

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P386847

Luminaire Tested: GAW-SA2C-735-U-T3

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386847
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
Product Line: STREETWORKS
Catalog Number: GAW-SA2C-735-U-T3
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13869.2 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

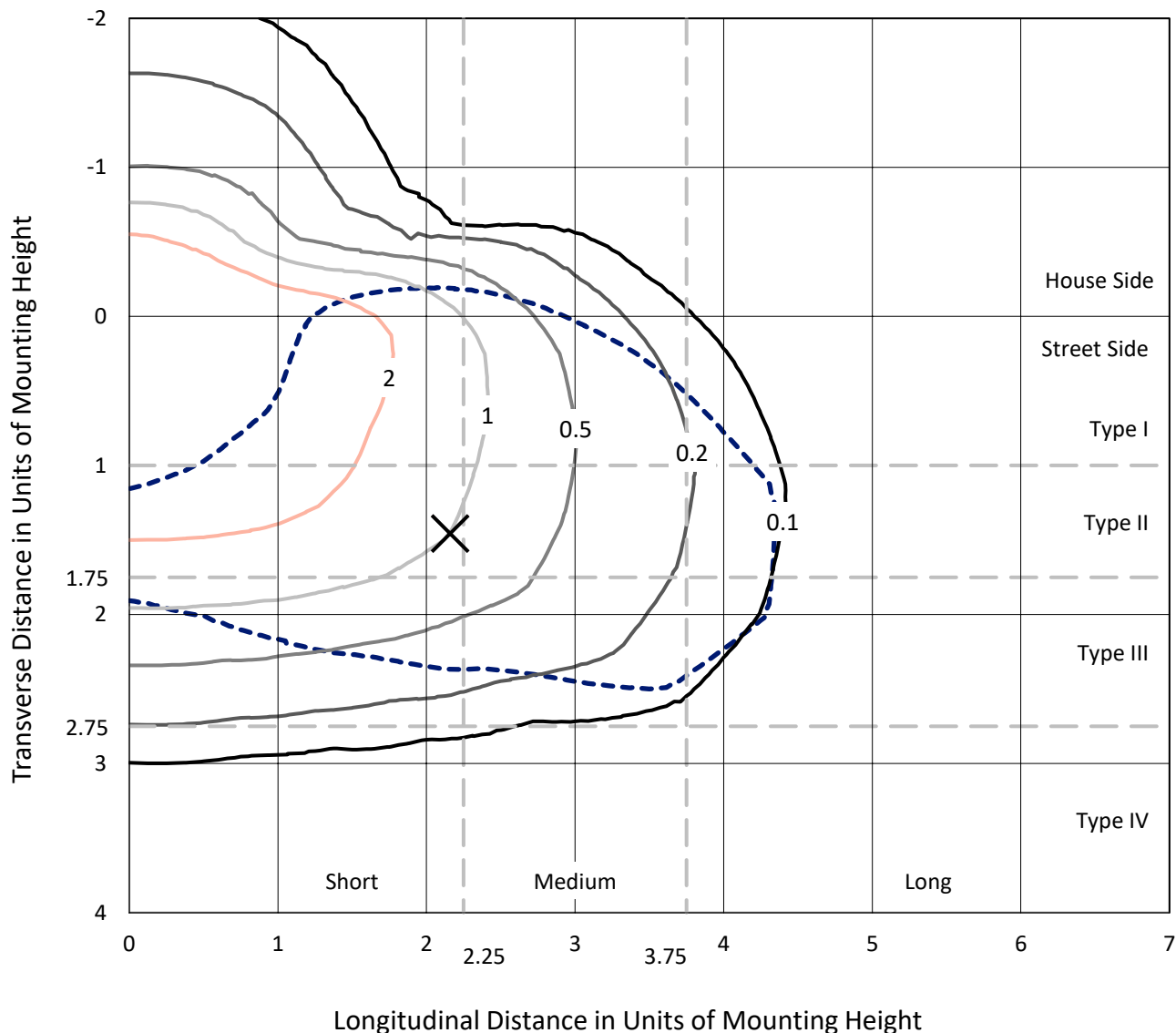
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P386847
 CATALOG NUMBER: GAW-SA2C-735-U-T3

Iso-Footcandle Lines of Horizontal Illumination

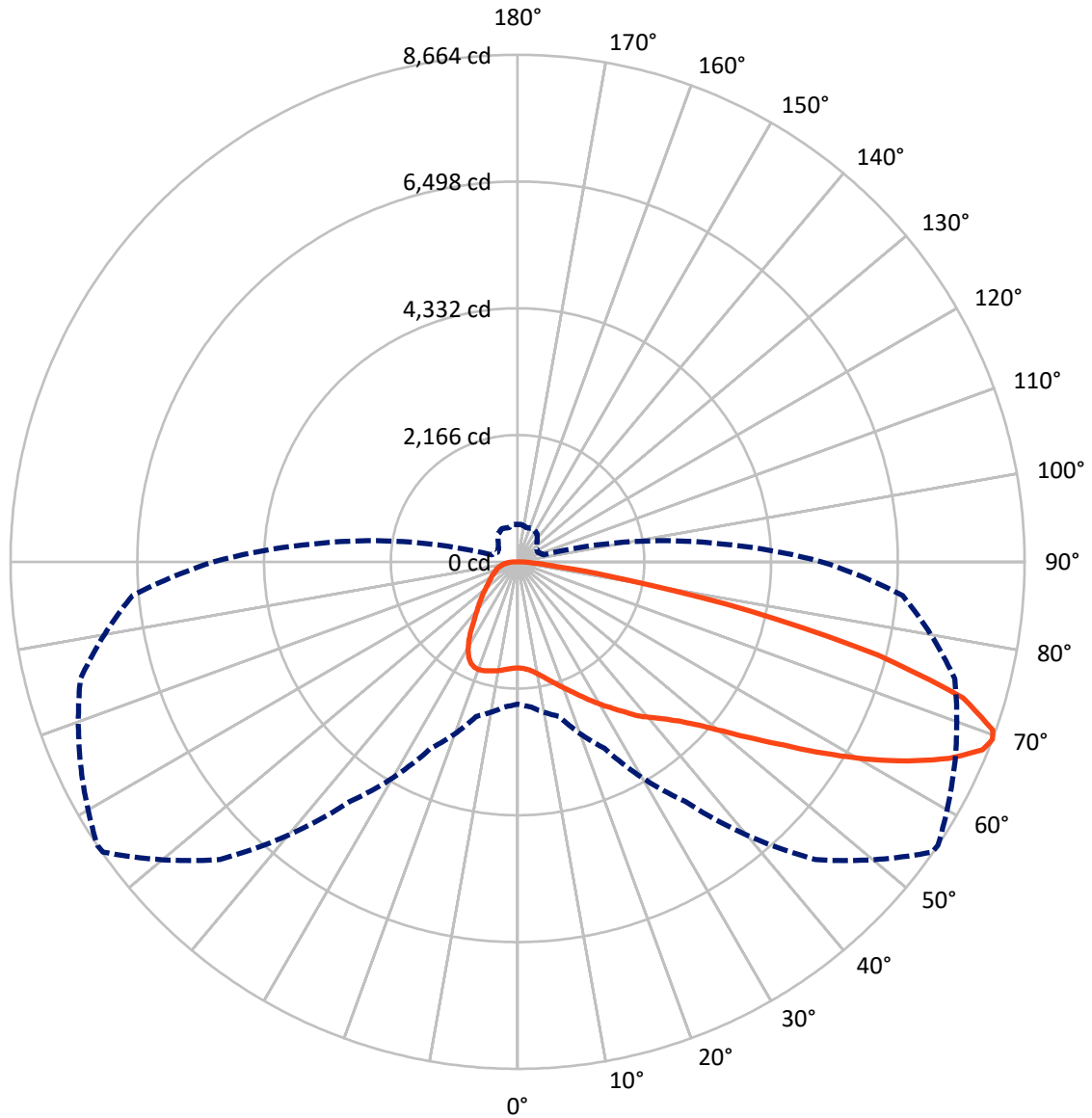
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Short - N/A

REPORT NUMBER: P386847
CATALOG NUMBER: GAW-SA2C-735-U-T3

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: GAW-SA2C-735-U-T3

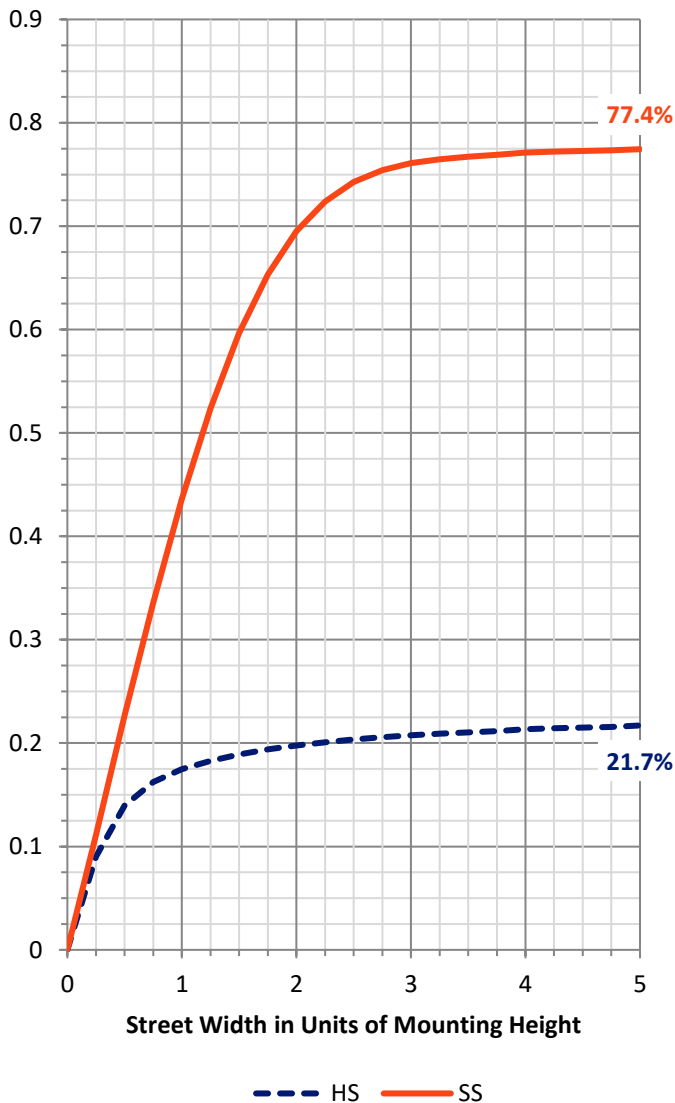
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3088.6	0.0	3088.6
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	10780.6	0.0	10780.6
	% Fixture	77.7	0.0	77.7
Total	Lumens	13869.2	0.0	13869.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.1	1.3
10°-20°	572.6	4.1
20°-30°	999.6	7.2
30°-40°	1435.9	10.4
40°-50°	1987.2	14.3
50°-60°	2911.6	21.0
60°-70°	3549.8	25.6
70°-80°	1962.5	14.2
80°-90°	271.8	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°	13869.2	100.0
0°-180°	13869.2	100.0



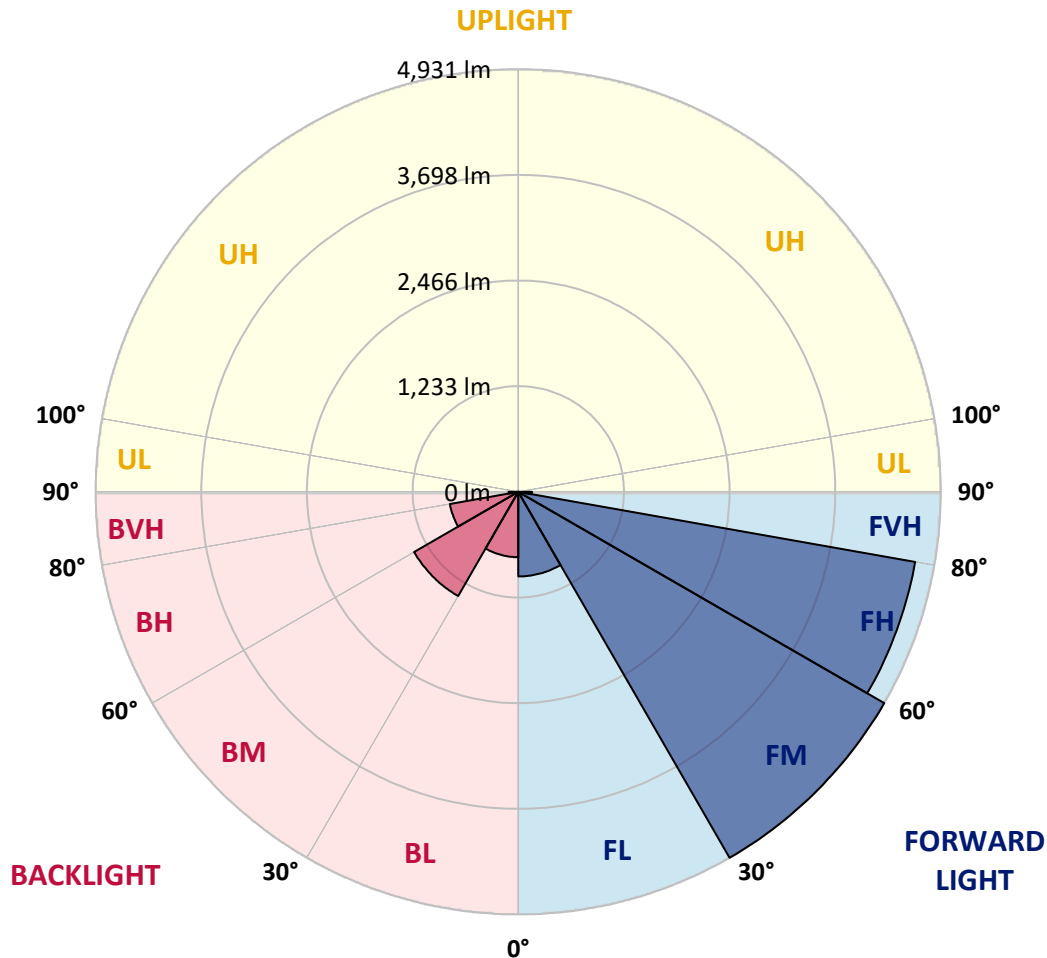
REPORT NUMBER: P386847
 CATALOG NUMBER: GAW-SA2C-735-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	987.1	7.1			
FM (30°-60°)	4931.0	35.6			
FH (60°-80°)	4702.4	33.9			G2/5000
FVH (80°-90°)	160.1	1.2			G2/225
BL (0°-30°)	763.3	5.5	B2/1000		
BM (30°-60°)	1403.7	10.1	B2/2500		
BH (60°-80°)	809.9	5.8	B2/1000		G2/1000
BVH (80°-90°)	111.7	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-G2

Type III Short





REPORT NUMBER: P386847

CATALOG NUMBER: GAW-SA2C-735-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1813.2	1813.2	1813.2	1813.2	1813.2	1813.2	1813.2	1813.2	1813.2	1813.2	1813.2
2.5°	1824.7	1826.6	1825.1	1829.0	1824.7	1827.5	1825.1	1825.1	1823.7	1819.4	1814.6
5°	1853.3	1857.2	1854.7	1858.6	1853.3	1854.3	1849.9	1849.9	1845.7	1836.6	1827.0
7.5°	1898.2	1902.6	1900.6	1904.4	1897.3	1897.3	1891.6	1891.1	1882.5	1867.7	1856.7
10°	1951.8	1957.5	1955.5	1961.3	1955.5	1957.5	1951.8	1951.8	1940.3	1919.3	1905.4
12.5°	2029.7	2036.8	2031.5	2031.1	2028.7	2032.5	2027.7	2026.7	2016.2	1987.6	1968.5
15°	2133.7	2141.4	2130.5	2129.5	2116.1	2114.7	2114.7	2113.3	2106.6	2072.1	2040.6
17.5°	2253.7	2256.1	2246.6	2231.2	2214.1	2203.1	2201.7	2205.4	2205.4	2165.3	2115.1
20°	2371.2	2375.5	2367.9	2350.7	2328.8	2312.5	2301.0	2308.7	2308.2	2260.4	2189.2
22.5°	2499.3	2509.3	2497.8	2475.9	2450.0	2431.9	2411.9	2418.6	2419.0	2360.2	2261.9
25°	2665.1	2656.0	2648.8	2617.8	2581.0	2562.4	2543.7	2550.5	2548.5	2467.8	2336.8
27.5°	2811.8	2813.7	2804.1	2771.1	2728.7	2687.5	2686.6	2690.9	2683.8	2579.6	2407.6
30°	2982.3	2983.3	2969.9	2940.3	2893.9	2840.9	2828.5	2835.7	2820.3	2685.6	2482.1
32.5°	3151.9	3156.7	3141.9	3106.1	3068.8	3004.3	2979.5	2984.3	2946.0	2794.0	2559.0
35°	3300.6	3307.2	3302.4	3278.6	3237.9	3182.5	3152.9	3150.1	3102.7	2926.9	2660.7
37.5°	3452.0	3458.2	3452.9	3432.9	3416.7	3357.9	3342.1	3342.1	3259.9	3062.6	2790.3
40°	3607.7	3617.3	3611.1	3583.4	3569.5	3542.7	3505.1	3496.0	3407.1	3225.5	3001.5
42.5°	3752.5	3764.9	3789.8	3773.5	3745.4	3749.2	3673.2	3668.4	3603.4	3466.4	3266.6
45°	3957.9	3976.1	4018.2	4005.8	4000.0	3979.0	3888.7	3884.4	3859.5	3790.3	3595.8
47.5°	4182.1	4206.9	4282.9	4285.2	4346.9	4307.2	4184.4	4169.6	4175.3	4178.2	3997.6
50°	4388.5	4415.7	4540.4	4599.2	4744.4	4753.0	4556.6	4543.3	4565.7	4631.7	4465.9
52.5°	4553.2	4587.7	4743.5	4925.0	5173.9	5244.6	5014.9	5004.8	5021.5	5135.2	4995.2
55°	4674.1	4711.4	4881.0	5211.7	5609.2	5733.9	5542.3	5532.7	5543.3	5688.0	5571.0
57.5°	4702.3	4711.4	4957.5	5404.7	5976.6	6276.2	6187.8	6168.6	6117.1	6243.2	6206.4
60°	4570.0	4606.3	4894.4	5472.5	6260.9	6810.8	6862.4	6838.5	6693.7	6797.0	6767.3
62.5°	4301.5	4366.5	4658.8	5369.3	6372.2	7247.5	7524.2	7495.5	7246.1	7313.0	7170.6
65°	3862.9	3890.6	4197.8	5013.4	6230.8	7527.0	8114.2	8099.8	7786.0	7681.3	7245.1
67.5°	3078.4	3130.4	3391.3	4269.5	5652.1	7494.0	8570.5	8569.1	8138.5	7818.0	6980.9
69°	2431.9	2485.9	2734.4	3517.0	5001.4	7192.6	8646.9	8663.7	8237.9	7734.9	6603.5
70°	1938.8	2001.5	2172.0	2962.3	4423.8	6795.0	8583.4	8613.5	8218.9	7597.7	6255.1
72.5°	825.2	875.8	997.2	1527.0	2696.2	5074.0	7848.1	7961.8	7775.9	6953.7	5169.6
75°	360.3	376.0	431.0	622.5	1196.9	2761.6	6148.1	6358.4	6648.8	5877.7	3851.0
77.5°	263.8	270.5	300.5	365.5	537.1	1043.0	3953.6	4075.9	4795.0	4277.2	2362.2
80°	204.0	208.8	232.2	268.5	350.7	421.9	1803.2	1908.3	2696.2	2196.9	983.7
82.5°	162.4	165.8	182.1	197.8	242.3	255.6	598.7	664.2	995.2	606.8	260.4
85°	151.0	154.8	160.5	144.3	155.3	150.0	259.0	270.9	300.5	238.4	109.0
87.5°	68.3	80.8	159.1	112.3	82.7	65.9	106.1	110.8	124.7	125.2	48.3
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: P386847
 CATALOG NUMBER: GAW-SA2C-735-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1813.2	1813.2	1813.2	1813.2	1813.2	1813.2	1813.2	1813.2	1813.2	1813.2	1813.2
2.5°	1817.4	1816.0	1818.5	1812.7	1819.9	1819.4	1817.0	1818.0	1822.7	1822.2	1822.7
5°	1828.4	1827.5	1830.4	1826.1	1834.7	1837.5	1838.0	1842.3	1847.6	1849.0	1849.0
7.5°	1856.1	1856.1	1857.7	1851.9	1857.7	1857.2	1854.7	1859.1	1864.3	1864.8	1864.3
10°	1904.0	1904.4	1902.1	1887.2	1882.5	1869.6	1857.7	1858.1	1864.8	1870.1	1871.5
12.5°	1964.2	1962.3	1951.8	1924.5	1904.4	1878.1	1865.7	1865.3	1871.9	1876.3	1877.7
15°	2032.9	2027.7	2000.4	1956.0	1920.7	1894.9	1874.8	1870.1	1866.2	1861.4	1861.9
17.5°	2097.9	2086.0	2040.6	1979.0	1941.7	1907.3	1868.6	1837.5	1816.0	1803.6	1799.8
20°	2163.9	2140.5	2075.0	2000.4	1953.2	1890.6	1816.0	1753.0	1713.8	1695.7	1692.3
22.5°	2224.1	2186.3	2107.1	2023.0	1944.1	1834.2	1717.1	1625.4	1570.9	1546.6	1548.5
25°	2282.8	2230.3	2140.5	2038.7	1898.2	1734.9	1579.6	1466.8	1403.7	1376.5	1375.6
27.5°	2334.5	2274.7	2176.8	2025.8	1812.7	1593.4	1416.6	1306.7	1254.2	1230.8	1226.9
30°	2393.7	2330.6	2225.0	1976.6	1687.5	1430.0	1257.6	1180.2	1142.9	1119.5	1115.2
32.5°	2465.8	2406.6	2264.7	1887.2	1527.5	1259.4	1133.3	1079.3	1045.4	1019.1	1014.4
35°	2570.9	2507.0	2274.7	1759.2	1351.7	1124.7	1042.1	986.6	940.8	906.8	903.5
37.5°	2702.8	2632.6	2251.8	1593.4	1181.1	1037.3	966.1	897.8	838.0	790.2	782.6
40°	2893.0	2786.9	2188.2	1402.3	1055.4	969.9	892.0	814.2	740.1	684.2	673.2
42.5°	3121.3	2968.0	2090.8	1212.1	963.3	901.5	818.4	721.9	651.2	611.5	605.8
45°	3411.9	3156.3	1955.5	1045.8	872.4	833.2	739.1	650.2	606.3	577.2	572.4
47.5°	3743.5	3367.4	1813.7	910.6	795.5	769.3	675.6	618.2	583.4	560.4	556.1
50°	4151.0	3605.9	1663.2	799.8	718.1	692.3	645.5	600.6	572.8	555.2	550.9
52.5°	4610.6	3874.8	1554.7	712.3	654.1	635.4	629.7	591.0	568.5	555.2	550.9
55°	5105.6	4148.6	1437.6	638.8	598.7	603.9	619.2	592.0	576.7	560.4	554.2
57.5°	5601.0	4431.4	1307.3	576.7	554.7	580.5	612.0	593.9	581.0	565.2	559.5
60°	5992.9	4610.6	1105.1	524.7	519.9	554.7	594.8	579.5	562.8	563.3	562.3
62.5°	6175.9	4601.1	882.0	478.2	484.9	519.9	567.1	557.1	543.3	561.9	563.3
65°	6073.1	4371.8	686.6	436.3	447.7	483.5	538.5	546.1	550.9	586.7	591.5
67.5°	5642.2	3925.4	531.8	399.4	413.8	458.7	541.4	594.8	601.0	638.8	638.3
69°	5196.4	3506.9	462.0	380.4	397.1	464.9	578.6	625.9	602.5	642.6	636.9
70°	4822.8	3175.8	424.8	367.4	389.4	475.9	603.5	625.4	595.3	629.7	620.2
72.5°	3714.3	2284.8	360.3	343.5	363.6	455.3	610.6	611.5	578.6	585.2	569.1
75°	2547.5	1443.8	314.4	311.0	324.4	410.4	587.7	584.3	535.1	525.6	512.2
77.5°	1404.7	733.4	267.1	279.9	289.1	363.6	534.1	529.3	488.8	468.7	464.0
80°	541.8	321.1	225.5	248.9	254.7	314.9	468.2	464.0	430.0	404.2	397.1
82.5°	204.5	168.2	186.4	215.5	213.5	259.9	396.5	394.2	361.2	323.4	312.0
85°	94.6	100.8	147.7	177.7	163.9	192.6	317.2	321.6	281.4	236.5	236.5
87.5°	40.1	56.4	104.6	134.2	110.4	129.9	232.7	222.2	204.0	141.4	132.8
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)