

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: P383099

Luminaire Tested: **GAN-SA4B-735-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383099
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-SA4B-735-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 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: 21602.6 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

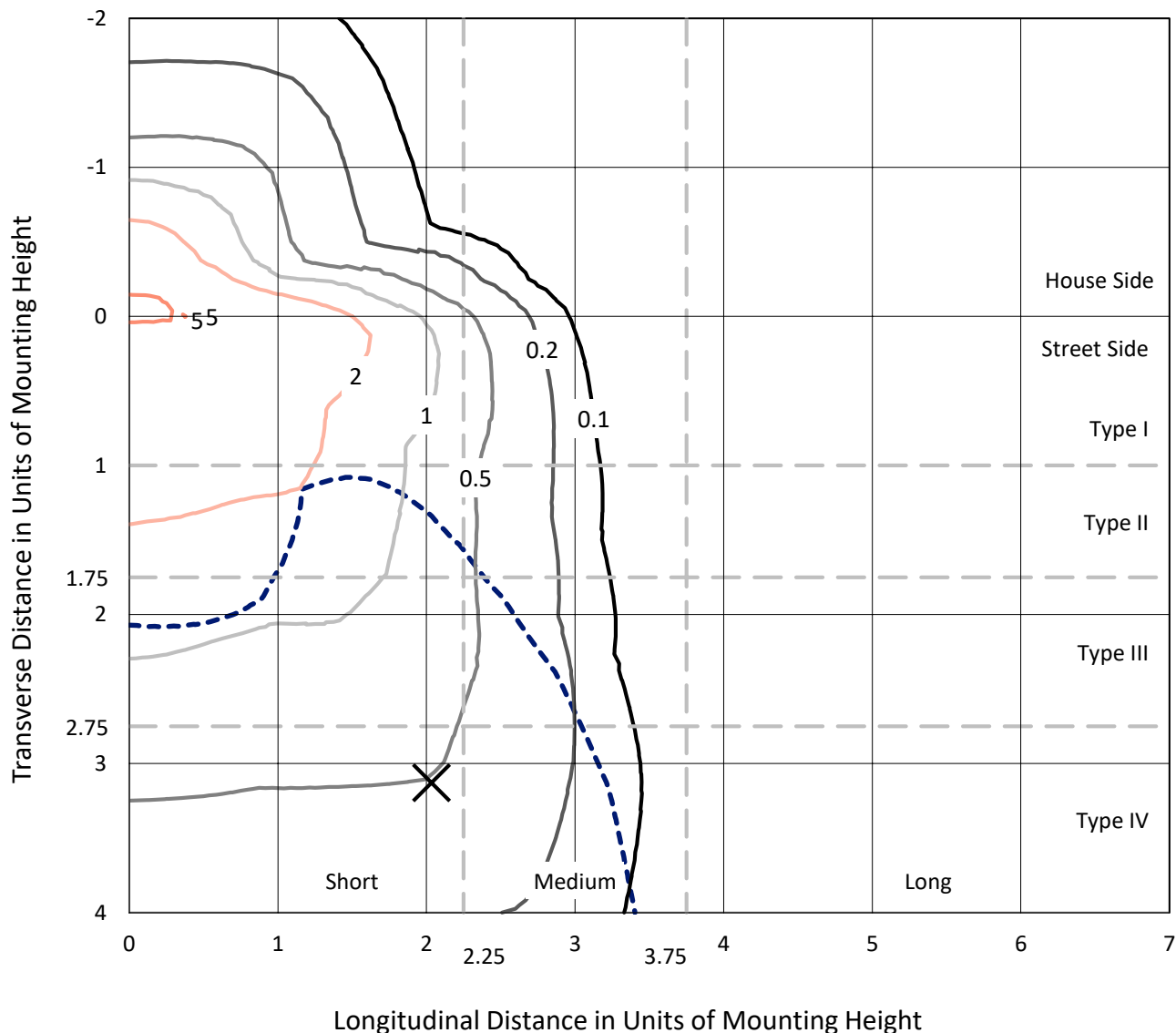
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

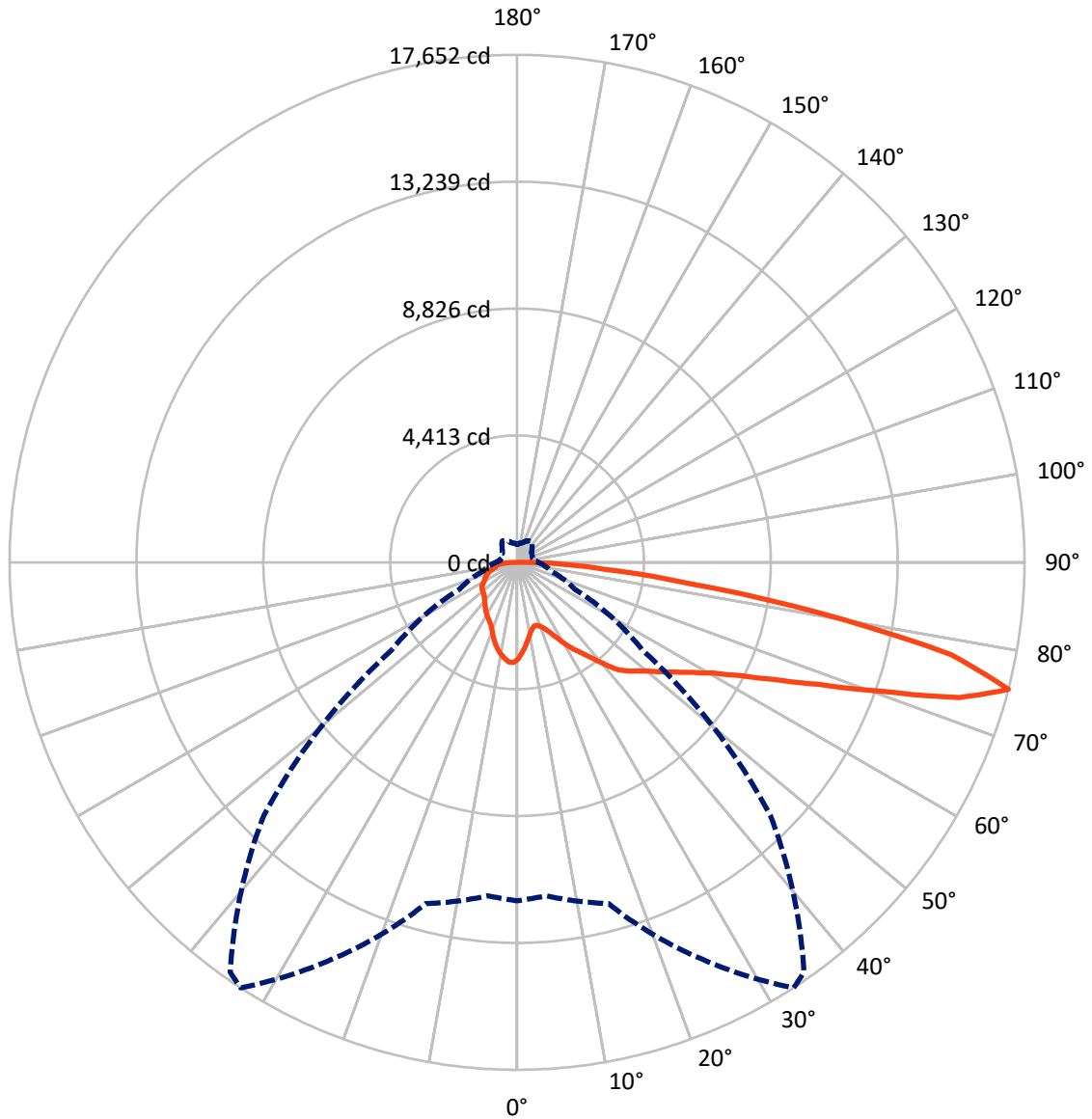
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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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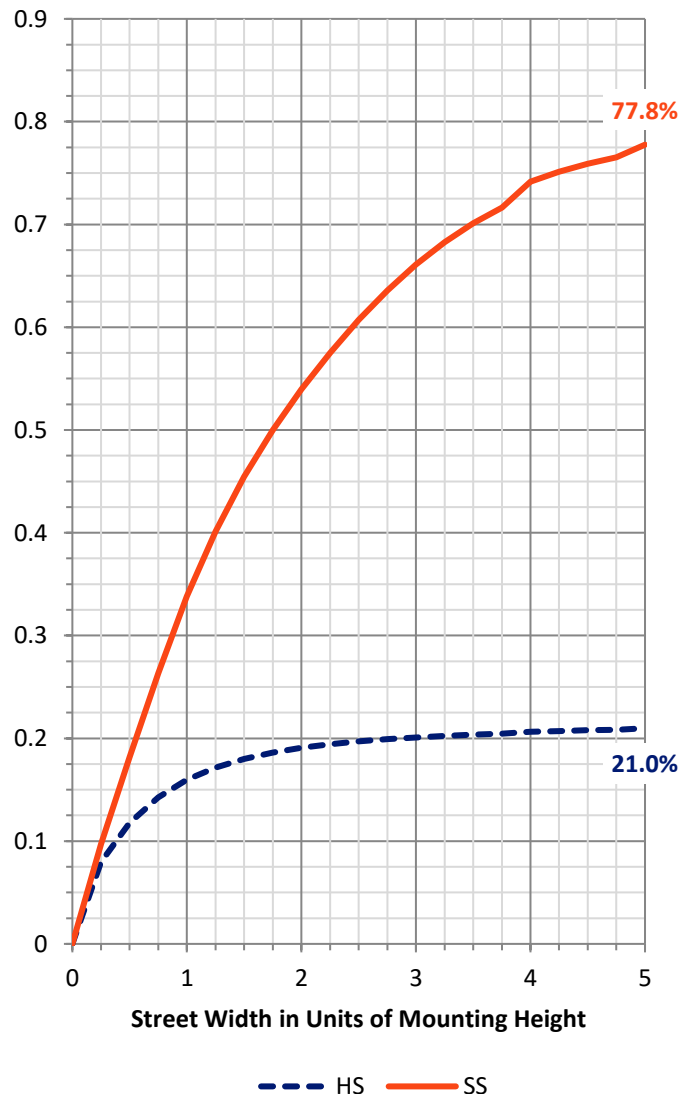
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4638.6	0.0	4638.6
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	16963.9	0.0	16963.9
	% Fixture	78.5	0.0	78.5
Total	Lumens	21602.6	0.0	21602.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.4	1.4
10°-20°	827.1	3.8
20°-30°	1350.7	6.3
30°-40°	2011.6	9.3
40°-50°	2885.1	13.4
50°-60°	3960.8	18.3
60°-70°	4958.8	23.0
70°-80°	4486.0	20.8
80°-90°	817.1	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°	21602.6	100.0
0°-180°	21602.6	100.0

Coefficient of Utilization



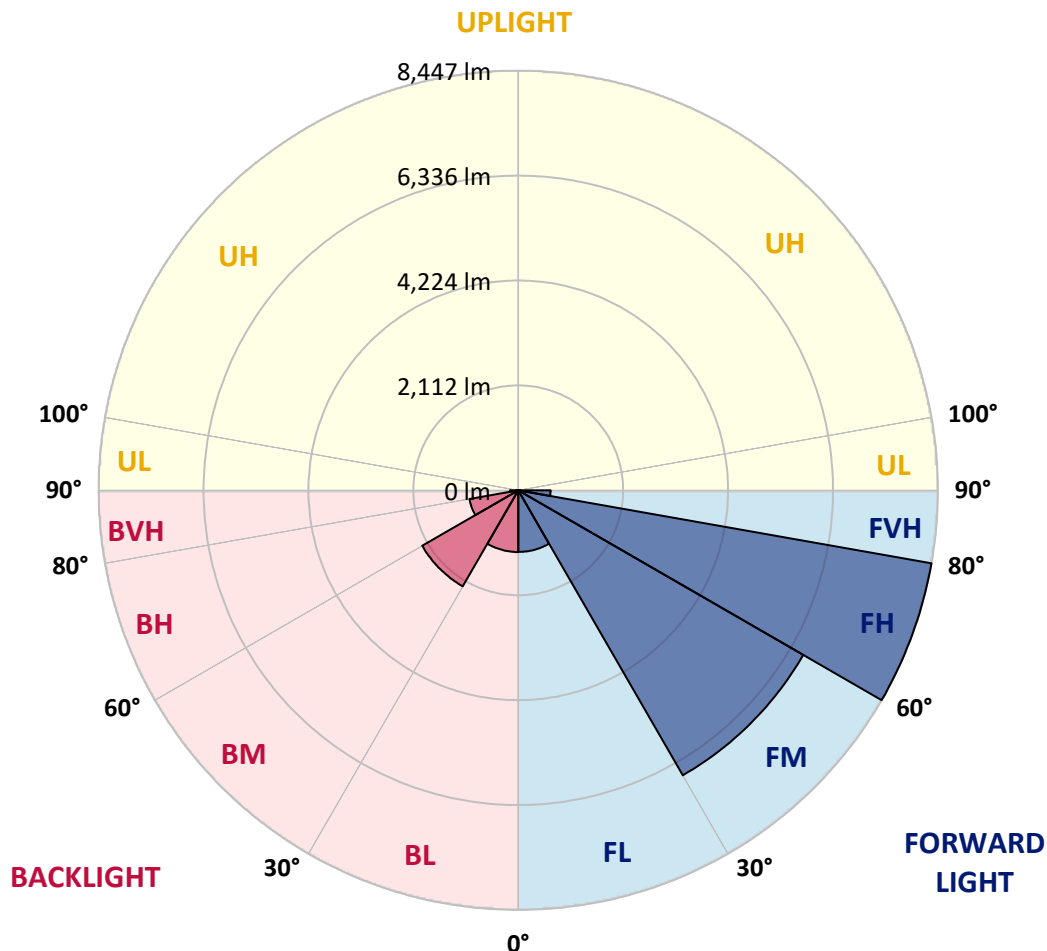
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1240.7	5.7			
FM (30°-60°)	6625.1	30.7			
FH (60°-80°)	8447.4	39.1			G4/12000
FVH (80°-90°)	650.8	3.0			G4/750
BL (0°-30°)	1242.4	5.8	B3/2500		
BM (30°-60°)	2232.5	10.3	B2/2500		
BH (60°-80°)	997.4	4.6	B2/1000		G2/1000
BVH (80°-90°)	166.4	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	3376.6	3376.6	3376.6	3376.6	3376.6	3376.6	3376.6	3376.6	3376.6	3376.6	3376.6
2.5°	3135.6	3123.7	3146.0	3149.0	3168.4	3175.8	3202.8	3244.5	3278.9	3318.4	3354.2
5°	2851.3	2843.1	2874.4	2896.8	2939.3	2957.2	3020.6	3109.5	3188.6	3278.1	3359.4
7.5°	2581.1	2576.7	2611.8	2662.5	2711.7	2736.3	2846.1	2975.2	3107.2	3252.0	3376.6
10°	2353.6	2352.1	2385.6	2435.6	2508.0	2535.6	2677.4	2847.6	3032.6	3231.8	3405.7
12.5°	2225.9	2231.1	2246.8	2288.6	2355.8	2383.4	2540.9	2740.8	2970.0	3225.1	3448.2
15°	2257.3	2265.5	2238.6	2237.1	2284.9	2306.5	2454.3	2664.7	2925.2	3236.3	3510.2
17.5°	2390.8	2392.3	2321.4	2276.7	2305.8	2316.9	2427.4	2621.5	2899.1	3261.7	3587.8
20°	2578.9	2575.2	2449.8	2375.2	2390.8	2393.9	2465.5	2622.2	2896.8	3305.7	3688.6
22.5°	2828.2	2800.5	2631.9	2530.4	2526.6	2522.2	2563.2	2677.4	2929.6	3377.3	3808.6
25°	3153.5	3127.4	2895.3	2756.5	2726.6	2715.5	2721.4	2795.3	2994.6	3454.2	3943.0
27.5°	3515.4	3469.9	3246.0	3049.8	2987.8	2972.2	2936.3	2961.7	3065.4	3528.1	4102.6
30°	3818.3	3793.7	3598.2	3365.4	3292.3	3269.9	3175.8	3148.3	3167.6	3628.8	4304.1
32.5°	3987.8	3971.4	3852.7	3664.6	3596.7	3565.4	3432.6	3377.3	3331.9	3787.8	4577.3
35°	4193.0	4182.6	4110.9	3974.4	3873.6	3840.8	3737.7	3680.4	3563.2	4006.4	4930.2
37.5°	4454.1	4442.9	4444.4	4334.0	4213.9	4183.3	4115.4	4054.9	3863.1	4293.7	5313.7
40°	4749.6	4728.0	4719.8	4714.6	4638.5	4621.3	4585.4	4503.4	4239.2	4637.0	5692.1
42.5°	5194.4	5117.5	4953.3	5015.3	5090.6	5081.7	5110.8	4992.9	4657.1	5042.9	6061.5
45°	5623.5	5497.3	5213.8	5227.2	5392.1	5442.1	5660.0	5576.4	5110.1	5487.7	6443.5
47.5°	5818.9	5723.4	5482.4	5483.2	5646.6	5750.4	6227.9	6168.1	5586.1	5992.8	6909.9
50°	6037.6	5942.1	5725.7	5807.0	5949.5	6060.0	6776.4	6745.7	6039.1	6545.8	7468.9
52.5°	6276.4	6114.5	5977.2	6122.7	6322.7	6451.0	7325.6	7241.9	6454.7	7102.4	8111.4
55°	6279.4	6235.3	6339.8	6446.5	6745.7	6903.2	7900.9	7680.1	6793.5	7649.4	8634.4
57.5°	6636.8	6565.2	6786.8	6836.1	7227.0	7404.7	8473.3	8061.3	7138.3	8068.8	8916.5
60°	7109.9	7048.7	7230.0	7359.9	7822.6	8059.8	9084.4	8453.0	7409.2	8385.1	8903.1
62.5°	7927.0	7857.6	7855.4	8037.5	8660.5	8936.6	9770.2	8837.4	7516.6	8447.8	8523.2
65°	9123.2	9012.7	8804.5	8891.1	9817.9	10093.2	10536.5	9115.8	7374.8	8112.1	7545.0
67.5°	10287.3	10283.5	10027.6	10205.2	11346.2	11567.0	11409.6	9143.3	6932.3	6942.7	5809.2
70°	11447.6	11462.5	11419.3	12037.2	13410.9	13640.7	12339.4	8772.5	5937.6	5013.8	3480.4
72.5°	12366.9	12363.2	12581.1	14174.2	16090.5	16039.1	13122.9	7648.7	4263.1	2706.5	1663.3
75°	11771.5	11641.6	12290.8	15232.4	17652.4	17400.9	12456.5	5335.4	2212.5	1232.0	895.5
77.5°	7677.7	7800.9	8753.8	12583.3	15440.6	15134.7	9138.9	2489.4	1042.5	808.1	649.2
80°	2780.4	2910.2	4098.9	7127.8	10638.0	10588.0	4500.4	1023.0	705.2	610.4	473.1
82.5°	956.6	1004.4	1617.1	3165.4	6006.2	6230.1	1693.2	581.3	512.6	432.8	323.9
85°	375.3	429.8	739.5	1523.0	3029.6	3052.0	685.8	347.7	356.7	283.6	177.6
87.5°	142.5	173.1	353.7	707.4	1383.4	1270.8	245.5	165.6	203.0	168.6	84.3
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°	3376.6	3376.6	3376.6	3376.6	3376.6	3376.6	3376.6	3376.6	3376.6	3376.6	3376.6
2.5°	3381.8	3397.5	3430.3	3452.7	3476.6	3483.3	3486.3	3492.3	3498.2	3496.0	3496.8
5°	3402.8	3433.3	3486.3	3508.7	3519.1	3507.2	3484.1	3465.5	3451.9	3444.5	3442.3
7.5°	3437.0	3480.4	3537.1	3533.3	3509.4	3456.4	3396.8	3352.0	3314.6	3301.2	3293.8
10°	3482.6	3533.3	3572.9	3530.3	3460.9	3369.1	3279.6	3210.2	3154.2	3132.6	3128.9
12.5°	3540.8	3592.2	3599.7	3509.4	3394.6	3269.2	3147.5	3055.8	2972.2	2945.3	2939.3
15°	3616.2	3664.6	3618.4	3472.9	3312.4	3143.8	2986.4	2861.7	2773.7	2740.8	2728.9
17.5°	3695.3	3741.5	3622.1	3412.4	3205.0	2995.3	2797.5	2669.9	2569.2	2531.1	2526.6
20°	3790.0	3810.9	3606.4	3325.9	3057.2	2802.7	2594.5	2474.5	2420.7	2393.9	2390.8
22.5°	3907.2	3884.7	3570.6	3208.7	2869.9	2580.4	2411.0	2355.0	2341.6	2335.7	2337.9
25°	4031.0	3962.3	3517.6	3055.8	2633.4	2358.0	2276.7	2292.4	2310.2	2308.0	2308.0
27.5°	4167.6	4041.5	3436.3	2852.8	2371.4	2175.9	2185.7	2243.1	2270.0	2269.2	2268.5
30°	4343.0	4131.0	3332.6	2608.8	2126.7	2047.6	2106.5	2176.7	2213.3	2211.8	2212.5
32.5°	4558.6	4229.5	3191.6	2336.4	1949.8	1952.8	2020.7	2090.1	2132.7	2129.0	2129.7
35°	4810.8	4340.0	3000.5	2067.8	1832.7	1877.4	1931.2	1979.7	2020.0	2014.8	2009.5
37.5°	5085.4	4448.1	2746.8	1827.5	1737.1	1807.3	1852.1	1860.3	1878.9	1865.5	1855.8
40°	5346.6	4531.0	2420.0	1630.5	1640.9	1747.6	1776.7	1743.9	1710.3	1705.8	1692.4
42.5°	5574.2	4558.6	2089.4	1473.1	1539.5	1685.0	1702.9	1634.2	1573.8	1545.4	1533.4
45°	5814.4	4568.3	1781.2	1341.0	1441.7	1629.0	1648.4	1556.6	1471.6	1410.4	1390.1
47.5°	6128.7	4638.5	1541.7	1243.2	1367.0	1591.6	1619.3	1494.7	1384.2	1296.9	1278.3
50°	6539.8	4777.3	1346.9	1168.5	1318.5	1567.0	1598.3	1434.2	1312.6	1207.4	1188.7
52.5°	6996.5	4904.9	1189.5	1108.2	1271.6	1523.7	1571.5	1390.9	1245.4	1124.6	1104.3
55°	7315.8	4807.1	1062.6	1045.5	1210.4	1461.8	1534.2	1354.4	1149.2	1044.0	1026.0
57.5°	7377.0	4472.8	966.4	980.5	1136.5	1384.2	1476.8	1273.1	1096.9	1008.9	990.2
60°	7209.9	4007.1	894.8	920.8	1057.4	1286.5	1369.3	1215.6	1047.0	971.6	955.9
62.5°	6789.8	3530.3	841.7	867.1	983.5	1187.3	1302.1	1155.1	996.2	929.0	913.4
65°	5941.3	2963.9	791.0	819.3	914.9	1101.4	1241.7	1099.1	946.2	894.8	879.8
67.5°	4484.7	2220.0	743.2	768.6	853.7	1026.8	1176.0	1044.0	897.7	864.8	847.0
70°	2640.8	1390.1	688.8	715.6	789.5	949.2	1105.8	983.5	837.3	822.4	799.2
72.5°	1229.0	836.5	626.8	652.9	708.9	845.5	1015.6	904.4	765.6	732.8	701.5
75°	733.5	611.9	553.7	576.8	616.4	735.0	902.2	823.9	697.7	654.4	621.6
77.5°	548.5	467.9	473.1	497.7	529.8	643.2	799.2	760.4	645.5	611.9	589.5
80°	394.8	355.2	385.8	412.7	446.2	585.0	765.6	702.9	583.5	538.8	517.8
82.5°	263.4	255.2	290.3	317.8	350.7	511.9	719.3	615.7	498.5	441.7	395.5
85°	145.5	153.7	195.5	207.5	235.8	360.4	589.5	494.7	375.3	302.2	288.8
87.5°	60.5	70.9	105.2	101.4	125.4	214.9	388.0	298.5	238.8	178.3	138.8
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)