30°-60°)	2897.7	10.3	B3/5000		
BH (60°-80°)	1294.6	4.6	B3/2500		G3/2500
BVH (80°-90°)	215.9	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°	4382.8	4382.8	4382.8	4382.8	4382.8	4382.8	4382.8	4382.8	4382.8	4382.8	4382.8
2.5°	4070.0	4054.5	4083.5	4087.4	4112.6	4122.3	4157.1	4211.4	4255.9	4307.3	4353.8
5°	3700.9	3690.3	3731.0	3760.0	3815.2	3838.5	3920.8	4036.1	4138.7	4255.0	4360.5
7.5°	3350.3	3344.5	3390.0	3455.9	3519.8	3551.8	3694.2	3861.7	4033.2	4221.1	4382.8
10°	3054.9	3053.0	3096.5	3161.4	3255.4	3291.2	3475.3	3696.1	3936.3	4194.9	4420.6
12.5°	2889.3	2896.0	2916.4	2970.6	3057.8	3093.6	3298.0	3557.6	3854.9	4186.2	4475.8
15°	2929.9	2940.6	2905.7	2903.8	2965.8	2993.9	3185.6	3458.8	3796.8	4200.7	4556.2
17.5°	3103.3	3105.3	3013.2	2955.1	2992.9	3007.4	3150.8	3402.6	3762.9	4233.6	4656.9
20°	3347.4	3342.6	3179.8	3083.0	3103.3	3107.2	3200.2	3403.6	3760.0	4290.8	4787.7
22.5°	3670.9	3635.1	3416.2	3284.4	3279.6	3273.8	3327.1	3475.3	3802.6	4383.8	4943.6
25°	4093.2	4059.3	3758.1	3577.9	3539.2	3524.7	3532.4	3628.3	3886.9	4483.5	5118.0
27.5°	4563.0	4503.9	4213.3	3958.6	3878.2	3857.8	3811.3	3844.3	3978.9	4579.4	5325.2
30°	4956.2	4924.2	4670.5	4368.3	4273.4	4244.3	4122.3	4086.4	4111.6	4710.2	5586.7
32.5°	5176.1	5154.8	5000.8	4756.7	4668.5	4627.9	4455.5	4383.8	4324.7	4916.5	5941.2
35°	5442.4	5428.9	5335.9	5158.6	5027.9	4985.3	4851.6	4777.0	4625.0	5200.3	6399.4
37.5°	5781.4	5766.9	5768.8	5625.5	5469.6	5429.8	5341.7	5263.2	5014.3	5573.2	6897.2
40°	6165.0	6136.9	6126.2	6119.5	6020.7	5998.4	5951.9	5845.4	5502.5	6018.7	7388.3
42.5°	6742.3	6642.5	6429.4	6509.8	6607.6	6596.0	6633.8	6480.7	6044.9	6545.6	7867.7
45°	7299.2	7135.5	6767.4	6784.9	6998.9	7063.8	7346.7	7238.2	6632.8	7122.9	8363.7
47.5°	7553.0	7429.0	7116.1	7117.1	7329.2	7463.9	8083.7	8006.3	7250.8	7778.6	8969.0
50°	7836.8	7712.8	7431.9	7537.5	7722.5	7865.8	8795.6	8755.9	7838.7	8496.4	9694.5
52.5°	8146.7	7936.5	7758.3	7947.2	8206.7	8373.3	9508.5	9400.0	8378.2	9218.9	10528.4
55°	8150.6	8093.4	8229.0	8367.5	8755.9	8960.3	10255.3	9968.6	8817.9	9928.9	11207.4
57.5°	8614.5	8521.5	8809.2	8873.1	9380.7	9611.2	10998.2	10463.5	9265.4	10473.2	11573.5
60°	9228.6	9149.2	9384.5	9553.1	10153.6	10461.6	11791.5	10972.0	9617.0	10883.9	11556.1
62.5°	10289.2	10199.1	10196.2	10432.5	11241.3	11599.7	12681.6	11470.9	9756.5	10965.3	11063.1
65°	11841.8	11698.5	11428.2	11540.6	12743.6	13101.0	13676.3	11832.1	9572.4	10529.4	9793.3
67.5°	13352.8	13348.0	13015.7	13246.3	14727.2	15013.9	14809.5	11868.0	8998.1	9011.6	7540.4
70°	14858.9	14878.3	14822.1	15624.1	17407.3	17705.6	16016.4	11386.6	7707.0	6507.9	4517.4
72.5°	16052.2	16047.4	16330.2	18398.1	20885.4	20818.6	17033.4	9927.9	5533.5	3513.0	2159.0
75°	15279.3	15110.8	15953.4	19771.6	22912.6	22586.2	16168.4	6925.3	2871.8	1599.1	1162.3
77.5°	9965.7	10125.5	11362.4	16333.1	20041.8	19644.7	11862.2	3231.2	1353.1	1049.0	842.7
80°	3608.9	3777.4	5320.4	9251.8	13808.0	13743.1	5841.5	1327.9	915.3	792.3	614.1
82.5°	1241.7	1303.7	2098.9	4108.7	7796.1	8086.6	2197.7	754.5	665.4	561.8	420.4
85°	487.2	557.9	959.9	1976.9	3932.4	3961.5	890.1	451.4	463.0	368.1	230.5
87.5°	185.0	224.7	459.1	918.2	1795.7	1649.5	318.7	215.0	263.5	218.9	109.4
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°	4382.8	4382.8	4382.8	4382.8	4382.8	4382.8	4382.8	4382.8	4382.8	4382.8	4382.8
2.5°	4389.6	4409.9	4452.5	4481.6	4512.6	4521.3	4525.2	4532.9	4540.7	4537.8	4538.8
5°	4416.7	4456.4	4525.2	4554.2	4567.8	4552.3	4522.3	4498.1	4480.6	4470.9	4468.0
7.5°	4461.3	4517.4	4591.1	4586.2	4555.2	4486.4	4409.0	4350.8	4302.4	4285.0	4275.3
10°	4520.3	4586.2	4637.5	4582.3	4492.3	4373.1	4256.9	4166.8	4094.2	4066.1	4061.2
12.5°	4595.9	4662.7	4672.4	4555.2	4406.1	4243.3	4085.5	3966.3	3857.8	3823.0	3815.2
15°	4693.7	4756.7	4696.6	4507.8	4299.5	4080.6	3876.2	3714.5	3600.2	3557.6	3542.1
17.5°	4796.4	4856.4	4701.5	4429.3	4160.0	3887.9	3631.2	3465.6	3334.8	3285.4	3279.6
20°	4919.4	4946.5	4681.1	4316.9	3968.3	3638.0	3367.7	3211.8	3142.1	3107.2	3103.3
22.5°	5071.5	5042.4	4634.6	4164.9	3725.1	3349.3	3129.5	3056.8	3039.4	3031.6	3034.6
25°	5232.3	5143.1	4565.9	3966.3	3418.1	3060.7	2955.1	2975.5	2998.7	2995.8	2995.8
27.5°	5409.5	5245.8	4460.3	3702.9	3078.1	2824.4	2837.0	2911.5	2946.4	2945.4	2944.5
30°	5637.1	5362.0	4325.7	3386.1	2760.4	2657.8	2734.3	2825.3	2872.8	2870.9	2871.8
32.5°	5917.0	5489.9	4142.6	3032.6	2530.9	2534.8	2622.9	2713.0	2768.2	2763.3	2764.3
35°	6244.4	5633.2	3894.6	2683.9	2378.8	2436.9	2506.7	2569.6	2621.9	2615.2	2608.4
37.5°	6600.8	5773.7	3565.3	2372.0	2254.8	2345.9	2404.0	2414.7	2438.9	2421.4	2408.9
40°	6939.9	5881.2	3141.1	2116.3	2129.9	2268.4	2306.2	2263.6	2220.0	2214.2	2196.7
42.5°	7235.3	5917.0	2712.0	1912.0	1998.2	2187.0	2210.3	2121.2	2042.7	2005.9	1990.4
45°	7547.1	5929.6	2312.0	1740.5	1871.3	2114.4	2139.6	2020.5	1910.0	1830.6	1804.5
47.5°	7954.9	6020.7	2001.1	1613.6	1774.4	2066.0	2101.8	1940.1	1796.7	1683.4	1659.2
50°	8488.6	6200.8	1748.3	1516.8	1711.5	2034.0	2074.7	1861.6	1703.7	1567.2	1542.9
52.5°	9081.4	6366.5	1543.9	1438.3	1650.5	1977.8	2039.8	1805.4	1616.6	1459.6	1433.5
55°	9495.9	6239.6	1379.3	1357.0	1571.0	1897.4	1991.4	1758.0	1491.6	1355.0	1331.8
57.5°	9575.3	5805.6	1254.3	1272.7	1475.1	1796.7	1916.8	1652.4	1423.8	1309.5	1285.3
60°	9358.4	5201.3	1161.3	1195.2	1372.5	1669.8	1777.3	1577.8	1358.9	1261.1	1240.7
62.5°	8813.1	4582.3	1092.6	1125.5	1276.6	1541.0	1690.2	1499.4	1293.0	1205.9	1185.5
65°	7711.8	3847.2	1026.7	1063.5	1187.5	1429.6	1611.7	1426.7	1228.2	1161.3	1142.0
67.5°	5821.1	2881.5	964.7	997.6	1108.1	1332.8	1526.5	1355.0	1165.2	1122.6	1099.3
70°	3427.8	1804.5	894.0	928.9	1024.8	1232.0	1435.4	1276.6	1086.7	1067.4	1037.3
72.5°	1595.2	1085.8	813.6	847.5	920.1	1097.4	1318.2	1173.9	993.8	951.1	910.5
75°	952.1	794.2	718.7	748.7	800.0	954.0	1171.0	1069.3	905.6	849.4	806.8
77.5°	711.9	607.3	614.1	646.0	687.7	834.9	1037.3	987.0	837.8	794.2	765.2
80°	512.4	461.0	500.8	535.6	579.2	759.4	993.8	912.4	757.4	699.3	672.2
82.5°	341.9	331.3	376.8	412.6	455.2	664.4	933.7	799.1	647.0	573.4	513.3
85°	188.9	199.5	253.8	269.3	306.1	467.8	765.2	642.2	487.2	392.3	374.8
87.5°	78.5	92.0	136.6	131.7	162.7	279.0	503.7	387.4	309.9	231.5	180.2
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)