

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: P383657

Luminaire Tested: **GAN-SA9B-735-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383657
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-SA9B-735-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 48659.4 lumens
Efficiency: N/A
Efficacy: 130.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

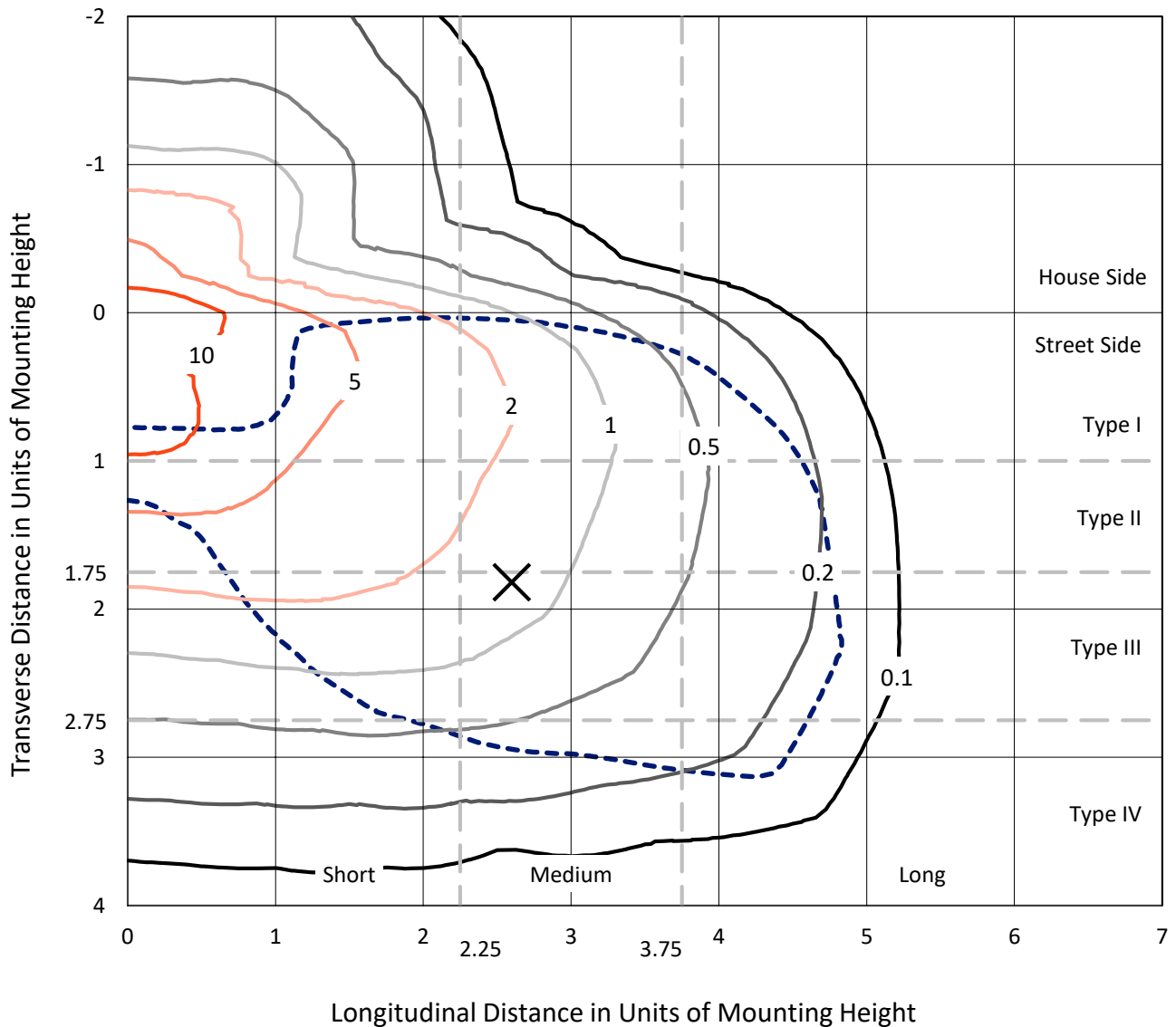
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

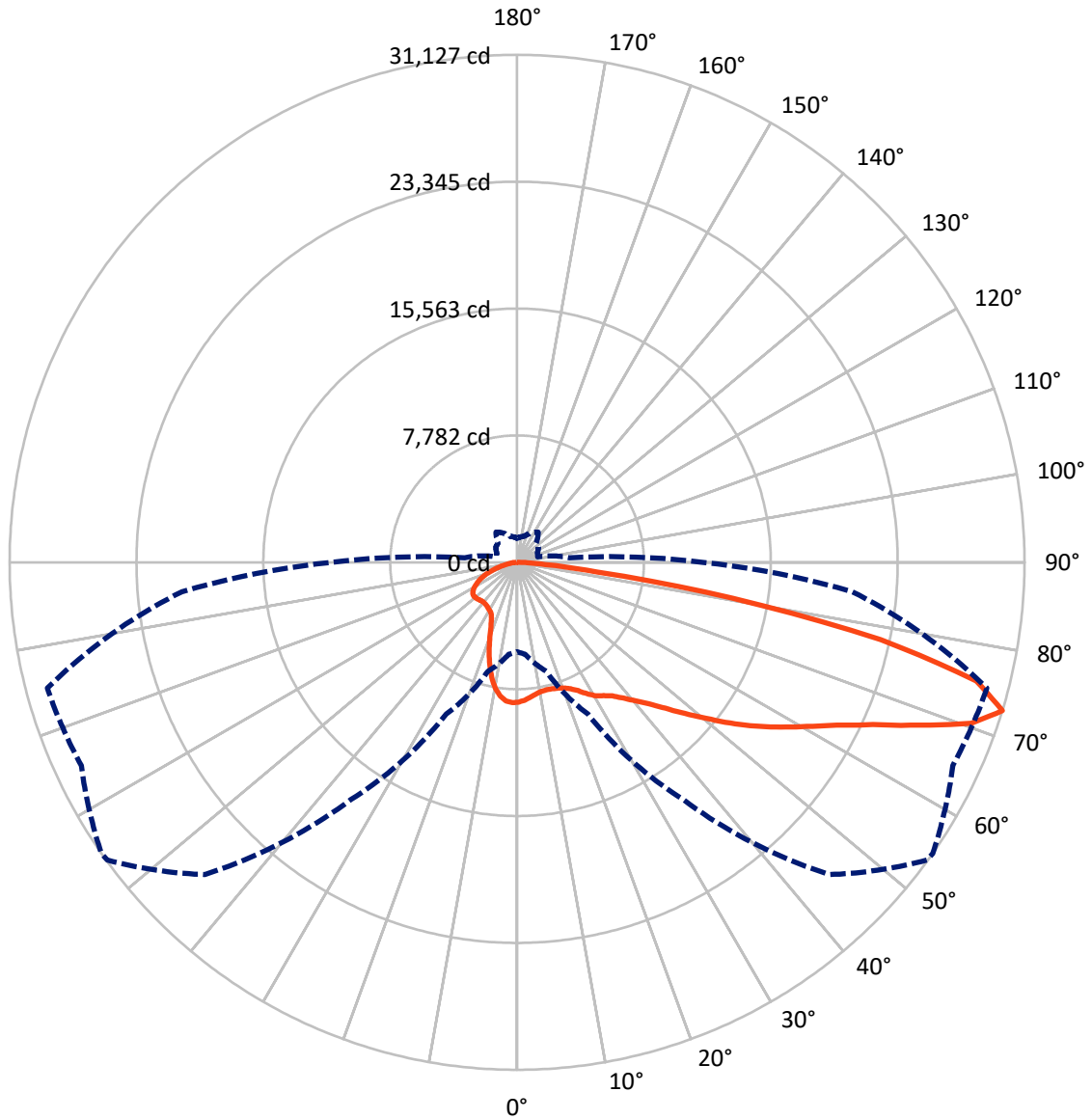
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 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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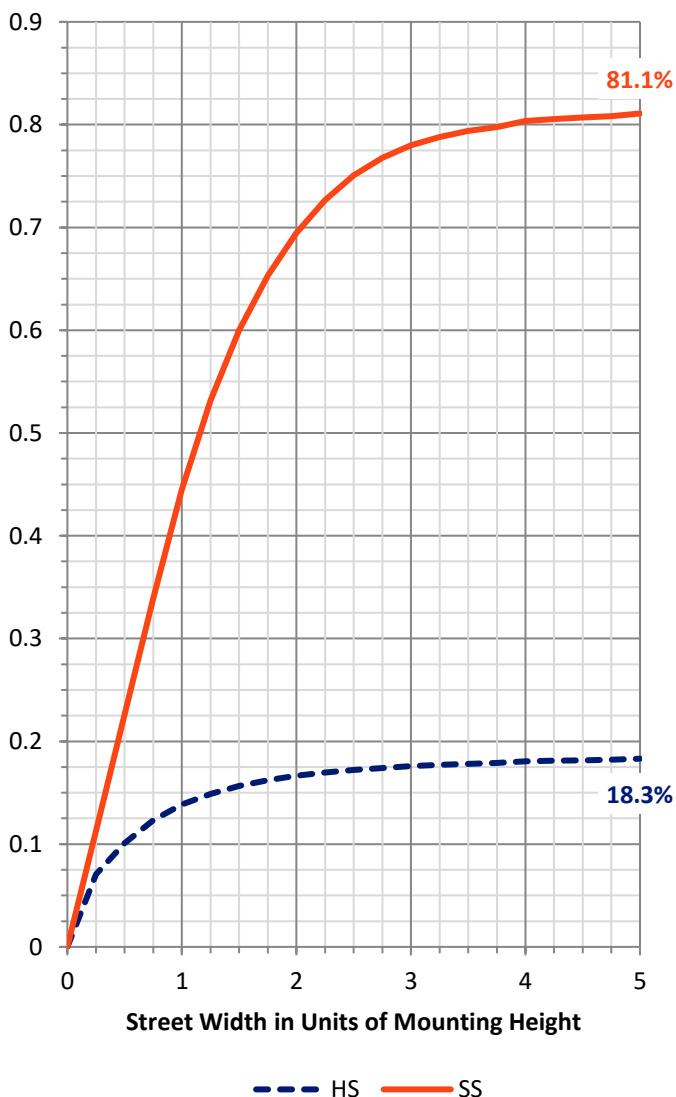
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9044.2	0.0	9044.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	39615.2	0.0	39615.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	48659.4	0.0	48659.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	776.6	1.6
10°-20°	2067.6	4.2
20°-30°	3409.0	7.0
30°-40°	5042.8	10.4
40°-50°	7038.7	14.5
50°-60°	9164.5	18.8
60°-70°	11263.0	23.1
70°-80°	8828.8	18.1
80°-90°	1068.4	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°	48659.4	100.0
0°-180°	48659.4	100.0

Coefficient of Utilization

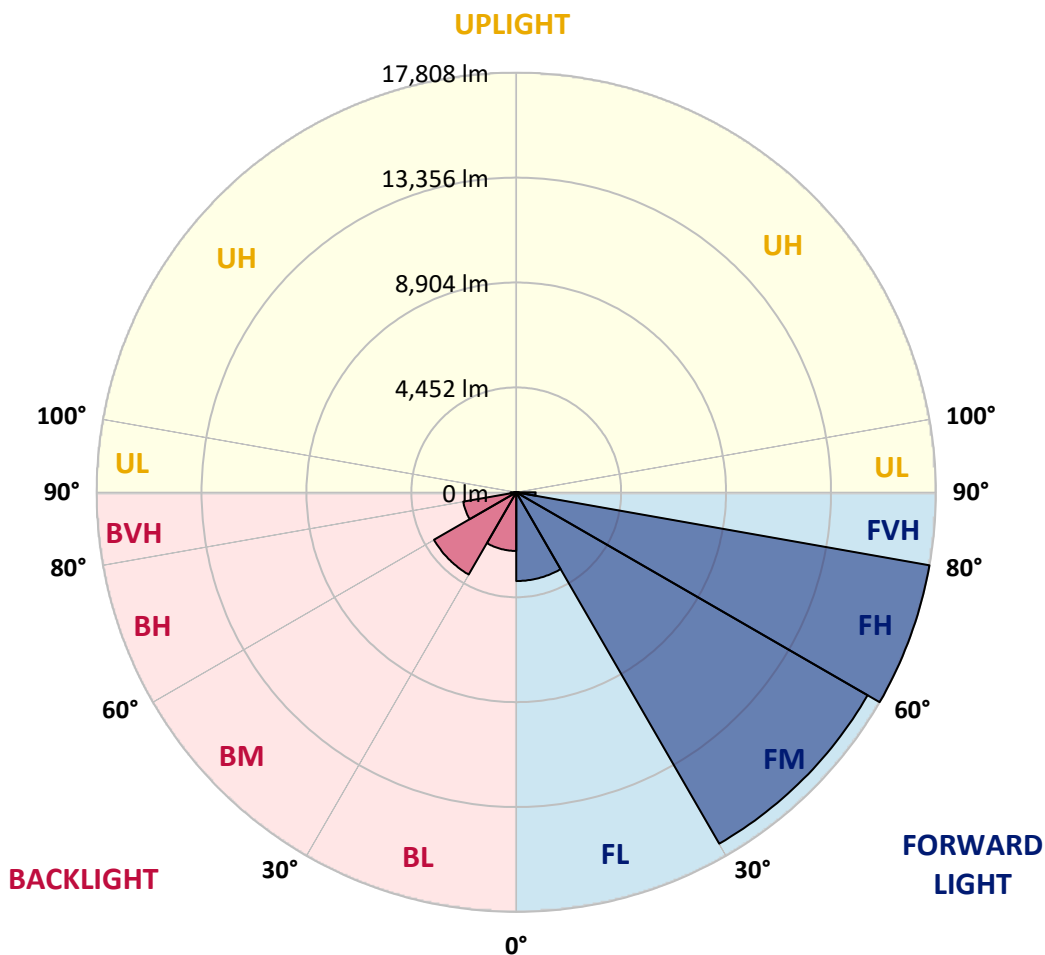


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3764.8	7.7			
FM (30°-60°)	17216.6	35.4			
FH (60°-80°)	17807.7	36.6			G5
FVH (80°-90°)	826.0	1.7			G5
BL (0°-30°)	2488.4	5.1	B3/2500		
BM (30°-60°)	4029.3	8.3	B3/5000		
BH (60°-80°)	2284.1	4.7	B3/2500		G3/2500
BVH (80°-90°)	242.4	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°	8582.4	8582.4	8582.4	8582.4	8582.4	8582.4	8582.4	8582.4	8582.4	8582.4	8582.4
2.5°	8303.1	8283.3	8308.0	8342.5	8380.3	8431.3	8460.9	8474.0	8525.0	8544.7	8587.4
5°	7918.5	7908.7	7949.7	8008.9	8092.7	8211.0	8306.3	8324.4	8459.2	8554.5	8641.6
7.5°	7639.1	7639.1	7686.8	7757.5	7851.1	8010.6	8145.3	8170.0	8398.4	8603.9	8764.9
10°	7417.2	7425.5	7481.4	7565.1	7675.2	7844.6	8023.7	8051.6	8382.0	8718.9	8975.3
12.5°	7269.3	7289.0	7339.9	7415.6	7552.0	7757.5	7984.2	8022.0	8416.4	8883.2	9228.4
15°	7363.0	7395.8	7400.8	7432.0	7507.6	7731.1	8007.2	8046.7	8490.4	9050.9	9515.9
17.5°	7773.9	7785.3	7734.5	7668.7	7632.5	7775.5	8076.2	8117.3	8579.2	9216.8	9792.1
20°	8398.4	8391.8	8281.7	8104.2	7920.1	7943.1	8189.7	8232.4	8699.2	9363.2	10068.2
22.5°	9187.3	9164.3	8995.0	8668.0	8354.0	8222.6	8388.5	8424.7	8880.0	9571.8	10364.0
25°	10143.8	10092.9	9869.4	9430.5	8968.7	8630.1	8687.6	8722.2	9143.0	9805.3	10635.2
27.5°	11153.0	11102.0	10817.7	10286.8	9672.2	9144.5	9100.2	9129.7	9442.1	9977.8	10835.8
30°	12208.1	12153.8	11894.2	11299.2	10418.2	9677.0	9484.7	9496.3	9652.4	10071.5	11000.1
32.5°	13268.1	13217.2	12926.3	12236.1	11228.5	10249.0	9762.5	9747.7	9778.9	10168.5	11185.8
35°	14343.0	14362.7	14022.5	13258.3	12125.9	10885.0	10091.2	10060.0	9990.9	10367.4	11448.8
37.5°	15493.5	15480.4	15039.8	14241.1	13064.4	11575.3	10562.9	10558.0	10319.7	10743.7	11861.3
40°	16262.7	16270.9	16003.0	15246.9	14012.6	12339.6	11167.8	11156.2	10844.0	11307.4	12402.0
42.5°	16563.4	16617.7	16686.7	16206.8	15005.4	13225.5	11889.2	11872.8	11575.3	12116.1	13038.0
45°	16584.8	16693.2	17120.5	17059.7	16011.2	14239.5	12811.3	12765.3	12551.6	13190.9	13797.3
47.5°	16400.7	16512.4	17222.5	17567.6	16910.2	15309.4	13889.4	13853.2	13669.2	14535.3	14619.1
50°	15998.0	16104.9	17012.1	17815.8	17649.8	16338.2	15131.9	15036.6	14937.9	16088.4	15559.2
52.5°	15243.7	15449.1	16731.1	17874.9	18091.9	17252.1	16438.5	16376.0	16430.3	17727.0	16501.0
55°	13457.1	13687.2	16006.2	17825.6	18418.9	18019.6	17745.1	17741.8	18022.8	19446.1	17511.7
57.5°	12456.3	12618.9	14530.4	17741.8	18806.8	18782.1	19038.6	19069.8	19617.1	21318.1	18570.1
60°	11890.8	12061.8	13782.5	17431.2	19408.3	19768.3	20358.3	20420.7	21237.6	23390.6	19843.9
62.5°	11376.4	11563.9	13319.1	16798.4	20116.7	21178.5	21939.3	21995.2	22953.4	25520.6	21074.9
65°	10497.1	10709.2	12640.4	16382.7	20760.9	23017.5	23949.4	23987.2	24924.0	27752.5	22016.6
67.5°	9254.6	9448.6	11360.0	15463.9	21237.6	25251.1	26621.8	26643.1	26878.1	29328.7	22498.2
70°	7803.5	7877.4	9535.7	13567.2	20673.8	27340.0	29550.6	29555.5	28659.7	30337.8	22419.3
72.5°	5482.8	5657.0	6922.5	10270.4	17766.5	27085.2	31070.7	31126.6	29488.0	29828.2	20627.8
75°	3362.6	3546.7	4342.2	6224.0	11271.3	21301.7	28707.4	29095.3	27935.0	26595.5	16851.0
77.5°	2248.4	2317.4	2833.4	3628.9	5106.5	12255.7	22070.9	22800.6	23206.5	19395.2	10776.6
80°	1254.0	1385.5	1878.6	2254.9	2271.4	4869.8	13233.7	13404.6	12911.5	7722.9	3324.9
82.5°	664.0	736.3	1254.0	1324.7	1239.2	1630.4	4932.2	4937.1	4125.3	2070.8	987.7
85°	514.4	575.2	859.5	808.6	632.8	723.2	1627.0	1715.8	1403.6	848.1	322.1
87.5°	256.4	318.9	583.4	512.8	248.2	207.1	581.8	621.2	553.9	332.0	116.7
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°	8582.4	8582.4	8582.4	8582.4	8582.4	8582.4	8582.4	8582.4	8582.4	8582.4	8582.4
2.5°	8603.9	8618.6	8636.8	8617.0	8610.4	8584.1	8539.8	8529.9	8506.9	8508.5	8521.7
5°	8679.4	8704.1	8694.2	8618.6	8528.2	8401.7	8270.2	8158.4	8084.4	8079.6	8074.7
7.5°	8824.1	8840.5	8763.3	8548.0	8294.9	8002.3	7726.2	7484.6	7338.4	7302.1	7293.9
10°	9050.9	9047.6	8835.5	8401.7	7897.1	7374.5	6930.7	6595.5	6399.9	6342.3	6327.5
12.5°	9304.0	9266.2	8860.2	8135.4	7335.0	6610.3	6048.2	5675.1	5471.3	5405.6	5389.1
15°	9565.3	9471.6	8799.4	7737.7	6644.7	5786.9	5196.8	4851.7	4741.6	4705.4	4698.8
17.5°	9808.5	9627.7	8625.2	7198.6	5857.5	4966.7	4506.5	4368.5	4394.8	4442.5	4444.0
20°	10046.8	9732.9	8345.8	6518.2	5027.6	4291.3	4135.1	4237.0	4361.9	4458.9	4472.0
22.5°	10281.9	9806.9	7985.9	5732.6	4284.7	3911.6	4021.7	4207.4	4350.4	4455.6	4473.7
25°	10479.1	9824.9	7489.5	4894.4	3768.6	3768.6	3967.5	4143.3	4284.7	4388.2	4406.3
27.5°	10551.5	9703.4	6789.4	4118.7	3509.0	3702.8	3891.8	4038.2	4158.1	4268.3	4287.9
30°	10579.3	9478.2	5980.8	3495.7	3402.1	3632.2	3790.0	3914.8	4028.3	4131.8	4149.9
32.5°	10584.2	9207.0	5122.9	3142.4	3328.1	3558.2	3663.4	3773.5	3895.2	3936.3	3942.8
35°	10615.5	8886.5	4218.9	2961.7	3259.1	3489.2	3573.0	3651.9	3454.6	3469.5	3482.6
37.5°	10705.9	8569.3	3462.9	2859.8	3214.8	3453.1	3553.3	3267.3	3112.9	3076.7	3071.8
40°	10875.2	8230.8	2902.4	2777.6	3198.3	3471.1	3426.7	3050.4	2784.1	2585.2	2555.7
42.5°	11110.2	7865.9	2544.1	2723.3	3209.8	3558.2	3250.9	2841.7	2399.6	2271.4	2254.9
45°	11374.8	7482.9	2350.2	2685.6	3249.2	3625.6	3214.8	2563.9	2220.4	2123.5	2115.2
47.5°	11631.2	7014.6	2250.0	2669.1	3303.5	3571.4	3061.9	2478.5	2134.9	2084.0	2088.9
50°	11925.4	6592.2	2189.1	2651.0	3351.1	3536.9	2889.3	2434.0	2102.0	2164.5	2230.2
52.5°	12173.6	6155.0	2134.9	2614.9	3369.2	3476.1	2844.9	2442.2	2102.0	2222.0	2284.5
55°	12467.7	5824.6	2072.5	2539.2	3334.7	3303.5	2813.7	2491.6	2126.7	2051.1	2057.7
57.5°	12847.4	5716.2	2003.5	2420.9	3219.6	3052.0	2798.9	2539.2	2111.9	2064.3	2080.7
60°	13373.3	5831.2	1975.5	2266.5	3040.5	2854.8	2800.6	2514.6	2008.4	1926.2	1927.8
62.5°	13874.6	5959.4	1973.9	2169.5	2820.3	2678.9	2762.8	2434.0	1955.8	1908.1	1926.2
65°	14039.0	5829.5	1895.0	2061.0	2572.1	2468.6	2693.8	2348.6	1916.4	1844.0	1840.7
67.5°	13818.8	5426.9	1735.6	1885.1	2287.8	2223.7	2603.3	2246.7	1853.9	1794.7	1784.8
70°	13164.6	4527.9	1538.4	1653.4	1964.0	1947.6	2460.3	2128.4	1770.0	1719.1	1676.4
72.5°	11404.4	3226.2	1296.7	1375.6	1599.2	1651.7	2263.1	1973.9	1651.7	1541.6	1475.9
75°	9366.4	2388.0	1065.0	1081.4	1214.6	1357.5	1991.9	1793.0	1512.0	1324.7	1273.7
77.5°	5735.9	1461.1	848.1	854.6	871.1	1083.1	1640.3	1590.9	1334.5	1104.4	1068.3
80°	1857.1	797.1	613.1	644.3	595.0	793.9	1268.8	1354.3	1145.5	923.6	884.2
82.5°	706.7	465.1	414.2	435.5	412.5	532.5	925.3	1084.7	938.4	759.3	618.0
85°	341.9	263.0	244.9	274.4	254.8	272.9	591.6	798.7	711.6	494.7	460.2
87.5°	121.7	116.7	93.7	126.6	108.4	97.0	180.8	402.7	470.1	340.2	304.1
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)