

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: McGRAW-EDISON

Report Number: P647765

Luminaire Tested: **GALN-SA2A-835-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647765
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-835-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6103.5 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

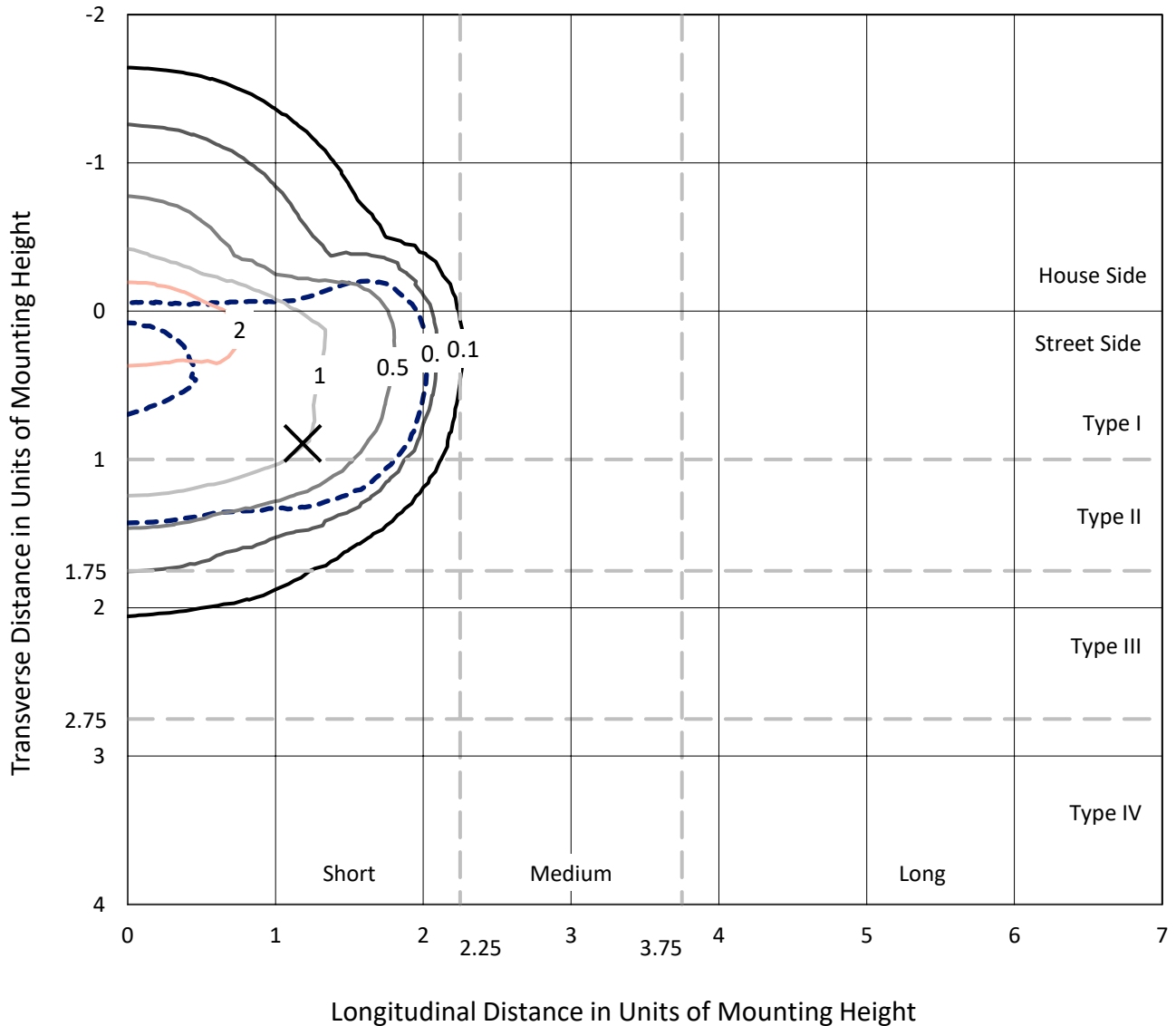
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

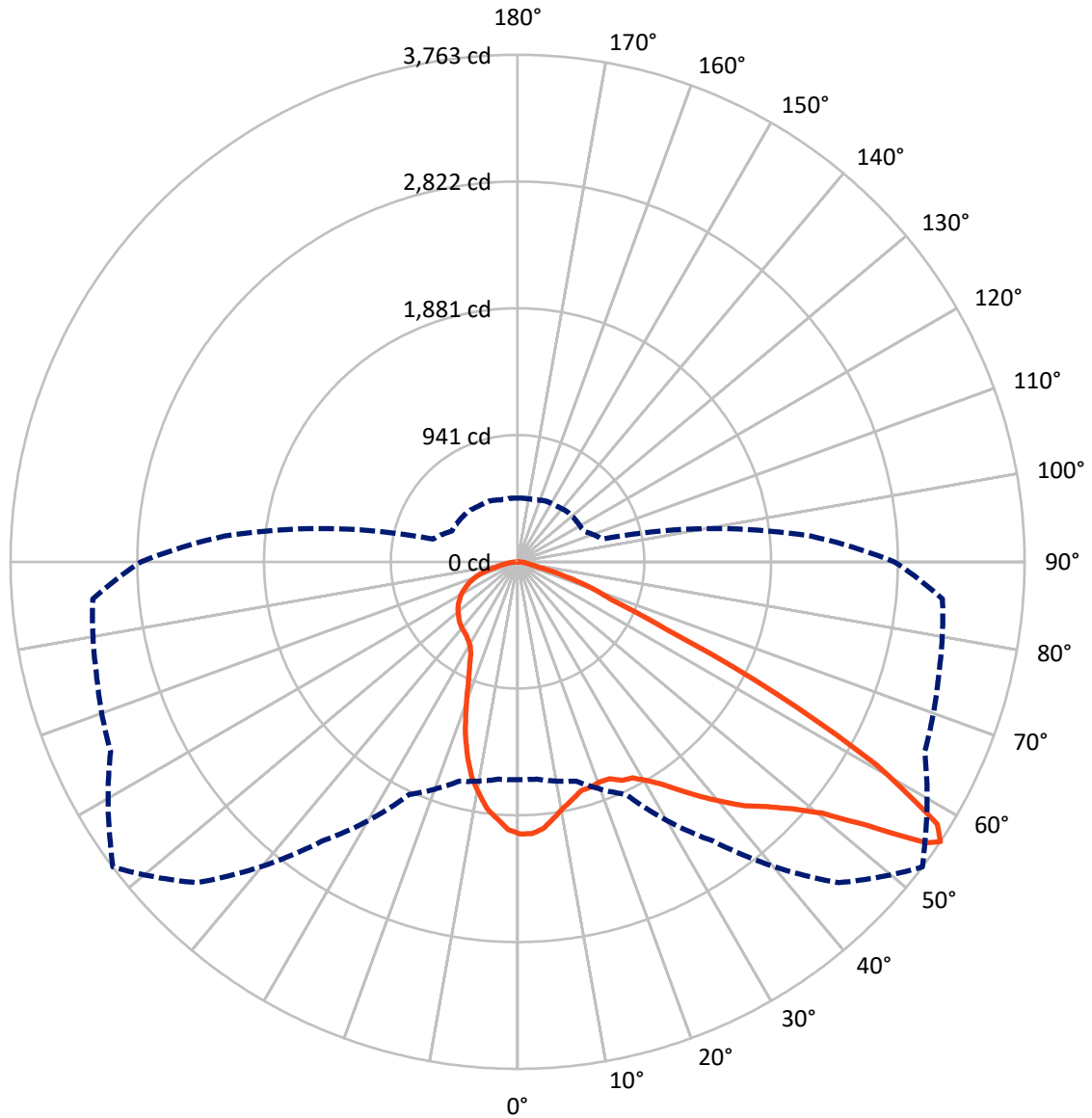
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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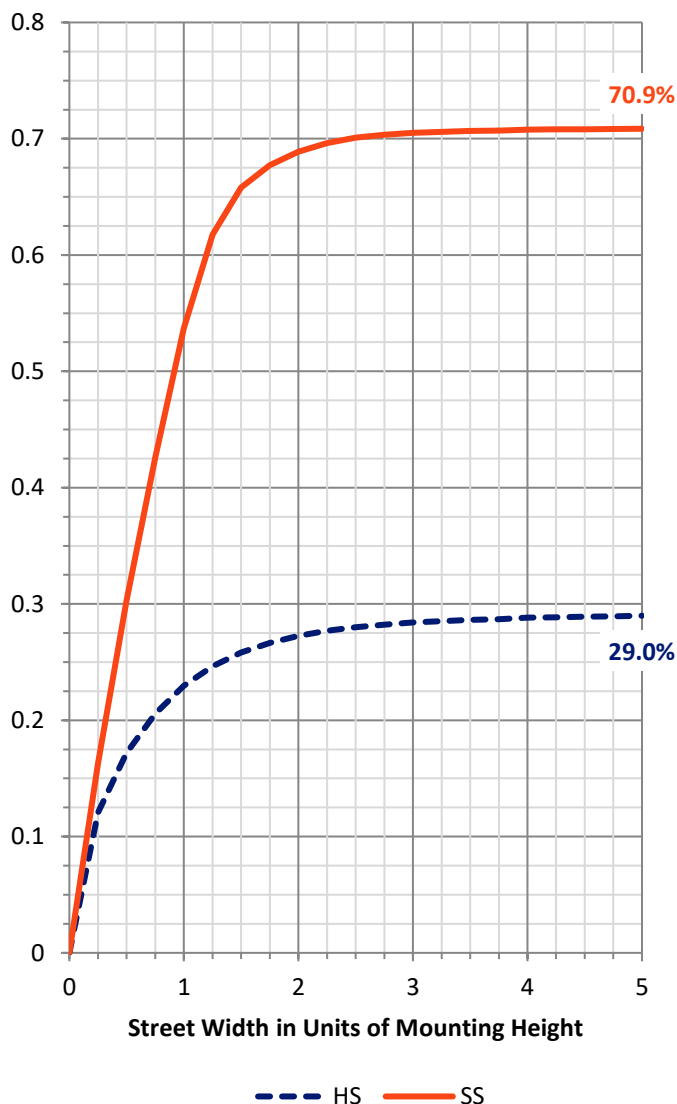
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1781.2	0.0	1781.2
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	4322.4	0.0	4322.4
	% Fixture	70.8	0.0	70.8
Total	Lumens	6103.5	0.0	6103.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.8	2.9
10°-20°	446.5	7.3
20°-30°	658.4	10.8
30°-40°	940.7	15.4
40°-50°	1294.7	21.2
50°-60°	1530.0	25.1
60°-70°	815.4	13.4
70°-80°	206.9	3.4
80°-90°	32.3	0.5
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°	6103.5	100.0
0°-180°	6103.5	100.0

Coefficient of Utilization

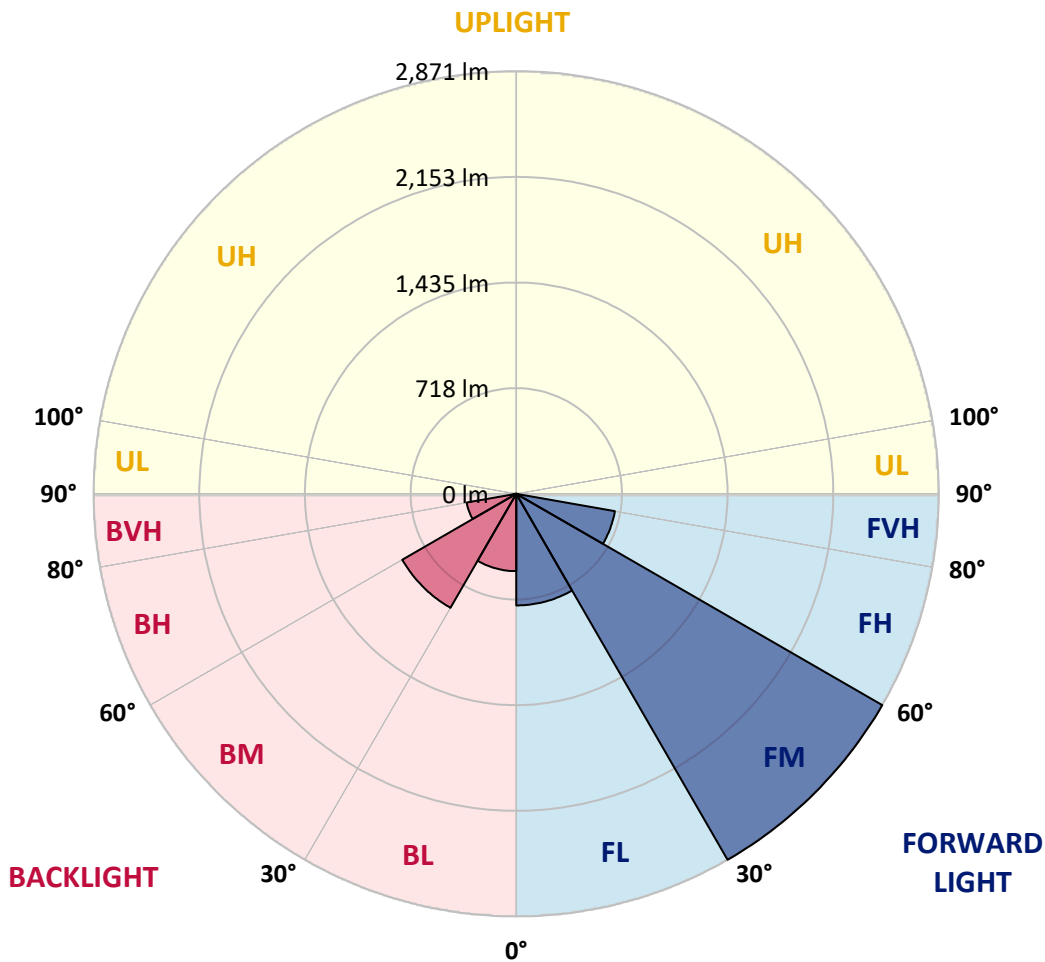


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	758.3	12.4			
FM (30°-60°)	2871.0	47.0			
FH (60°-80°)	680.2	11.1			G1/1800
FVH (80°-90°)	13.0	0.2			G1/100
BL (0°-30°)	525.3	8.6	B2/1000		
BM (30°-60°)	894.5	14.7	B1/1000		
BH (60°-80°)	342.1	5.6	B1/500		G1/500
BVH (80°-90°)	19.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	2019.3	2019.3	2019.3	2019.3	2019.3	2019.3	2019.3	2019.3	2019.3	2019.3	2019.3
2.5°	1994.2	1977.0	1987.2	1983.3	2015.4	2024.8	2020.1	2024.0	2042.0	2033.4	2015.4
5°	1863.5	1887.7	1892.4	1904.2	1923.0	1959.8	1988.7	1996.6	2005.2	2045.1	2041.2
7.5°	1744.4	1760.9	1752.3	1786.7	1827.4	1887.0	1922.2	1928.5	2007.5	2029.5	2045.9
10°	1669.3	1652.8	1692.0	1701.4	1747.6	1815.7	1858.0	1883.8	1955.9	2042.8	2052.9
12.5°	1599.6	1594.1	1617.6	1644.2	1695.9	1766.4	1809.4	1819.6	1930.8	2022.4	2070.2
15°	1547.9	1541.6	1565.1	1584.7	1645.0	1707.6	1762.5	1791.4	1903.4	2010.7	2055.3
17.5°	1507.2	1506.4	1519.7	1555.0	1616.8	1669.3	1757.8	1759.3	1889.3	2028.7	2067.8
20°	1504.8	1504.1	1506.4	1545.6	1601.9	1666.1	1742.9	1757.0	1889.3	2016.1	2068.6
22.5°	1524.4	1511.9	1526.0	1551.0	1591.8	1671.6	1748.4	1779.7	1934.7	2078.0	2103.8
25°	1555.7	1558.9	1566.7	1575.3	1598.8	1684.2	1796.9	1822.7	1988.0	2131.2	2152.4
27.5°	1612.9	1611.3	1614.5	1619.2	1639.5	1695.9	1816.5	1883.0	2099.1	2226.0	2204.8
30°	1696.7	1691.2	1703.7	1720.2	1701.4	1733.5	1881.5	1931.6	2202.5	2321.5	2263.6
32.5°	1772.6	1793.0	1816.5	1823.5	1800.8	1807.1	1967.6	2018.5	2288.6	2439.0	2335.6
35°	1867.4	1883.8	1915.1	1937.1	1933.1	1914.4	2085.1	2152.4	2413.1	2525.1	2411.6
37.5°	1959.8	1979.3	2031.0	2096.0	2060.0	2051.4	2210.3	2265.9	2451.5	2571.3	2467.2
40°	2108.5	2107.8	2197.0	2230.7	2262.8	2247.9	2340.3	2359.1	2471.9	2561.1	2468.7
42.5°	2283.1	2272.2	2363.0	2415.5	2457.0	2458.5	2475.8	2469.5	2481.2	2509.4	2452.3
45°	2449.1	2472.6	2564.2	2658.2	2699.7	2704.4	2590.1	2578.3	2497.7	2494.6	2421.0
47.5°	2651.9	2657.4	2732.6	2856.2	2952.5	2919.7	2738.1	2712.2	2569.7	2594.0	2473.4
50°	2663.7	2704.4	2771.7	2917.3	3213.3	3204.7	2929.8	2881.3	2685.6	2734.9	2619.8
52.5°	2417.8	2408.4	2488.3	2726.3	3193.7	3488.1	3247.7	3131.8	2934.5	2896.9	2857.0
55°	1842.3	1864.2	1934.7	2175.1	2773.3	3492.0	3680.7	3586.0	3200.7	3136.5	3090.3
56°	1616.0	1619.2	1685.7	1905.0	2530.6	3367.5	3762.9	3686.2	3333.1	3235.2	3164.7
57.5°	1339.6	1321.6	1356.1	1475.9	2135.9	3104.4	3672.9	3748.1	3488.1	3341.7	3243.8
60°	1054.6	1050.7	1036.6	1058.5	1349.8	2338.7	3057.5	3226.6	3472.4	3241.5	3106.8
62.5°	861.3	841.7	869.9	901.2	938.0	1450.8	2148.5	2247.9	2756.9	2587.7	2334.0
65°	667.9	658.5	693.7	795.5	817.5	921.6	1223.8	1300.5	1627.8	1598.8	1407.8
67.5°	459.6	461.2	491.7	646.8	757.9	748.5	749.3	789.3	849.6	631.1	549.7
70°	291.3	290.5	306.9	416.6	610.0	616.2	584.9	573.2	543.4	328.9	348.4
72.5°	187.1	181.7	190.3	230.2	315.5	364.9	375.8	382.9	314.8	258.4	280.3
75°	105.7	100.2	97.1	107.3	124.5	144.1	158.2	162.9	182.4	195.8	207.5
77.5°	32.1	29.0	35.2	47.0	61.9	83.0	101.0	104.1	122.9	138.6	150.3
80°	14.1	15.7	21.9	31.3	43.8	58.7	71.3	76.0	88.5	100.2	103.4
82.5°	8.6	9.4	14.9	21.1	30.5	41.5	50.9	52.5	65.0	74.4	76.7
85°	3.1	3.9	7.8	12.5	19.6	26.6	26.6	29.0	26.6	26.6	29.0
87.5°	0.0	0.0	0.8	1.6	1.6	2.3	3.1	3.1	3.9	4.7	5.5
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°	2019.3	2019.3	2019.3	2019.3	2019.3	2019.3	2019.3	2019.3	2019.3	2019.3	2019.3
2.5°	2024.8	2020.8	2014.6	1991.9	1989.5	1982.5	1943.3	1937.1	1943.3	1924.5	1926.1
5°	2020.8	2032.6	1985.6	1962.9	1920.6	1890.1	1854.8	1836.8	1804.7	1784.4	1807.1
7.5°	2038.1	2033.4	1974.6	1925.3	1861.9	1784.4	1722.5	1687.3	1630.9	1615.3	1627.0
10°	2031.8	2006.8	1937.8	1872.9	1753.1	1684.9	1584.7	1487.6	1434.4	1407.0	1403.1
12.5°	2023.2	2016.1	1901.0	1789.1	1663.0	1519.7	1378.8	1287.2	1200.3	1162.7	1168.2
15°	2033.4	1973.9	1832.1	1690.4	1522.9	1334.9	1183.0	1064.8	1004.5	980.2	980.2
17.5°	2028.7	1953.5	1799.3	1580.0	1367.8	1145.5	978.7	907.5	882.4	882.4	889.5
20°	2031.0	1966.8	1732.7	1469.6	1184.6	964.6	843.3	817.5	828.4	832.3	836.2
22.5°	2044.3	1923.0	1667.7	1348.2	1014.7	825.3	765.8	766.6	786.1	807.3	803.4
25°	2060.8	1905.7	1588.6	1227.7	884.8	757.2	738.4	736.0	750.9	761.9	763.4
27.5°	2046.7	1876.0	1508.0	1077.3	778.3	711.7	707.8	709.4	714.1	736.0	729.0
30°	2092.9	1884.6	1407.0	951.3	719.6	696.9	692.2	689.8	696.9	703.1	697.7
32.5°	2150.0	1854.1	1331.8	830.0	690.6	685.9	676.5	673.4	677.3	671.0	674.2
35°	2175.1	1848.6	1233.9	743.1	667.9	664.0	658.5	657.7	658.5	653.0	648.3
37.5°	2189.2	1874.4	1122.0	703.1	653.8	657.7	645.2	643.6	629.5	632.7	635.0
40°	2213.5	1834.5	1031.1	664.8	645.2	637.4	626.4	624.1	614.7	609.2	614.7
42.5°	2178.2	1822.7	941.9	648.3	632.7	624.1	616.2	602.9	599.8	595.1	591.9
45°	2150.0	1755.4	862.1	628.0	617.8	613.1	598.2	584.1	572.4	577.1	570.0
47.5°	2171.2	1731.9	783.0	610.7	597.4	591.9	577.1	566.1	554.4	548.9	547.3
50°	2255.7	1775.8	716.4	598.2	580.2	577.1	557.5	545.0	534.0	530.1	531.7
52.5°	2457.8	1895.6	671.0	572.4	563.8	549.7	538.7	523.0	516.0	503.5	511.3
55°	2713.8	2090.5	659.3	548.1	543.4	530.9	516.0	504.3	490.9	480.8	478.4
56°	2796.0	2183.7	649.9	538.7	530.9	523.8	504.3	497.2	476.1	473.7	472.1
57.5°	2862.5	2265.9	651.5	520.7	512.9	506.6	494.9	477.6	463.5	454.9	458.8
60°	2712.2	2121.1	621.7	493.3	491.7	480.0	463.5	455.7	438.5	428.3	426.0
62.5°	2016.1	1439.9	504.3	458.1	457.3	444.7	426.0	417.3	414.2	400.1	400.1
65°	1161.1	902.8	436.1	429.1	422.8	410.3	391.5	384.5	376.6	371.9	368.0
67.5°	495.6	468.2	396.2	395.4	388.4	372.7	353.9	343.0	332.8	323.4	328.1
70°	359.4	364.9	357.8	353.9	345.3	325.7	309.3	296.0	280.3	274.0	278.7
72.5°	285.0	296.8	306.9	307.7	297.5	274.8	256.8	238.8	221.6	213.0	216.9
75°	216.1	223.9	234.1	236.5	221.6	205.9	188.7	169.9	156.6	146.4	148.0
77.5°	155.8	154.3	163.6	162.1	155.0	144.1	128.4	111.2	96.3	86.9	87.7
80°	106.5	108.8	114.3	113.5	104.9	97.9	86.1	72.0	61.1	53.2	51.7
82.5°	74.4	78.3	83.0	79.1	72.0	65.0	56.4	46.2	37.6	31.3	29.8
85°	26.6	30.5	35.2	37.6	39.9	38.4	32.1	25.8	18.8	15.7	14.9
87.5°	5.5	6.3	7.0	7.0	7.0	6.3	5.5	5.5	4.7	2.3	2.3
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)