

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: P383461

Luminaire Tested: **GAN-SA7C-735-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383461
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-SA7C-735-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47651.5 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

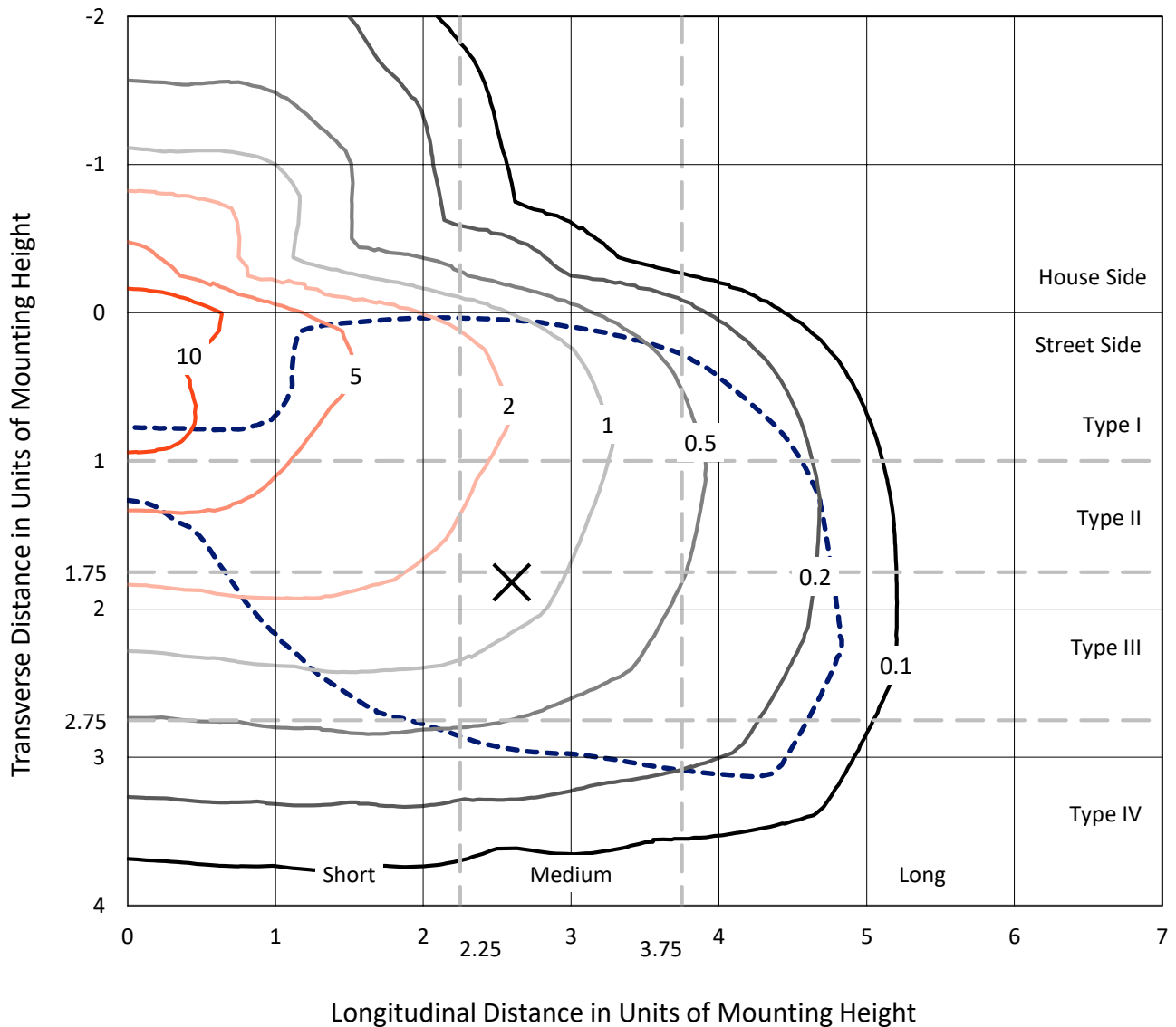
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

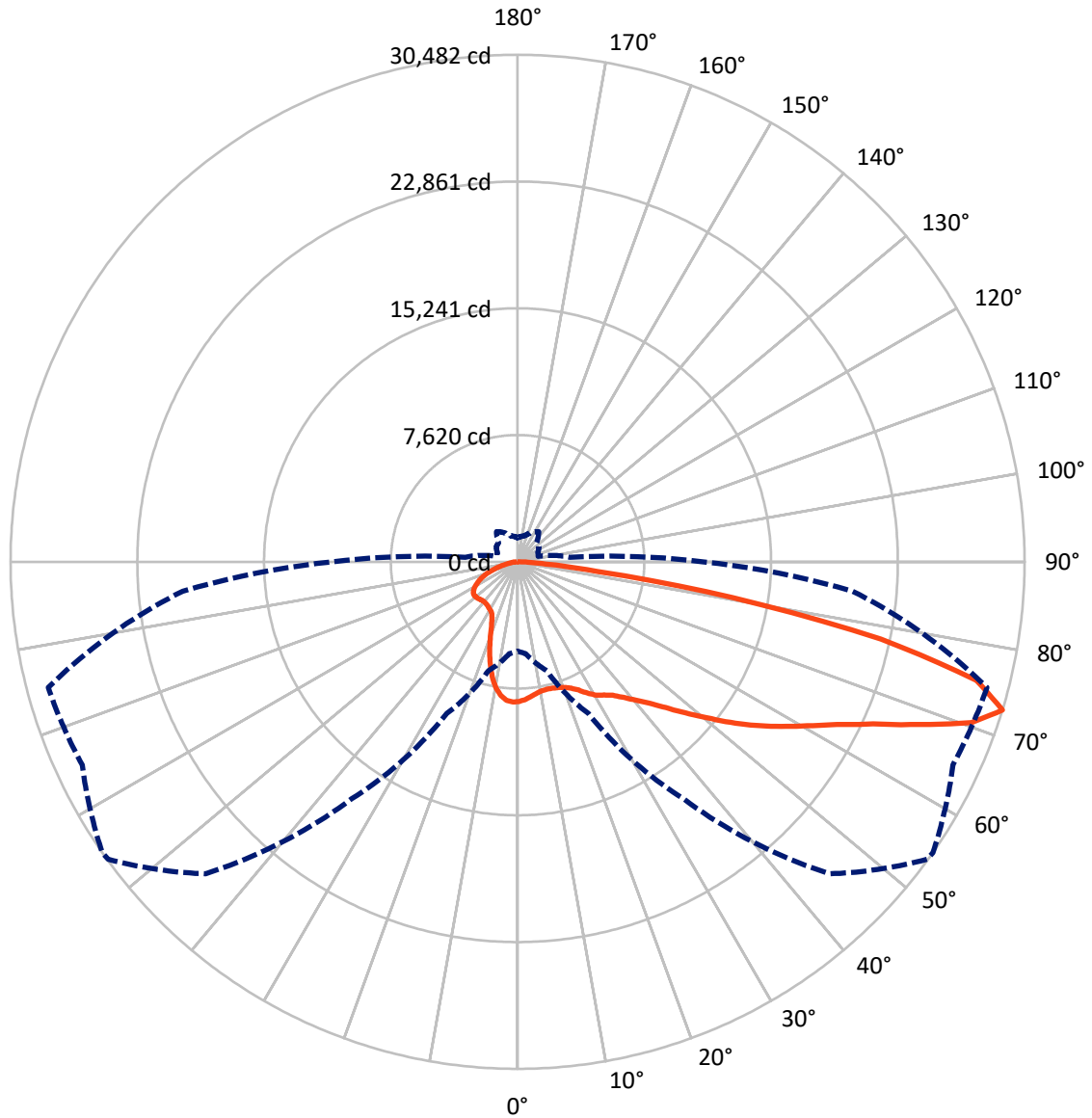
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 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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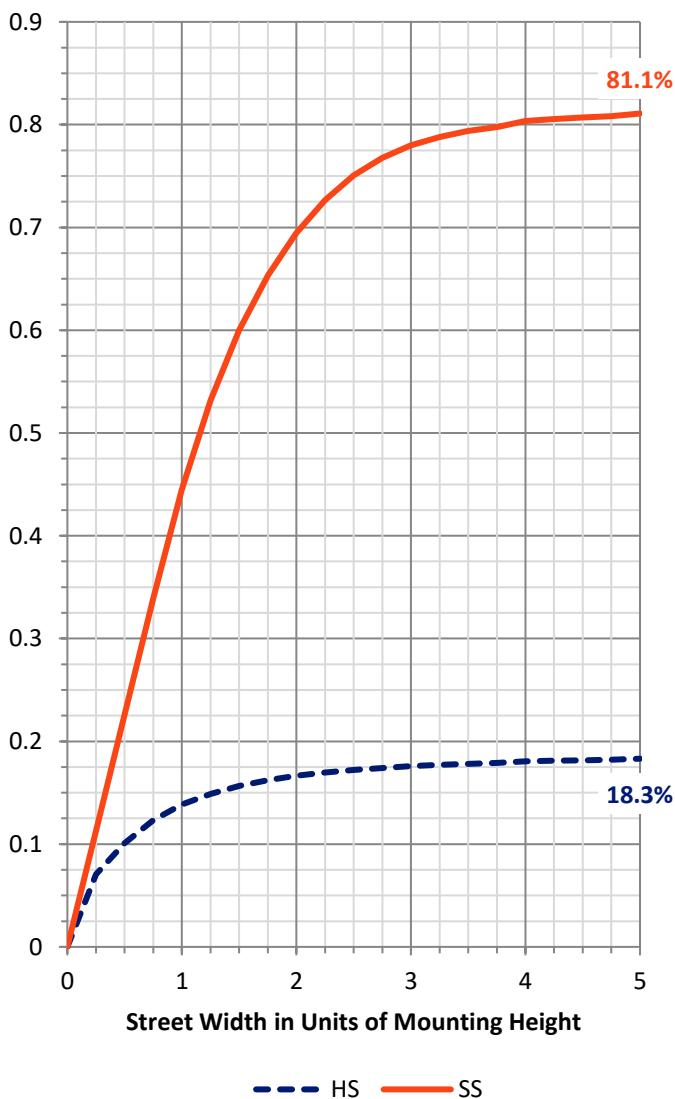
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8856.9	0.0	8856.9
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	38794.6	0.0	38794.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	47651.5	0.0	47651.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	760.5	1.6
10°-20°	2024.8	4.2
20°-30°	3338.4	7.0
30°-40°	4938.3	10.4
40°-50°	6892.9	14.5
50°-60°	8974.7	18.8
60°-70°	11029.7	23.1
70°-80°	8645.9	18.1
80°-90°	1046.3	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°	47651.5	100.0
0°-180°	47651.5	100.0

Coefficient of Utilization

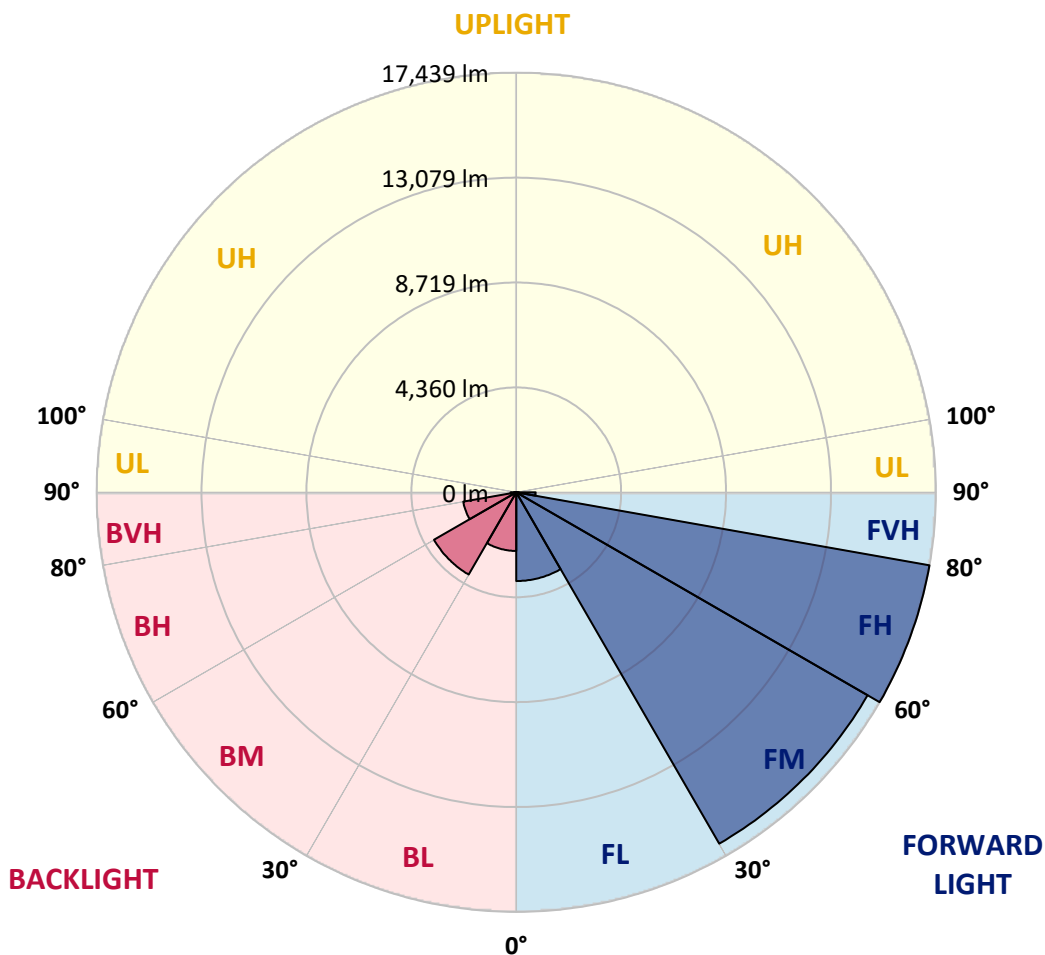


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3686.8	7.7			
FM (30°-60°)	16860.0	35.4			
FH (60°-80°)	17438.8	36.6			G5
FVH (80°-90°)	808.9	1.7			G5
BL (0°-30°)	2436.9	5.1	B3/2500		
BM (30°-60°)	3945.9	8.3	B3/5000		
BH (60°-80°)	2236.8	4.7	B3/2500		G3/2500
BVH (80°-90°)	237.3	0.5			G3/500
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°	8404.7	8404.7	8404.7	8404.7	8404.7	8404.7	8404.7	8404.7	8404.7	8404.7	8404.7
2.5°	8131.1	8111.7	8136.0	8169.7	8206.7	8256.6	8285.6	8298.5	8348.3	8367.7	8409.5
5°	7754.5	7744.8	7785.0	7843.0	7925.0	8040.9	8134.3	8152.0	8284.0	8377.3	8462.6
7.5°	7480.9	7480.9	7527.6	7596.8	7688.4	7844.6	7976.6	8000.7	8224.4	8425.6	8583.4
10°	7263.6	7271.7	7326.3	7408.4	7516.3	7682.0	7857.5	7884.8	8208.3	8538.3	8789.3
12.5°	7118.7	7138.1	7187.9	7262.0	7395.6	7596.8	7818.9	7855.8	8242.1	8699.3	9037.2
15°	7210.5	7242.7	7247.4	7278.1	7352.1	7571.0	7841.4	7880.0	8314.5	8863.4	9318.8
17.5°	7612.8	7624.1	7574.2	7509.9	7474.5	7614.5	7908.9	7949.2	8401.4	9026.0	9589.3
20°	8224.4	8218.0	8110.1	7936.3	7756.1	7778.6	8020.1	8061.9	8519.0	9169.2	9859.7
22.5°	8997.0	8974.4	8808.7	8488.4	8180.9	8052.2	8214.8	8250.2	8696.0	9373.6	10149.4
25°	9933.7	9883.8	9664.9	9235.2	8782.9	8451.4	8507.7	8541.5	8953.5	9602.1	10414.9
27.5°	10921.9	10872.0	10593.6	10073.8	9471.8	8955.2	8911.7	8940.6	9246.4	9771.1	10611.3
30°	11955.2	11902.1	11647.8	11065.2	10202.5	9476.6	9288.3	9299.5	9452.5	9862.9	10772.2
32.5°	12993.3	12943.4	12658.5	11982.6	10996.0	10036.7	9560.3	9545.8	9576.4	9957.9	10954.1
35°	14045.9	14065.3	13732.0	12983.6	11874.7	10659.6	9882.2	9851.6	9784.0	10152.6	11211.6
37.5°	15172.6	15159.6	14728.3	13946.1	12793.8	11335.5	10344.1	10339.2	10105.9	10521.2	11615.6
40°	15925.7	15933.8	15671.5	14931.1	13722.4	12083.9	10936.4	10925.1	10619.4	11073.2	12145.1
42.5°	16220.3	16273.4	16341.0	15871.1	14694.5	12951.5	11642.9	11626.8	11335.5	11865.0	12768.0
45°	16241.3	16347.4	16765.9	16706.4	15679.5	13944.5	12545.9	12500.8	12291.6	12917.7	13511.5
47.5°	16061.0	16170.5	16865.7	17203.7	16559.9	14992.3	13601.7	13566.3	13386.1	14234.2	14316.3
50°	15666.7	15771.3	16659.7	17446.8	17284.2	15999.8	14818.5	14725.1	14628.6	15755.2	15237.0
52.5°	14927.9	15129.1	16384.5	17504.7	17717.1	16894.6	16098.0	16036.9	16090.0	17359.9	16159.2
55°	13178.4	13403.8	15674.7	17456.4	18037.4	17646.3	17377.6	17374.3	17649.6	19043.3	17149.0
57.5°	12198.2	12357.5	14229.4	17374.3	18417.3	18393.1	18644.2	18674.7	19210.7	20876.5	18185.5
60°	11644.5	11811.9	13497.1	17070.1	19006.4	19358.8	19936.6	19997.7	20797.6	22906.1	19432.8
62.5°	11140.8	11324.3	13043.3	16450.5	19700.0	20739.7	21484.9	21539.6	22478.0	24991.9	20638.3
65°	10279.7	10487.4	12378.5	16043.3	20330.9	22540.8	23453.3	23490.4	24407.8	27177.6	21560.6
67.5°	9062.9	9252.9	11124.7	15143.6	20797.6	24728.0	26070.3	26091.3	26321.4	28721.1	22032.1
70°	7641.8	7714.2	9338.2	13286.2	20245.6	26773.7	28938.4	28943.3	28066.0	29709.4	21954.9
72.5°	5369.3	5539.8	6779.2	10057.6	17398.4	26524.2	30427.1	30481.9	28877.2	29210.4	20200.5
75°	3293.0	3473.3	4252.2	6095.1	11037.8	20860.4	28112.7	28492.6	27356.3	26044.6	16502.0
77.5°	2201.8	2269.3	2774.7	3553.8	5000.6	12001.9	21613.7	22328.3	22725.8	18993.4	10553.3
80°	1228.1	1356.8	1839.6	2208.2	2224.3	4768.9	12959.5	13126.9	12644.1	7563.0	3255.9
82.5°	650.2	721.0	1228.1	1297.3	1213.5	1596.6	4830.1	4834.8	4039.7	2028.0	967.3
85°	503.8	563.3	841.7	791.9	619.7	708.2	1593.4	1680.3	1374.5	830.5	315.4
87.5°	251.1	312.3	571.3	502.2	243.0	202.8	569.7	608.4	542.4	325.1	114.3
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°	8404.7	8404.7	8404.7	8404.7	8404.7	8404.7	8404.7	8404.7	8404.7	8404.7	8404.7
2.5°	8425.6	8440.1	8457.8	8438.5	8432.1	8406.3	8362.9	8353.2	8330.6	8332.2	8345.2
5°	8499.6	8523.8	8514.2	8440.1	8351.6	8227.6	8098.9	7989.4	7917.0	7912.2	7907.3
7.5°	8641.3	8657.3	8581.7	8370.9	8123.0	7836.6	7566.1	7329.6	7186.3	7150.9	7142.8
10°	8863.4	8860.1	8652.6	8227.6	7733.5	7221.7	6787.2	6458.8	6267.3	6211.0	6196.5
12.5°	9111.3	9074.2	8676.7	7966.9	7183.1	6473.3	5922.9	5557.5	5358.0	5293.6	5277.5
15°	9367.2	9275.4	8617.2	7577.4	6507.1	5667.0	5089.1	4751.2	4643.3	4607.9	4601.5
17.5°	9605.4	9428.3	8446.5	7049.5	5736.2	4863.8	4413.2	4277.9	4303.7	4350.4	4352.0
20°	9838.7	9531.3	8172.9	6383.2	4923.4	4202.3	4049.4	4149.2	4271.5	4366.5	4379.4
22.5°	10068.9	9603.8	7820.4	5613.9	4195.9	3830.5	3938.4	4120.2	4260.2	4363.3	4381.0
25°	10262.0	9621.5	7334.4	4793.0	3690.5	3690.5	3885.3	4057.4	4195.9	4297.3	4315.0
27.5°	10332.8	9502.3	6648.7	4033.3	3436.2	3626.1	3811.2	3954.5	4072.0	4179.9	4199.1
30°	10360.2	9281.8	5856.9	3423.3	3331.6	3556.9	3711.5	3833.8	3944.8	4046.3	4064.0
32.5°	10365.1	9016.3	5016.8	3077.3	3259.2	3484.5	3587.5	3695.4	3814.5	3854.7	3861.2
35°	10395.6	8702.4	4131.5	2900.3	3191.6	3416.9	3499.0	3576.3	3383.1	3397.6	3410.5
37.5°	10484.1	8391.8	3391.2	2800.5	3148.2	3381.5	3479.7	3199.7	3048.4	3012.9	3008.2
40°	10649.9	8060.3	2842.3	2720.0	3132.0	3399.2	3355.8	2987.2	2726.5	2531.7	2502.7
42.5°	10880.1	7703.0	2491.5	2666.9	3143.3	3484.5	3183.6	2782.8	2349.8	2224.3	2208.2
45°	11139.2	7327.9	2301.6	2629.9	3182.0	3550.5	3148.2	2510.8	2174.4	2079.4	2071.4
47.5°	11390.3	6869.2	2203.4	2613.8	3235.1	3497.4	2998.5	2427.1	2090.7	2040.8	2045.7
50°	11678.3	6455.6	2143.9	2596.1	3281.7	3463.6	2829.5	2383.6	2058.5	2119.6	2184.1
52.5°	11921.4	6027.5	2090.7	2560.6	3299.4	3404.1	2786.0	2391.7	2058.5	2176.0	2237.2
55°	12209.5	5704.0	2029.6	2486.7	3265.6	3235.1	2755.4	2440.0	2082.7	2008.6	2015.0
57.5°	12581.3	5597.8	1961.9	2370.8	3153.0	2988.8	2741.0	2486.7	2068.2	2021.5	2037.6
60°	13096.3	5710.4	1934.6	2219.5	2977.5	2795.7	2742.6	2462.5	1966.8	1886.3	1887.9
62.5°	13587.2	5836.0	1933.0	2124.5	2761.9	2623.4	2705.5	2383.6	1915.3	1868.6	1886.3
65°	13748.2	5708.8	1855.7	2018.3	2518.8	2417.5	2638.0	2299.9	1876.7	1805.8	1802.6
67.5°	13532.5	5314.5	1699.6	1846.0	2240.4	2177.6	2549.4	2200.1	1815.5	1757.6	1747.9
70°	12891.9	4434.1	1506.5	1619.1	1923.4	1907.3	2409.4	2084.2	1733.4	1683.5	1641.7
72.5°	11168.1	3159.4	1269.9	1347.1	1566.0	1617.5	2216.2	1933.0	1617.5	1509.7	1445.3
75°	9172.4	2338.6	1043.0	1059.1	1189.4	1329.4	1950.7	1756.0	1480.7	1297.3	1247.3
77.5°	5617.0	1430.9	830.5	836.9	853.0	1060.7	1606.3	1558.0	1306.9	1081.5	1046.1
80°	1818.8	780.6	600.3	630.9	582.6	777.4	1242.5	1326.2	1121.8	904.5	865.9
82.5°	692.0	455.5	405.6	426.6	404.0	521.5	906.1	1062.2	919.0	743.6	605.1
85°	334.8	257.5	239.8	268.8	249.5	267.2	579.4	782.2	696.9	484.5	450.7
87.5°	119.1	114.3	91.8	123.9	106.2	94.9	177.1	394.3	460.3	333.1	297.7
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)