

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: P386949

Luminaire Tested: GAW-SA2C-830-U-SL4

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386949
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-830-U-SL4
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 3000K, 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: 11145 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

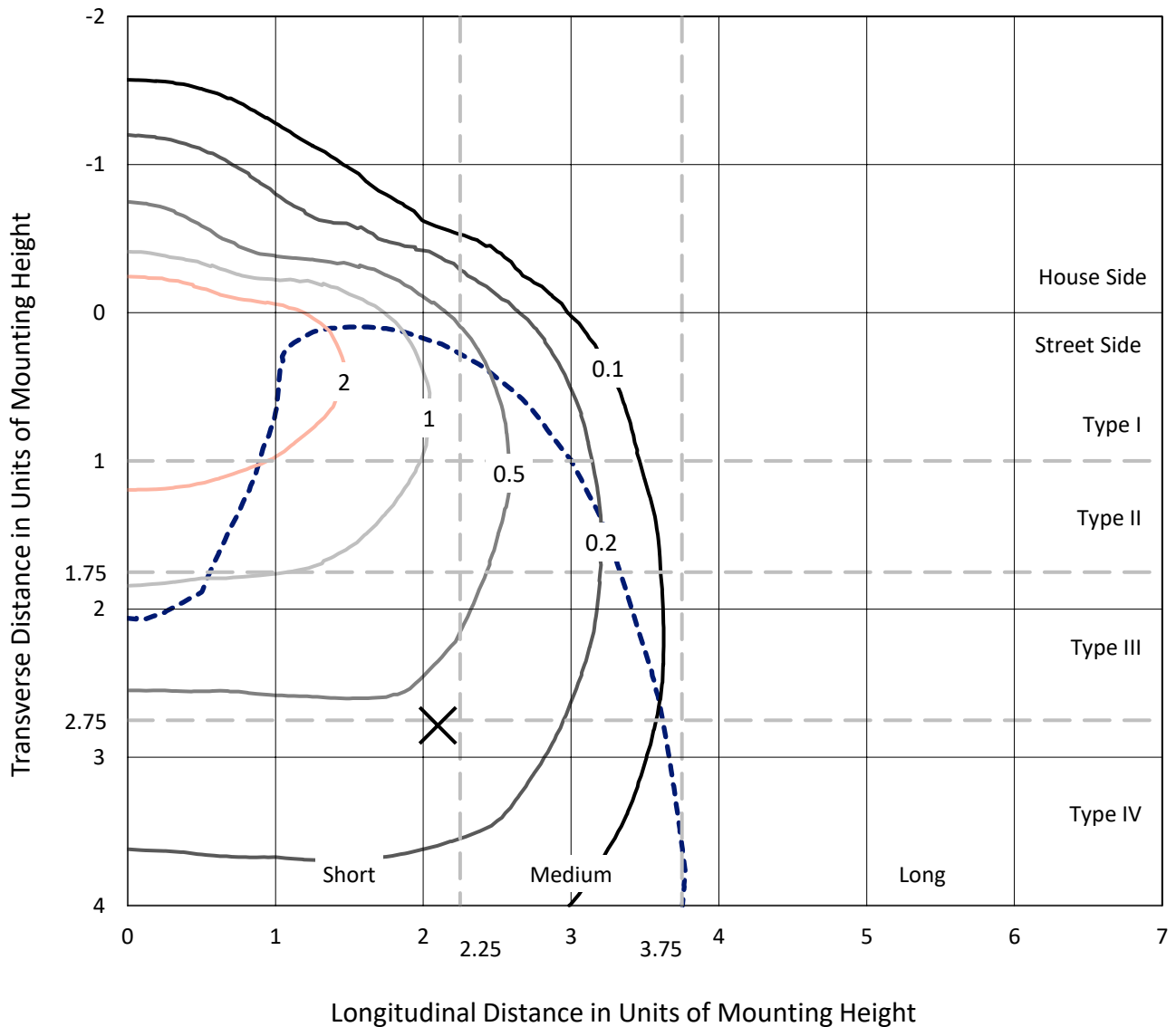
Input Watts (W): 111
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P386949
 CATALOG NUMBER: GAW-SA2C-830-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

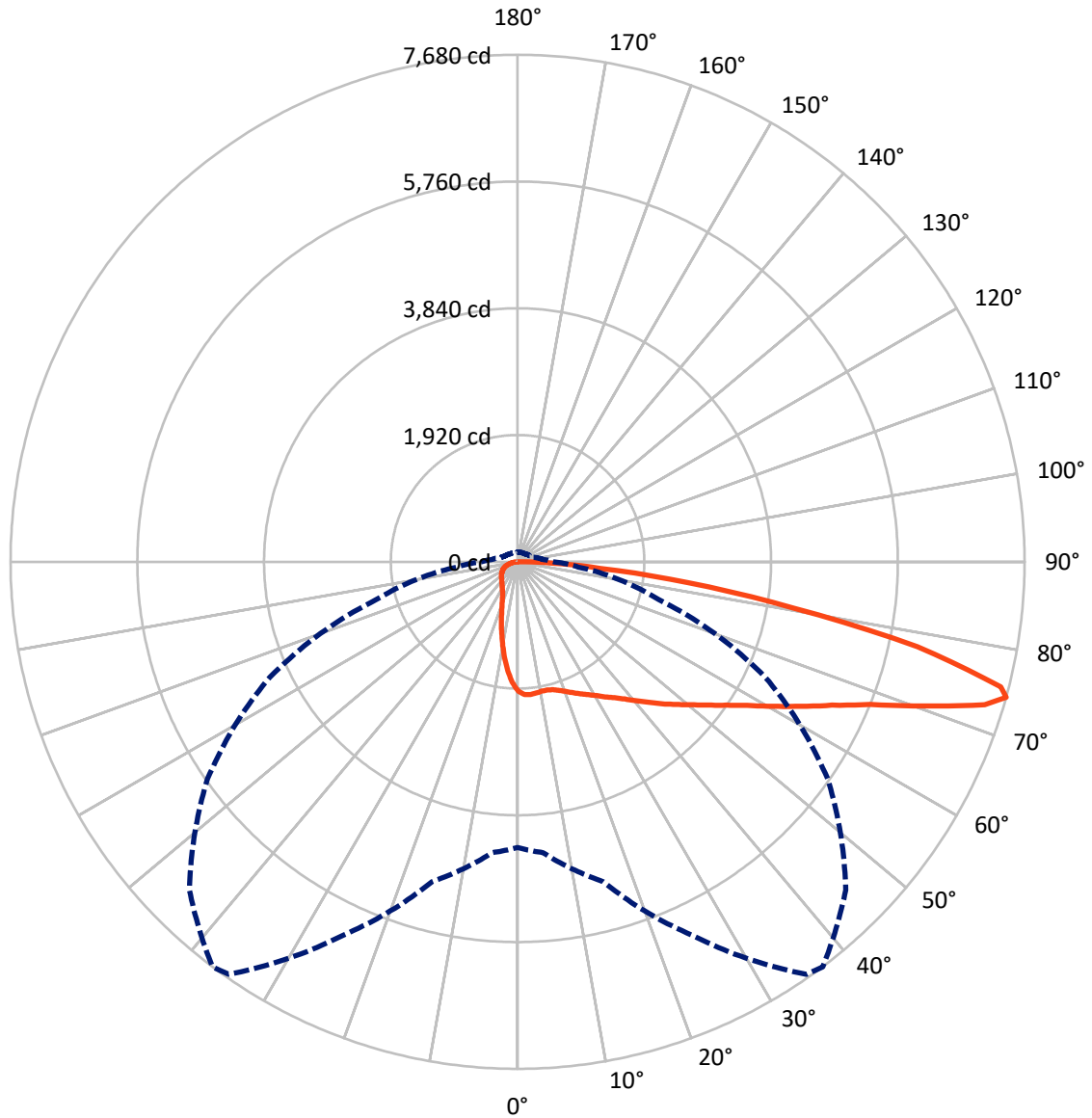
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - N/A

REPORT NUMBER: P386949
CATALOG NUMBER: GAW-SA2C-830-U-SL4

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: GAW-SA2C-830-U-SL4

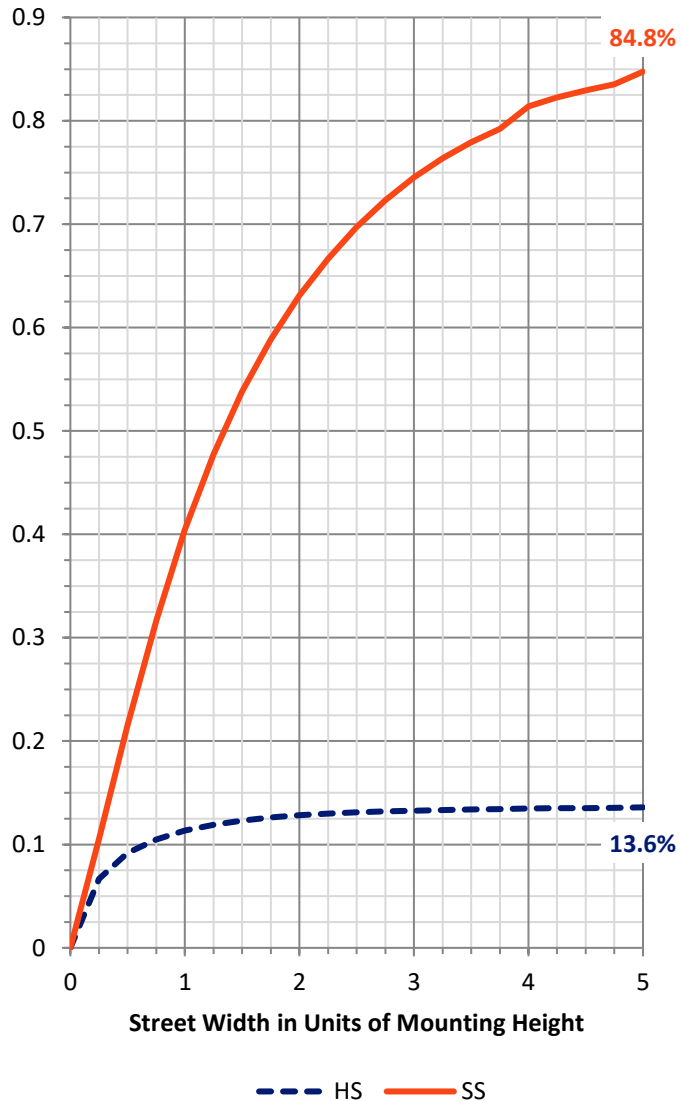
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1533.5	0.0	1533.5
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	9611.5	0.0	9611.5
	% Fixture	86.2	0.0	86.2
Total	Lumens	11145.0	0.0	11145.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.9	1.6
10°-20°	443.3	4.0
20°-30°	683.0	6.1
30°-40°	993.1	8.9
40°-50°	1461.7	13.1
50°-60°	2052.7	18.4
60°-70°	2598.1	23.3
70°-80°	2287.8	20.5
80°-90°	452.3	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°	11145.0	100.0
0°-180°	11145.0	100.0

Coefficient of Utilization



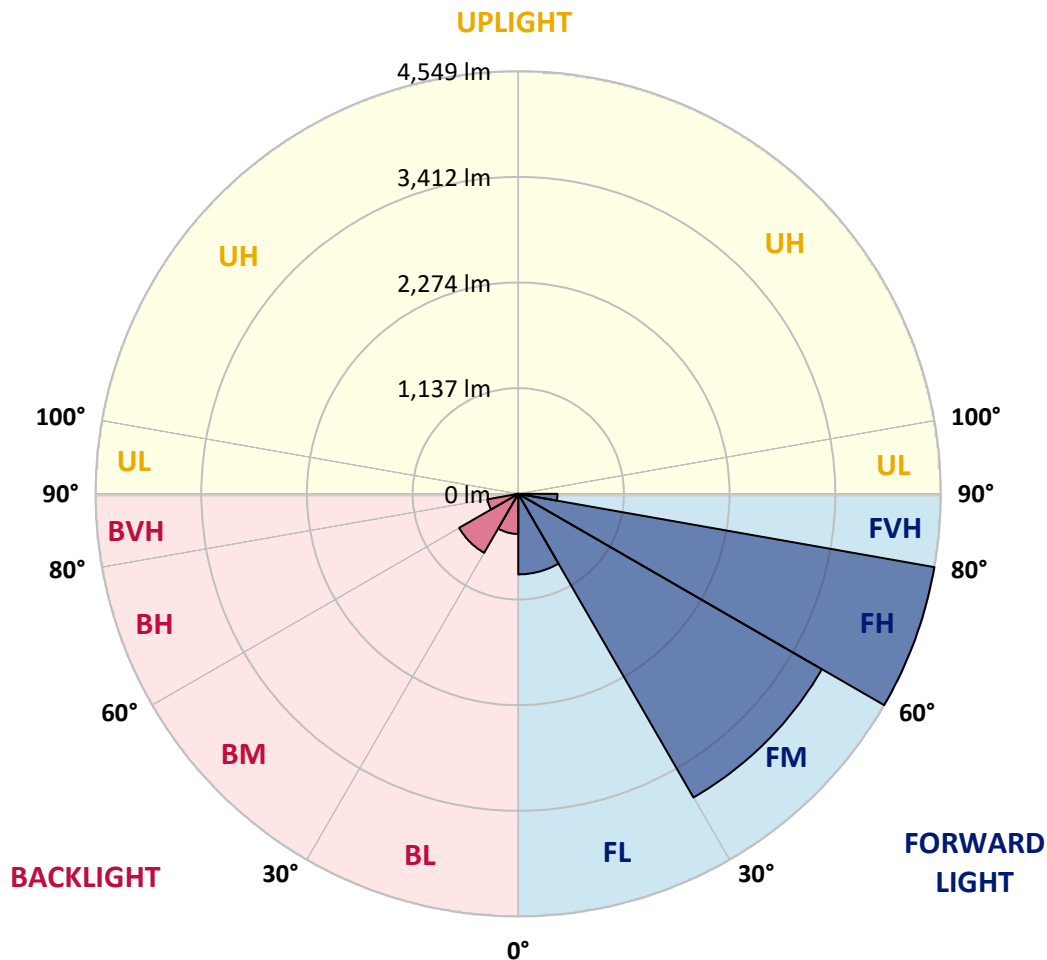
REPORT NUMBER: P386949
 CATALOG NUMBER: GAW-SA2C-830-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	867.2	7.8			
FM (30°-60°)	3773.8	33.9			
FH (60°-80°)	4548.8	40.8			G2/5000
FVH (80°-90°)	421.7	3.8			G3/500
BL (0°-30°)	431.9	3.9	B1/500		
BM (30°-60°)	733.8	6.6	B1/1000		
BH (60°-80°)	337.1	3.0	B1/500		G1/500
BVH (80°-90°)	30.6	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





REPORT NUMBER: P386949

CATALOG NUMBER: GAW-SA2C-830-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	1963.7	1963.7	1963.7	1963.7	1963.7	1963.7	1963.7	1963.7	1963.7	1963.7	1963.7
2.5°	2030.8	2031.2	2030.8	2027.7	2020.2	2014.0	2008.9	2001.4	1984.9	1972.3	1953.5
5°	2050.1	2047.7	2046.1	2040.3	2028.5	2021.4	2011.6	1997.5	1970.4	1945.3	1914.6
7.5°	2041.0	2038.3	2034.8	2027.7	2014.3	2008.5	1994.7	1976.3	1943.7	1910.7	1866.7
10°	2013.2	2012.4	2010.8	2009.2	1997.9	1993.1	1980.6	1961.0	1928.8	1888.7	1837.3
12.5°	1982.2	1984.1	1990.4	1998.6	1993.5	1991.2	1983.3	1970.0	1937.0	1893.8	1831.8
15°	1962.5	1968.0	1984.9	2006.5	2010.8	2010.0	2008.1	1999.4	1964.5	1916.6	1844.4
17.5°	1955.9	1964.9	1997.1	2032.8	2045.4	2048.1	2048.9	2034.0	1995.1	1944.5	1857.3
20°	1968.0	1979.4	2026.5	2075.6	2095.6	2097.2	2093.7	2067.7	2024.2	1968.4	1864.4
22.5°	2004.9	2015.1	2074.0	2129.4	2152.1	2154.5	2143.9	2104.6	2054.8	1996.7	1874.2
25°	2076.0	2088.5	2147.4	2202.8	2214.6	2215.0	2199.6	2151.0	2094.8	2036.3	1895.4
27.5°	2168.6	2181.2	2234.2	2288.4	2282.1	2278.6	2257.8	2209.1	2147.0	2090.9	1933.1
30°	2271.9	2285.6	2335.9	2374.3	2359.4	2352.4	2335.5	2272.7	2219.7	2165.5	1990.8
32.5°	2378.7	2391.2	2435.2	2461.5	2442.7	2439.5	2414.0	2356.7	2314.3	2279.3	2084.2
35°	2488.2	2497.2	2540.4	2555.3	2530.2	2529.4	2522.4	2469.7	2443.1	2459.5	2220.1
37.5°	2600.1	2602.4	2639.3	2640.1	2632.7	2635.8	2643.3	2610.3	2617.8	2669.2	2396.7
40°	2699.8	2706.1	2732.8	2741.0	2754.0	2765.0	2802.3	2780.7	2838.4	2929.5	2616.6
42.5°	2773.6	2785.8	2828.6	2849.8	2891.8	2909.0	2961.7	2981.7	3097.9	3234.5	2878.0
45°	2836.0	2854.9	2923.6	2967.2	3038.2	3068.4	3143.8	3210.9	3391.1	3565.4	3153.2
47.5°	2903.6	2927.5	3013.5	3096.7	3193.3	3227.4	3364.4	3464.9	3704.0	3898.4	3412.7
50°	3002.9	3021.3	3105.3	3236.1	3356.6	3400.6	3590.2	3734.3	4022.0	4215.6	3637.7
52.5°	3141.5	3134.4	3205.4	3388.8	3550.5	3604.7	3831.2	4020.8	4344.3	4502.5	3827.7
55°	3280.8	3269.0	3318.9	3548.6	3776.7	3833.6	4096.6	4308.6	4650.9	4760.9	3973.3
57.5°	3435.9	3413.5	3455.5	3728.8	4034.2	4102.1	4393.8	4614.4	4952.4	4969.7	4066.0
60°	3595.7	3565.4	3612.6	3952.1	4361.2	4441.3	4741.6	4912.8	5236.7	5137.0	4095.8
62.5°	3735.4	3714.2	3786.9	4201.4	4729.9	4817.8	5083.2	5230.0	5517.0	5206.5	3988.3
65°	3857.5	3861.1	3986.7	4481.7	5140.9	5234.7	5475.0	5621.0	5737.6	5165.2	3736.6
67.5°	4003.2	4023.2	4237.6	4850.8	5658.3	5761.2	6045.0	6047.4	5860.9	4923.4	3241.2
70°	4215.6	4256.8	4582.6	5362.7	6394.0	6535.3	6754.4	6297.8	5687.8	4267.8	2550.2
72.5°	4404.0	4481.0	4949.7	5948.4	7290.7	7397.9	7169.4	6153.4	4964.2	3198.4	1588.8
74°	4327.5	4422.9	5016.4	6237.0	7628.3	7679.7	7029.2	5731.7	4139.0	2215.0	923.4
75°	4162.6	4266.2	4919.1	6234.2	7585.5	7556.9	6690.8	5250.0	3408.8	1510.7	614.4
77.5°	3359.3	3468.9	4144.9	5343.1	6219.7	6192.6	5139.7	3521.9	1493.0	495.4	312.1
80°	1953.1	2036.7	2573.0	3393.1	4194.0	4243.0	3380.1	1742.7	587.3	278.3	211.6
82.5°	867.6	925.3	1242.9	1732.1	2531.0	2594.2	1770.2	913.2	362.7	169.2	127.2
85°	569.2	612.0	754.5	824.8	1205.2	1248.4	866.4	711.0	239.5	93.0	93.4
87.5°	409.5	450.7	560.6	489.6	553.2	523.7	471.5	658.0	96.2	53.0	31.4
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°	1963.7	1963.7	1963.7	1963.7	1963.7	1963.7	1963.7	1963.7	1963.7	1963.7	1963.7
2.5°	1945.3	1939.0	1924.8	1898.1	1883.2	1870.7	1849.9	1837.7	1832.2	1831.8	1834.2
5°	1897.0	1882.4	1845.9	1801.2	1765.5	1732.9	1692.4	1668.1	1650.8	1640.6	1643.4
7.5°	1840.8	1818.1	1760.7	1689.3	1632.0	1568.8	1506.3	1469.0	1440.0	1418.4	1422.3
10°	1802.4	1770.9	1687.3	1584.5	1489.1	1397.2	1311.2	1259.8	1219.0	1187.6	1189.9
12.5°	1789.4	1747.0	1631.2	1493.8	1359.9	1234.3	1122.0	1043.1	1001.1	965.4	968.1
15°	1791.4	1734.4	1584.1	1412.1	1243.7	1085.5	949.3	857.0	800.1	775.4	775.7
17.5°	1792.9	1719.9	1534.6	1324.6	1128.7	946.5	798.5	705.1	651.3	628.5	628.9
20°	1787.8	1696.4	1473.4	1224.1	1008.5	818.9	675.6	596.3	555.5	537.8	537.8
22.5°	1781.2	1668.5	1404.3	1123.2	890.0	708.2	587.7	527.2	503.7	491.9	491.5
25°	1784.3	1647.7	1333.6	1019.5	780.8	619.9	529.2	489.2	473.5	466.0	465.6
27.5°	1801.2	1637.9	1268.4	916.3	685.5	553.5	489.9	461.7	451.5	446.8	446.8
30°	1831.8	1637.9	1200.5	828.4	606.1	504.5	459.7	440.5	433.4	430.3	430.3
32.5°	1885.2	1646.9	1135.0	741.2	542.9	466.0	434.6	421.6	416.1	414.6	414.6
35°	1977.1	1677.5	1071.0	658.8	491.9	434.6	410.6	403.2	399.3	398.9	400.0
37.5°	2106.2	1739.9	1010.9	597.9	455.8	409.1	390.6	384.7	382.4	384.3	385.9
40°	2268.7	1824.7	956.3	542.9	428.3	388.7	372.2	368.2	367.1	369.8	372.2
42.5°	2465.0	1939.4	911.6	503.3	407.1	371.4	356.5	351.8	350.6	353.7	356.9
45°	2677.4	2062.6	880.2	473.8	390.6	358.4	342.7	337.6	335.3	336.8	340.4
47.5°	2870.6	2179.2	867.6	453.0	374.9	347.4	330.6	324.3	320.3	319.6	322.3
50°	3033.5	2266.0	873.5	440.5	362.4	335.3	318.8	311.7	305.8	302.3	304.3
52.5°	3152.1	2320.6	879.0	435.0	352.5	321.9	305.8	299.1	291.3	285.4	285.4
55°	3238.0	2333.1	866.8	430.7	345.1	307.4	291.3	285.0	277.2	270.5	269.7
57.5°	3271.8	2297.8	821.7	424.4	340.0	293.7	276.0	271.3	264.6	256.8	256.4
60°	3226.3	2188.7	734.5	411.0	333.3	282.3	260.7	257.5	254.4	246.9	246.5
62.5°	3043.3	1949.2	621.9	383.9	320.0	270.1	246.5	248.1	248.5	243.4	242.6
65°	2711.6	1620.2	511.9	348.6	299.9	255.6	232.0	239.5	243.8	243.0	241.8
67.5°	2229.5	1261.0	433.8	311.3	273.6	235.6	216.3	225.0	228.5	231.2	230.4
70°	1654.7	889.2	358.8	272.1	241.8	212.0	195.9	200.2	197.9	201.0	202.2
72.5°	922.6	533.5	292.5	232.8	208.9	184.5	173.1	172.3	167.2	167.2	167.2
74°	553.5	391.4	257.1	208.5	188.8	166.5	156.6	153.1	148.4	148.8	148.4
75°	445.2	336.4	235.9	192.4	174.7	155.9	146.0	141.3	137.8	137.8	137.4
77.5°	281.1	255.6	190.0	153.1	139.8	128.4	121.7	115.4	115.4	115.0	114.6
80°	212.4	203.4	148.0	115.8	107.2	98.5	94.2	91.5	91.5	92.6	92.3
82.5°	145.6	153.1	104.0	80.9	76.6	70.3	69.5	69.9	68.7	67.1	66.7
85°	106.4	115.0	70.3	51.0	46.7	42.8	45.9	47.5	45.5	42.0	40.4
87.5°	40.8	75.4	37.7	21.2	19.6	16.9	19.6	20.4	22.0	17.3	17.7
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)