

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: P318672

Luminaire Tested: **GAN-SA8A-730-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318672
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-SA8A-730-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 615mA 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: 34218 lumens
Efficiency: N/A
Efficacy: 133.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

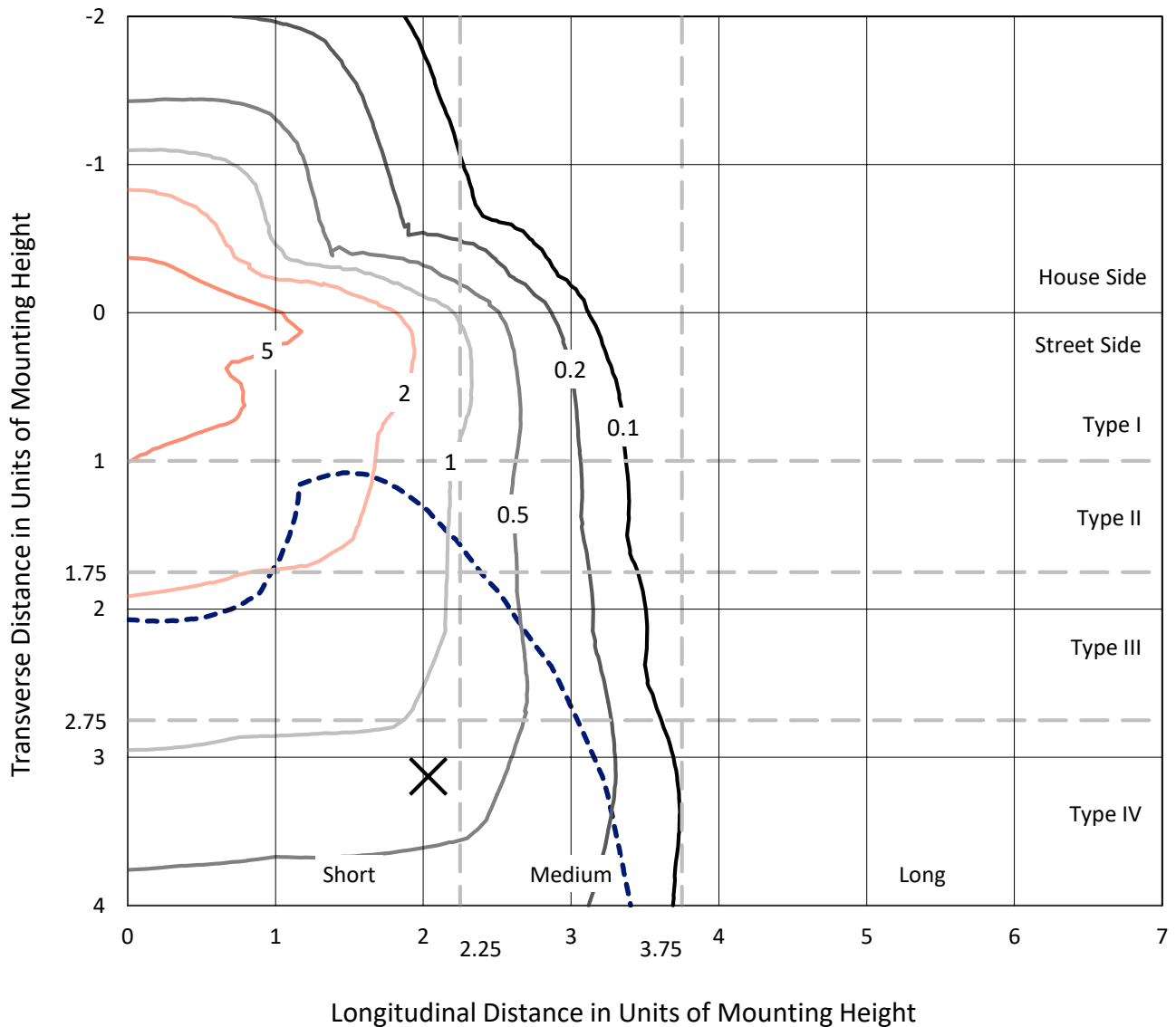
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

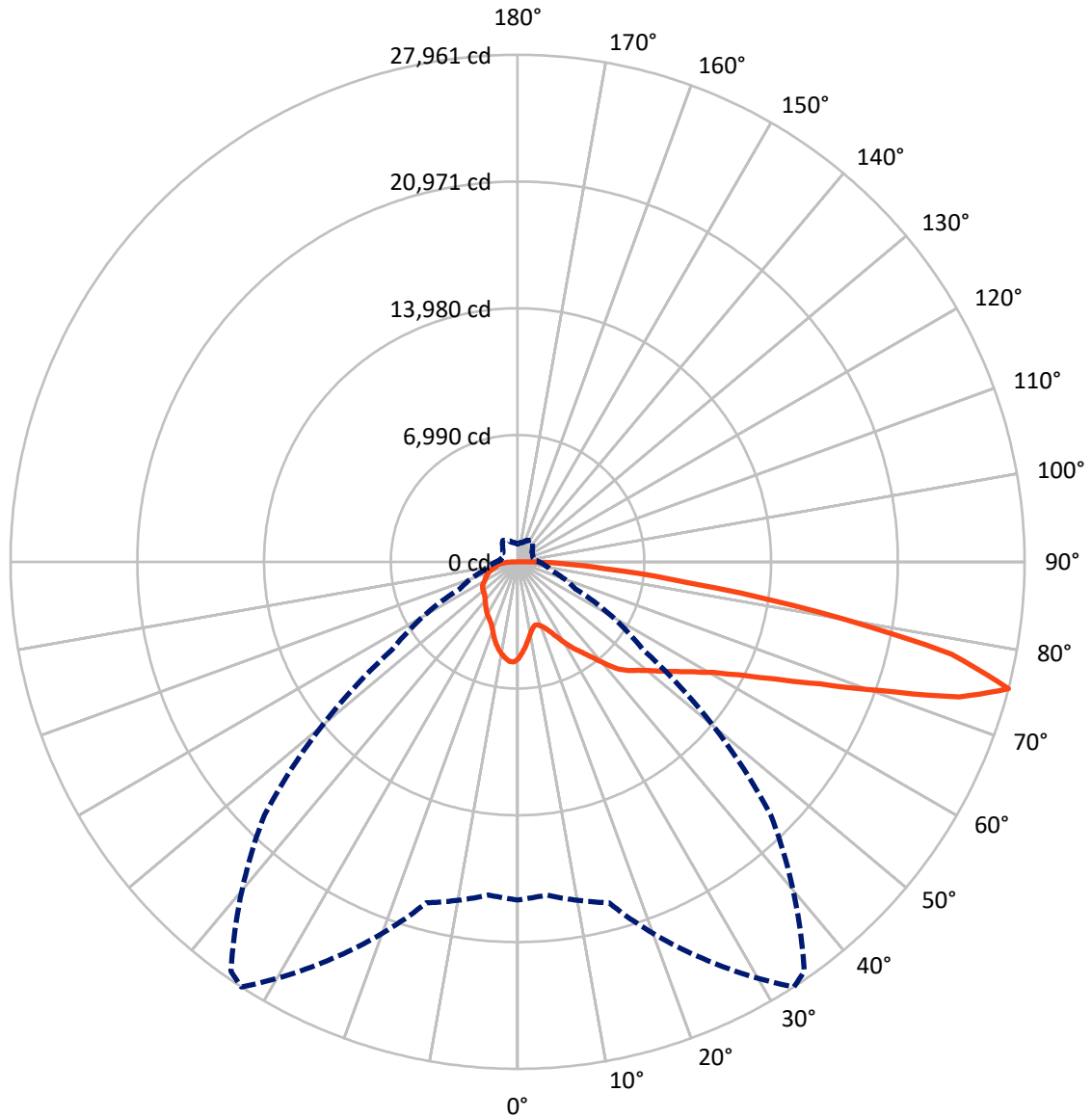
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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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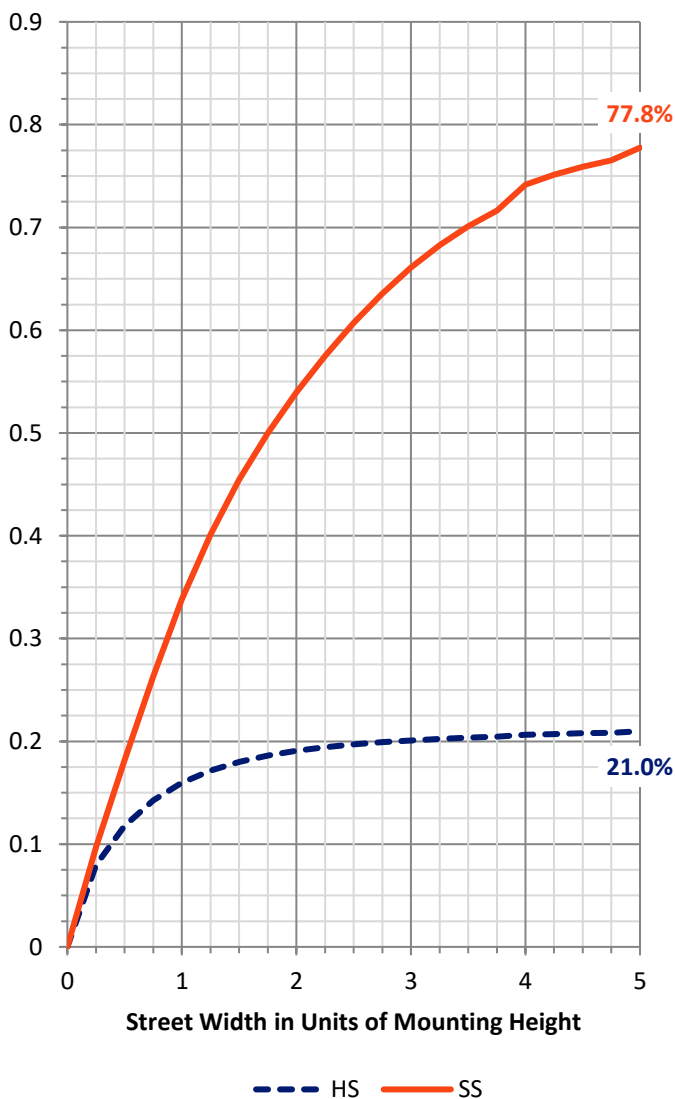
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7347.5	0.0	7347.5
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	26870.5	0.0	26870.5
	% Fixture	78.5	0.0	78.5
Total	Lumens	34218.0	0.0	34218.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	483.7	1.4
10°-20°	1310.1	3.8
20°-30°	2139.5	6.3
30°-40°	3186.3	9.3
40°-50°	4570.0	13.4
50°-60°	6273.9	18.3
60°-70°	7854.6	23.0
70°-80°	7105.7	20.8
80°-90°	1294.3	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°	34218.0	100.0
0°-180°	34218.0	100.0

Coefficient of Utilization

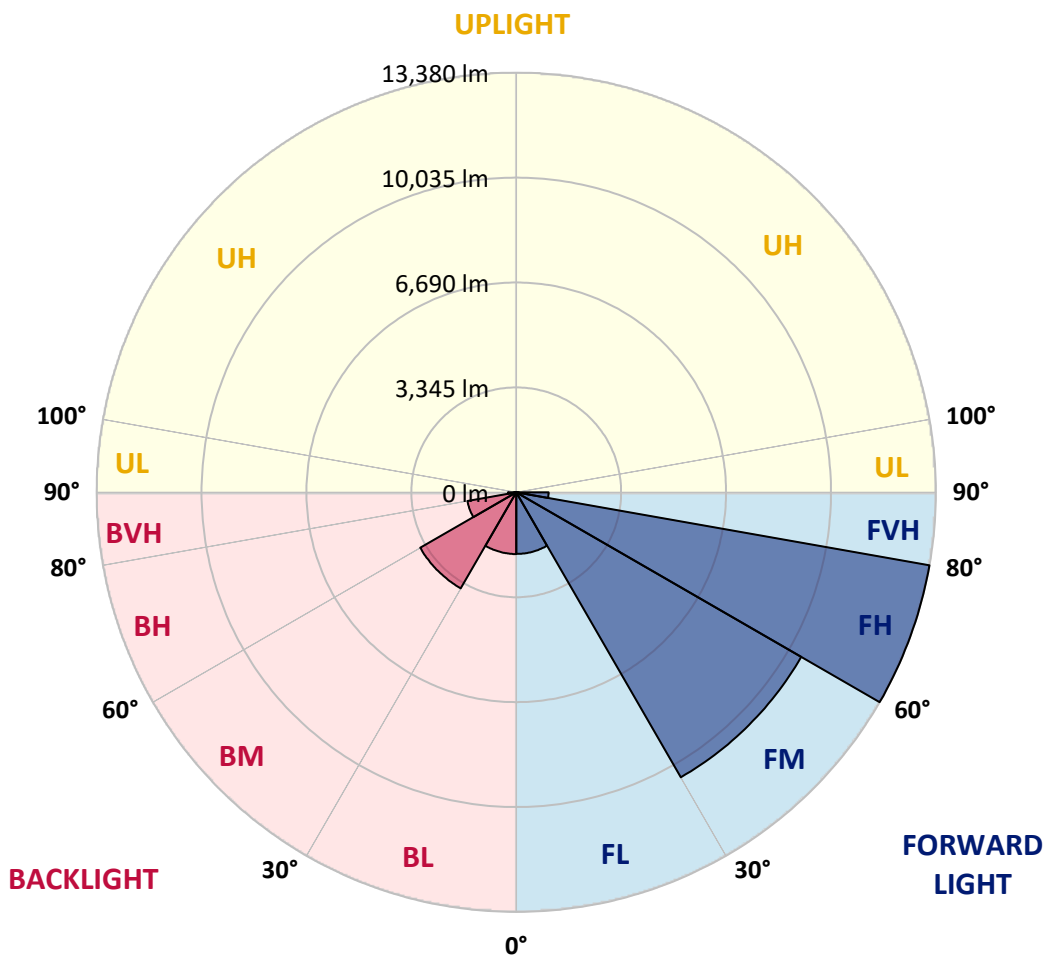


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1965.3	5.7			
FM (30°-60°)	10493.9	30.7			
FH (60°-80°)	13380.4	39.1			G5
FVH (80°-90°)	1030.8	3.0			G5
BL (0°-30°)	1968.0	5.8	B3/2500		
BM (30°-60°)	3536.1	10.3	B3/5000		
BH (60°-80°)	1579.8	4.6	B3/2500		G3/2500
BVH (80°-90°)	263.5	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°	5348.5	5348.5	5348.5	5348.5	5348.5	5348.5	5348.5	5348.5	5348.5	5348.5	5348.5
2.5°	4966.7	4947.8	4983.2	4988.0	5018.7	5030.5	5073.1	5139.3	5193.6	5256.3	5313.0
5°	4516.4	4503.3	4553.0	4588.5	4655.8	4684.2	4784.7	4925.3	5050.6	5192.4	5321.3
7.5°	4088.5	4081.4	4136.9	4217.3	4295.3	4334.3	4508.1	4712.6	4921.8	5151.1	5348.5
10°	3728.0	3725.6	3778.8	3858.0	3972.6	4016.4	4240.9	4510.4	4803.6	5119.2	5394.6
12.5°	3525.9	3534.1	3558.9	3625.1	3731.5	3775.2	4024.6	4341.4	4704.3	5108.5	5461.9
15°	3575.5	3588.5	3545.9	3543.6	3619.2	3653.5	3887.5	4220.9	4633.4	5126.3	5560.0
17.5°	3787.1	3789.4	3677.1	3606.2	3652.3	3670.1	3845.0	4152.3	4592.0	5166.4	5683.0
20°	4084.9	4079.0	3880.4	3762.2	3787.1	3791.8	3905.3	4153.5	4588.5	5236.2	5842.5
22.5°	4479.7	4436.0	4168.8	4008.1	4002.2	3995.1	4060.1	4240.9	4640.5	5349.6	6032.8
25°	4995.1	4953.7	4586.1	4366.2	4319.0	4301.2	4310.7	4427.7	4743.3	5471.4	6245.6
27.5°	5568.3	5496.2	5141.6	4830.8	4732.7	4707.8	4651.1	4691.3	4855.6	5588.4	6498.5
30°	6048.2	6009.2	5699.5	5330.7	5214.9	5179.4	5030.5	4986.8	5017.5	5748.0	6817.7
32.5°	6316.5	6290.5	6102.6	5804.7	5697.1	5647.5	5437.1	5349.6	5277.5	5999.7	7250.3
35°	6641.6	6625.0	6511.5	6295.2	6135.7	6083.7	5920.5	5829.5	5644.0	6346.1	7809.4
37.5°	7055.2	7037.5	7039.9	6864.9	6674.6	6626.2	6518.6	6422.9	6119.1	6801.1	8416.9
40°	7523.3	7489.0	7476.0	7467.8	7347.2	7320.0	7263.3	7133.3	6714.8	7344.8	9016.2
42.5°	8227.8	8106.0	7846.0	7944.1	8063.5	8049.3	8095.4	7908.6	7376.7	7987.8	9601.2
45°	8907.4	8707.7	8258.5	8279.8	8541.0	8620.2	8965.3	8832.9	8094.2	8692.3	10206.4
47.5°	9217.1	9065.8	8684.0	8685.2	8944.1	9108.3	9864.8	9770.3	8848.3	9492.5	10945.1
50°	9563.4	9412.1	9069.3	9198.2	9423.9	9598.9	10733.6	10685.1	9565.8	10368.3	11830.5
52.5°	9941.6	9685.2	9467.7	9698.2	10014.9	10218.2	11603.5	11471.1	10224.1	11250.1	12848.1
55°	9946.4	9876.6	10042.1	10211.1	10685.1	10934.5	12514.8	12165.0	10760.8	12116.5	13676.7
57.5°	10512.5	10399.1	10750.1	10828.1	11447.5	11728.8	13421.4	12768.9	11306.8	12780.8	14123.5
60°	11261.9	11165.0	11452.2	11657.9	12390.7	12766.6	14389.4	13389.5	11735.9	13281.9	14102.2
62.5°	12556.2	12446.3	12442.7	12731.1	13718.1	14155.4	15475.7	13998.2	11906.1	13381.2	13500.6
65°	14450.9	14276.0	13946.2	14083.3	15551.3	15987.5	16689.6	14439.1	11681.5	12849.3	11951.0
67.5°	16294.8	16288.9	15883.5	16164.8	17972.0	18321.9	18072.5	14482.8	10980.6	10997.2	9201.7
70°	18132.8	18156.4	18087.9	19066.5	21242.6	21606.6	19545.2	13895.4	9405.0	7941.7	5512.8
72.5°	19589.0	19583.1	19928.2	22451.7	25487.1	25405.5	20786.3	12115.3	6752.7	4287.0	2634.6
75°	18645.8	18440.1	19468.4	24127.8	27960.9	27562.6	19730.8	8451.2	3504.6	1951.5	1418.4
77.5°	12161.4	12356.4	13865.8	19931.8	24457.6	23972.9	14475.7	3943.1	1651.2	1280.1	1028.3
80°	4404.1	4609.7	6492.6	11290.3	16850.3	16771.1	7128.5	1620.5	1117.0	966.9	749.4
82.5°	1515.3	1590.9	2561.4	5014.0	9513.8	9868.4	2681.9	920.8	812.0	685.5	513.0
85°	594.5	680.8	1171.3	2412.4	4798.8	4834.3	1086.2	550.8	565.0	449.2	281.3
87.5°	225.8	274.2	560.3	1120.5	2191.4	2012.9	388.9	262.4	321.5	267.1	133.6
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°	5348.5	5348.5	5348.5	5348.5	5348.5	5348.5	5348.5	5348.5	5348.5	5348.5	5348.5
2.5°	5356.7	5381.6	5433.6	5469.0	5506.9	5517.5	5522.2	5531.7	5541.1	5537.6	5538.8
5°	5389.8	5438.3	5522.2	5557.7	5574.2	5555.3	5518.7	5489.1	5467.8	5456.0	5452.5
7.5°	5444.2	5512.8	5602.6	5596.7	5558.9	5474.9	5380.4	5309.5	5250.4	5229.1	5217.3
10°	5516.3	5596.7	5659.3	5592.0	5482.0	5336.6	5194.8	5084.9	4996.2	4962.0	4956.0
12.5°	5608.5	5690.1	5701.9	5558.9	5376.8	5178.3	4985.6	4840.2	4707.8	4665.3	4655.8
15°	5727.9	5804.7	5731.4	5500.9	5246.8	4979.7	4730.3	4532.9	4393.4	4341.4	4322.5
17.5°	5853.2	5926.5	5737.3	5405.2	5076.6	4744.5	4431.2	4229.1	4069.6	4009.3	4002.2
20°	6003.3	6036.4	5712.5	5268.1	4842.6	4439.5	4109.7	3919.4	3834.3	3791.8	3787.1
22.5°	6188.9	6153.4	5655.8	5082.5	4545.9	4087.3	3819.0	3730.3	3709.1	3699.6	3703.1
25°	6385.1	6276.3	5571.9	4840.2	4171.2	3735.1	3606.2	3631.0	3659.4	3655.9	3655.9
27.5°	6601.4	6401.6	5443.0	4518.7	3756.3	3446.7	3462.0	3553.0	3595.6	3594.4	3593.2
30°	6879.1	6543.4	5278.7	4132.2	3368.6	3243.4	3336.7	3447.8	3505.8	3503.4	3504.6
32.5°	7220.7	6699.5	5055.3	3700.8	3088.5	3093.2	3200.8	3310.7	3378.1	3372.2	3373.4
35°	7620.2	6874.4	4752.7	3275.3	2902.9	2973.9	3059.0	3135.8	3199.6	3191.3	3183.1
37.5°	8055.2	7045.8	4350.9	2894.7	2751.7	2862.8	2933.7	2946.7	2976.2	2955.0	2939.6
40°	8468.9	7177.0	3833.2	2582.6	2599.2	2768.2	2814.3	2762.3	2709.1	2702.0	2680.7
42.5°	8829.4	7220.7	3309.5	2333.2	2438.4	2668.9	2697.3	2588.5	2492.8	2447.9	2429.0
45°	9210.0	7236.1	2821.4	2124.0	2283.6	2580.3	2611.0	2465.6	2330.9	2233.9	2202.0
47.5°	9707.6	7347.2	2442.0	1969.2	2165.4	2521.2	2564.9	2367.5	2192.6	2054.3	2024.7
50°	10358.9	7567.0	2133.5	1851.0	2088.6	2482.2	2531.8	2271.8	2079.1	1912.4	1882.9
52.5°	11082.3	7769.2	1884.1	1755.2	2014.1	2413.6	2489.3	2203.2	1972.7	1781.2	1749.3
55°	11588.1	7614.3	1683.1	1656.0	1917.2	2315.5	2430.2	2145.3	1820.3	1653.6	1625.2
57.5°	11685.1	7084.8	1530.7	1553.1	1800.2	2192.6	2339.1	2016.5	1737.5	1598.0	1568.5
60°	11420.3	6347.2	1417.2	1458.6	1674.9	2037.7	2168.9	1925.4	1658.3	1538.9	1514.1
62.5°	10754.8	5592.0	1333.3	1373.5	1557.9	1880.5	2062.6	1829.7	1577.9	1471.6	1446.7
65°	9410.9	4694.8	1252.9	1297.8	1449.1	1744.6	1966.8	1741.1	1498.8	1417.2	1393.6
67.5°	7103.7	3516.4	1177.3	1217.4	1352.2	1626.4	1862.8	1653.6	1421.9	1369.9	1341.5
70°	4183.0	2202.0	1091.0	1133.5	1250.5	1503.5	1751.7	1557.9	1326.2	1302.5	1265.9
72.5°	1946.7	1325.0	992.9	1034.2	1122.9	1339.2	1608.7	1432.6	1212.7	1160.7	1111.1
75°	1161.9	969.2	877.0	913.7	976.3	1164.3	1429.0	1304.9	1105.2	1036.6	984.6
77.5°	868.8	741.1	749.4	788.4	839.2	1018.9	1265.9	1204.4	1022.4	969.2	933.8
80°	625.3	562.6	611.1	653.6	706.8	926.7	1212.7	1113.4	924.3	853.4	820.3
82.5°	417.2	404.2	459.8	503.5	555.5	810.8	1139.4	975.1	789.6	699.7	626.5
85°	230.5	243.5	309.7	328.6	373.5	570.9	933.8	783.7	594.5	478.7	457.4
87.5°	95.7	112.3	166.7	160.7	198.6	340.4	614.6	472.8	378.2	282.5	219.8
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)