

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: P317707

Luminaire Tested: **GAN-SA3A-730-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317707
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3A-730-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13248 lumens
Efficiency: N/A
Efficacy: 138.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

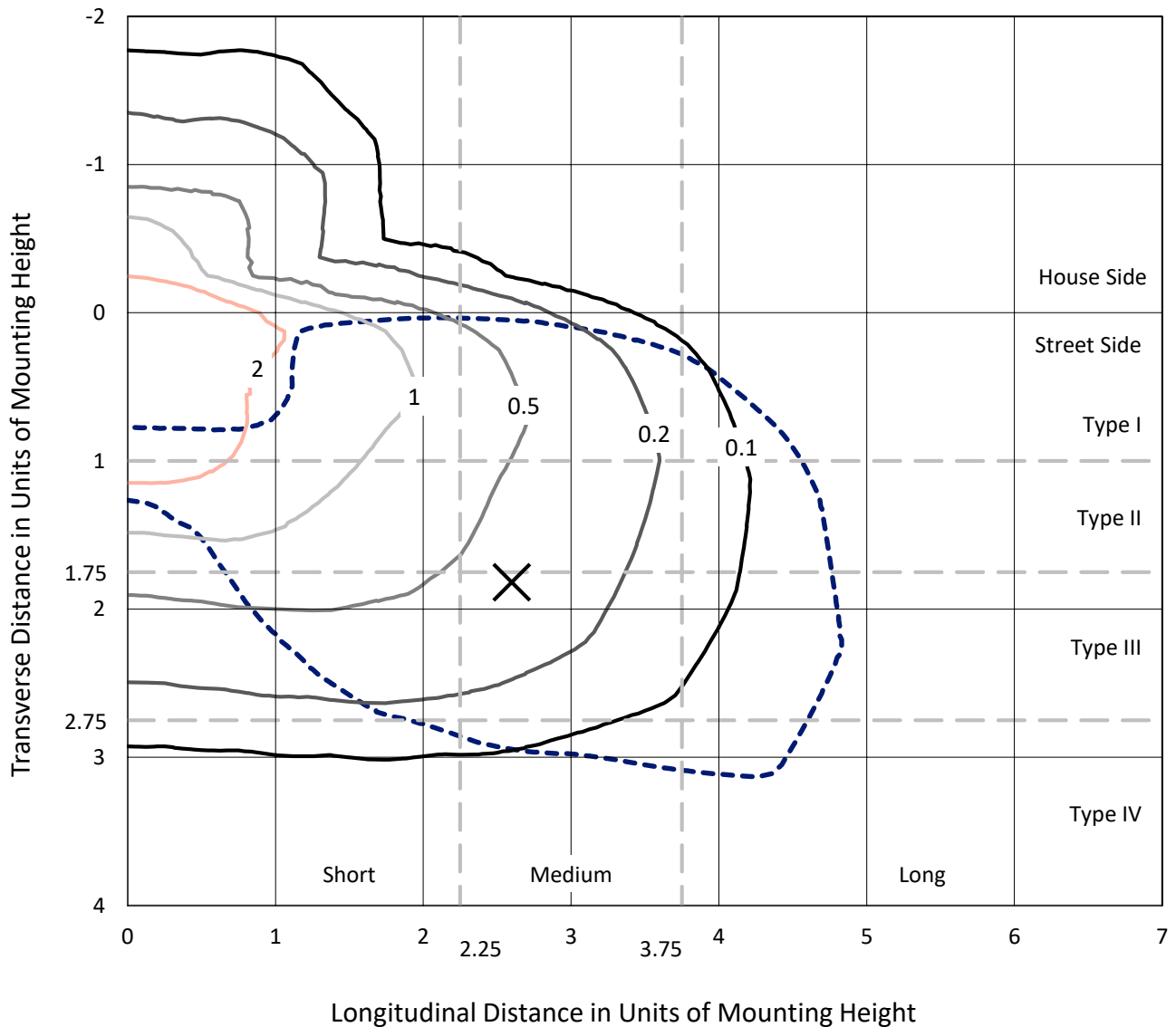
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P317707
 CATALOG NUMBER: GAN-SA3A-730-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

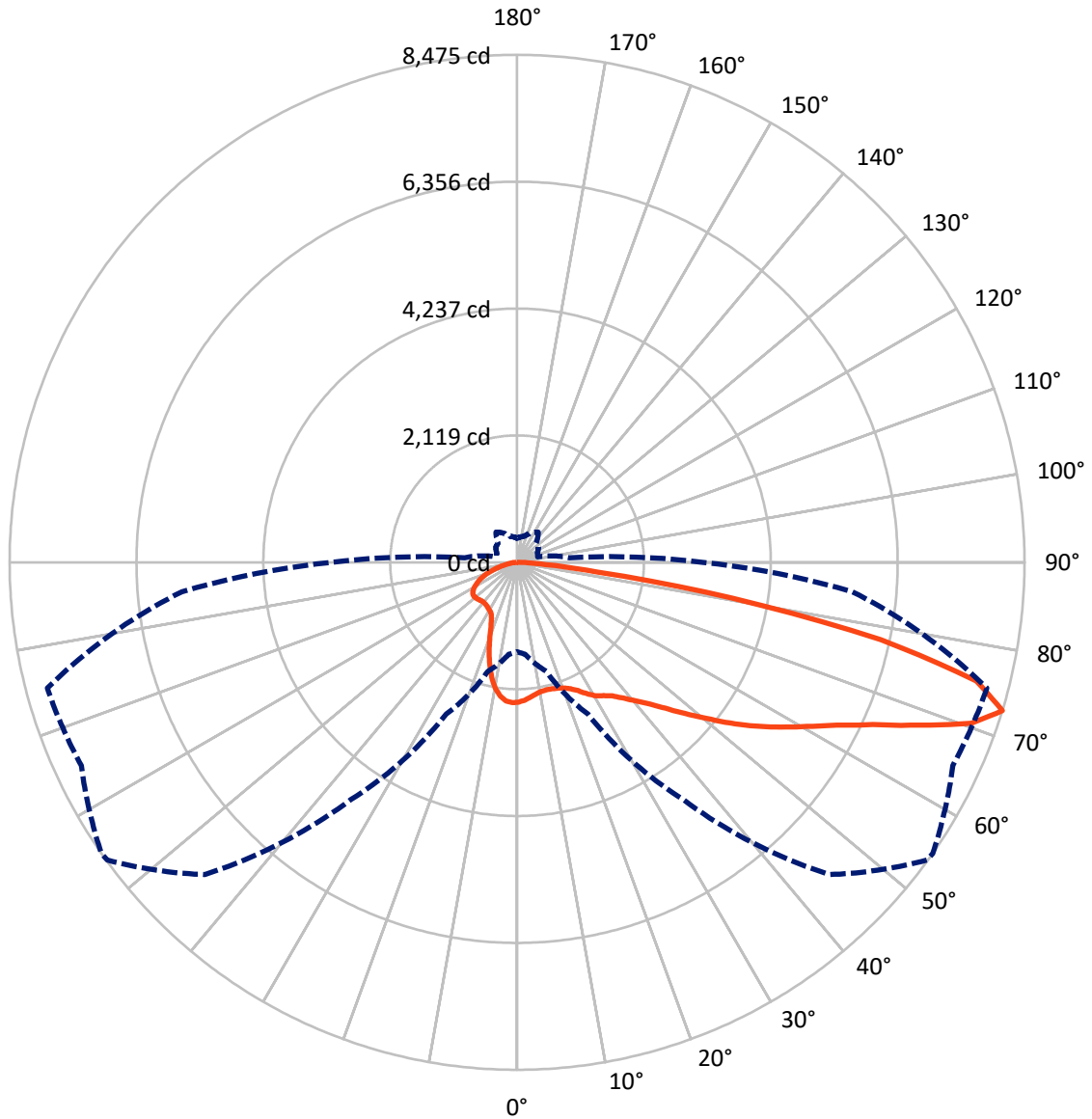
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Medium - N/A

REPORT NUMBER: P317707
CATALOG NUMBER: GAN-SA3A-730-U-T3R

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P317707
 CATALOG NUMBER: GAN-SA3A-730-U-T3R

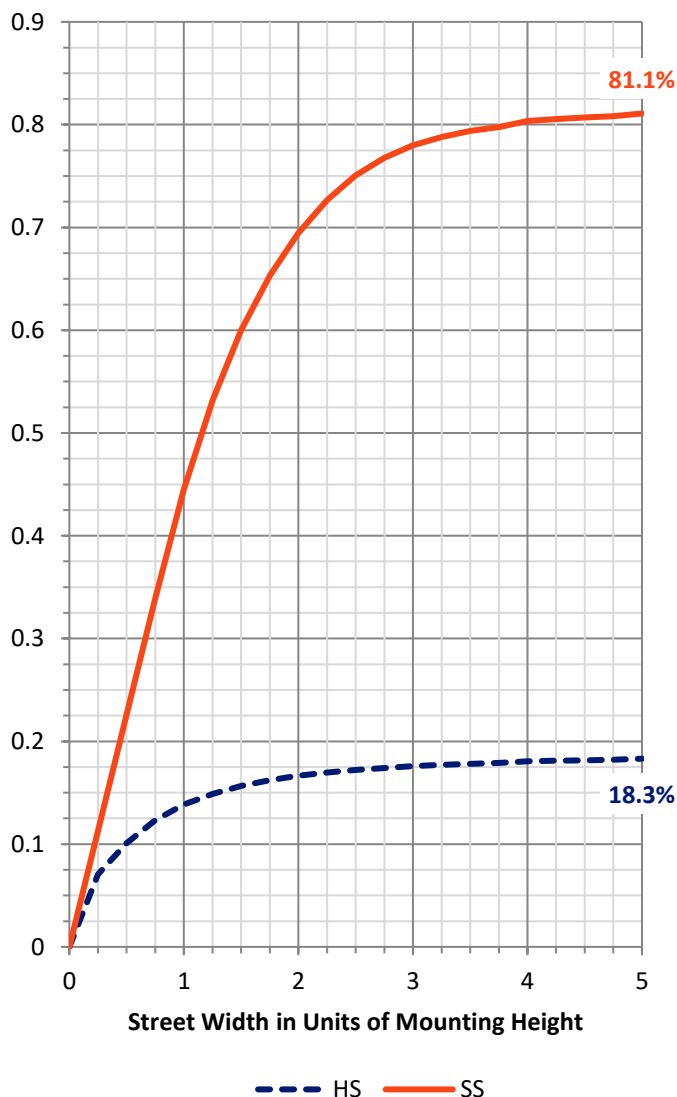
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2462.4	0.0	2462.4
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	10785.6	0.0	10785.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	13248.0	0.0	13248.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.4	1.6
10°-20°	562.9	4.2
20°-30°	928.1	7.0
30°-40°	1372.9	10.4
40°-50°	1916.3	14.5
50°-60°	2495.1	18.8
60°-70°	3066.4	23.1
70°-80°	2403.7	18.1
80°-90°	290.9	2.2
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°	13248.0	100.0
0°-180°	13248.0	100.0

Coefficient of Utilization

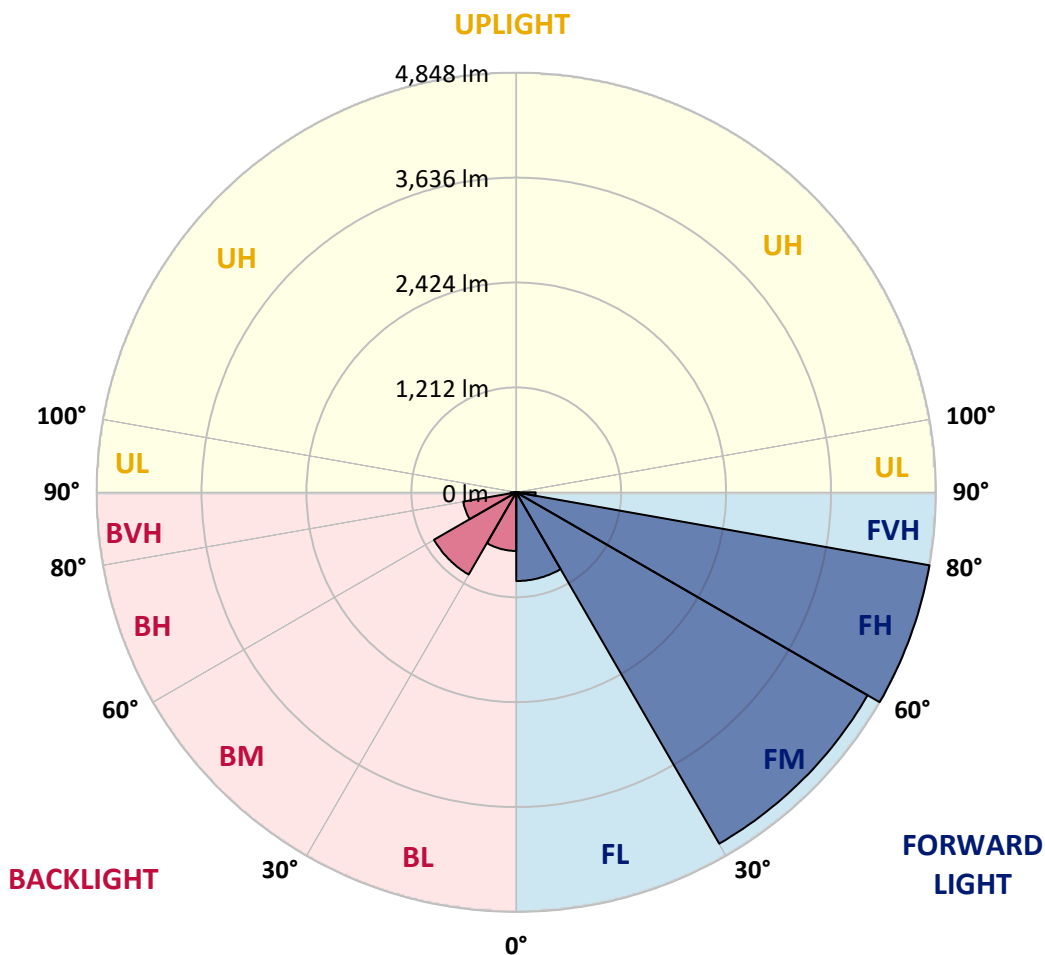


REPORT NUMBER: P317707
 CATALOG NUMBER: GAN-SA3A-730-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1025.0	7.7			
FM (30°-60°)	4687.4	35.4			
FH (60°-80°)	4848.3	36.6			G2/5000
FVH (80°-90°)	224.9	1.7			G2/225
BL (0°-30°)	677.5	5.1	B2/1000		
BM (30°-60°)	1097.0	8.3	B2/2500		
BH (60°-80°)	621.9	4.7	B2/1000		G2/1000
BVH (80°-90°)	66.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type IV Medium





REPORT NUMBER: P317707

CATALOG NUMBER: GAN-SA3A-730-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2336.7	2336.7	2336.7	2336.7	2336.7	2336.7	2336.7	2336.7	2336.7	2336.7	2336.7
2.5°	2260.6	2255.2	2261.9	2271.3	2281.6	2295.5	2303.5	2307.1	2321.0	2326.4	2338.0
5°	2155.9	2153.2	2164.4	2180.5	2203.3	2235.5	2261.5	2266.4	2303.1	2329.1	2352.8
7.5°	2079.8	2079.8	2092.8	2112.0	2137.5	2180.9	2217.6	2224.3	2286.5	2342.5	2386.3
10°	2019.4	2021.6	2036.9	2059.7	2089.7	2135.8	2184.5	2192.1	2282.1	2373.8	2443.6
12.5°	1979.1	1984.5	1998.4	2019.0	2056.1	2112.0	2173.8	2184.1	2291.5	2418.5	2512.5
15°	2004.6	2013.6	2014.9	2023.4	2044.0	2104.9	2180.0	2190.8	2311.6	2464.2	2590.8
17.5°	2116.5	2119.6	2105.8	2087.9	2078.0	2117.0	2198.8	2210.0	2335.8	2509.4	2666.0
20°	2286.5	2284.8	2254.8	2206.4	2156.3	2162.6	2229.7	2241.4	2368.4	2549.2	2741.2
22.5°	2501.3	2495.1	2449.0	2359.9	2274.5	2238.7	2283.9	2293.7	2417.7	2606.0	2821.7
25°	2761.8	2747.9	2687.0	2567.6	2441.8	2349.6	2365.3	2374.7	2489.2	2669.6	2895.5
27.5°	3036.5	3022.6	2945.2	2800.7	2633.3	2489.7	2477.6	2485.7	2570.7	2716.6	2950.1
30°	3323.8	3309.0	3238.3	3076.3	2836.5	2634.7	2582.3	2585.5	2628.0	2742.1	2994.9
32.5°	3612.4	3598.5	3519.3	3331.4	3057.1	2790.4	2657.9	2653.9	2662.4	2768.5	3045.4
35°	3905.0	3910.4	3817.8	3609.7	3301.4	2963.6	2747.4	2738.9	2720.1	2822.6	3117.0
37.5°	4218.3	4214.7	4094.8	3877.3	3556.9	3151.5	2875.9	2874.5	2809.6	2925.1	3229.4
40°	4427.7	4429.9	4357.0	4151.1	3815.1	3359.6	3040.5	3037.4	2952.4	3078.6	3376.6
42.5°	4509.6	4524.3	4543.1	4412.5	4085.4	3600.8	3237.0	3232.5	3151.5	3298.7	3549.7
45°	4515.4	4544.9	4661.2	4644.7	4359.2	3876.8	3488.0	3475.5	3417.3	3591.4	3756.5
47.5°	4465.3	4495.7	4689.0	4783.0	4604.0	4168.1	3781.5	3771.7	3721.6	3957.4	3980.2
50°	4355.6	4384.7	4631.7	4850.5	4805.3	4448.2	4119.8	4093.9	4067.0	4380.2	4236.2
52.5°	4150.2	4206.2	4555.2	4866.6	4925.7	4697.0	4475.5	4458.5	4473.3	4826.4	4492.5
55°	3663.8	3726.5	4357.9	4853.2	5014.7	4906.0	4831.3	4830.4	4906.9	5294.4	4767.7
57.5°	3391.3	3435.6	3956.0	4830.4	5120.3	5113.6	5183.4	5191.9	5340.9	5804.1	5055.9
60°	3237.4	3283.9	3752.4	4745.8	5284.1	5382.1	5542.7	5559.8	5782.1	6368.3	5402.7
62.5°	3097.4	3148.4	3626.3	4573.5	5477.0	5766.0	5973.2	5988.4	6249.3	6948.2	5737.8
65°	2858.0	2915.7	3441.5	4460.3	5652.4	6266.7	6520.5	6530.8	6785.8	7555.9	5994.2
67.5°	2519.7	2572.5	3092.9	4210.2	5782.1	6874.9	7248.0	7253.9	7317.8	7985.0	6125.3
70°	2124.6	2144.7	2596.2	3693.8	5628.7	7443.6	8045.4	8046.8	7802.9	8259.8	6103.9
72.5°	1492.7	1540.2	1884.7	2796.2	4837.1	7374.2	8459.3	8474.5	8028.4	8121.0	5616.1
75°	915.5	965.6	1182.2	1694.5	3068.7	5799.6	7815.9	7921.5	7605.6	7240.9	4587.9
77.5°	612.1	630.9	771.4	988.0	1390.3	3336.7	6009.0	6207.7	6318.2	5280.5	2934.0
80°	341.4	377.2	511.5	613.9	618.4	1325.8	3603.0	3649.5	3515.3	2102.6	905.2
82.5°	180.8	200.5	341.4	360.7	337.4	443.9	1342.8	1344.2	1123.1	563.8	268.9
85°	140.1	156.6	234.0	220.2	172.3	196.9	443.0	467.2	382.1	230.9	87.7
87.5°	69.8	86.8	158.9	139.6	67.6	56.4	158.4	169.1	150.8	90.4	31.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P317707
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2336.7	2336.7	2336.7	2336.7	2336.7	2336.7	2336.7	2336.7	2336.7	2336.7	2336.7
2.5°	2342.5	2346.5	2351.4	2346.1	2344.3	2337.1	2325.0	2322.3	2316.1	2316.5	2320.1
5°	2363.1	2369.8	2367.1	2346.5	2321.9	2287.4	2251.6	2221.2	2201.1	2199.7	2198.4
7.5°	2402.4	2406.9	2385.9	2327.3	2258.4	2178.7	2103.5	2037.8	1997.9	1988.1	1985.8
10°	2464.2	2463.3	2405.6	2287.4	2150.1	2007.8	1887.0	1795.7	1742.4	1726.8	1722.7
12.5°	2533.1	2522.8	2412.3	2215.0	1997.0	1799.7	1646.7	1545.1	1489.6	1471.7	1467.2
15°	2604.2	2578.7	2395.7	2106.7	1809.1	1575.5	1414.9	1320.9	1290.9	1281.1	1279.3
17.5°	2670.5	2621.2	2348.3	1959.9	1594.8	1352.2	1226.9	1189.4	1196.5	1209.5	1209.9
20°	2735.4	2649.9	2272.2	1774.6	1368.8	1168.3	1125.8	1153.6	1187.6	1214.0	1217.6
22.5°	2799.3	2670.0	2174.2	1560.8	1166.5	1065.0	1094.9	1145.5	1184.4	1213.1	1218.0
25°	2853.0	2674.9	2039.1	1332.6	1026.0	1026.0	1080.2	1128.1	1166.5	1194.7	1199.7
27.5°	2872.7	2641.8	1848.5	1121.3	955.3	1008.1	1059.6	1099.4	1132.1	1162.1	1167.4
30°	2880.3	2580.5	1628.3	951.8	926.3	988.9	1031.9	1065.9	1096.7	1124.9	1129.8
32.5°	2881.7	2506.7	1394.7	855.6	906.1	968.8	997.4	1027.4	1060.5	1071.7	1073.5
35°	2890.2	2419.4	1148.6	806.3	887.3	950.0	972.8	994.3	940.6	944.6	948.2
37.5°	2914.8	2333.1	942.8	778.6	875.2	940.1	967.4	889.6	847.5	837.7	836.3
40°	2960.9	2240.9	790.2	756.2	870.8	945.0	933.0	830.5	758.0	703.9	695.8
42.5°	3024.9	2141.6	692.7	741.4	873.9	968.8	885.1	773.7	653.3	618.4	613.9
45°	3096.9	2037.3	639.9	731.2	884.6	987.1	875.2	698.0	604.5	578.1	575.9
47.5°	3166.7	1909.8	612.6	726.7	899.4	972.3	833.6	674.8	581.3	567.4	568.7
50°	3246.8	1794.8	596.0	721.8	912.4	962.9	786.6	662.7	572.3	589.3	607.2
52.5°	3314.4	1675.8	581.3	711.9	917.3	946.4	774.6	664.9	572.3	605.0	622.0
55°	3394.5	1585.8	564.3	691.3	907.9	899.4	766.1	678.4	579.0	558.4	560.2
57.5°	3497.8	1556.3	545.5	659.1	876.6	830.9	762.0	691.3	575.0	562.0	566.5
60°	3641.0	1587.6	537.9	617.1	827.8	777.2	762.5	684.6	546.8	524.4	524.9
62.5°	3777.5	1622.5	537.4	590.7	767.8	729.4	752.2	662.7	532.5	519.5	524.4
65°	3822.2	1587.2	515.9	561.1	700.3	672.1	733.4	639.4	521.7	502.1	501.2
67.5°	3762.3	1477.5	472.5	513.2	622.9	605.4	708.8	611.7	504.7	488.6	485.9
70°	3584.2	1232.8	418.8	450.1	534.7	530.2	669.9	579.5	481.9	468.0	456.4
72.5°	3105.0	878.4	353.0	374.5	435.4	449.7	616.2	537.4	449.7	419.7	401.8
75°	2550.1	650.2	290.0	294.4	330.7	369.6	542.3	488.2	411.7	360.7	346.8
77.5°	1561.7	397.8	230.9	232.7	237.2	294.9	446.6	433.1	363.3	300.7	290.9
80°	505.6	217.0	166.9	175.4	162.0	216.1	345.4	368.7	311.9	251.5	240.7
82.5°	192.4	126.6	112.8	118.6	112.3	145.0	251.9	295.3	255.5	206.7	168.2
85°	93.1	71.6	66.7	74.7	69.4	74.3	161.1	217.5	193.8	134.7	125.3
87.5°	33.1	31.8	25.5	34.5	29.5	26.4	49.2	109.6	128.0	92.6	82.8
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)