

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: P383067

Luminaire Tested: **GAN-SA4A-735-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383067
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-735-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17515.9 lumens
Efficiency: N/A
Efficacy: 135.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

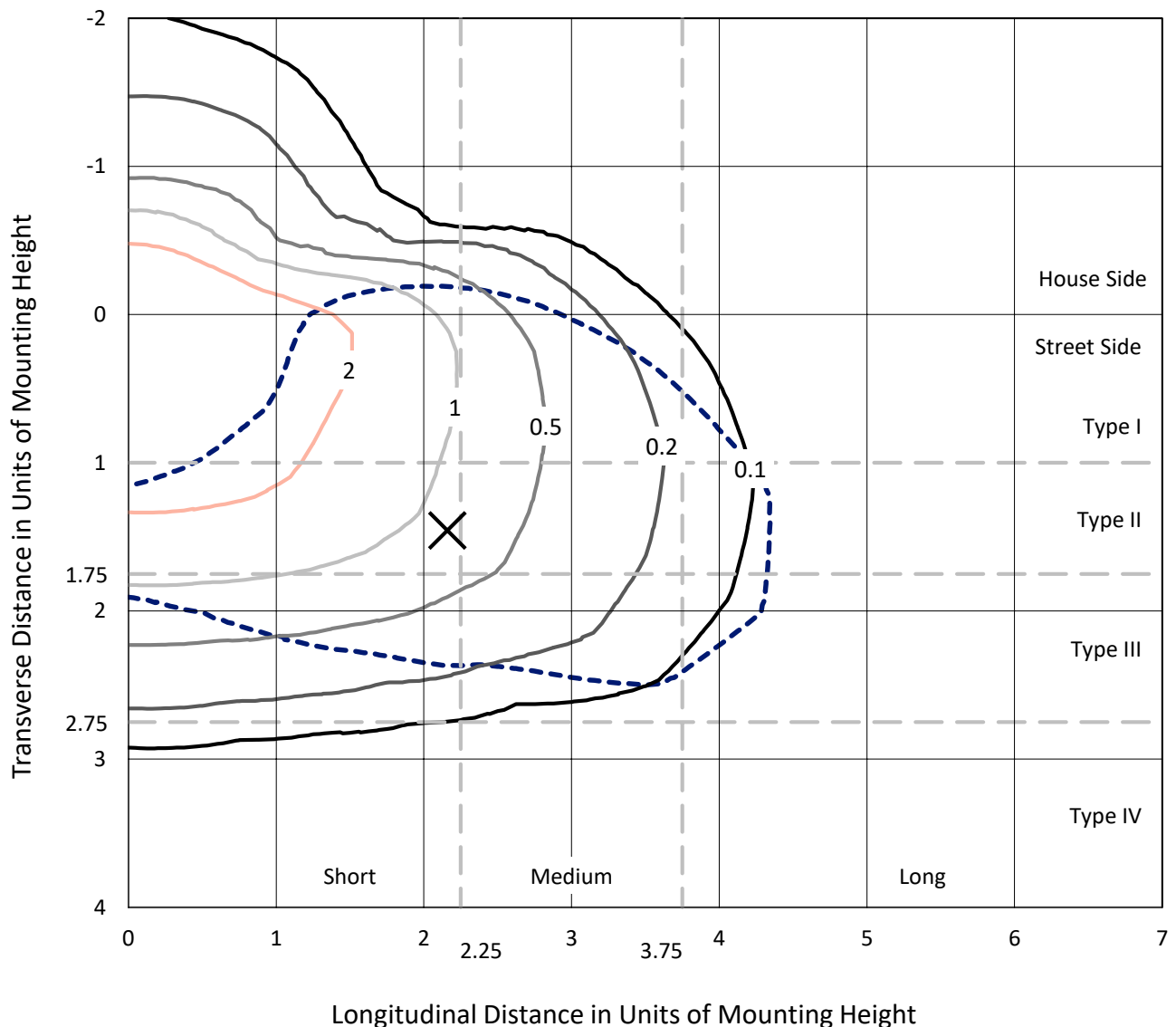
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

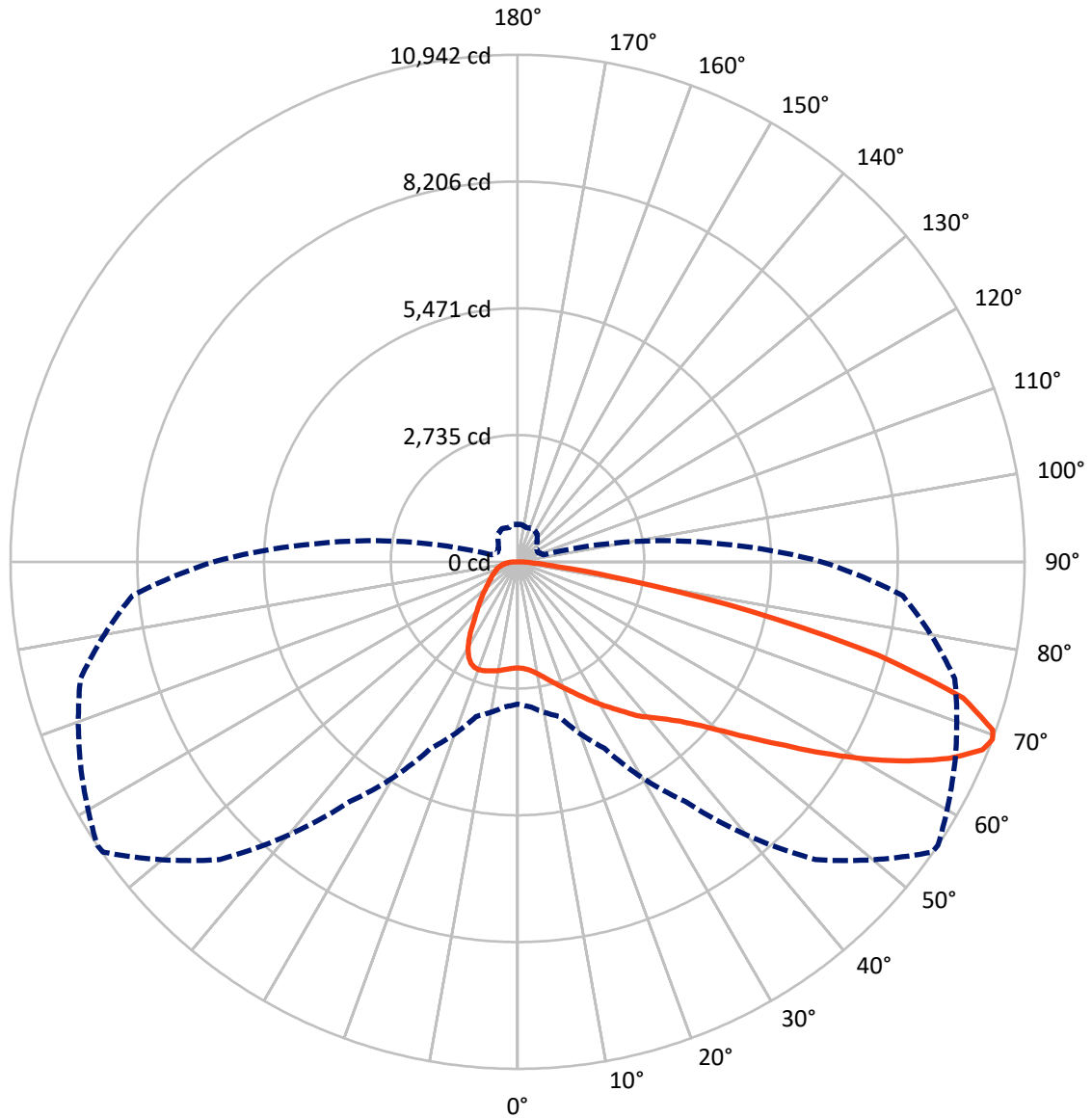
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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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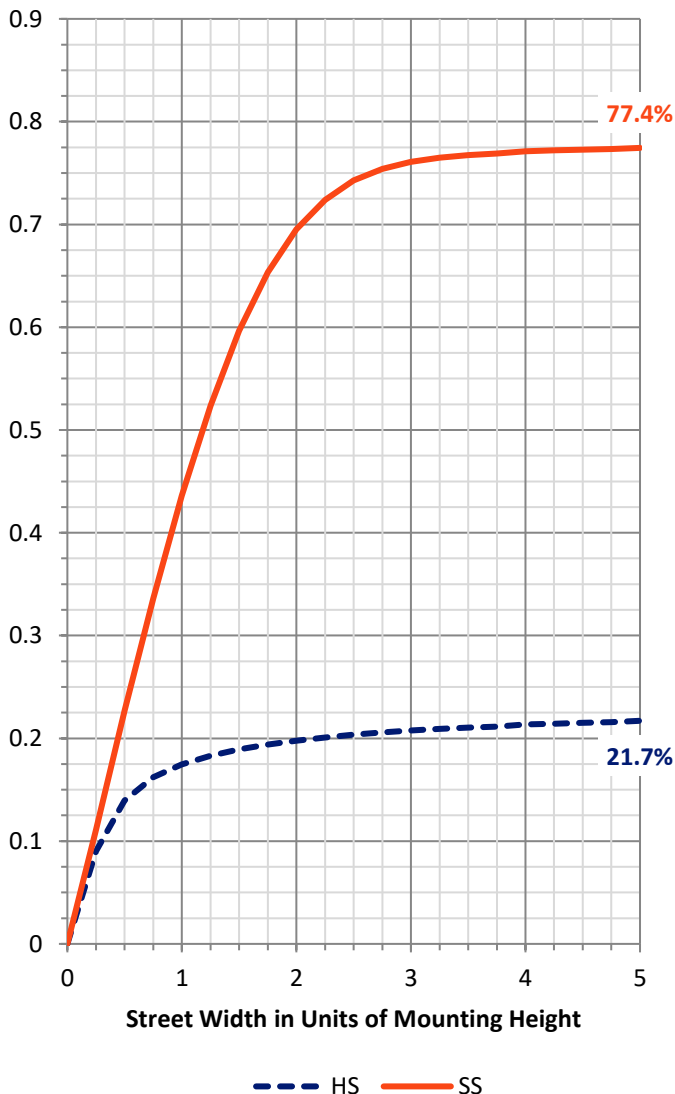
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3900.8	0.0	3900.8
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	13615.1	0.0	13615.1
	% Fixture	77.7	0.0	77.7
Total	Lumens	17515.9	0.0	17515.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.9	1.3
10°-20°	723.2	4.1
20°-30°	1262.5	7.2
30°-40°	1813.5	10.4
40°-50°	2509.8	14.3
50°-60°	3677.1	21.0
60°-70°	4483.1	25.6
70°-80°	2478.6	14.2
80°-90°	343.3	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°	17515.9	100.0
0°-180°	17515.9	100.0



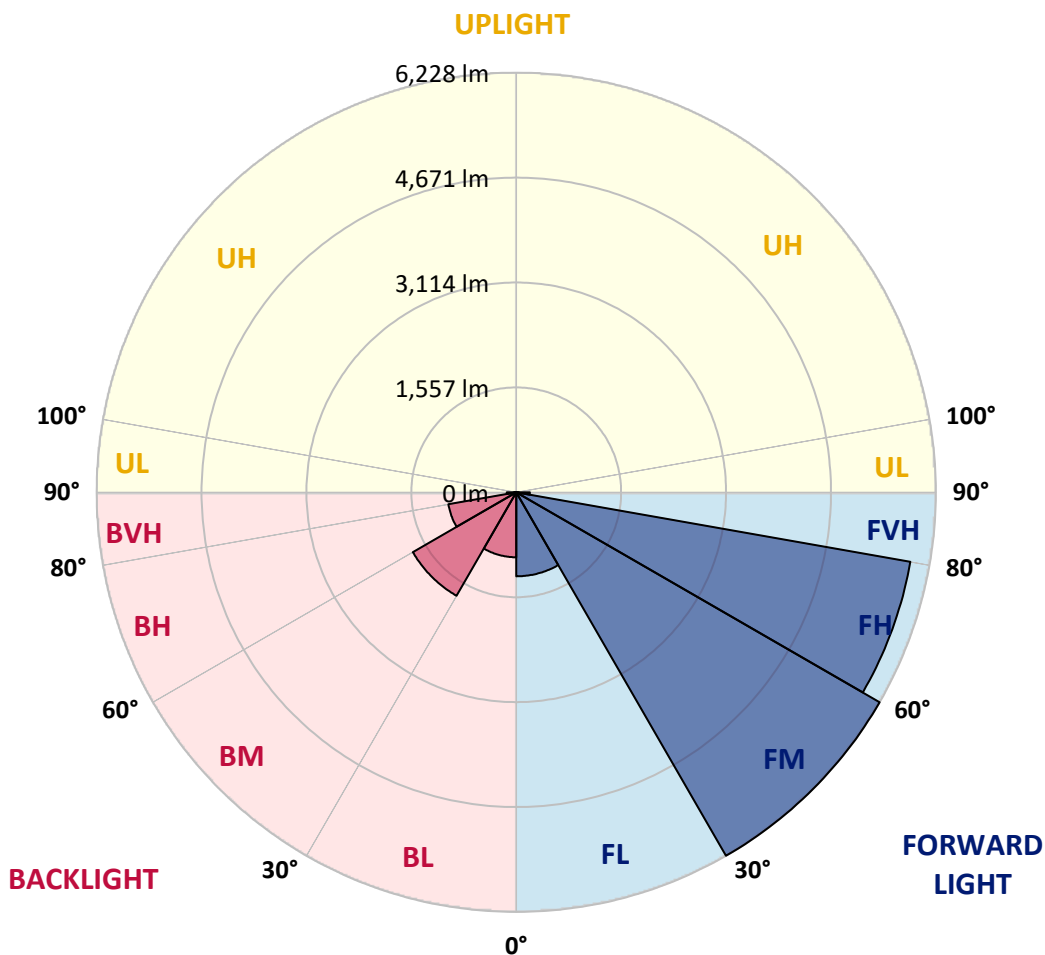
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1246.6	7.1			
FM (30°-60°)	6227.6	35.6			
FH (60°-80°)	5938.8	33.9			G3/7500
FVH (80°-90°)	202.2	1.2			G2/225
BL (0°-30°)	964.0	5.5	B2/1000		
BM (30°-60°)	1772.8	10.1	B2/2500		
BH (60°-80°)	1022.9	5.8	B3/2500		G3/2500
BVH (80°-90°)	141.1	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2289.9	2289.9	2289.9	2289.9	2289.9	2289.9	2289.9	2289.9	2289.9	2289.9	2289.9
2.5°	2304.5	2306.8	2305.0	2309.9	2304.5	2308.0	2305.0	2305.0	2303.3	2297.8	2291.8
5°	2340.6	2345.5	2342.5	2347.2	2340.6	2341.8	2336.4	2336.4	2331.0	2319.5	2307.4
7.5°	2397.3	2402.7	2400.3	2405.2	2396.1	2396.1	2388.9	2388.3	2377.4	2358.8	2344.9
10°	2465.0	2472.1	2469.7	2477.0	2469.7	2472.1	2465.0	2465.0	2450.4	2423.9	2406.4
12.5°	2563.2	2572.4	2565.7	2565.1	2562.0	2566.9	2560.8	2559.7	2546.4	2510.1	2486.0
15°	2694.8	2704.5	2690.6	2689.4	2672.5	2670.7	2670.7	2668.9	2660.4	2617.0	2577.1
17.5°	2846.3	2849.3	2837.2	2817.9	2796.2	2782.3	2780.5	2785.3	2785.3	2734.7	2671.3
20°	2994.7	3000.1	2990.5	2968.7	2941.0	2920.5	2906.1	2915.7	2915.1	2854.7	2764.8
22.5°	3156.5	3169.1	3154.6	3126.8	3094.3	3071.3	3046.0	3054.5	3055.1	2980.9	2856.5
25°	3365.8	3354.3	3345.3	3306.1	3259.6	3236.1	3212.5	3221.0	3218.6	3116.6	2951.2
27.5°	3551.1	3553.5	3541.4	3499.7	3446.1	3394.2	3393.0	3398.4	3389.3	3257.8	3040.6
30°	3766.5	3767.6	3750.8	3713.4	3654.8	3587.9	3572.2	3581.2	3562.0	3391.8	3134.8
32.5°	3980.7	3986.7	3968.0	3922.7	3875.7	3794.2	3762.9	3768.9	3720.6	3528.7	3231.8
35°	4168.4	4176.8	4170.7	4140.6	4089.3	4019.3	3981.9	3978.3	3918.6	3696.5	3360.4
37.5°	4359.6	4367.5	4360.9	4335.5	4315.0	4240.8	4220.8	4220.8	4117.1	3867.9	3524.0
40°	4556.4	4568.4	4560.6	4525.6	4508.0	4474.3	4426.6	4415.2	4302.9	4073.7	3790.7
42.5°	4739.2	4754.9	4786.2	4765.7	4730.1	4735.0	4639.0	4633.0	4550.9	4377.7	4125.5
45°	4998.7	5021.6	5074.7	5059.0	5051.8	5025.2	4911.1	4905.7	4874.3	4786.9	4541.3
47.5°	5281.7	5313.0	5408.9	5412.0	5489.8	5439.8	5284.7	5265.9	5273.2	5276.8	5048.7
50°	5542.3	5576.7	5734.2	5808.4	5991.9	6002.7	5754.7	5737.8	5766.2	5849.5	5640.1
52.5°	5750.5	5793.9	5990.7	6219.9	6534.3	6623.6	6333.4	6320.7	6341.8	6485.4	6308.6
55°	5903.1	5950.3	6164.4	6582.0	7084.0	7241.5	6999.6	6987.4	7000.8	7183.6	7035.8
57.5°	5938.8	5950.3	6260.9	6825.7	7548.1	7926.4	7814.8	7790.6	7725.4	7884.7	7838.3
60°	5771.6	5817.5	6181.3	6911.4	7907.1	8601.6	8666.7	8636.6	8453.8	8584.1	8546.7
62.5°	5432.5	5514.6	5883.8	6781.1	8047.6	9153.1	9502.5	9466.3	9151.3	9235.8	9055.9
65°	4878.6	4913.5	5301.5	6331.5	7869.1	9506.1	10247.7	10229.6	9833.1	9701.0	9150.1
67.5°	3887.7	3953.6	4283.0	5392.1	7138.4	9464.5	10823.9	10822.2	10278.5	9873.6	8816.4
69°	3071.3	3139.5	3453.3	4441.7	6316.5	9083.7	10920.5	10941.6	10404.0	9768.6	8339.7
70°	2448.7	2527.7	2743.1	3741.1	5587.0	8581.7	10840.2	10878.2	10379.9	9595.4	7899.8
72.5°	1042.1	1106.0	1259.4	1928.5	3405.1	6408.2	9911.6	10055.2	9820.5	8782.0	6528.8
75°	455.0	474.9	544.3	786.2	1511.5	3487.7	7764.6	8030.1	8397.1	7423.1	4863.5
77.5°	333.1	341.5	379.5	461.6	678.3	1317.2	4993.2	5147.7	6055.8	5401.8	2983.3
80°	257.7	263.7	293.3	339.1	442.9	532.8	2277.3	2410.0	3405.1	2774.5	1242.4
82.5°	205.1	209.4	229.9	249.8	305.9	322.8	756.0	838.8	1256.9	766.3	328.8
85°	190.7	195.5	202.7	182.2	196.1	189.5	327.1	342.2	379.5	301.1	137.6
87.5°	86.3	102.0	200.9	141.8	104.4	83.3	134.0	140.0	157.5	158.1	60.9
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°	2289.9	2289.9	2289.9	2289.9	2289.9	2289.9	2289.9	2289.9	2289.9	2289.9	2289.9
2.5°	2295.3	2293.6	2296.5	2289.4	2298.4	2297.8	2294.8	2296.0	2302.0	2301.4	2302.0
5°	2309.2	2308.0	2311.6	2306.2	2317.1	2320.7	2321.3	2326.7	2333.3	2335.2	2335.2
7.5°	2344.2	2344.2	2346.0	2338.8	2346.0	2345.5	2342.5	2347.9	2354.5	2355.1	2354.5
10°	2404.6	2405.2	2402.2	2383.5	2377.4	2361.1	2346.0	2346.7	2355.1	2361.8	2363.5
12.5°	2480.6	2478.2	2465.0	2430.5	2405.2	2372.0	2356.3	2355.7	2364.2	2369.6	2371.4
15°	2567.5	2560.8	2526.5	2470.4	2425.7	2393.1	2367.8	2361.8	2356.9	2350.9	2351.5
17.5°	2649.6	2634.5	2577.1	2499.3	2452.3	2408.8	2359.9	2320.7	2293.6	2277.9	2273.1
20°	2732.9	2703.3	2620.6	2526.5	2466.7	2387.6	2293.6	2213.9	2164.5	2141.5	2137.2
22.5°	2808.9	2761.2	2661.1	2554.9	2455.3	2316.5	2168.6	2052.8	1984.0	1953.3	1955.7
25°	2883.0	2816.7	2703.3	2574.7	2397.3	2191.0	1994.9	1852.5	1772.8	1738.5	1737.2
27.5°	2948.3	2872.8	2749.1	2558.5	2289.4	2012.3	1789.1	1650.3	1583.9	1554.4	1549.5
30°	3023.1	2943.4	2810.1	2496.3	2131.3	1806.0	1588.2	1490.4	1443.3	1413.8	1408.3
32.5°	3114.2	3039.4	2860.1	2383.5	1929.1	1590.6	1431.3	1363.1	1320.3	1287.0	1281.1
35°	3246.9	3166.1	2872.8	2221.7	1707.1	1420.4	1316.0	1246.0	1188.1	1145.2	1141.1
37.5°	3413.5	3324.8	2843.8	2012.3	1491.6	1310.0	1220.0	1133.8	1058.4	998.1	988.4
40°	3653.6	3519.7	2763.6	1771.0	1333.0	1224.9	1126.5	1028.2	934.7	864.1	850.2
42.5°	3942.0	3748.4	2640.6	1530.8	1216.5	1138.6	1033.6	911.7	822.5	772.3	765.1
45°	4309.0	3986.1	2469.7	1320.8	1101.8	1052.4	933.5	821.3	765.7	728.9	722.9
47.5°	4727.7	4252.8	2290.6	1150.1	1004.7	971.5	853.2	780.8	736.8	707.8	702.4
50°	5242.4	4554.0	2100.5	1010.1	907.0	874.4	815.2	758.5	723.5	701.2	695.8
52.5°	5822.9	4893.6	1963.5	899.7	826.1	802.5	795.3	746.4	718.0	701.2	695.8
55°	6448.1	5239.4	1815.7	806.7	756.0	762.8	782.0	747.7	728.3	707.8	700.0
57.5°	7073.8	5596.6	1650.9	728.3	700.5	733.1	773.0	750.1	733.8	713.8	706.6
60°	7568.5	5822.9	1395.6	662.5	656.6	700.5	751.2	731.9	710.8	711.4	710.2
62.5°	7799.7	5810.8	1113.9	604.0	612.5	656.6	716.3	703.6	686.1	709.7	711.4
65°	7669.9	5521.2	867.1	550.9	565.4	610.6	680.0	689.7	695.8	741.0	747.0
67.5°	7125.7	4957.6	671.6	504.4	522.6	579.2	683.7	751.2	759.1	806.7	806.2
69°	6562.7	4429.0	583.5	480.3	501.5	587.2	730.7	790.5	760.9	811.6	804.4
70°	6090.8	4010.9	536.4	464.0	491.8	601.0	762.1	789.9	751.9	795.3	783.2
72.5°	4690.9	2885.5	455.0	433.8	459.2	575.0	771.1	772.3	730.7	739.2	718.7
75°	3217.4	1823.5	397.0	392.8	409.7	518.3	742.2	738.0	675.8	663.7	646.9
77.5°	1774.0	926.2	337.3	353.6	365.1	459.2	674.6	668.6	617.2	591.9	585.9
80°	684.2	405.5	284.8	314.4	321.7	397.7	591.3	585.9	543.1	510.5	501.5
82.5°	258.2	212.4	235.3	272.1	269.7	328.3	500.8	497.8	456.2	408.5	394.0
85°	119.5	127.3	186.5	224.5	207.0	243.1	400.7	406.1	355.4	298.7	298.7
87.5°	50.7	71.2	132.2	169.5	139.4	164.1	293.9	280.6	257.7	178.6	167.8
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)