

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: P383433

Luminaire Tested: **GAN-SA7B-735-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383433
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7B-735-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38499 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

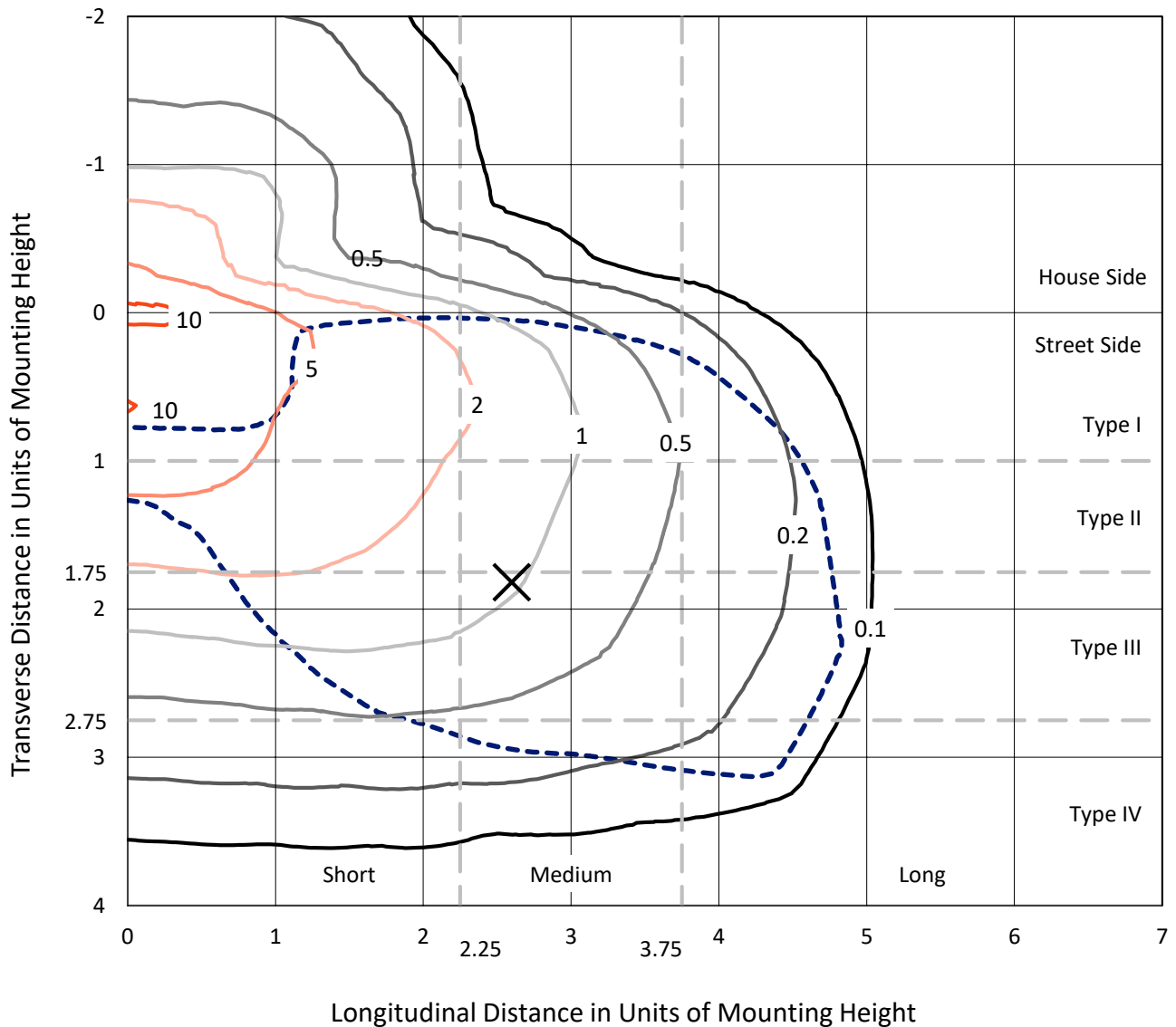
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

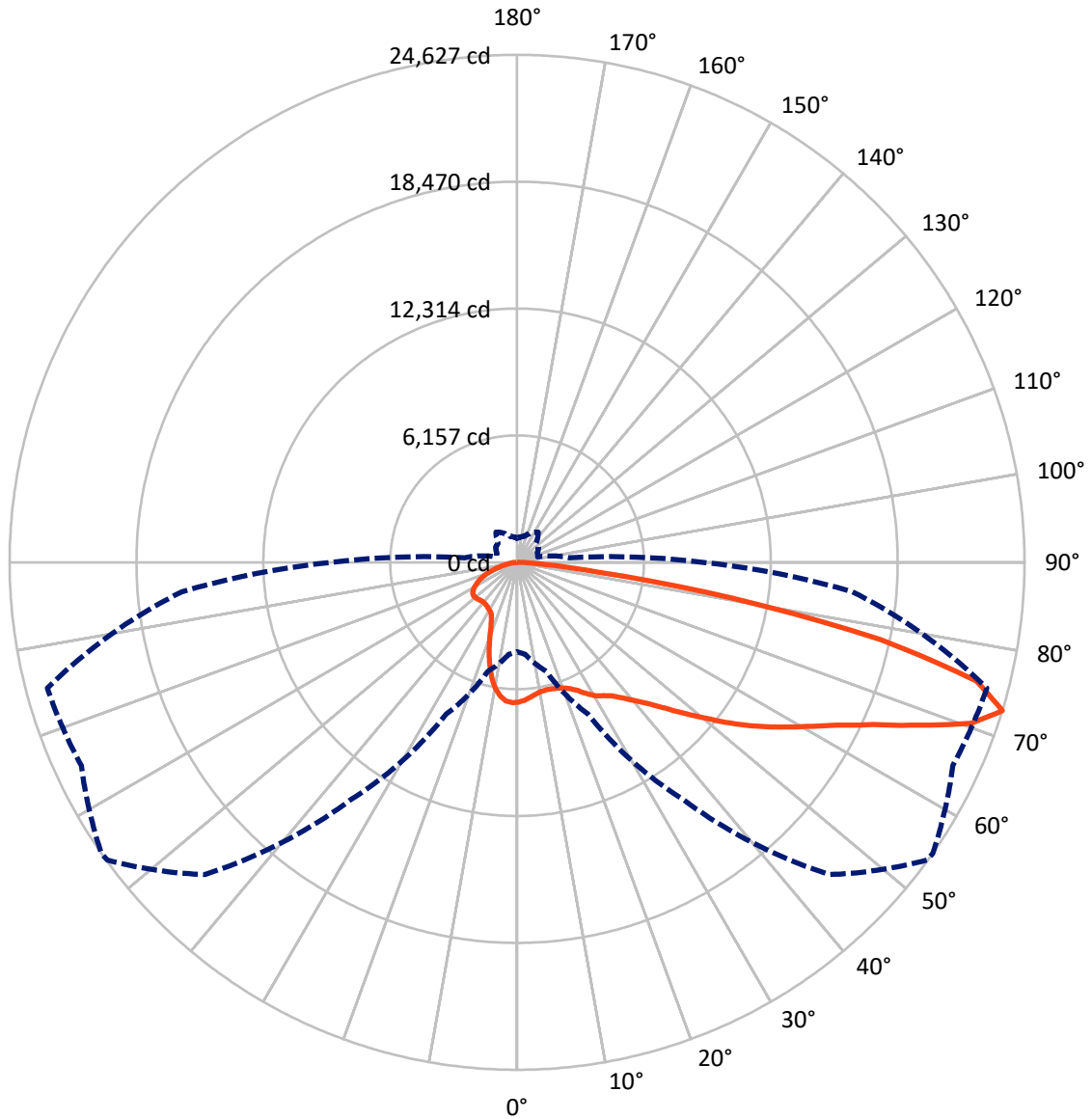
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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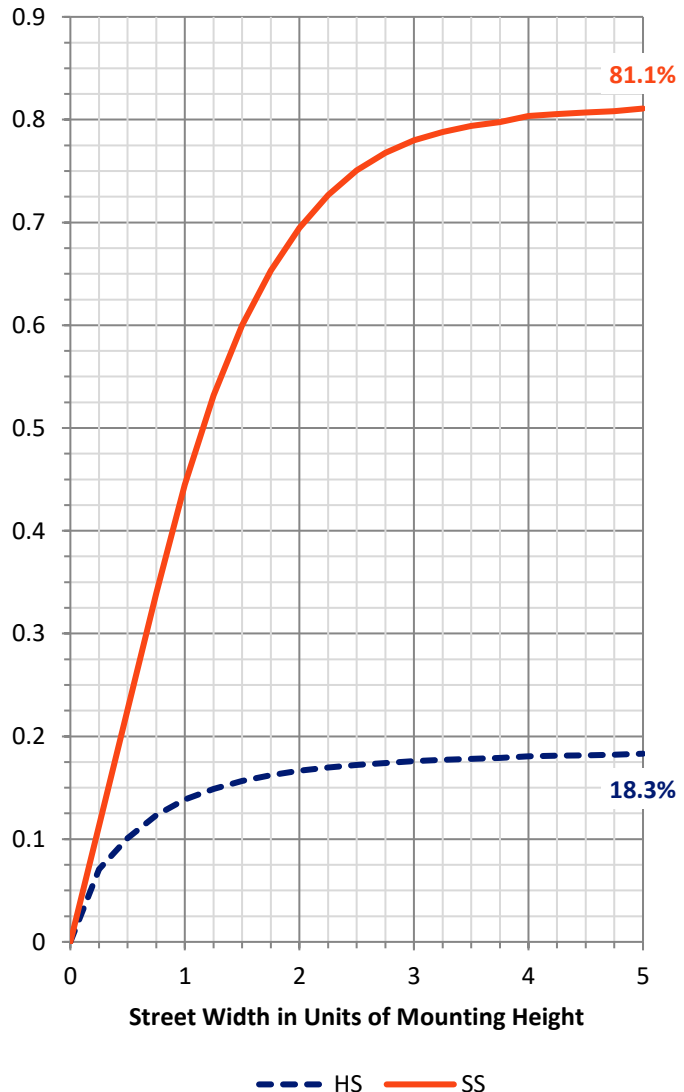
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7155.7	0.0	7155.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	31343.3	0.0	31343.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	38499.0	0.0	38499.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	614.4	1.6
10°-20°	1635.9	4.2
20°-30°	2697.2	7.0
30°-40°	3989.8	10.4
40°-50°	5568.9	14.5
50°-60°	7250.9	18.8
60°-70°	8911.2	23.1
70°-80°	6985.3	18.1
80°-90°	845.3	2.2
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°	38499.0	100.0
0°-180°	38499.0	100.0

Coefficient of Utilization

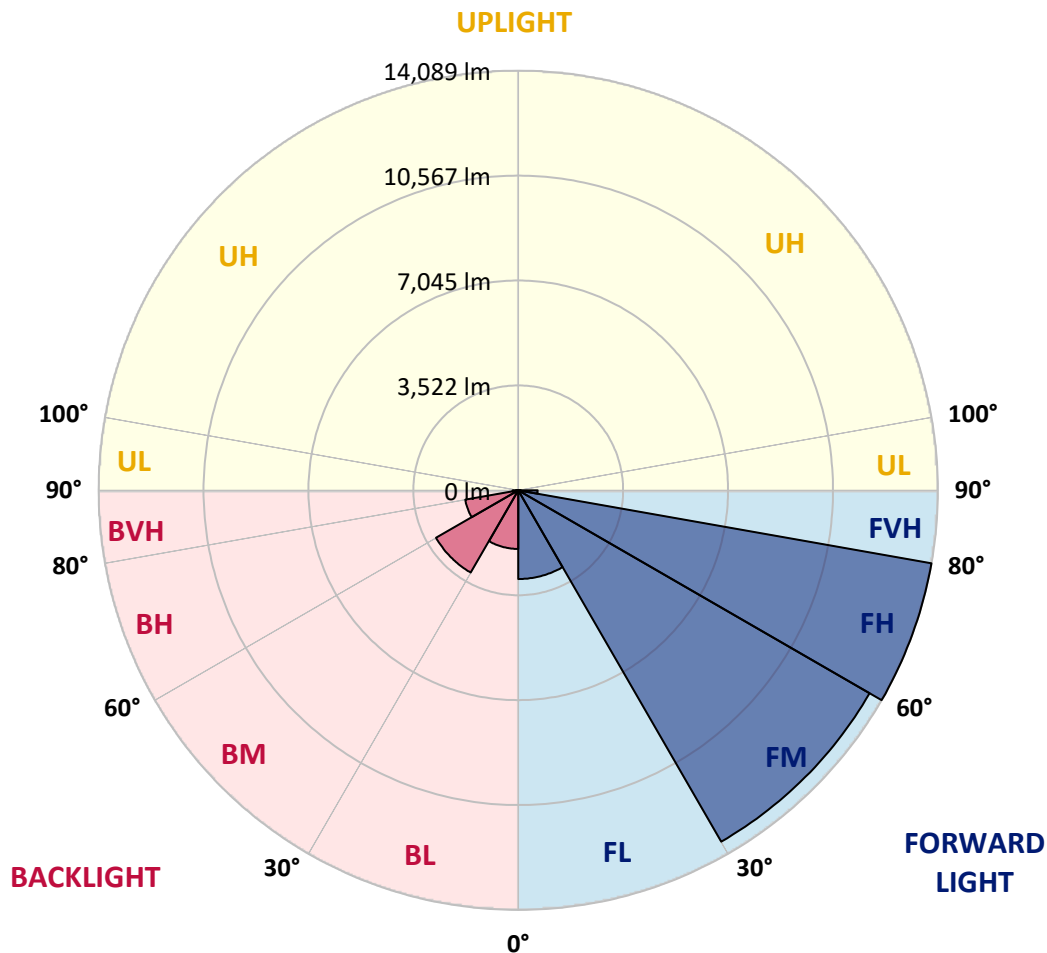


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2978.7	7.7			
FM (30°-60°)	13621.7	35.4			
FH (60°-80°)	14089.3	36.6			G5
FVH (80°-90°)	653.6	1.7			G4/750
BL (0°-30°)	1968.8	5.1	B3/2500		
BM (30°-60°)	3188.0	8.3	B3/5000		
BH (60°-80°)	1807.1	4.7	B3/2500		G3/2500
BVH (80°-90°)	191.8	0.5			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6790.4	6790.4	6790.4	6790.4	6790.4	6790.4	6790.4	6790.4	6790.4	6790.4	6790.4
2.5°	6569.4	6553.7	6573.3	6600.6	6630.5	6670.7	6694.2	6704.5	6744.9	6760.5	6794.3
5°	6265.0	6257.3	6289.7	6336.6	6402.9	6496.5	6572.0	6586.2	6692.9	6768.3	6837.2
7.5°	6044.0	6044.0	6081.7	6137.6	6211.7	6337.9	6444.5	6464.0	6644.7	6807.3	6934.7
10°	5868.5	5875.0	5919.1	5985.5	6072.6	6206.5	6348.3	6370.4	6631.8	6898.3	7101.2
12.5°	5751.4	5767.0	5807.4	5867.2	5975.0	6137.6	6317.1	6347.0	6659.1	7028.3	7301.5
15°	5825.5	5851.5	5855.4	5880.1	5940.0	6116.8	6335.3	6366.5	6717.6	7161.0	7529.0
17.5°	6150.6	6159.8	6119.4	6067.4	6038.8	6151.9	6389.9	6422.4	6787.8	7292.3	7747.4
20°	6644.7	6639.5	6552.4	6412.0	6266.3	6284.6	6479.7	6513.4	6882.7	7408.0	7965.9
22.5°	7269.0	7250.7	7116.7	6858.1	6609.6	6505.6	6637.0	6665.6	7025.7	7573.2	8199.9
25°	8025.7	7985.4	7808.6	7461.4	7096.0	6828.2	6873.6	6900.9	7233.8	7757.8	8414.5
27.5°	8824.2	8783.8	8558.9	8138.8	7652.5	7235.1	7200.0	7223.4	7470.5	7894.4	8573.1
30°	9658.9	9616.1	9410.6	8939.9	8242.9	7656.4	7504.3	7513.4	7636.9	7968.6	8703.2
32.5°	10497.7	10457.4	10227.2	9681.0	8884.0	8108.9	7724.0	7712.4	7737.1	8045.2	8850.2
35°	11348.1	11363.7	11094.5	10489.9	9593.9	8612.2	7984.1	7959.4	7904.8	8202.6	9058.2
37.5°	12258.3	12247.9	11899.4	11267.4	10336.5	9158.3	8357.3	8353.4	8164.8	8500.4	9384.6
40°	12866.9	12873.4	12661.4	12063.3	11086.7	9763.0	8835.8	8826.7	8579.6	8946.4	9812.4
42.5°	13104.8	13147.8	13202.4	12822.7	11872.1	10463.9	9406.7	9393.7	9158.3	9586.1	10315.6
45°	13121.8	13207.6	13545.7	13497.6	12667.9	11266.1	10136.2	10099.7	9930.8	10436.6	10916.3
47.5°	12976.1	13064.6	13626.3	13899.3	13379.3	12112.7	10989.2	10960.6	10815.0	11500.2	11566.6
50°	12657.6	12742.1	13459.8	14095.7	13964.4	12926.7	11972.2	11896.9	11818.8	12729.0	12310.3
52.5°	12060.7	12223.2	13237.5	14142.6	14314.2	13649.7	13006.1	12956.6	12999.6	14025.5	13055.5
55°	10647.2	10829.2	12664.0	14103.5	14572.9	14257.0	14039.8	14037.2	14259.6	15385.6	13855.2
57.5°	9855.3	9984.0	11496.3	14037.2	14879.8	14860.3	15063.2	15087.9	15520.9	16866.8	14692.6
60°	9408.0	9543.2	10904.7	13791.5	15355.7	15640.5	16107.4	16156.8	16803.1	18506.5	15700.4
62.5°	9001.0	9149.2	10537.9	13290.9	15916.2	16756.2	17358.3	17402.5	18160.6	20191.8	16674.3
65°	8305.3	8473.1	10000.9	12961.8	16426.0	18211.3	18948.6	18978.5	19719.7	21957.6	17419.4
67.5°	7322.2	7475.7	8987.9	12234.9	16803.1	19978.4	21062.9	21079.9	21265.8	23204.7	17800.4
70°	6174.0	6232.5	7544.6	10734.3	16357.0	21631.2	23380.2	23384.1	22675.4	24003.0	17738.0
72.5°	4337.9	4475.8	5477.0	8125.9	14056.7	21429.7	24583.0	24627.2	23330.8	23599.9	16320.6
75°	2660.5	2806.1	3435.5	4924.4	8917.8	16853.7	22713.1	23020.0	22101.9	21042.2	13332.4
77.5°	1778.9	1833.5	2241.8	2871.1	4040.1	9696.7	17462.3	18039.7	18360.9	15345.4	8526.4
80°	992.2	1096.2	1486.3	1784.1	1797.0	3852.9	10470.4	10605.6	10215.5	6110.3	2630.6
82.5°	525.3	582.6	992.2	1048.1	980.5	1289.9	3902.3	3906.3	3263.9	1638.4	781.5
85°	407.0	455.2	680.1	639.8	500.6	572.2	1287.3	1357.5	1110.5	671.0	254.9
87.5°	202.9	252.3	461.6	405.7	196.4	163.9	460.3	491.5	438.2	262.7	92.3
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°	6790.4	6790.4	6790.4	6790.4	6790.4	6790.4	6790.4	6790.4	6790.4	6790.4	6790.4
2.5°	6807.3	6819.0	6833.3	6817.7	6812.5	6791.7	6756.6	6748.8	6730.6	6731.9	6742.3
5°	6867.1	6886.7	6878.8	6819.0	6747.5	6647.3	6543.3	6454.9	6396.4	6392.5	6388.6
7.5°	6981.6	6994.5	6933.4	6763.1	6562.8	6331.4	6112.9	5921.8	5806.1	5777.5	5770.9
10°	7161.0	7158.4	6990.6	6647.3	6248.2	5834.7	5483.6	5218.3	5063.5	5018.1	5006.3
12.5°	7361.3	7331.4	7010.2	6436.7	5803.4	5230.0	4785.3	4490.1	4328.8	4276.8	4263.8
15°	7568.0	7493.8	6962.0	6122.0	5257.3	4578.6	4111.7	3838.6	3751.5	3722.9	3717.7
17.5°	7760.4	7617.5	6824.2	5695.5	4634.4	3929.6	3565.5	3456.3	3477.1	3514.8	3516.1
20°	7949.0	7700.6	6603.2	5157.1	3977.7	3395.2	3271.7	3352.3	3451.1	3527.9	3538.2
22.5°	8134.9	7759.1	6318.4	4535.6	3390.0	3094.8	3182.0	3328.9	3442.0	3525.3	3539.5
25°	8291.0	7773.5	5925.7	3872.4	2981.7	2981.7	3139.0	3278.2	3390.0	3471.9	3486.2
27.5°	8348.3	7677.3	5371.7	3258.6	2776.2	2929.7	3079.2	3194.9	3289.9	3377.0	3392.6
30°	8370.3	7499.1	4732.0	2765.9	2691.7	2873.7	2998.6	3097.4	3187.1	3269.1	3283.3
32.5°	8374.2	7284.5	4053.2	2486.3	2633.2	2815.2	2898.5	2985.6	3081.8	3114.3	3119.6
35°	8398.9	7030.9	3338.0	2343.2	2578.6	2760.6	2827.0	2889.4	2733.3	2745.0	2755.4
37.5°	8470.5	6780.0	2739.9	2262.6	2543.5	2732.0	2811.3	2585.0	2462.8	2434.2	2430.3
40°	8604.3	6512.1	2296.5	2197.6	2530.5	2746.3	2711.2	2413.5	2202.7	2045.4	2022.0
42.5°	8790.4	6223.5	2012.9	2154.7	2539.6	2815.2	2572.1	2248.3	1898.5	1797.0	1784.1
45°	8999.7	5920.5	1859.5	2124.8	2570.8	2868.5	2543.5	2028.5	1756.8	1680.0	1673.5
47.5°	9202.6	5549.9	1780.2	2111.7	2613.7	2825.7	2422.6	1960.9	1689.2	1648.8	1652.8
50°	9435.3	5215.6	1732.0	2097.5	2651.4	2798.4	2286.0	1925.8	1663.2	1712.6	1764.5
52.5°	9631.6	4869.8	1689.2	2068.9	2665.7	2750.2	2250.9	1932.3	1663.2	1758.1	1807.5
55°	9864.4	4608.5	1639.7	2009.1	2638.4	2613.7	2226.2	1971.3	1682.7	1622.8	1628.1
57.5°	10164.8	4522.6	1585.1	1915.4	2547.4	2414.8	2214.5	2009.1	1670.9	1633.2	1646.2
60°	10580.9	4613.6	1563.0	1793.1	2405.6	2258.7	2215.8	1989.5	1589.0	1524.0	1525.3
62.5°	10977.5	4715.0	1561.7	1716.5	2231.4	2119.6	2185.9	1925.8	1547.4	1509.7	1524.0
65°	11107.5	4612.3	1499.3	1630.7	2035.1	1953.1	2131.3	1858.2	1516.2	1459.0	1456.4
67.5°	10933.3	4293.7	1373.2	1491.5	1810.1	1759.3	2059.7	1777.6	1466.8	1420.0	1412.1
70°	10415.7	3582.5	1217.2	1308.2	1553.9	1540.9	1946.7	1684.0	1400.5	1360.2	1326.3
72.5°	9023.1	2552.5	1026.0	1088.4	1265.2	1306.9	1790.5	1561.7	1306.9	1219.8	1167.7
75°	7410.6	1889.4	842.6	855.6	961.0	1074.1	1576.0	1418.7	1196.3	1048.1	1007.7
77.5°	4538.2	1156.1	671.0	676.2	689.2	856.9	1297.7	1258.7	1055.9	873.8	845.2
80°	1469.4	630.7	485.1	509.7	470.7	628.0	1003.8	1071.5	906.3	730.8	699.6
82.5°	559.1	368.0	327.7	344.6	326.4	421.3	732.1	858.2	742.5	600.8	489.0
85°	270.4	208.0	193.8	217.1	201.6	215.8	468.1	632.0	563.0	391.4	364.1
87.5°	96.2	92.3	74.2	100.1	85.8	76.8	143.0	318.6	371.9	269.2	240.5
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)