

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: P318682

Luminaire Tested: **GAN-SA8B-730-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318682
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8B-730-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41959 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

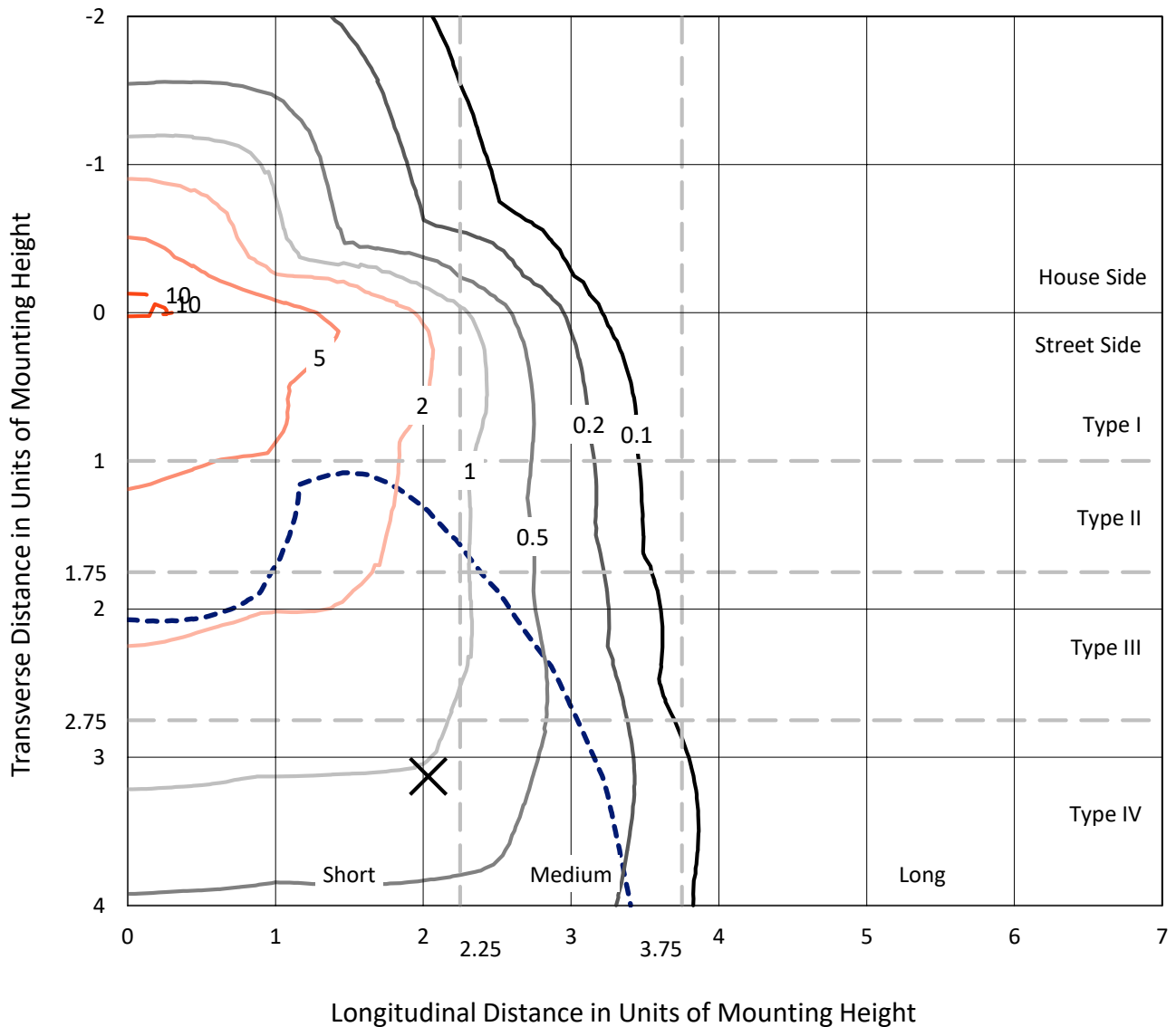
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

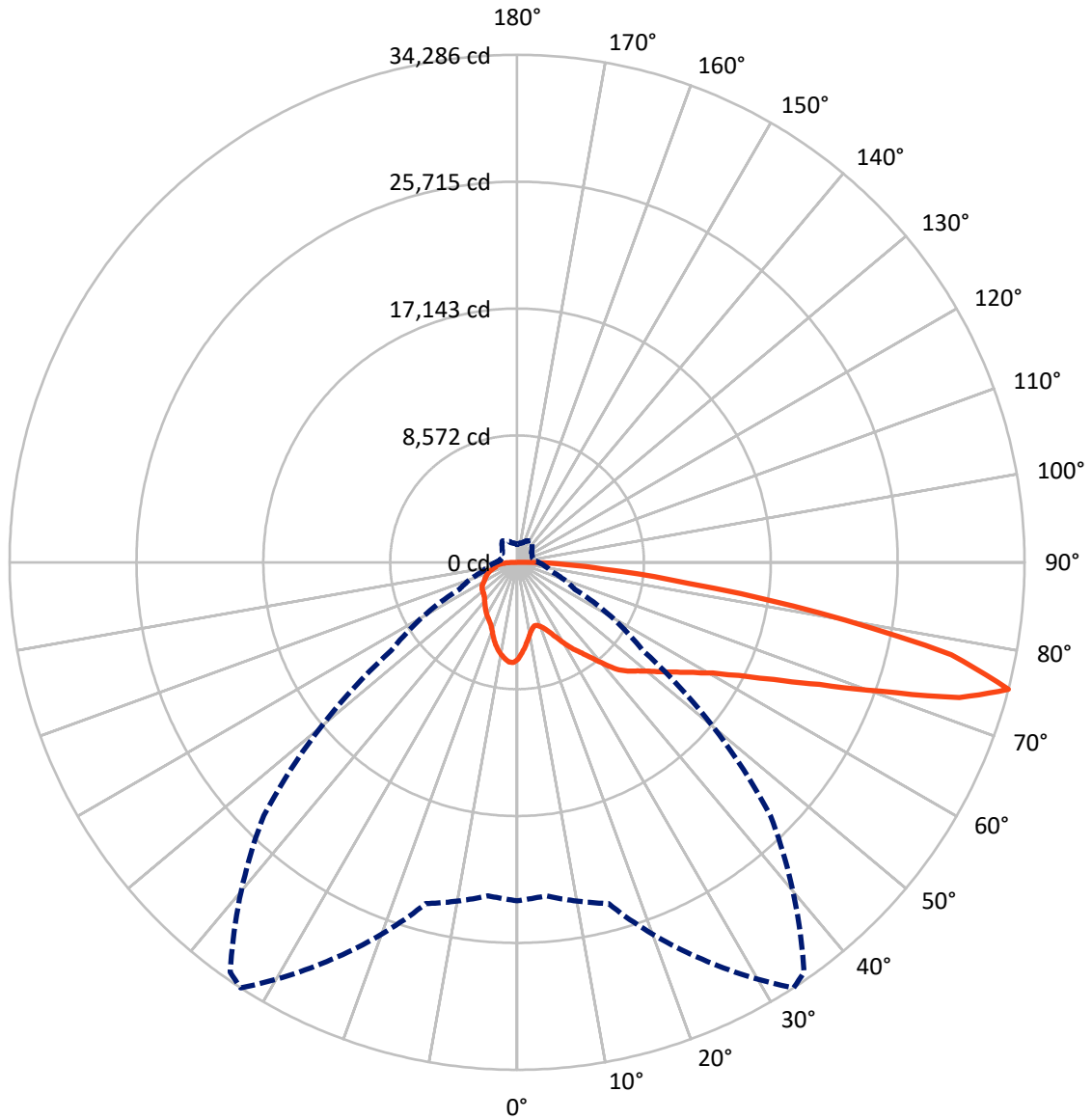
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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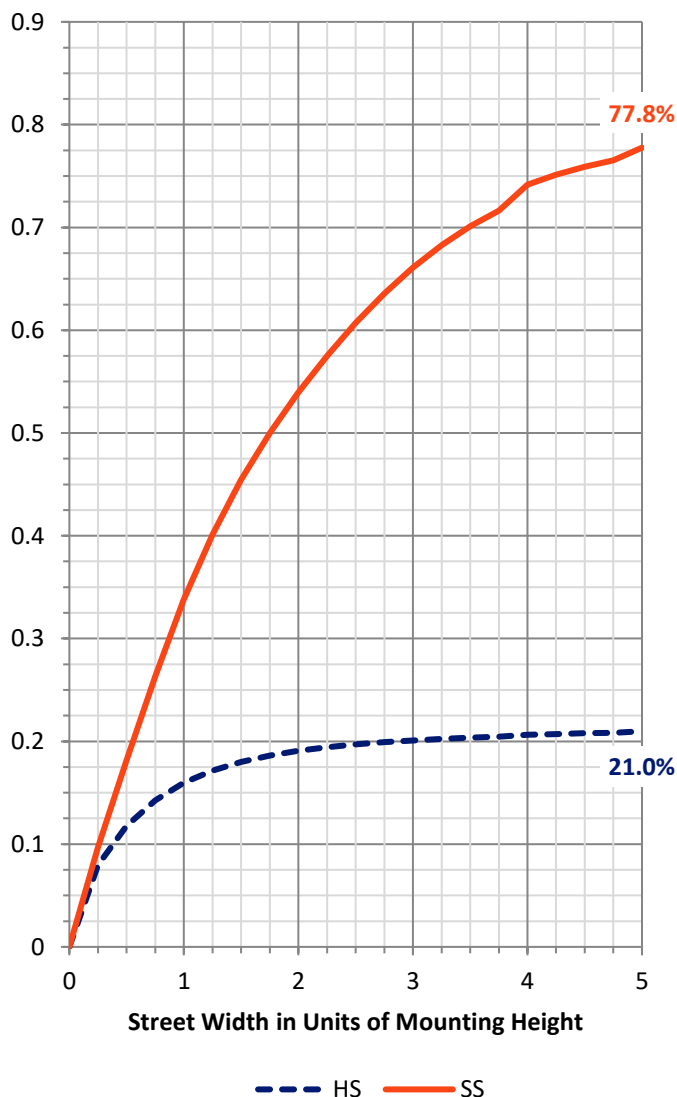
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9009.7	0.0	9009.7
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	32949.3	0.0	32949.3
	% Fixture	78.5	0.0	78.5
Total	Lumens	41959.0	0.0	41959.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	593.1	1.4
10°-20°	1606.4	3.8
20°-30°	2623.6	6.3
30°-40°	3907.1	9.3
40°-50°	5603.8	13.4
50°-60°	7693.2	18.3
60°-70°	9631.5	23.0
70°-80°	8713.2	20.8
80°-90°	1587.1	3.8
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°	41959.0	100.0
0°-180°	41959.0	100.0

Coefficient of Utilization



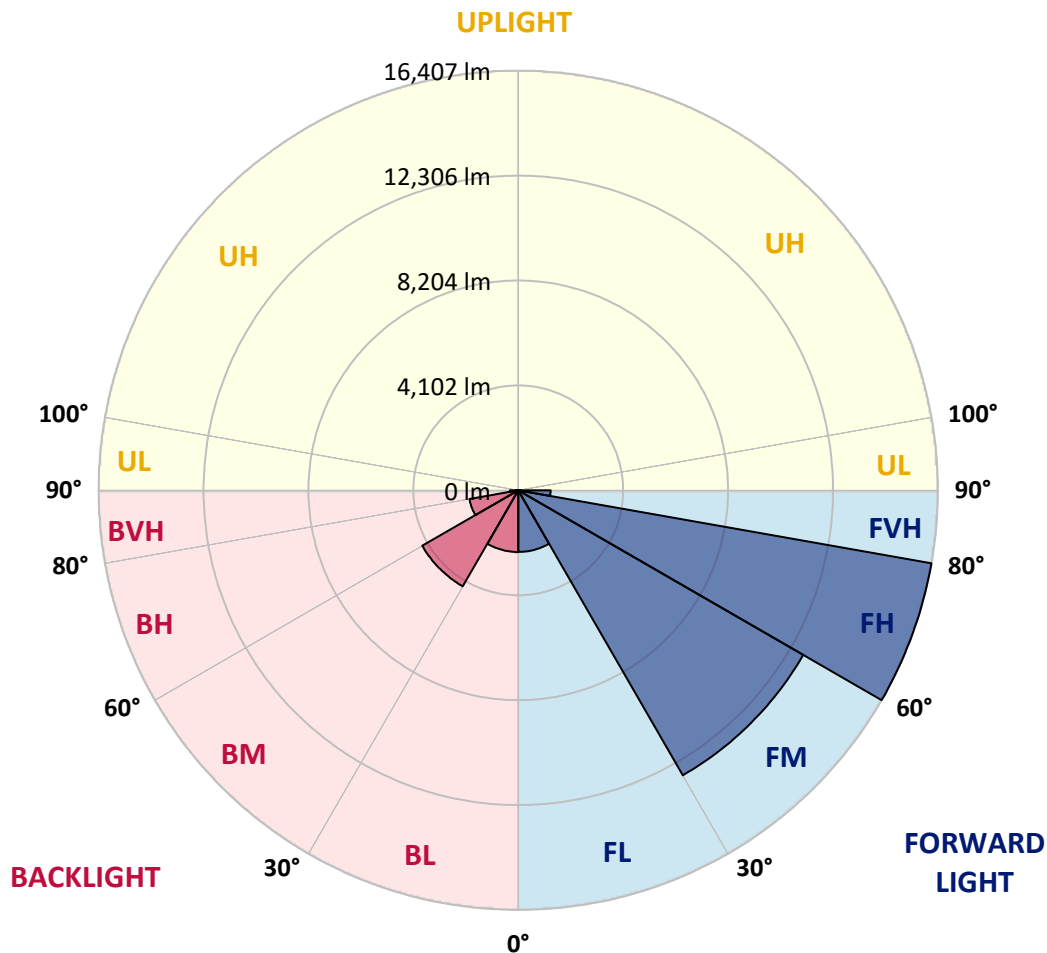
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2409.9	5.7			
FM (30°-60°)	12868.0	30.7			
FH (60°-80°)	16407.4	39.1			G5
FVH (80°-90°)	1264.0	3.0			G5
BL (0°-30°)	2413.2	5.8	B3/2500		
BM (30°-60°)	4336.1	10.3	B3/5000		
BH (60°-80°)	1937.2	4.6	B3/2500		G3/2500
BVH (80°-90°)	323.1	0.8			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	6558.4	6558.4	6558.4	6558.4	6558.4	6558.4	6558.4	6558.4	6558.4	6558.4	6558.4
2.5°	6090.3	6067.1	6110.6	6116.4	6154.1	6168.5	6220.7	6301.9	6368.6	6445.4	6514.9
5°	5538.1	5522.1	5583.0	5626.5	5709.1	5743.9	5867.1	6039.6	6193.2	6367.1	6525.1
7.5°	5013.4	5004.7	5072.8	5171.4	5267.0	5314.9	5527.9	5778.7	6035.2	6316.4	6558.4
10°	4571.3	4568.4	4633.7	4730.8	4871.4	4925.0	5200.4	5530.8	5890.3	6277.2	6615.0
12.5°	4323.5	4333.6	4364.1	4445.2	4575.7	4629.3	4935.1	5323.6	5768.5	6264.2	6697.6
15°	4384.4	4400.3	4348.1	4345.2	4438.0	4480.0	4767.0	5175.7	5681.6	6285.9	6817.9
17.5°	4643.8	4646.7	4509.0	4422.0	4478.6	4500.3	4714.8	5091.7	5630.8	6335.2	6968.6
20°	5009.0	5001.8	4758.3	4613.4	4643.8	4649.6	4788.7	5093.1	5626.5	6420.7	7164.3
22.5°	5493.1	5439.5	5111.9	4914.8	4907.6	4898.9	4978.6	5200.4	5690.3	6559.9	7397.6
25°	6125.1	6074.3	5623.6	5354.0	5296.0	5274.3	5285.9	5429.4	5816.3	6709.2	7658.5
27.5°	6828.0	6739.6	6304.8	5923.6	5803.3	5772.9	5703.3	5752.6	5954.0	6852.7	7968.7
30°	7416.5	7368.6	6988.9	6536.7	6394.6	6351.2	6168.5	6114.9	6152.6	7048.3	8360.0
32.5°	7745.5	7713.6	7483.1	7117.9	6986.0	6925.1	6667.1	6559.9	6471.5	7357.0	8890.5
35°	8144.0	8123.8	7984.6	7719.4	7523.7	7459.9	7259.9	7148.3	6920.8	7781.7	9576.0
37.5°	8651.3	8629.6	8632.5	8418.0	8184.6	8125.2	7993.3	7875.9	7503.4	8339.7	10321.0
40°	9225.3	9183.2	9167.3	9157.2	9009.3	8976.0	8906.4	8747.0	8233.9	9006.4	11055.8
42.5°	10089.1	9939.8	9621.0	9741.3	9887.6	9870.3	9926.8	9697.8	9045.6	9794.9	11773.3
45°	10922.5	10677.6	10126.8	10152.9	10473.2	10570.3	10993.5	10831.2	9925.3	10658.7	12515.4
47.5°	11302.2	11116.7	10648.6	10650.0	10967.4	11168.9	12096.5	11980.5	10850.0	11639.9	13421.2
50°	11726.9	11541.4	11121.1	11279.0	11555.9	11770.4	13161.8	13102.4	11729.8	12713.9	14506.8
52.5°	12190.7	11876.2	11609.5	11892.1	12280.6	12529.9	14228.5	14066.2	12537.1	13795.2	15754.7
55°	12196.5	12111.0	12313.9	12521.2	13102.4	13408.2	15346.0	14917.0	13195.1	14857.6	16770.7
57.5°	12890.8	12751.6	13182.1	13277.7	14037.2	14382.2	16457.7	15657.6	13864.7	15672.1	17318.6
60°	13809.7	13690.8	14043.0	14295.2	15193.8	15654.7	17644.7	16418.5	14390.9	16286.6	17292.5
62.5°	15396.7	15261.9	15257.6	15611.2	16821.5	17357.7	18976.7	17165.0	14599.6	16408.4	16554.8
65°	17720.1	17505.6	17101.2	17269.3	19069.4	19604.3	20465.2	17705.6	14324.2	15756.2	14654.6
67.5°	19981.1	19973.9	19476.7	19821.7	22037.8	22466.8	22161.0	17759.2	13464.7	13485.0	11283.4
70°	22234.9	22263.9	22179.8	23379.9	26048.2	26494.6	23966.9	17038.9	11532.7	9738.4	6759.9
72.5°	24020.5	24013.3	24436.5	27530.9	31252.9	31152.9	25488.7	14856.1	8280.3	5256.9	3230.7
75°	22863.9	22611.7	23872.7	29586.1	34286.4	33798.0	24194.4	10363.0	4297.4	2392.9	1739.3
77.5°	14912.6	15151.8	17002.6	24440.8	29990.5	29396.2	17750.5	4835.1	2024.8	1569.7	1261.0
80°	5400.4	5652.6	7961.4	13844.4	20662.3	20565.2	8741.2	1987.1	1369.7	1185.6	918.9
82.5°	1858.1	1950.9	3140.8	6148.3	11666.0	12100.8	3288.6	1129.1	995.7	840.6	629.0
85°	729.0	834.8	1436.3	2958.2	5884.5	5927.9	1332.0	675.4	692.8	550.8	345.0
87.5°	276.8	336.3	687.0	1374.0	2687.1	2468.3	476.8	321.8	394.2	327.6	163.8
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°	6558.4	6558.4	6558.4	6558.4	6558.4	6558.4	6558.4	6558.4	6558.4	6558.4	6558.4
2.5°	6568.6	6599.0	6662.8	6706.3	6752.6	6765.7	6771.5	6783.1	6794.7	6790.3	6791.8
5°	6609.2	6668.6	6771.5	6815.0	6835.3	6812.1	6767.1	6730.9	6704.8	6690.3	6686.0
7.5°	6675.8	6759.9	6870.0	6862.8	6816.4	6713.5	6597.6	6510.6	6438.1	6412.0	6397.5
10°	6764.2	6862.8	6939.6	6857.0	6722.2	6543.9	6370.0	6235.2	6126.5	6084.5	6077.2
12.5°	6877.3	6977.3	6991.8	6816.4	6593.2	6349.7	6113.5	5935.2	5772.9	5720.7	5709.1
15°	7023.7	7117.9	7028.0	6745.4	6433.8	6106.2	5800.4	5558.4	5387.3	5323.6	5300.4
17.5°	7177.3	7267.2	7035.3	6628.0	6225.1	5817.8	5433.7	5185.9	4990.2	4916.3	4907.6
20°	7361.4	7402.0	7004.8	6459.9	5938.1	5443.9	5039.5	4806.1	4701.8	4649.6	4643.8
22.5°	7588.9	7545.5	6935.3	6232.3	5574.3	5011.9	4682.9	4574.2	4548.1	4536.5	4540.9
25°	7829.5	7696.2	6832.4	5935.2	5114.8	4580.0	4422.0	4452.5	4487.3	4482.9	4482.9
27.5°	8094.8	7849.8	6674.4	5541.0	4606.1	4226.4	4245.2	4356.8	4409.0	4407.6	4406.1
30°	8435.4	8023.7	6472.9	5067.0	4130.7	3977.1	4091.6	4227.8	4298.8	4296.0	4297.4
32.5°	8854.2	8215.1	6199.0	4538.0	3787.2	3793.0	3924.9	4059.7	4142.3	4135.1	4136.5
35°	9344.1	8429.6	5827.9	4016.2	3559.7	3646.6	3751.0	3845.2	3923.5	3913.3	3903.2
37.5°	9877.5	8639.7	5335.2	3549.5	3374.1	3510.4	3597.4	3613.3	3649.5	3623.4	3604.6
40°	10384.8	8800.6	4700.3	3166.9	3187.2	3394.4	3451.0	3387.2	3322.0	3313.3	3287.2
42.5°	10826.8	8854.2	4058.3	2861.1	2990.1	3272.7	3307.5	3174.1	3056.7	3001.7	2978.5
45°	11293.5	8873.1	3459.7	2604.5	2800.2	3164.0	3201.7	3023.4	2858.2	2739.3	2700.2
47.5°	11903.7	9009.3	2994.4	2414.7	2655.3	3091.5	3145.1	2903.1	2688.6	2519.0	2482.8
50°	12702.3	9278.9	2616.1	2269.7	2561.0	3043.7	3104.6	2785.7	2549.5	2345.1	2308.9
52.5°	13589.4	9526.7	2310.3	2152.3	2469.7	2959.6	3052.4	2701.6	2419.0	2184.2	2145.1
55°	14209.7	9336.9	2063.9	2030.6	2350.9	2839.3	2979.9	2630.6	2232.0	2027.7	1992.9
57.5°	14328.5	8687.6	1876.9	1904.5	2207.4	2688.6	2868.3	2472.6	2130.6	1959.6	1923.3
60°	14003.9	7783.1	1737.8	1788.5	2053.8	2498.7	2659.6	2361.0	2033.5	1887.1	1856.7
62.5°	13187.9	6857.0	1634.9	1684.2	1910.3	2306.0	2529.2	2243.6	1934.9	1804.5	1774.0
65°	11539.9	5756.9	1536.3	1591.4	1776.9	2139.3	2411.8	2134.9	1837.8	1737.8	1708.8
67.5°	8710.8	4311.9	1443.6	1492.9	1658.1	1994.3	2284.2	2027.7	1743.6	1679.8	1645.0
70°	5129.3	2700.2	1337.8	1390.0	1533.4	1843.6	2148.0	1910.3	1626.2	1597.2	1552.3
72.5°	2387.1	1624.8	1217.5	1268.2	1376.9	1642.1	1972.6	1756.6	1487.1	1423.3	1362.4
75°	1424.7	1188.5	1075.4	1120.4	1197.2	1427.6	1752.3	1600.1	1355.2	1271.1	1207.3
77.5°	1065.3	908.8	918.9	966.7	1029.1	1249.4	1552.3	1476.9	1253.7	1188.5	1145.0
80°	766.7	689.9	749.3	801.5	866.7	1136.3	1487.1	1365.3	1133.4	1046.4	1005.9
82.5°	511.6	495.7	563.8	617.4	681.2	994.3	1397.2	1195.7	968.2	858.0	768.2
85°	282.6	298.6	379.7	402.9	458.0	700.0	1145.0	960.9	729.0	587.0	560.9
87.5°	117.4	137.7	204.4	197.1	243.5	417.4	753.7	579.8	463.8	346.4	269.6
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)