

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: P383651

Luminaire Tested: **GAN-SA9B-735-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383651
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9B-735-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46702.2 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

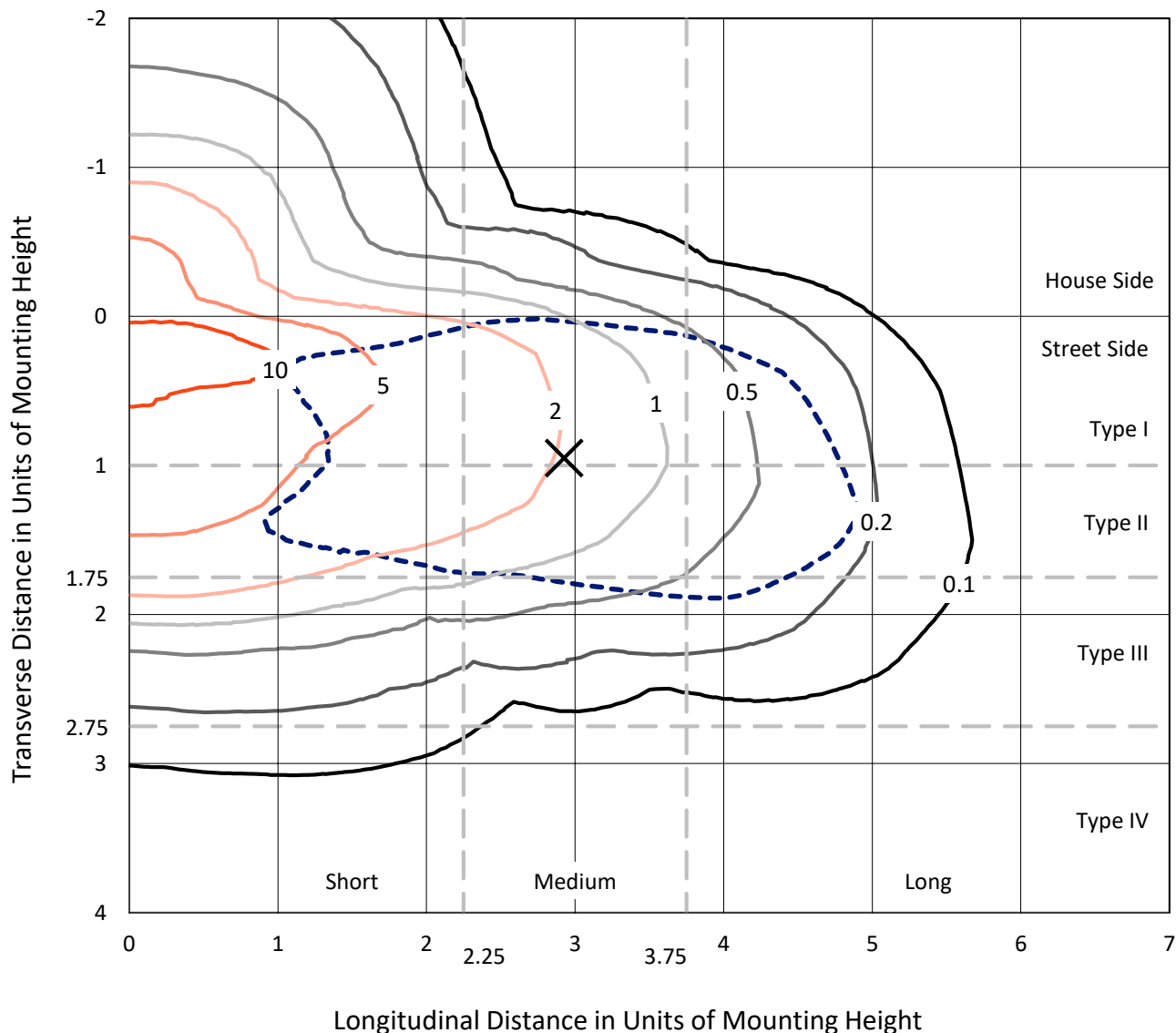
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

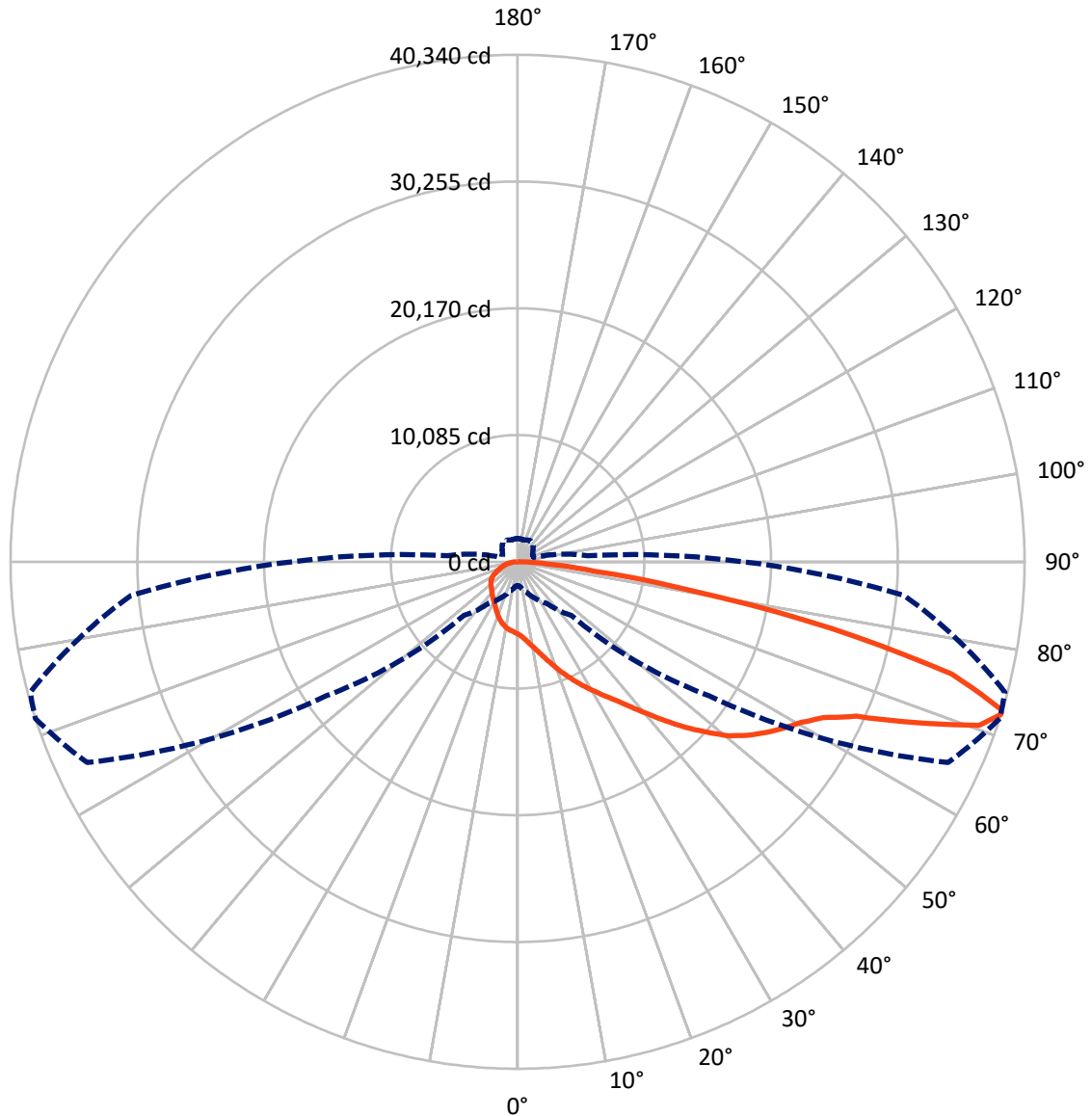
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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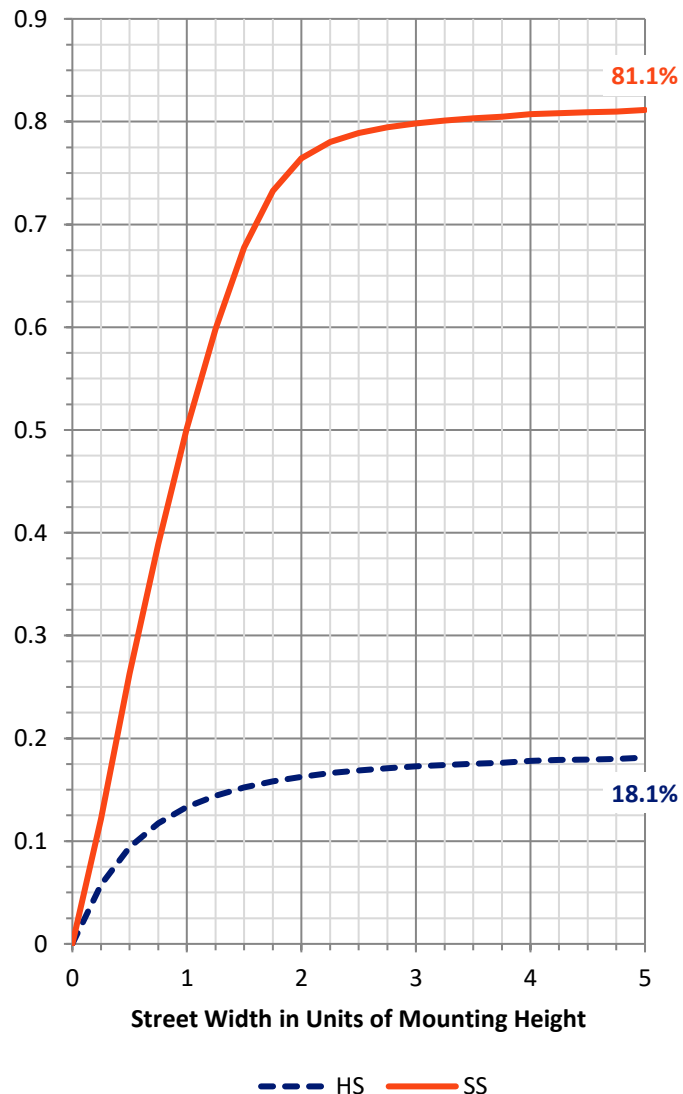
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8663.6	0.0	8663.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	38038.6	0.0	38038.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	46702.2	0.0	46702.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	575.7	1.2
10°-20°	1860.5	4.0
20°-30°	3260.1	7.0
30°-40°	4833.7	10.4
40°-50°	7069.7	15.1
50°-60°	9727.9	20.8
60°-70°	10830.0	23.2
70°-80°	7338.4	15.7
80°-90°	1206.1	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°	46702.2	100.0
0°-180°	46702.2	100.0

Coefficient of Utilization

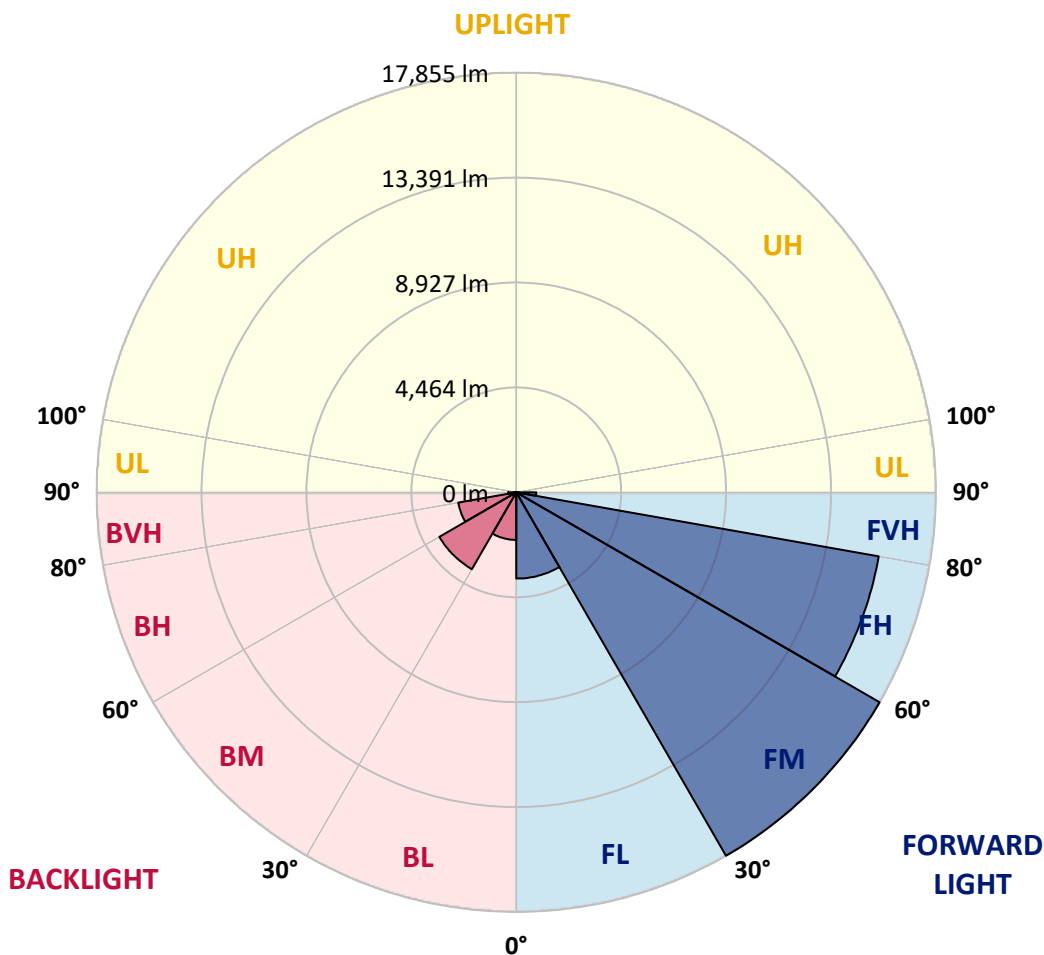


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3671.1	7.9			
FM (30°-60°)	17854.8	38.2			
FH (60°-80°)	15662.0	33.5			G5
FVH (80°-90°)	850.8	1.8			G5
BL (0°-30°)	2025.2	4.3	B3/2500		
BM (30°-60°)	3776.5	8.1	B3/5000		
BH (60°-80°)	2506.5	5.4	B4/5000		G4/5000
BVH (80°-90°)	355.3	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	5745.6	5745.6	5745.6	5745.6	5745.6	5745.6	5745.6	5745.6	5745.6	5745.6	5745.6
2.5°	6347.0	6337.3	6303.6	6303.6	6239.2	6184.5	6081.7	6012.5	5930.5	5901.5	5805.1
5°	6961.3	6964.5	6922.7	6893.7	6798.9	6683.1	6507.8	6348.6	6189.4	6125.1	5927.3
7.5°	7477.4	7471.0	7459.7	7435.6	7347.2	7228.3	6991.8	6755.5	6520.6	6424.2	6083.3
10°	7808.7	7823.2	7832.8	7844.1	7807.1	7721.9	7498.4	7210.6	6903.4	6771.5	6269.8
12.5°	7976.0	8001.7	8046.7	8123.9	8185.0	8175.4	8013.0	7707.4	7342.4	7176.7	6502.9
15°	8074.1	8107.8	8178.6	8316.9	8488.9	8587.0	8543.6	8267.0	7860.2	7655.9	6787.6
17.5°	8135.2	8162.5	8271.9	8456.8	8712.5	8972.9	9087.2	8855.6	8445.5	8212.3	7114.0
20°	8176.9	8197.9	8334.6	8551.6	8882.9	9297.8	9616.2	9558.3	9090.3	8788.0	7455.0
22.5°	8270.3	8287.9	8418.2	8636.8	9003.5	9539.0	10125.9	10212.7	9770.5	9428.0	7820.0
25°	8530.7	8530.7	8640.1	8792.9	9137.0	9748.1	10556.9	10941.2	10465.3	10066.4	8157.7
27.5°	9027.6	9022.8	9063.0	9116.1	9376.6	9960.3	10941.2	11584.4	11185.7	10749.9	8485.7
30°	9616.2	9648.3	9653.2	9627.5	9749.7	10225.6	11296.6	12263.1	11910.9	11441.4	8821.8
32.5°	10373.6	10394.5	10370.4	10285.1	10267.4	10601.9	11645.6	12973.8	12695.6	12163.3	9129.0
35°	11335.2	11295.0	11219.4	11045.7	10880.1	11105.3	12044.4	13684.5	13576.8	13036.5	9551.9
37.5°	12365.9	12367.6	12274.3	11880.3	11652.0	11748.5	12594.3	14490.2	14643.0	14075.3	10093.8
40°	13192.5	13235.9	13293.8	12776.0	12480.1	12613.6	13293.8	15424.5	15903.7	15307.1	10799.7
42.5°	13769.8	13819.6	13983.6	13658.8	13351.7	13599.4	14117.1	16421.5	17318.8	16728.6	11626.3
45°	14380.9	14408.2	14523.9	14384.1	14187.9	14745.9	15045.0	17453.8	18815.9	18243.4	12550.9
47.5°	15024.1	15053.1	15172.0	15078.8	14975.8	15816.8	16013.0	18426.8	20250.3	19907.7	13538.3
50°	15818.4	15837.8	15950.3	15781.4	15813.7	16624.1	16878.2	19319.2	21753.8	21403.2	14528.8
52.5°	16902.3	16907.1	17063.1	16910.3	16759.2	17215.8	17622.7	20160.2	22932.5	22766.8	15519.4
55°	17751.4	17802.8	18314.1	18282.0	18195.2	17753.0	18245.0	20961.0	23984.2	24063.0	16571.0
57.5°	17209.4	17410.4	18446.0	19176.1	19886.9	19089.3	19086.0	21863.1	24961.8	25334.9	17727.3
60°	15072.3	15345.7	16871.7	18491.0	20715.0	21414.5	20832.4	22964.7	25949.2	26595.7	19176.1
62.5°	10764.3	11214.6	13282.6	15868.4	19579.7	22955.0	24386.2	24712.7	27291.9	28055.8	21059.1
65°	5441.6	5782.6	7516.1	10630.9	15643.2	21948.4	28248.7	28539.8	29625.3	30303.8	23958.5
67.5°	3306.2	3434.8	4280.6	5912.8	9590.5	17096.9	29509.5	34919.0	34140.7	34500.9	28092.8
70°	2436.2	2531.1	3058.6	3926.8	5515.6	10032.7	25640.5	39471.3	38960.0	38919.8	31148.1
72°	1897.5	1966.7	2433.0	3172.7	4033.0	6018.9	18584.3	37790.9	40339.7	40137.1	30868.3
72.5°	1799.4	1860.5	2285.1	2986.2	3811.1	5456.2	16709.4	36657.2	40240.1	40148.4	30506.5
75°	1416.7	1460.1	1691.7	2309.2	2982.9	3095.5	9156.3	28407.9	35697.3	37181.5	27438.3
77.5°	1172.3	1178.7	1300.9	1680.4	2325.2	2188.6	4497.7	19710.0	25561.7	27193.8	19436.6
80°	955.2	963.2	1021.2	1178.7	1759.2	1619.3	2135.5	11333.6	14311.7	14329.4	9243.1
82.5°	760.6	762.2	826.6	862.0	1263.9	1157.8	1223.8	5321.1	6253.8	6015.7	3322.3
85°	535.5	524.2	807.3	707.5	826.6	742.9	675.4	2106.6	2585.8	2473.2	1040.4
87.5°	178.5	184.9	358.6	458.3	482.4	421.3	300.7	807.3	976.1	968.1	329.7
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°	5745.6	5745.6	5745.6	5745.6	5745.6	5745.6	5745.6	5745.6	5745.6	5745.6	5745.6
2.5°	5774.6	5723.1	5647.5	5563.9	5498.0	5430.5	5380.5	5354.8	5325.8	5301.8	5330.7
5°	5835.7	5739.2	5578.4	5420.8	5305.0	5202.0	5128.1	5089.5	5054.1	5030.0	5033.2
7.5°	5935.4	5779.3	5509.2	5279.3	5118.5	5007.5	4931.9	4906.2	4883.6	4877.2	4885.3
10°	6041.5	5811.6	5417.5	5112.1	4928.7	4837.1	4803.2	4820.9	4837.1	4851.5	4867.6
12.5°	6162.1	5840.4	5284.1	4915.9	4759.8	4724.4	4758.3	4835.4	4891.7	4925.5	4946.4
15°	6319.7	5866.2	5129.7	4719.7	4615.2	4655.3	4769.5	4902.9	5001.0	5063.8	5073.4
17.5°	6464.4	5864.6	4931.9	4521.8	4497.7	4615.2	4787.2	4975.3	5107.2	5195.6	5213.3
20°	6613.9	5821.1	4702.0	4328.9	4378.7	4571.7	4795.2	5022.0	5181.2	5284.1	5308.2
22.5°	6753.8	5745.6	4449.5	4153.6	4279.1	4513.8	4764.7	4994.6	5153.8	5237.4	5263.2
25°	6848.7	5613.7	4193.8	4005.7	4190.6	4443.1	4665.0	4849.9	4968.9	5010.7	5017.1
27.5°	6897.0	5441.6	3952.6	3877.0	4098.9	4327.3	4480.1	4571.7	4605.5	4602.2	4595.8
30°	6903.4	5214.9	3745.2	3772.5	3992.8	4156.8	4229.2	4211.5	4168.1	4094.2	4100.6
32.5°	6882.5	4959.3	3571.5	3672.8	3857.7	3949.4	3952.6	3867.4	3751.6	3634.2	3602.0
35°	6888.9	4708.4	3418.7	3560.3	3693.7	3733.9	3696.9	3571.5	3413.9	3262.7	3230.6
37.5°	6959.7	4489.7	3286.9	3430.0	3512.0	3521.6	3468.6	3336.7	3220.9	3073.0	3060.1
40°	7128.5	4333.7	3161.5	3283.6	3330.3	3335.1	3259.6	3166.2	3175.9	3097.1	3095.5
42.5°	7432.4	4266.2	3050.4	3130.9	3159.8	3169.5	3111.6	3052.1	3135.7	3084.3	3066.6
45°	7824.8	4282.2	2957.2	2981.3	3034.4	3079.4	3044.0	2971.7	3003.9	2780.3	2706.3
47.5°	8278.3	4385.2	2883.2	2852.7	2944.3	3029.6	2974.9	2865.5	2751.4	2529.4	2487.7
50°	8808.9	4544.4	2815.7	2725.6	2846.3	2962.0	2907.4	2751.4	2579.4	2471.6	2457.1
52.5°	9362.1	4739.0	2748.2	2585.8	2722.4	2910.6	2883.2	2725.6	2513.4	2407.3	2387.9
55°	9989.3	4935.2	2662.9	2423.3	2589.0	2886.5	2872.0	2632.4	2463.6	2404.0	2389.6
57.5°	10769.2	5158.6	2550.4	2254.5	2463.6	2799.7	2754.6	2576.1	2412.1	2367.1	2362.2
60°	11785.5	5488.3	2387.9	2074.4	2310.8	2666.2	2656.5	2494.1	2330.1	2297.9	2291.5
62.5°	13309.9	6033.4	2164.5	1894.3	2140.3	2439.4	2527.8	2383.2	2243.3	2241.7	2244.8
65°	15673.8	6853.6	1921.6	1736.7	1968.3	2248.1	2378.3	2269.0	2154.8	2187.0	2191.7
67.5°	18413.9	7533.7	1683.7	1582.3	1792.9	2066.4	2243.3	2154.8	2037.4	2121.0	2122.6
70°	19325.6	6925.9	1474.5	1429.6	1611.3	1891.0	2096.9	2029.4	1910.4	1994.0	1986.0
72°	17984.6	5591.2	1339.5	1313.8	1474.5	1746.4	1966.7	1912.0	1794.6	1850.9	1829.9
72.5°	17561.6	5330.7	1305.8	1284.9	1437.6	1709.4	1932.9	1883.0	1765.7	1813.9	1794.6
75°	15665.7	4629.6	1122.4	1127.3	1254.3	1529.2	1743.1	1727.1	1606.5	1611.3	1604.9
77.5°	11362.6	3394.7	945.5	977.7	1067.7	1344.3	1551.8	1542.1	1410.3	1386.1	1381.3
80°	5272.8	1731.8	770.3	784.7	878.0	1124.0	1323.4	1310.6	1204.4	1173.8	1156.2
82.5°	1805.8	823.3	578.9	588.6	680.2	905.4	1148.1	1140.1	1051.6	992.2	955.2
85°	644.8	410.1	405.2	395.6	485.6	712.4	1000.2	956.8	826.6	704.3	701.1
87.5°	209.0	175.3	209.0	207.5	283.0	482.4	726.9	619.1	599.8	498.5	488.9
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)