

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: P319044

Luminaire Tested: **GAN-SA0B-740-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319044
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0B-740-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56169 lumens
Efficiency: N/A
Efficacy: 134.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

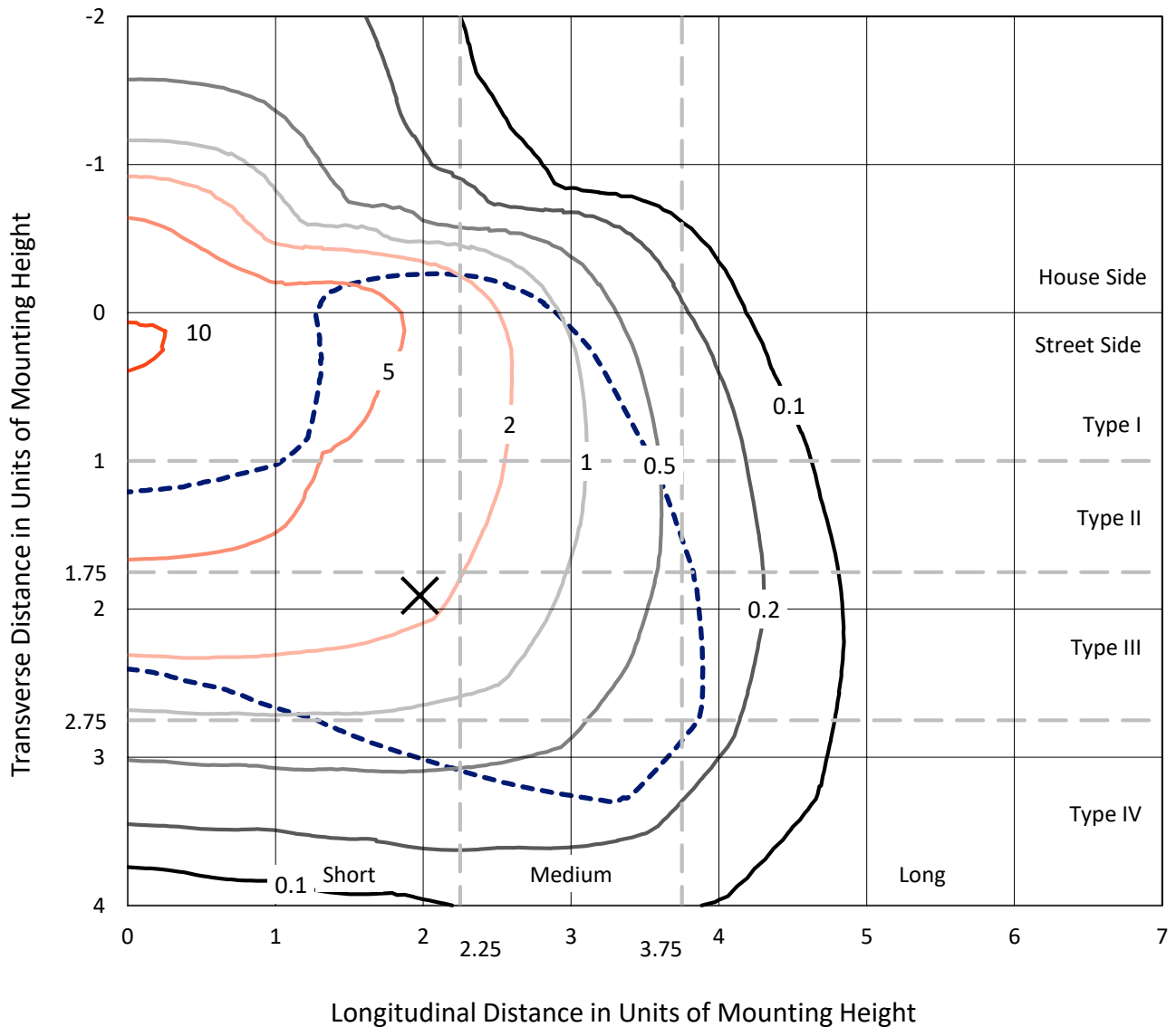
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

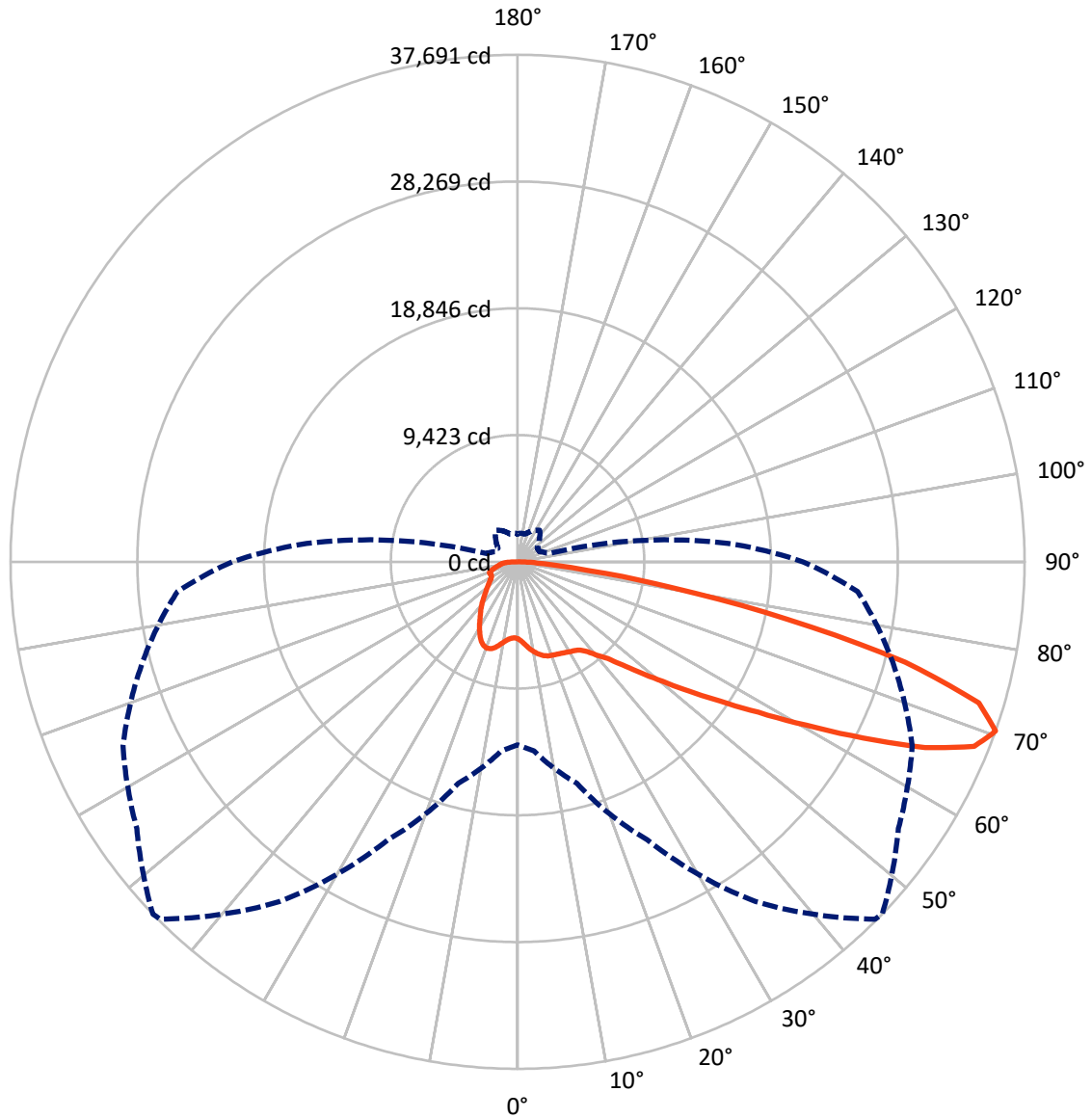
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12873.8	0.0	12873.8
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	43295.2	0.0	43295.2
	% Fixture	77.1	0.0	77.1
Total	Lumens	56169.0	0.0	56169.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	583.4	1.0
10°-20°	1943.6	3.5
20°-30°	3240.7	5.8
30°-40°	4598.8	8.2
40°-50°	6764.6	12.0
50°-60°	11455.9	20.4
60°-70°	16261.4	29.0
70°-80°	9878.9	17.6
80°-90°	1441.7	2.6
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°	56169.0	100.0
0°-180°	56169.0	100.0

Coefficient of Utilization

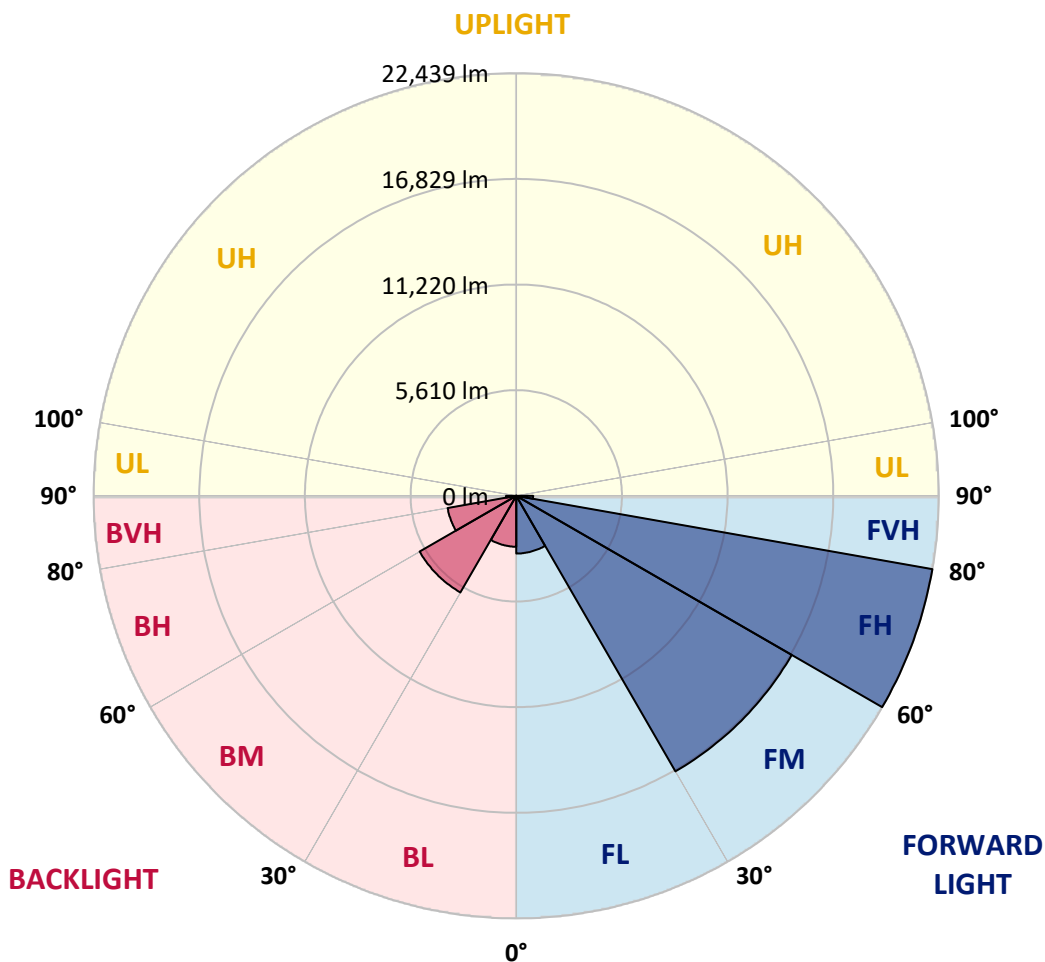


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3064.8	5.5			
FM (30°-60°)	16893.1	30.1			
FH (60°-80°)	22439.2	39.9			G5
FVH (80°-90°)	898.1	1.6			G5
BL (0°-30°)	2702.9	4.8	B4/5000		
BM (30°-60°)	5926.1	10.6	B4/8500		
BH (60°-80°)	3701.1	6.6	B4/5000		G4/5000
BVH (80°-90°)	543.6	1.0			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	5722.5	5722.5	5722.5	5722.5	5722.5	5722.5	5722.5	5722.5	5722.5	5722.5	5722.5
2.5°	6008.9	6012.8	6020.5	6001.2	5947.4	5932.0	5926.3	5870.5	5834.0	5780.2	5734.1
5°	6489.5	6493.3	6481.8	6428.0	6308.8	6220.4	6212.7	6085.8	5970.5	5847.5	5755.2
7.5°	6991.2	6997.0	6960.4	6858.6	6691.3	6537.6	6527.9	6354.9	6180.0	5993.6	5855.2
10°	7435.2	7412.2	7352.6	7210.3	7012.3	6824.0	6816.3	6635.6	6433.8	6208.8	6024.3
12.5°	7731.3	7712.0	7635.2	7462.2	7244.9	7071.9	7056.6	6889.3	6693.3	6447.2	6226.1
15°	7894.7	7908.1	7804.3	7608.2	7396.8	7250.7	7237.3	7118.1	6943.1	6695.2	6441.4
17.5°	7915.8	7927.3	7827.4	7633.2	7460.2	7360.3	7354.5	7275.7	7148.8	6910.5	6645.2
20°	7792.8	7800.5	7717.8	7558.3	7444.9	7414.1	7412.2	7377.6	7283.4	7071.9	6814.4
22.5°	7614.0	7619.8	7560.2	7444.9	7406.4	7454.5	7467.9	7454.5	7387.2	7189.2	6947.0
25°	7569.8	7566.0	7504.4	7387.2	7419.9	7521.7	7539.0	7544.8	7498.7	7325.7	7116.1
27.5°	7783.2	7769.7	7652.5	7464.1	7485.2	7608.2	7631.3	7687.1	7658.2	7506.4	7308.4
30°	8400.2	8377.1	8136.9	7756.3	7652.5	7715.9	7744.7	7833.1	7838.9	7712.0	7564.0
32.5°	9442.1	9413.2	8982.6	8302.2	7935.0	7825.5	7852.4	7985.0	8056.1	7958.1	7798.5
35°	10758.8	10726.1	10161.0	9230.6	8407.9	8035.0	8054.2	8159.9	8302.2	8163.8	7952.3
37.5°	12131.3	12052.5	11508.5	10322.5	9159.5	8482.9	8482.9	8496.3	8563.6	8275.3	8133.0
40°	13496.1	13417.3	12925.2	11606.5	10132.2	9188.3	9144.1	8846.2	8792.3	8544.4	8496.3
42.5°	14764.8	14741.7	14451.4	13057.8	11274.0	9882.3	9820.7	9315.2	9326.7	9173.0	9174.9
45°	16114.2	16114.2	15877.7	14522.6	12604.2	10997.2	10935.6	10191.7	10307.1	10236.0	10407.0
47.5°	17215.6	17250.2	17217.5	16048.8	14151.6	12413.9	12302.4	11406.6	11729.5	11973.7	12471.5
50°	18340.1	18394.0	18399.7	17723.1	16021.9	14097.7	13970.9	13019.4	13740.2	14439.9	15418.3
52.5°	19972.1	20093.2	19610.7	19393.5	18313.2	16096.9	15971.9	15093.5	16296.8	17279.1	18964.9
55°	21484.9	21379.2	21035.1	21169.7	20766.0	18372.8	18278.6	17507.8	19145.6	20421.9	22611.4
57.5°	22303.8	22296.1	22642.1	23218.8	23411.0	21179.3	21100.5	20350.8	22357.6	23316.8	26034.9
60°	23264.9	23278.4	24135.7	25444.7	26236.7	24673.9	24639.3	24070.3	25477.4	26019.5	28720.3
62.5°	23399.5	23641.7	25118.0	27370.8	28881.7	28756.8	28833.7	27420.8	28268.5	28176.3	30725.2
65°	21852.1	22171.2	24843.1	27953.3	31511.4	33222.2	33293.3	30790.5	30469.5	30019.7	31442.2
67.5°	18680.4	19153.2	22055.8	26686.5	32378.3	36522.6	36622.6	33402.8	32295.6	30644.4	29716.0
70°	13594.1	14118.9	17040.7	22792.1	30832.8	37578.0	37691.4	34558.1	32364.8	28866.3	25367.9
72.5°	8211.8	8623.2	11031.8	16779.3	26023.3	35655.7	35857.5	33093.4	29548.7	24450.9	18732.3
75°	3606.1	3875.2	5334.2	9668.9	18630.4	29500.7	29752.5	28326.2	24008.8	17769.2	11072.1
77.5°	1535.9	1612.8	2187.5	4200.1	10532.0	20158.6	20504.6	20696.8	16289.1	9668.9	4678.7
80°	957.3	988.0	1237.9	1901.1	4928.6	11322.0	11694.9	12177.4	8088.8	3554.2	1633.9
82.5°	582.4	617.0	822.7	1149.5	2566.2	5132.4	5311.2	5651.4	3139.0	1535.9	845.8
85°	349.8	374.8	503.6	726.6	1460.9	2018.4	2016.4	2229.8	1478.2	988.0	446.0
87.5°	167.2	186.5	269.1	376.8	736.2	757.4	709.3	803.5	897.7	647.8	224.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5722.5	5722.5	5722.5	5722.5	5722.5	5722.5	5722.5	5722.5	5722.5	5722.5	5722.5
2.5°	5718.7	5711.0	5686.0	5666.8	5662.9	5651.4	5641.8	5647.6	5655.2	5657.2	5657.2
5°	5716.8	5695.6	5662.9	5649.5	5666.8	5689.8	5718.7	5757.1	5780.2	5797.5	5809.0
7.5°	5809.0	5768.7	5732.1	5724.4	5759.0	5820.6	5885.9	5966.6	6022.4	6060.8	6068.5
10°	5962.8	5912.8	5876.3	5884.0	5945.5	6033.9	6126.2	6230.0	6314.6	6366.5	6370.3
12.5°	6139.6	6091.6	6057.0	6089.7	6191.5	6299.2	6395.3	6485.7	6562.5	6614.4	6614.4
15°	6343.4	6308.8	6268.4	6343.4	6481.8	6577.9	6618.3	6662.5	6704.8	6743.2	6735.5
17.5°	6539.5	6506.8	6485.7	6574.1	6718.2	6762.5	6735.5	6702.9	6702.9	6724.0	6727.9
20°	6708.6	6679.8	6693.3	6779.8	6854.7	6808.6	6708.6	6604.8	6562.5	6574.1	6585.6
22.5°	6856.6	6843.2	6883.6	6923.9	6870.1	6708.6	6524.1	6383.8	6331.9	6328.0	6331.9
25°	7029.6	7027.7	7077.7	7004.7	6766.3	6468.4	6220.4	6083.9	6055.1	6078.1	6116.6
27.5°	7244.9	7266.1	7291.1	7023.9	6554.9	6105.0	5853.2	5759.0	5787.9	5843.6	5880.1
30°	7519.8	7577.5	7523.7	6975.8	6251.1	5689.8	5449.6	5422.7	5501.5	5580.3	5618.7
32.5°	7787.0	7877.4	7746.6	6850.9	5859.0	5249.6	5063.2	5055.5	5151.6	5228.5	5282.3
35°	8002.3	8181.1	7913.9	6602.9	5405.4	4844.1	4707.6	4655.7	4690.3	4780.6	4842.1
37.5°	8283.0	8580.9	8029.2	6224.2	4913.3	4509.6	4350.0	4230.9	4200.1	4236.6	4267.4
40°	8796.2	9190.3	8083.0	5695.6	4432.7	4175.1	4013.6	3838.7	3717.6	3629.2	3631.1
42.5°	9634.3	9984.1	8048.4	5053.6	3988.7	3848.3	3665.7	3463.9	3267.8	3067.9	3052.5
45°	10995.2	11164.4	7944.6	4373.1	3598.4	3506.2	3335.1	3133.3	2871.8	2645.0	2623.9
47.5°	13173.1	12798.3	7783.2	3779.1	3254.4	3215.9	3058.3	2825.7	2548.9	2366.3	2350.9
50°	16143.0	15156.9	7704.4	3306.3	2950.6	2962.2	2833.4	2587.3	2325.9	2191.4	2176.0
52.5°	19695.3	17903.8	7856.2	2941.0	2706.5	2746.9	2650.8	2420.1	2201.0	2095.2	2079.9
55°	23380.3	20748.7	8019.6	2675.8	2475.9	2554.7	2522.0	2331.7	2133.7	2035.7	2022.2
57.5°	26534.7	22872.8	7692.8	2460.5	2270.2	2393.2	2422.0	2275.9	2099.1	2010.7	1995.3
60°	28520.3	23728.2	6835.5	2258.6	2106.8	2264.4	2364.4	2260.6	2112.5	2104.9	2093.3
62.5°	29462.2	23653.2	5549.5	2099.1	2004.9	2208.7	2406.7	2347.1	2266.3	2335.5	2341.3
65°	29039.3	22522.9	4132.8	1993.4	1931.9	2229.8	2533.5	2510.5	2310.5	2379.7	2389.3
67.5°	26255.9	19826.0	3060.2	1901.1	1851.1	2289.4	2764.2	2564.3	2224.0	2274.0	2243.3
70°	21221.6	15718.2	2360.5	1797.3	1768.5	2281.7	2868.0	2531.6	2129.8	2141.4	2058.7
72.5°	14634.0	10718.4	1920.3	1701.2	1649.3	2079.9	2794.9	2450.9	2051.0	1962.6	1853.0
75°	7958.1	5753.3	1632.0	1601.2	1439.8	1826.1	2660.4	2393.2	1979.9	1862.7	1801.1
77.5°	3131.3	2387.4	1416.7	1464.8	1259.1	1612.8	2510.5	2283.6	1881.9	1728.1	1697.3
80°	1278.3	1218.7	1174.5	1266.8	1082.2	1410.9	2329.8	2154.8	1764.6	1603.2	1541.6
82.5°	724.7	757.4	913.1	999.6	878.5	1299.4	2243.3	2051.0	1624.3	1435.9	1362.9
85°	371.0	444.0	636.3	717.0	645.9	1105.3	2066.4	1795.4	1303.3	1099.5	1105.3
87.5°	178.8	248.0	401.7	449.8	419.0	799.7	1543.6	1301.4	1014.9	803.5	778.5
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)