

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: P386781

Luminaire Tested: GAW-SA2C-727-U-SL4

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386781
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2C-727-U-SL4
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11728 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

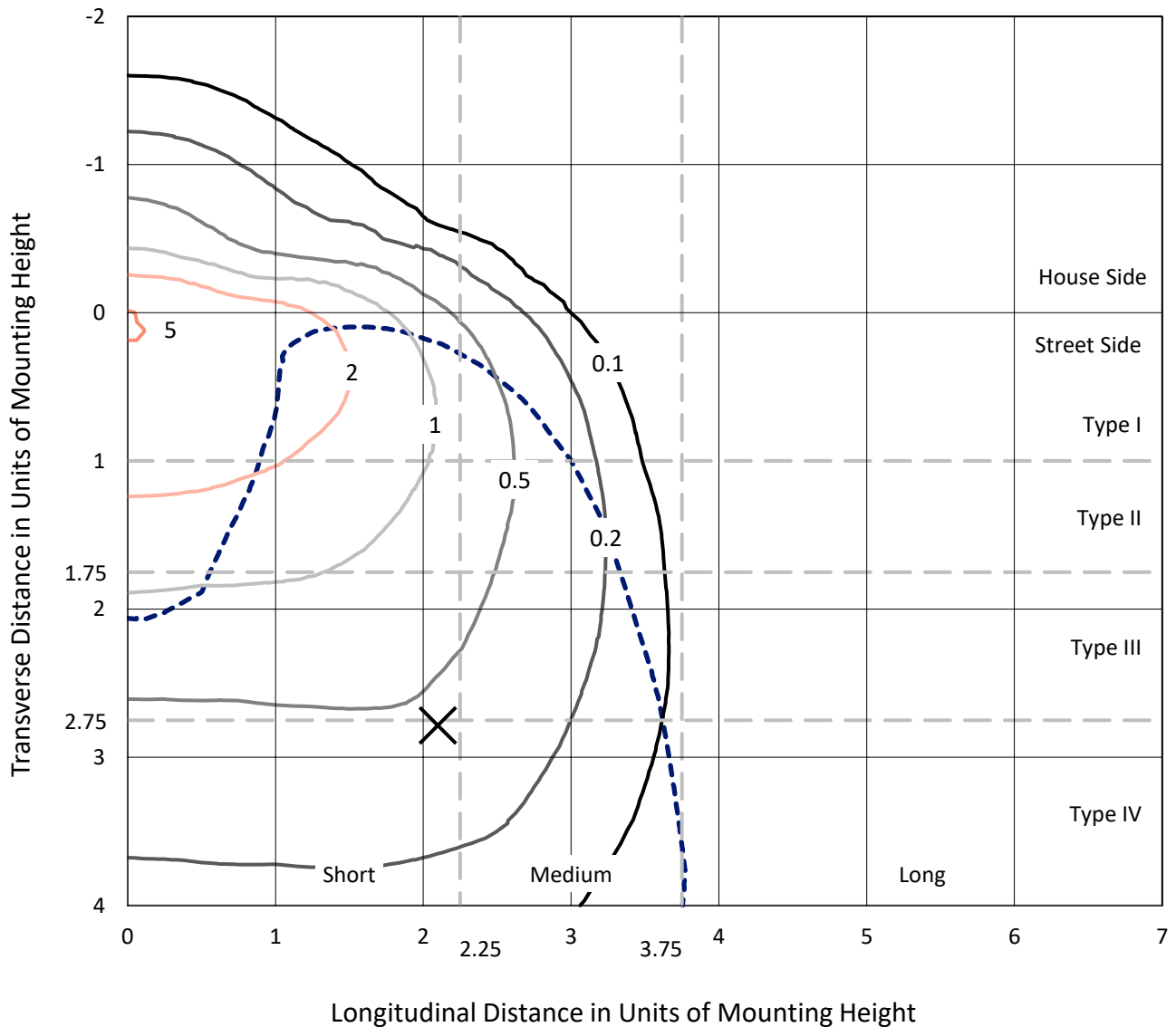
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

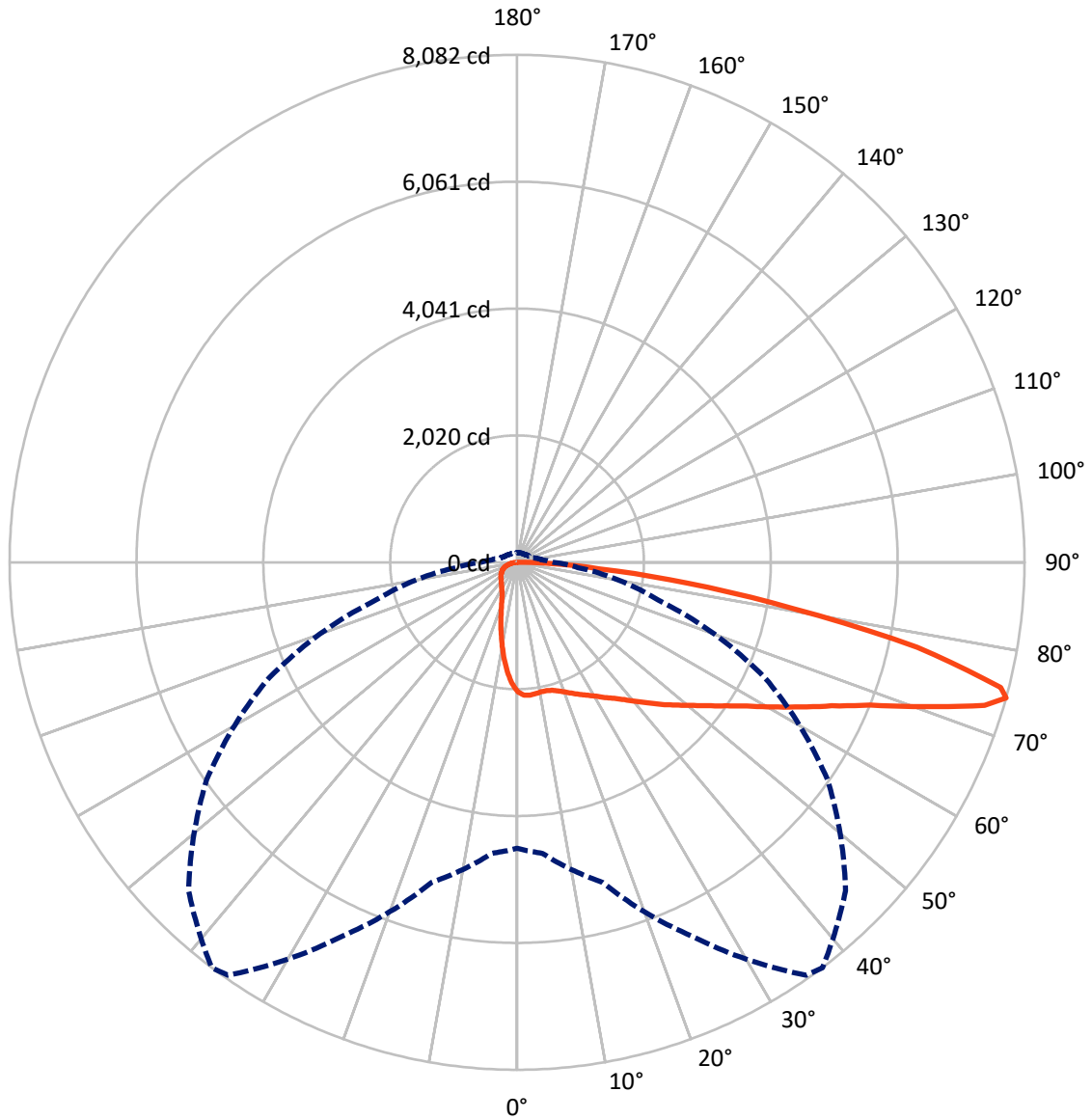
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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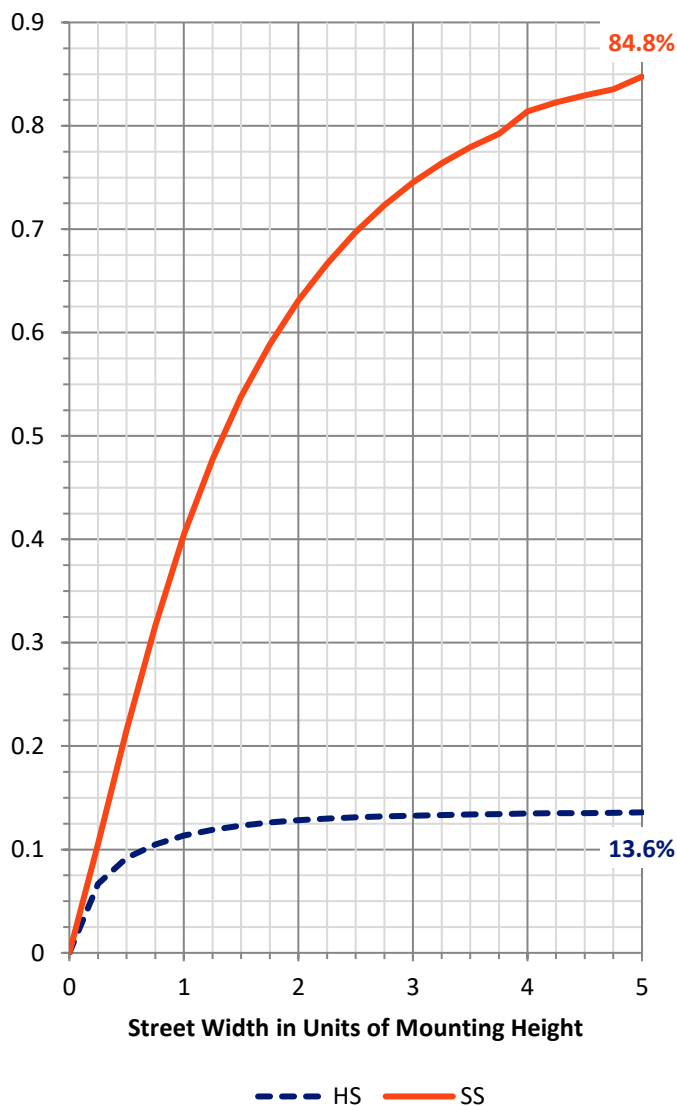
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1613.7	0.0	1613.7
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	10114.3	0.0	10114.3
	% Fixture	86.2	0.0	86.2
Total	Lumens	11728.0	0.0	11728.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.0	1.6
10°-20°	466.4	4.0
20°-30°	718.7	6.1
30°-40°	1045.1	8.9
40°-50°	1538.2	13.1
50°-60°	2160.1	18.4
60°-70°	2734.0	23.3
70°-80°	2407.4	20.5
80°-90°	476.0	4.1
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°	11728.0	100.0
0°-180°	11728.0	100.0

Coefficient of Utilization

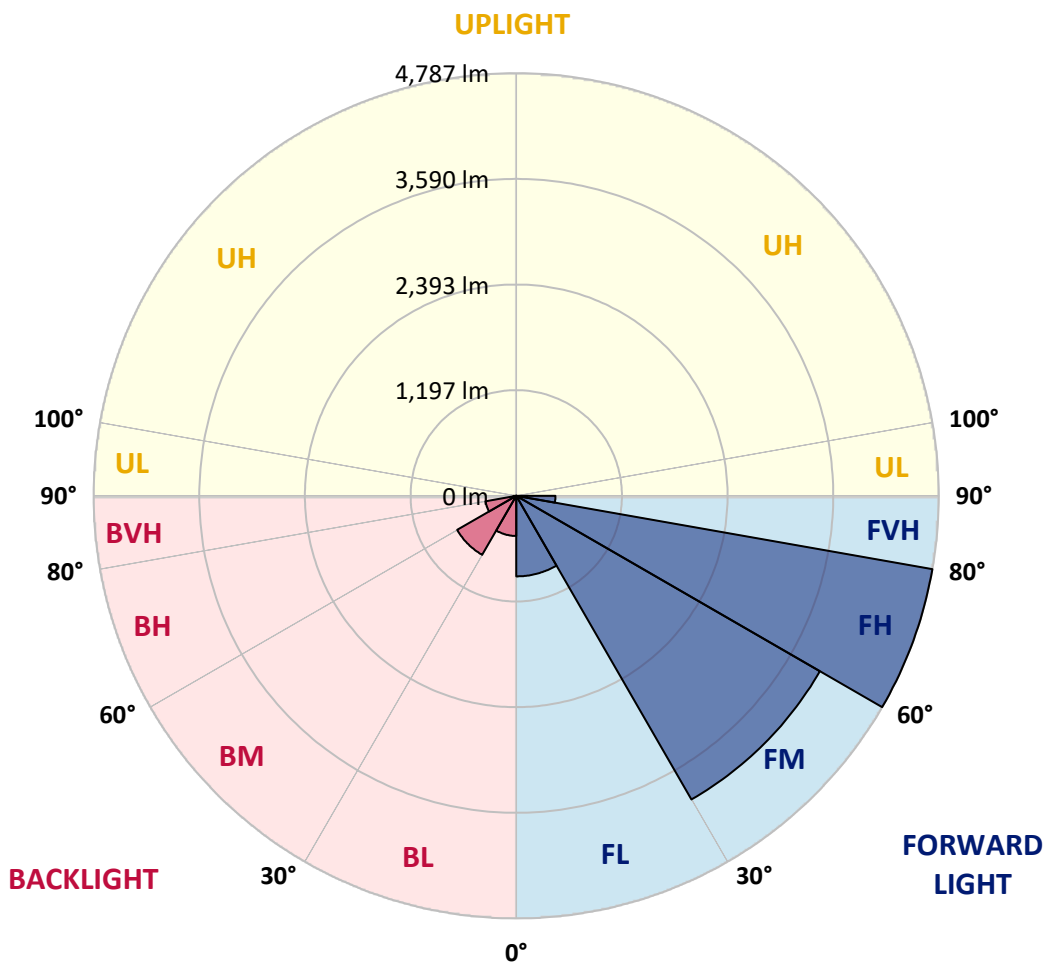


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	912.6	7.8			
FM (30°-60°)	3971.2	33.9			
FH (60°-80°)	4786.8	40.8			G2/5000
FVH (80°-90°)	443.8	3.8			G3/500
BL (0°-30°)	454.5	3.9	B1/500		
BM (30°-60°)	772.2	6.6	B1/1000		
BH (60°-80°)	354.7	3.0	B1/500		G1/500
BVH (80°-90°)	32.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	2066.4	2066.4	2066.4	2066.4	2066.4	2066.4	2066.4	2066.4	2066.4	2066.4	2066.4
2.5°	2137.1	2137.5	2137.1	2133.8	2125.9	2119.3	2113.9	2106.1	2088.7	2075.5	2055.7
5°	2157.3	2154.8	2153.2	2147.0	2134.6	2127.2	2116.8	2102.0	2073.5	2047.0	2014.8
7.5°	2147.8	2144.9	2141.2	2133.8	2119.7	2113.5	2099.1	2079.6	2045.4	2010.7	1964.4
10°	2118.5	2117.7	2116.0	2114.4	2102.4	2097.4	2084.2	2063.5	2029.7	1987.5	1933.4
12.5°	2085.8	2087.9	2094.5	2103.2	2097.8	2095.3	2087.1	2073.0	2038.3	1992.9	1927.6
15°	2065.2	2071.0	2088.7	2111.5	2116.0	2115.2	2113.1	2104.0	2067.3	2016.9	1940.8
17.5°	2058.2	2067.7	2101.5	2139.1	2152.4	2155.2	2156.1	2140.4	2099.5	2046.2	1954.5
20°	2071.0	2083.0	2132.5	2184.2	2205.2	2206.9	2203.2	2175.9	2130.0	2071.4	1961.9
22.5°	2109.8	2120.5	2182.5	2240.8	2264.7	2267.2	2256.1	2214.7	2162.3	2101.1	1972.2
25°	2184.6	2197.8	2259.8	2318.0	2330.4	2330.8	2314.7	2263.5	2204.4	2142.9	1994.5
27.5°	2282.1	2295.3	2351.1	2408.1	2401.5	2397.8	2375.9	2324.6	2259.4	2200.3	2034.2
30°	2390.7	2405.2	2458.1	2498.6	2482.9	2475.4	2457.7	2391.6	2335.8	2278.8	2094.9
32.5°	2503.1	2516.3	2562.6	2590.3	2570.4	2567.1	2540.3	2480.0	2435.3	2398.6	2193.3
35°	2618.4	2627.9	2673.3	2689.0	2662.6	2661.7	2654.3	2598.9	2570.8	2588.2	2336.2
37.5°	2736.1	2738.6	2777.4	2778.2	2770.4	2773.7	2781.5	2746.8	2754.7	2808.8	2522.1
40°	2841.0	2847.6	2875.7	2884.4	2898.0	2909.6	2948.9	2926.1	2986.9	3082.7	2753.4
42.5°	2918.7	2931.5	2976.5	2998.8	3043.0	3061.2	3116.6	3137.6	3259.9	3403.7	3028.6
45°	2984.4	3004.2	3076.5	3122.4	3197.1	3228.9	3308.3	3378.9	3568.5	3752.0	3318.2
47.5°	3055.4	3080.6	3171.1	3258.7	3360.3	3396.3	3540.4	3646.2	3897.8	4102.3	3591.3
50°	3160.0	3179.4	3267.8	3405.4	3532.2	3578.4	3778.0	3929.6	4232.4	4436.1	3828.0
52.5°	3305.8	3298.4	3373.1	3566.1	3736.3	3793.3	4031.6	4231.2	4571.6	4738.1	4027.9
55°	3452.4	3440.1	3492.5	3734.2	3974.2	4034.1	4310.9	4534.0	4894.2	5009.9	4181.2
57.5°	3615.6	3592.1	3636.3	3923.8	4245.2	4316.7	4623.6	4855.8	5211.5	5229.7	4278.7
60°	3783.8	3752.0	3801.5	4158.9	4589.4	4673.6	4989.7	5169.8	5510.6	5405.7	4310.1
62.5°	3930.8	3908.5	3985.0	4421.2	4977.3	5069.8	5349.1	5503.6	5805.6	5478.8	4196.9
65°	4059.3	4063.0	4195.2	4716.2	5409.8	5508.5	5761.4	5915.1	6037.8	5435.4	3932.1
67.5°	4212.6	4233.7	4459.2	5104.5	5954.3	6062.5	6361.2	6363.7	6167.5	5180.9	3410.7
70°	4436.1	4479.5	4822.4	5643.2	6728.5	6877.2	7107.7	6627.3	5985.3	4491.0	2683.6
72.5°	4634.4	4715.4	5208.6	6259.6	7672.1	7784.8	7544.4	6475.2	5223.9	3365.7	1671.9
74°	4553.8	4654.2	5278.9	6563.2	8027.3	8081.5	7396.9	6031.6	4355.5	2330.8	971.7
75°	4380.3	4489.4	5176.4	6560.4	7982.3	7952.2	7040.8	5524.7	3587.1	1589.7	646.5
77.5°	3535.1	3650.3	4361.7	5622.6	6545.1	6516.6	5408.6	3706.1	1571.1	521.4	328.4
80°	2055.3	2143.3	2707.6	3570.6	4413.4	4465.0	3557.0	1833.8	618.0	292.9	222.7
82.5°	913.0	973.7	1307.9	1822.7	2663.4	2729.9	1862.8	960.9	381.7	178.1	133.9
85°	599.0	644.1	794.0	868.0	1268.3	1313.7	911.8	748.2	252.0	97.9	98.3
87.5°	430.9	474.3	589.9	515.2	582.1	551.1	496.2	692.4	101.2	55.8	33.0
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°	2066.4	2066.4	2066.4	2066.4	2066.4	2066.4	2066.4	2066.4	2066.4	2066.4	2066.4
2.5°	2047.0	2040.4	2025.5	1997.4	1981.7	1968.5	1946.6	1933.8	1928.0	1927.6	1930.1
5°	1996.2	1980.9	1942.5	1895.4	1857.8	1823.5	1781.0	1755.3	1737.2	1726.4	1729.3
7.5°	1937.1	1913.2	1852.8	1777.7	1717.3	1650.8	1585.1	1545.9	1515.3	1492.6	1496.7
10°	1896.6	1863.6	1775.6	1667.4	1567.0	1470.3	1379.8	1325.7	1282.7	1249.7	1252.2
12.5°	1883.0	1838.4	1716.5	1571.9	1431.0	1298.9	1180.7	1097.7	1053.5	1015.9	1018.8
15°	1885.1	1825.2	1666.9	1486.0	1308.8	1142.3	998.9	901.8	841.9	815.9	816.3
17.5°	1886.7	1809.9	1614.9	1393.9	1187.7	996.0	840.3	742.0	685.4	661.4	661.8
20°	1881.4	1785.1	1550.4	1288.1	1061.3	861.8	711.0	627.5	584.6	566.0	566.0
22.5°	1874.3	1755.8	1477.7	1181.9	936.5	745.3	618.4	554.8	530.0	517.6	517.2
25°	1877.6	1733.9	1403.4	1072.9	821.7	652.3	556.9	514.7	498.2	490.4	490.0
27.5°	1895.4	1723.5	1334.8	964.2	721.3	582.5	515.6	485.8	475.1	470.1	470.1
30°	1927.6	1723.5	1263.3	871.7	637.9	530.9	483.8	463.5	456.1	452.8	452.8
32.5°	1983.8	1733.0	1194.3	780.0	571.3	490.4	457.3	443.7	437.9	436.3	436.3
35°	2080.5	1765.3	1127.0	693.2	517.6	457.3	432.1	424.3	420.1	419.7	421.0
37.5°	2216.4	1830.9	1063.8	629.2	479.6	430.5	411.1	404.9	402.4	404.4	406.1
40°	2387.4	1920.2	1006.4	571.3	450.7	409.0	391.6	387.5	386.3	389.2	391.6
42.5°	2594.0	2040.8	959.3	529.6	428.4	390.8	375.1	370.2	368.9	372.2	375.5
45°	2817.5	2170.5	926.2	498.6	411.1	377.2	360.7	355.3	352.8	354.5	358.2
47.5°	3020.7	2293.2	913.0	476.7	394.5	365.6	347.8	341.2	337.1	336.3	339.2
50°	3192.2	2384.5	919.2	463.5	381.3	352.8	335.5	328.0	321.8	318.1	320.2
52.5°	3316.9	2442.0	925.0	457.7	371.0	338.8	321.8	314.8	306.5	300.3	300.3
55°	3407.4	2455.2	912.2	453.2	363.1	323.5	306.5	299.9	291.7	284.6	283.8
57.5°	3442.9	2418.0	864.7	446.6	357.8	309.0	290.4	285.5	278.4	270.2	269.8
60°	3395.0	2303.1	772.9	432.5	350.7	297.0	274.3	271.0	267.7	259.9	259.4
62.5°	3202.5	2051.1	654.4	404.0	336.7	284.2	259.4	261.1	261.5	256.1	255.3
65°	2853.4	1704.9	538.7	366.9	315.6	268.9	244.2	252.0	256.5	255.7	254.5
67.5°	2346.1	1326.9	456.5	327.6	287.9	247.9	227.6	236.7	240.4	243.3	242.5
70°	1741.3	935.7	377.6	286.3	254.5	223.1	206.1	210.7	208.2	211.5	212.8
72.5°	970.8	561.4	307.8	245.0	219.8	194.2	182.2	181.4	176.0	176.0	176.0
74°	582.5	411.9	270.6	219.4	198.7	175.2	164.8	161.1	156.2	156.6	156.2
75°	468.5	354.0	248.3	202.4	183.8	164.0	153.7	148.7	145.0	145.0	144.6
77.5°	295.8	268.9	200.0	161.1	147.1	135.1	128.1	121.5	121.5	121.0	120.6
80°	223.5	214.0	155.7	121.9	112.8	103.7	99.1	96.3	96.3	97.5	97.1
82.5°	153.3	161.1	109.5	85.1	80.6	73.9	73.1	73.5	72.3	70.6	70.2
85°	112.0	121.0	73.9	53.7	49.2	45.0	48.3	50.0	47.9	44.2	42.6
87.5°	43.0	79.3	39.7	22.3	20.7	17.8	20.7	21.5	23.1	18.2	18.6
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)