

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: P382829

Luminaire Tested: **GLEON-SA2A-735-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382829
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2A-735-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8701.6 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

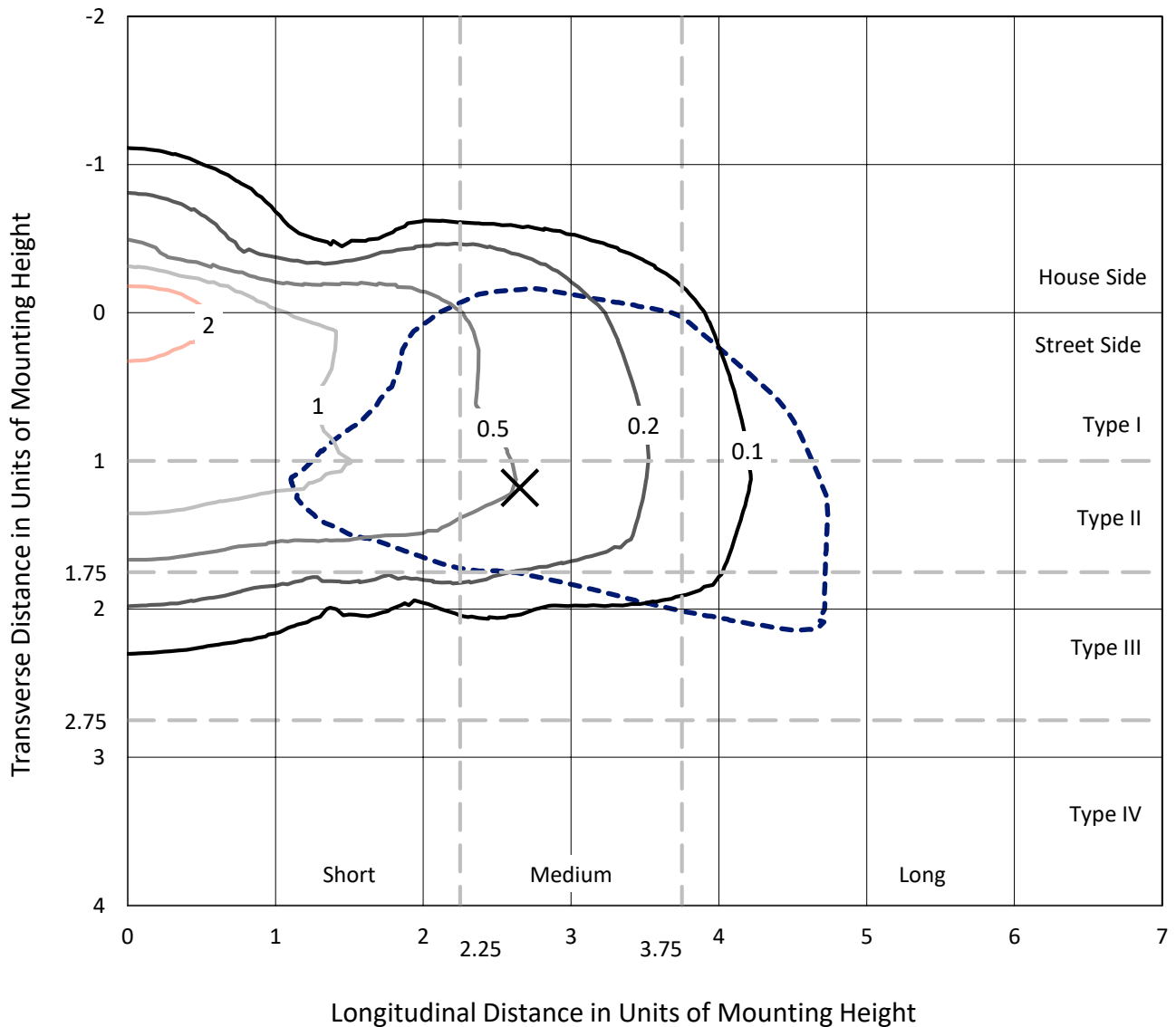
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

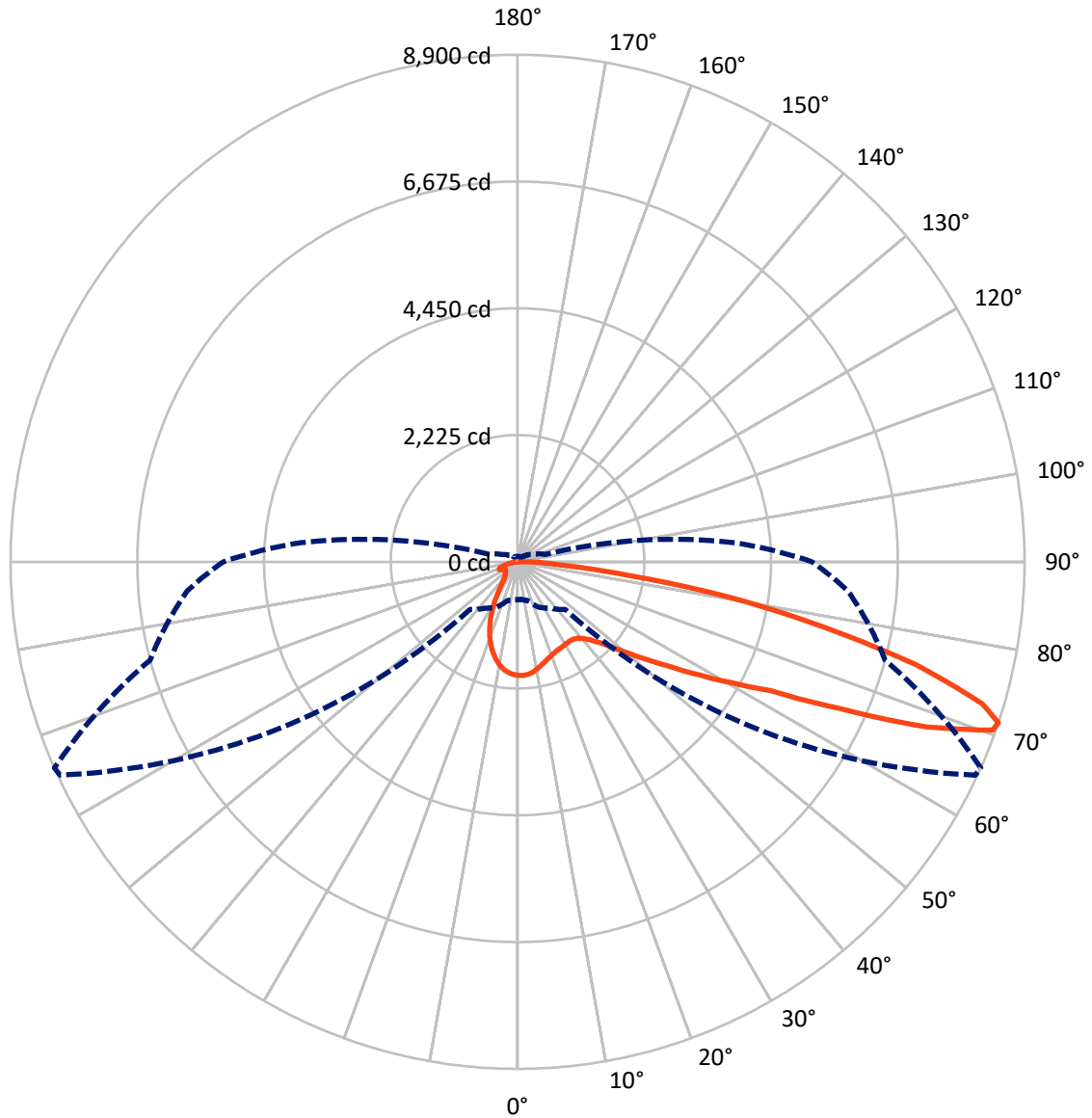
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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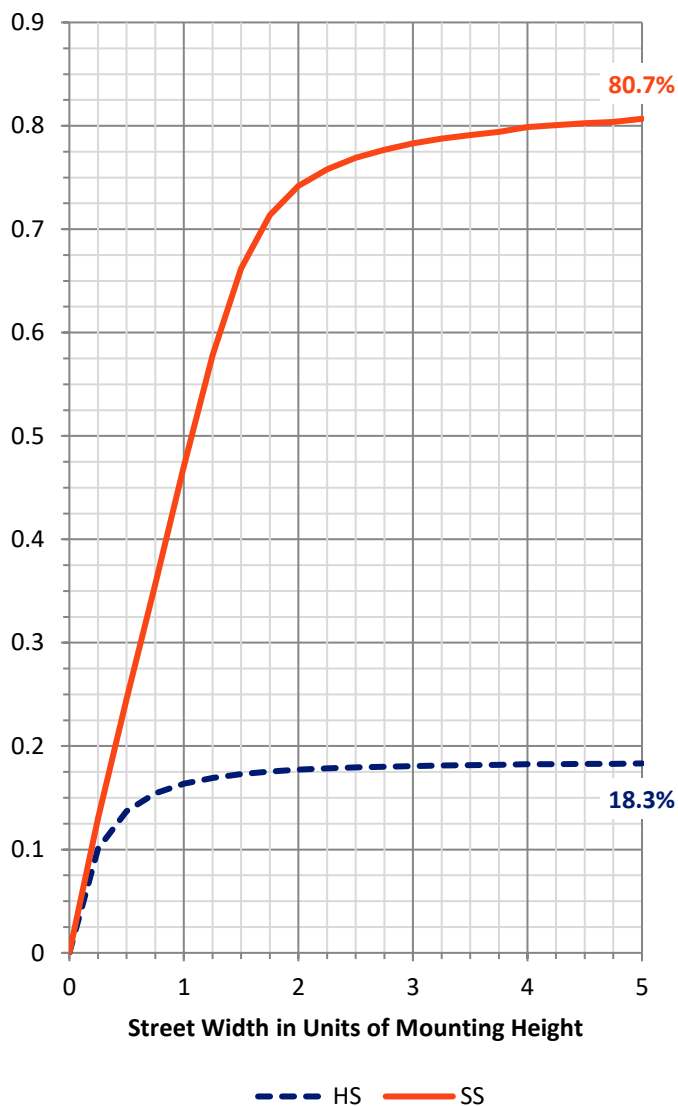
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1612.6	0.0	1612.6
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	7088.9	0.0	7088.9
	% Fixture	81.5	0.0	81.5
Total	Lumens	8701.6	0.0	8701.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.5	2.0
10°-20°	420.8	4.8
20°-30°	565.3	6.5
30°-40°	743.6	8.5
40°-50°	1081.8	12.4
50°-60°	1689.9	19.4
60°-70°	2116.8	24.3
70°-80°	1614.7	18.6
80°-90°	293.2	3.4
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°	8701.6	100.0
0°-180°	8701.6	100.0

Coefficient of Utilization

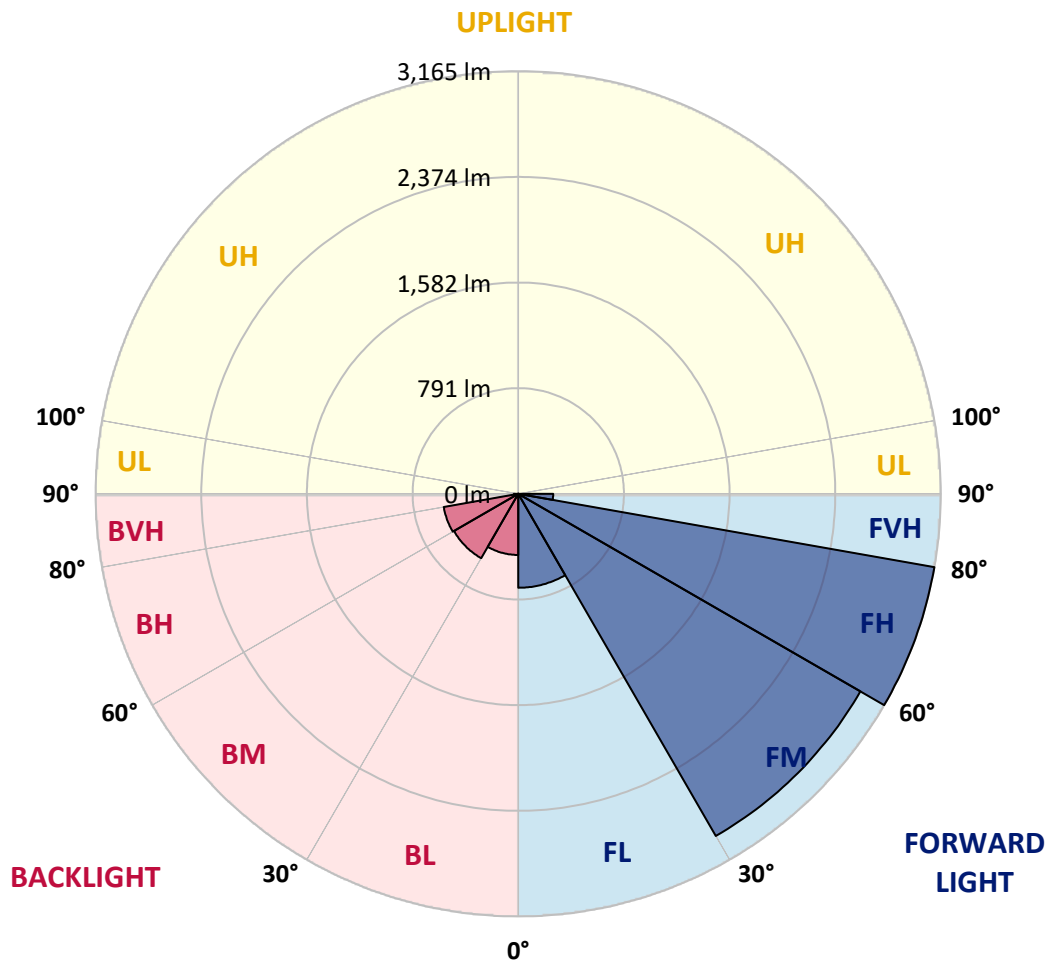


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	703.6	8.1			
FM (30°-60°)	2959.0	34.0			
FH (60°-80°)	3164.9	36.4			G2/5000
FVH (80°-90°)	261.5	3.0			G3/500
BL (0°-30°)	457.9	5.3	B1/500		
BM (30°-60°)	556.3	6.4	B1/1000		
BH (60°-80°)	566.6	6.5	B2/1000		G2/1000
BVH (80°-90°)	31.7	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1993.3	1993.3	1993.3	1993.3	1993.3	1993.3	1993.3	1993.3	1993.3	1993.3	1993.3
2.5°	1956.4	1953.4	1962.4	1971.7	1975.3	1981.3	1990.3	1995.5	1995.2	1996.0	1993.0
5°	1826.7	1822.8	1840.7	1855.5	1883.7	1915.5	1954.3	1982.0	1982.5	1998.2	2002.4
7.5°	1703.7	1701.0	1721.8	1745.5	1778.2	1827.0	1889.7	1949.2	1952.8	1995.2	2009.9
10°	1605.2	1604.6	1624.7	1650.6	1688.7	1743.1	1815.2	1902.3	1907.7	1980.7	2011.1
12.5°	1528.3	1529.5	1546.9	1576.4	1616.6	1673.4	1751.5	1849.8	1858.4	1957.9	2004.2
15°	1471.5	1476.3	1490.5	1520.2	1559.9	1617.5	1697.7	1801.1	1814.3	1932.4	2000.3
17.5°	1439.1	1444.5	1454.4	1479.0	1516.3	1571.9	1647.9	1761.1	1773.1	1912.8	2000.6
20°	1429.5	1433.9	1439.7	1454.7	1486.2	1536.7	1608.5	1725.0	1738.0	1897.2	2003.6
22.5°	1448.4	1451.7	1452.3	1451.1	1470.4	1511.4	1580.0	1698.7	1712.5	1887.0	2005.7
25°	1489.0	1493.5	1490.1	1479.0	1472.7	1497.9	1565.3	1681.3	1695.0	1879.5	2001.4
27.5°	1549.9	1550.6	1547.9	1533.4	1503.7	1499.4	1560.7	1671.0	1684.2	1870.8	1992.8
30°	1632.8	1636.7	1632.0	1612.4	1563.8	1523.5	1566.1	1661.0	1673.1	1859.6	1978.6
32.5°	1729.9	1739.5	1739.2	1718.8	1649.0	1577.3	1588.4	1655.1	1664.4	1847.9	1961.6
35°	1830.5	1843.7	1868.4	1859.6	1773.5	1662.3	1631.0	1664.7	1671.0	1846.4	1949.5
37.5°	1935.1	1948.3	1999.1	2022.5	1921.6	1784.0	1698.3	1698.7	1701.7	1864.8	1948.6
40°	2044.5	2058.5	2134.8	2195.8	2113.5	1938.1	1806.8	1769.6	1766.2	1909.9	1966.3
42.5°	2197.6	2210.3	2301.9	2379.7	2326.5	2135.5	1956.7	1878.9	1871.9	1998.2	2023.1
45°	2391.5	2402.3	2499.6	2582.8	2555.5	2360.8	2145.1	2029.4	2028.3	2145.4	2138.2
47.5°	2621.8	2630.3	2717.7	2798.2	2808.2	2620.1	2381.8	2261.6	2242.1	2347.3	2316.3
50°	2861.9	2871.2	2930.7	3017.3	3090.9	2967.1	2686.5	2546.2	2520.0	2613.7	2568.6
52.5°	3020.8	3033.1	3084.8	3194.5	3408.7	3347.4	3046.7	2891.1	2851.4	2936.7	2902.1
55°	2949.9	2977.6	3056.6	3232.4	3662.8	3928.4	3491.0	3293.3	3248.6	3319.5	3299.1
57.5°	2627.6	2665.4	2773.3	3044.6	3698.6	4440.4	4162.8	3767.1	3735.6	3715.1	3724.4
60°	2038.4	2074.7	2208.5	2562.1	3449.5	4814.1	5173.7	4351.2	4305.5	4112.3	4120.7
62.5°	1442.7	1424.3	1516.0	1774.7	2803.0	4858.0	6324.1	5132.3	4982.1	4531.7	4494.7
65°	1100.2	1096.0	1137.1	1219.5	1697.7	4333.1	7009.3	6445.2	6210.5	5025.0	4937.9
67.5°	904.0	896.5	937.0	1056.9	1093.3	2795.5	7024.4	7968.4	7737.9	5639.1	5450.4
70°	743.3	734.9	772.7	927.4	1010.4	1417.7	5911.9	8860.3	8848.0	6416.6	5837.4
71°	666.3	660.4	705.7	877.5	992.7	1181.6	5104.3	8862.7	8899.7	6679.8	5814.5
72.5°	542.5	544.7	592.7	781.1	979.4	1043.4	3751.5	8449.6	8527.8	6930.6	5607.0
75°	360.5	362.3	425.4	600.8	949.6	1020.9	2061.9	7090.2	7233.8	6780.5	5116.3
77.5°	242.1	241.6	284.5	412.2	827.4	1020.9	1209.0	5302.9	5460.6	5395.2	3944.4
80°	166.7	165.5	195.9	284.5	626.4	1033.2	934.6	3716.3	3764.1	2913.6	1603.1
82.5°	102.2	103.0	128.0	201.0	426.3	929.9	882.4	2026.4	1974.4	817.2	400.5
85°	58.6	58.3	81.7	136.1	273.7	784.7	860.5	872.1	800.0	246.0	144.8
87.5°	21.1	22.5	43.9	75.4	156.8	546.4	730.1	453.7	408.9	111.1	65.5
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°	1993.3	1993.3	1993.3	1993.3	1993.3	1993.3	1993.3	1993.3	1993.3	1993.3	1993.3
2.5°	1991.0	1992.8	1990.6	1978.6	1968.5	1951.9	1942.6	1929.7	1925.8	1923.9	1928.8
5°	1998.4	1999.1	1981.3	1949.8	1914.3	1872.6	1842.5	1805.6	1788.2	1780.7	1785.5
7.5°	2005.3	2002.6	1963.9	1903.5	1838.0	1765.4	1700.7	1641.6	1607.0	1592.9	1594.1
10°	2006.3	1994.9	1932.7	1839.2	1737.7	1631.0	1531.9	1440.5	1382.9	1345.3	1356.7
12.5°	1997.0	1977.8	1886.8	1756.1	1615.1	1469.7	1335.7	1198.7	1116.4	1078.3	1079.5
15°	1989.8	1954.9	1830.2	1658.1	1468.8	1276.2	1093.3	932.2	844.5	805.4	787.2
17.5°	1983.7	1930.3	1764.7	1547.9	1296.1	1051.8	831.9	688.3	640.3	628.8	624.0
20°	1975.3	1904.2	1691.7	1420.1	1099.3	800.7	607.5	536.6	536.9	550.1	551.8
22.5°	1963.6	1874.4	1613.9	1276.9	888.0	583.1	476.2	455.7	476.5	501.7	506.2
25°	1946.2	1839.2	1527.4	1118.5	677.1	448.3	406.8	405.9	431.1	457.6	461.5
27.5°	1921.6	1793.3	1431.2	948.5	499.0	380.9	364.4	370.8	389.4	408.6	410.1
30°	1888.5	1739.8	1325.2	769.1	391.2	339.2	337.4	343.1	354.5	368.1	369.3
32.5°	1852.2	1685.4	1211.9	595.4	335.0	316.6	318.5	321.2	326.6	332.0	333.2
35°	1819.1	1629.8	1096.0	452.5	308.2	301.9	300.7	300.1	300.7	298.9	299.2
37.5°	1797.8	1583.9	975.2	360.2	292.9	289.1	285.4	280.9	275.8	272.8	273.4
40°	1790.0	1549.6	852.9	311.2	280.3	277.6	270.7	261.1	255.1	253.3	253.3
42.5°	1811.0	1531.9	734.9	286.6	269.8	265.3	253.8	242.8	238.2	237.9	237.6
45°	1875.3	1539.1	622.5	273.1	260.2	251.4	236.4	227.1	224.1	224.7	224.4
47.5°	1990.6	1584.5	526.3	264.1	250.6	239.1	222.4	214.8	211.2	211.2	211.5
50°	2186.8	1690.6	449.8	256.5	242.5	227.8	212.1	202.8	198.0	197.7	197.7
52.5°	2472.5	1880.4	402.0	250.2	233.4	217.5	201.9	190.1	184.4	183.2	182.7
55°	2830.7	2152.6	388.7	246.0	221.4	206.4	189.6	177.8	171.6	168.8	168.5
57.5°	3231.2	2483.7	414.9	241.0	209.1	193.2	176.1	165.0	158.4	155.0	154.7
60°	3636.4	2845.1	521.6	233.7	198.9	178.8	162.3	152.0	145.4	141.8	141.2
62.5°	4042.3	3226.0	739.4	233.2	191.7	165.0	148.1	139.4	133.1	129.2	128.3
65°	4500.2	3643.0	986.9	249.1	189.3	152.3	133.7	126.8	121.4	117.7	117.5
67.5°	5025.9	4113.8	963.2	281.8	197.4	140.9	120.2	114.8	110.9	107.9	107.6
70°	5272.6	4040.2	598.8	304.9	208.8	129.8	107.2	103.3	100.3	98.3	97.3
71°	5169.3	3836.2	502.0	302.2	207.6	125.0	102.2	99.1	96.1	94.4	93.4
72.5°	4887.5	3498.5	418.8	281.2	194.0	116.3	95.6	92.5	89.8	87.8	87.1
75°	4385.7	3124.5	335.3	224.7	154.7	98.3	83.8	80.5	78.4	77.2	76.0
77.5°	3223.9	2229.8	259.2	177.6	113.8	80.2	71.5	69.1	67.0	65.2	64.3
80°	1235.0	863.7	174.6	132.5	83.6	63.3	57.7	56.5	54.4	53.2	53.2
82.5°	332.6	258.0	93.2	80.2	55.9	46.3	44.2	43.6	41.7	39.3	39.7
85°	134.6	113.8	52.3	44.2	34.3	27.3	29.7	30.1	27.9	25.0	25.2
87.5°	59.2	48.3	29.2	19.6	15.0	10.5	13.5	13.5	12.3	10.2	9.3
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)