

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: P318348

Luminaire Tested: **GAN-SA4A-730-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318348
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4A-730-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17123 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

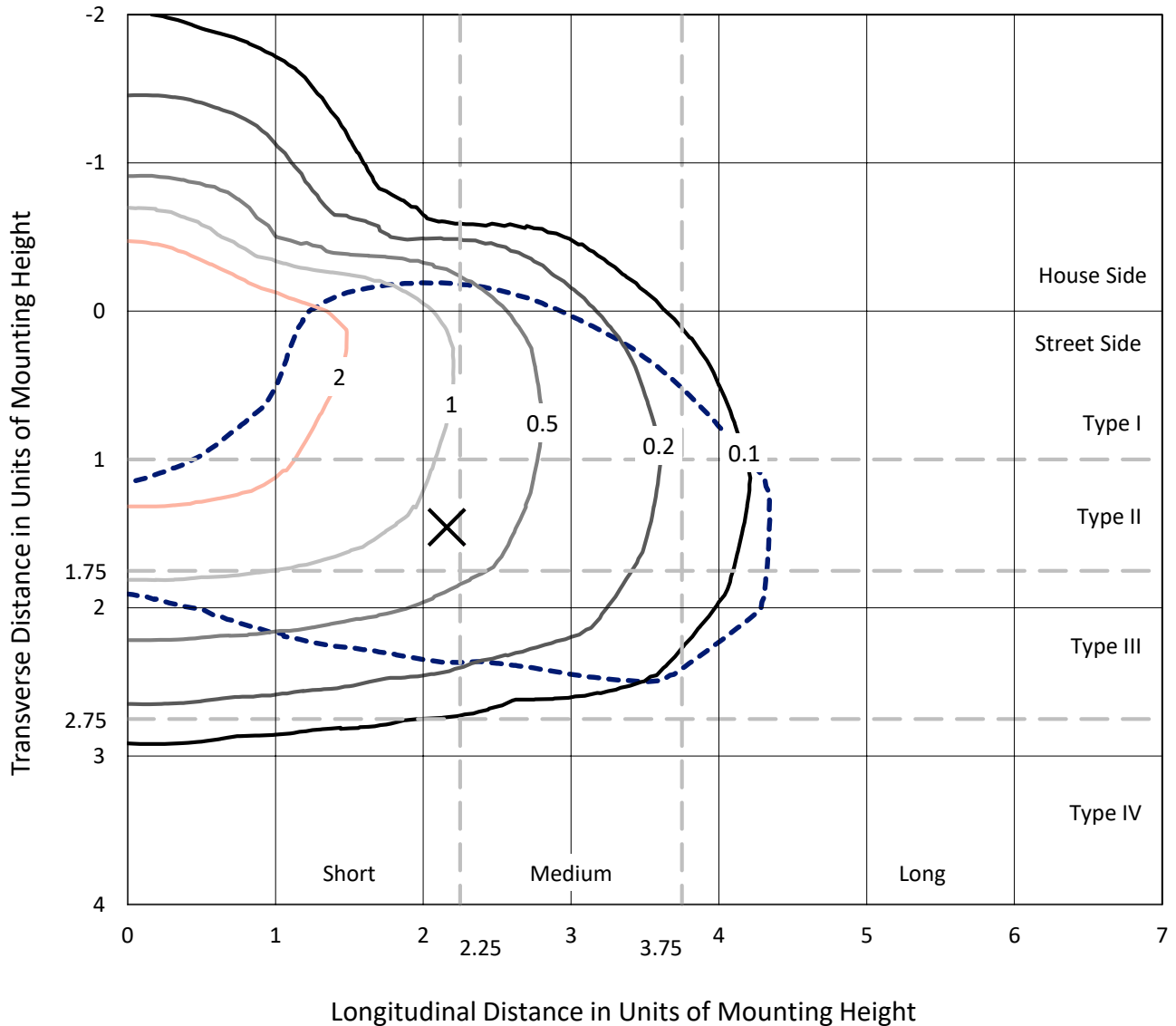
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

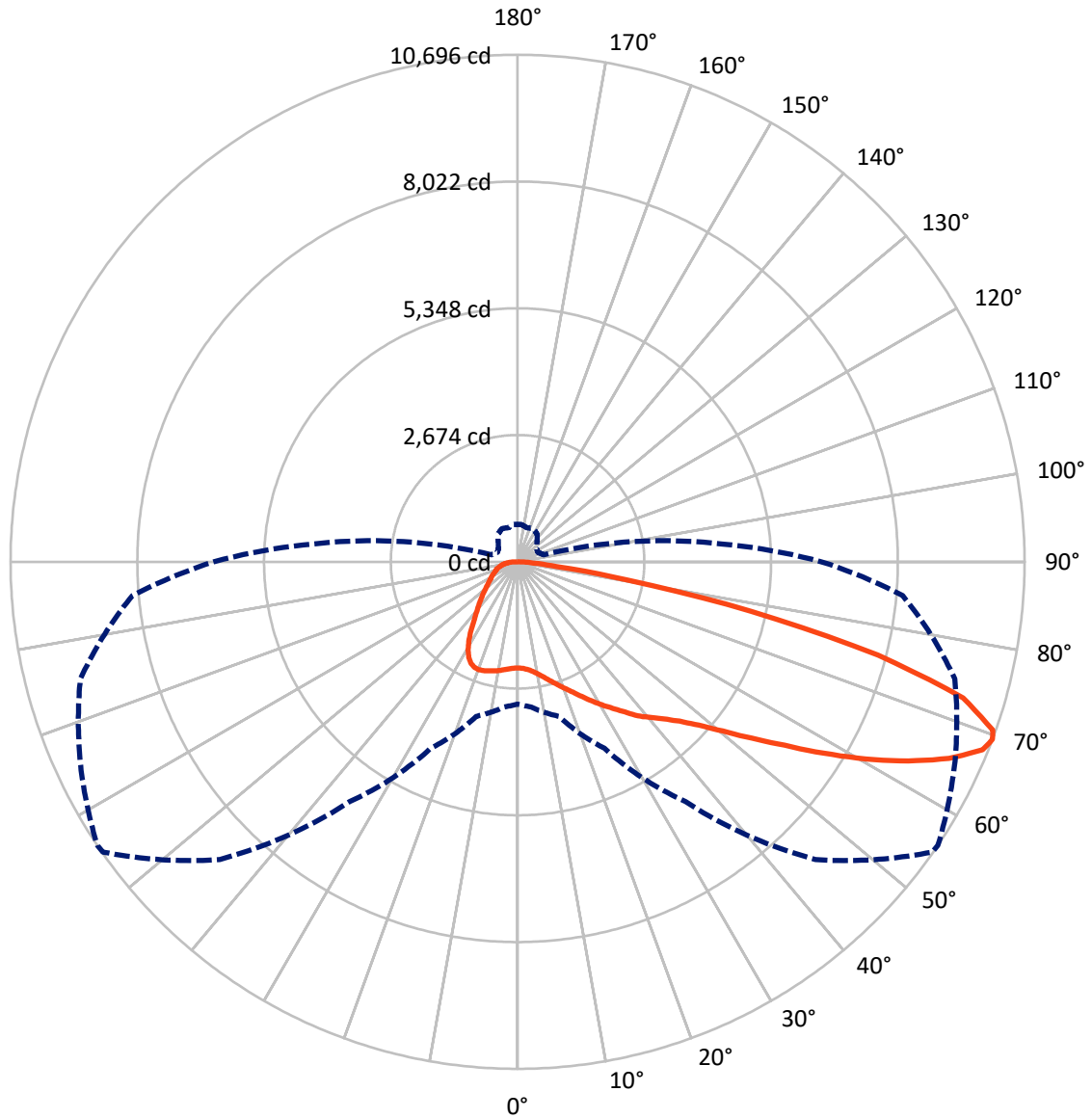
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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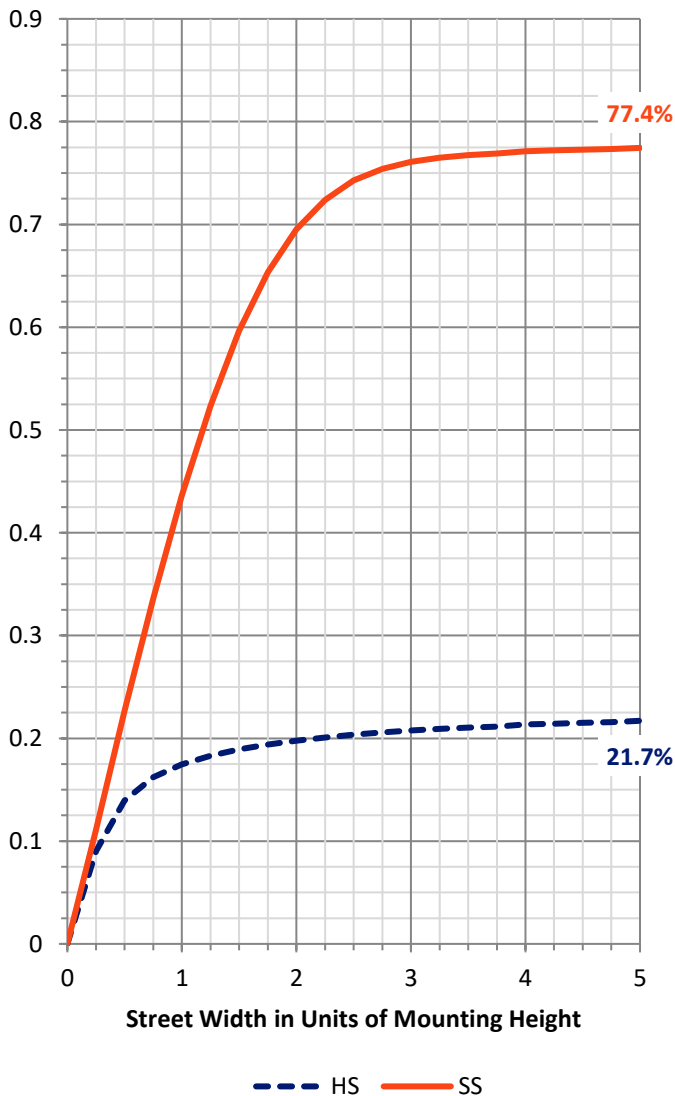
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3813.3	0.0	3813.3
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	13309.7	0.0	13309.7
	% Fixture	77.7	0.0	77.7
Total	Lumens	17123.0	0.0	17123.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.9	1.3
10°-20°	707.0	4.1
20°-30°	1234.1	7.2
30°-40°	1772.8	10.4
40°-50°	2453.5	14.3
50°-60°	3594.7	21.0
60°-70°	4382.6	25.6
70°-80°	2423.0	14.2
80°-90°	335.6	2.0
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°	17123.0	100.0
0°-180°	17123.0	100.0



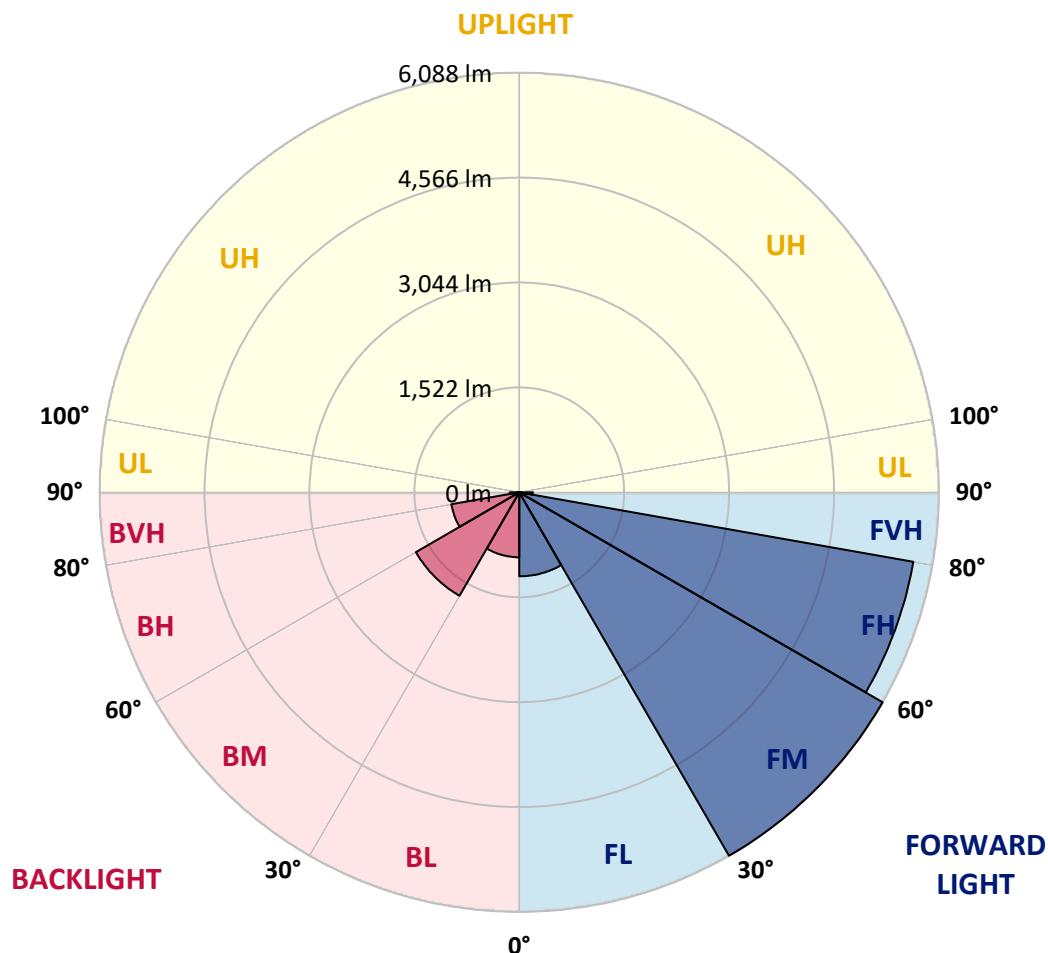
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1218.7	7.1			
FM (30°-60°)	6087.9	35.6			
FH (60°-80°)	5805.6	33.9			G3/7500
FVH (80°-90°)	197.7	1.2			G2/225
BL (0°-30°)	942.3	5.5	B2/1000		
BM (30°-60°)	1733.0	10.1	B2/2500		
BH (60°-80°)	1000.0	5.8	B2/1000		G2/1000
BVH (80°-90°)	137.9	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2238.6	2238.6	2238.6	2238.6	2238.6	2238.6	2238.6	2238.6	2238.6	2238.6	2238.6
2.5°	2252.7	2255.1	2253.3	2258.0	2252.7	2256.3	2253.3	2253.3	2251.6	2246.2	2240.3
5°	2288.1	2292.8	2289.9	2294.6	2288.1	2289.3	2284.0	2284.0	2278.7	2267.5	2255.7
7.5°	2343.6	2348.9	2346.5	2351.2	2342.4	2342.4	2335.3	2334.7	2324.1	2305.8	2292.3
10°	2409.6	2416.7	2414.4	2421.4	2414.4	2416.7	2409.6	2409.6	2395.5	2369.5	2352.4
12.5°	2505.8	2514.6	2508.1	2507.6	2504.6	2509.3	2503.4	2502.2	2489.3	2453.9	2430.3
15°	2634.4	2643.8	2630.3	2629.1	2612.6	2610.8	2610.8	2609.0	2600.8	2558.3	2519.4
17.5°	2782.4	2785.4	2773.6	2754.7	2733.5	2719.9	2718.1	2722.9	2722.9	2673.3	2611.4
20°	2927.5	2932.9	2923.4	2902.2	2875.0	2855.0	2840.8	2850.3	2849.7	2790.7	2702.8
22.5°	3085.6	3098.0	3083.9	3056.7	3024.9	3002.5	2977.7	2985.9	2986.5	2914.0	2792.5
25°	3290.3	3279.1	3270.3	3231.9	3186.5	3163.5	3140.5	3148.8	3146.4	3046.7	2885.1
27.5°	3471.4	3473.8	3462.0	3421.3	3368.8	3318.0	3316.9	3322.2	3313.3	3184.7	2972.4
30°	3682.0	3683.2	3666.7	3630.1	3572.9	3507.4	3492.1	3500.9	3482.0	3315.7	3064.4
32.5°	3891.4	3897.3	3879.0	3834.8	3788.8	3709.1	3678.5	3684.4	3637.2	3449.6	3159.4
35°	4074.9	4083.1	4077.2	4047.7	3997.6	3929.2	3892.6	3889.0	3830.6	3613.6	3285.0
37.5°	4261.8	4269.5	4263.0	4238.2	4218.2	4145.6	4126.2	4126.2	4024.7	3781.1	3444.9
40°	4454.1	4465.9	4458.3	4424.1	4407.0	4373.9	4327.3	4316.1	4206.4	3982.2	3705.6
42.5°	4632.9	4648.2	4678.9	4658.8	4624.0	4628.7	4535.0	4529.1	4448.8	4279.5	4033.0
45°	4886.5	4908.9	4960.8	4945.5	4938.4	4912.5	4801.0	4795.7	4765.0	4679.5	4439.4
47.5°	5163.2	5193.8	5287.6	5290.6	5366.7	5317.7	5166.1	5147.8	5154.9	5158.5	4935.5
50°	5418.0	5451.6	5605.6	5678.1	5857.5	5868.1	5625.6	5609.1	5636.8	5718.2	5513.6
52.5°	5621.5	5664.0	5856.3	6080.4	6387.8	6475.1	6191.3	6178.9	6199.6	6340.0	6167.1
55°	5770.7	5816.8	6026.2	6434.4	6925.1	7079.1	6842.5	6830.7	6843.7	7022.5	6877.9
57.5°	5805.5	5816.8	6120.5	6672.7	7378.7	7748.6	7639.5	7615.9	7552.2	7707.9	7662.5
60°	5642.2	5687.0	6042.7	6756.4	7729.7	8408.7	8472.4	8442.9	8264.1	8391.6	8355.0
62.5°	5310.6	5390.9	5751.9	6629.0	7867.2	8947.8	9289.3	9254.0	8946.0	9028.6	8852.8
65°	4769.1	4803.3	5182.6	6189.6	7692.6	9292.9	10017.8	10000.1	9612.6	9483.4	8944.9
67.5°	3800.6	3864.9	4186.9	5271.1	6978.2	9252.2	10581.2	10579.4	10047.9	9652.1	8618.7
69°	3002.5	3069.1	3375.9	4342.1	6174.8	8880.0	10675.6	10696.2	10170.6	9549.5	8152.7
70°	2393.7	2471.0	2681.6	3657.2	5461.6	8389.2	10597.1	10634.3	10147.0	9380.2	7722.6
72.5°	1018.7	1081.2	1231.1	1885.2	3328.7	6264.5	9689.3	9829.7	9600.2	8585.0	6382.4
75°	444.8	464.2	532.1	768.6	1477.6	3409.5	7590.5	7850.1	8208.7	7256.6	4754.4
77.5°	325.6	333.9	371.0	451.3	663.0	1287.7	4881.2	5032.2	5920.0	5280.6	2916.3
80°	251.9	257.8	286.7	331.5	433.0	520.9	2226.2	2356.0	3328.7	2712.2	1214.6
82.5°	200.6	204.7	224.7	244.2	299.1	315.6	739.1	819.9	1228.7	749.1	321.5
85°	186.4	191.1	198.2	178.1	191.7	185.2	319.7	334.5	371.0	294.3	134.5
87.5°	84.4	99.7	196.4	138.6	102.0	81.4	131.0	136.9	154.0	154.5	59.6
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°	2238.6	2238.6	2238.6	2238.6	2238.6	2238.6	2238.6	2238.6	2238.6	2238.6	2238.6
2.5°	2243.9	2242.1	2245.1	2238.0	2246.8	2246.2	2243.3	2244.5	2250.4	2249.8	2250.4
5°	2257.5	2256.3	2259.8	2254.5	2265.1	2268.7	2269.2	2274.6	2281.0	2282.8	2282.8
7.5°	2291.7	2291.7	2293.4	2286.4	2293.4	2292.8	2289.9	2295.2	2301.7	2302.3	2301.7
10°	2350.7	2351.2	2348.3	2330.0	2324.1	2308.2	2293.4	2294.0	2302.3	2308.8	2310.5
12.5°	2425.0	2422.6	2409.6	2376.0	2351.2	2318.8	2303.5	2302.9	2311.1	2316.4	2318.2
15°	2509.9	2503.4	2469.8	2414.9	2371.3	2339.4	2314.7	2308.8	2304.1	2298.2	2298.7
17.5°	2590.1	2575.4	2519.4	2443.3	2397.3	2354.8	2307.0	2268.7	2242.1	2226.8	2222.1
20°	2671.5	2642.6	2561.8	2469.8	2411.4	2334.1	2242.1	2164.3	2115.9	2093.5	2089.3
22.5°	2745.9	2699.3	2601.3	2497.5	2400.2	2264.5	2120.0	2006.8	1939.5	1909.4	1911.8
25°	2818.4	2753.5	2642.6	2517.0	2343.6	2141.8	1950.1	1810.9	1733.1	1699.4	1698.2
27.5°	2882.1	2808.4	2687.5	2501.1	2238.0	1967.2	1749.0	1613.3	1548.4	1519.5	1514.8
30°	2955.3	2877.4	2747.0	2440.3	2083.4	1765.5	1552.6	1457.0	1411.0	1382.1	1376.8
32.5°	3044.3	2971.2	2796.0	2330.0	1885.8	1554.9	1399.2	1332.5	1290.6	1258.2	1252.3
35°	3174.1	3095.1	2808.4	2171.9	1668.8	1388.6	1286.5	1218.1	1161.5	1119.6	1115.5
37.5°	3336.9	3250.2	2780.1	1967.2	1458.2	1280.6	1192.7	1108.4	1034.6	975.7	966.2
40°	3571.7	3440.7	2701.6	1731.3	1303.0	1197.4	1101.3	1005.1	913.7	844.7	831.1
42.5°	3853.7	3664.3	2581.3	1496.5	1189.2	1113.1	1010.5	891.3	804.0	755.0	748.0
45°	4212.3	3896.7	2414.4	1291.2	1077.1	1028.7	912.5	802.8	748.6	712.6	706.7
47.5°	4621.7	4157.4	2239.2	1124.3	982.1	949.7	834.1	763.3	720.2	691.9	686.6
50°	5124.8	4451.8	2053.4	987.5	886.6	854.7	796.9	741.5	707.3	685.4	680.1
52.5°	5692.3	4783.9	1919.5	879.5	807.5	784.5	777.5	729.7	702.0	685.4	680.1
55°	6303.4	5121.9	1774.9	788.7	739.1	745.6	764.5	730.9	712.0	691.9	684.3
57.5°	6915.1	5471.1	1613.9	712.0	684.8	716.7	755.6	733.2	717.3	697.8	690.7
60°	7398.8	5692.3	1364.4	647.7	641.8	684.8	734.4	715.5	694.9	695.5	694.3
62.5°	7624.7	5680.5	1088.9	590.5	598.7	641.8	700.2	687.8	670.7	693.7	695.5
65°	7497.9	5397.4	847.6	538.6	552.7	597.0	664.8	674.2	680.1	724.4	730.3
67.5°	6965.8	4846.4	656.5	493.1	510.8	566.3	668.3	734.4	742.1	788.7	788.1
69°	6415.5	4329.7	570.4	469.5	490.2	573.9	714.3	772.7	743.8	793.4	786.3
70°	5954.2	3920.9	524.4	453.6	480.7	587.5	745.0	772.1	735.0	777.5	765.7
72.5°	4585.7	2820.8	444.8	424.1	448.9	562.2	753.9	755.0	714.3	722.6	702.5
75°	3145.2	1782.6	388.1	384.0	400.5	506.7	725.5	721.4	660.7	648.9	632.3
77.5°	1734.2	905.5	329.7	345.7	356.9	448.9	659.5	653.6	603.4	578.7	572.8
80°	668.9	396.4	278.4	307.3	314.4	388.7	578.1	572.8	530.9	499.0	490.2
82.5°	252.5	207.6	230.1	266.0	263.7	320.9	489.6	486.6	445.9	399.3	385.2
85°	116.8	124.5	182.3	219.4	202.3	237.7	391.7	397.0	347.4	292.0	292.0
87.5°	49.5	69.6	129.2	165.8	136.3	160.4	287.3	274.3	251.9	174.6	164.0
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)