

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: P526776

Luminaire Tested: **GALN-SA1D-730-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526776
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-SA1D-730-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS 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: 6042 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

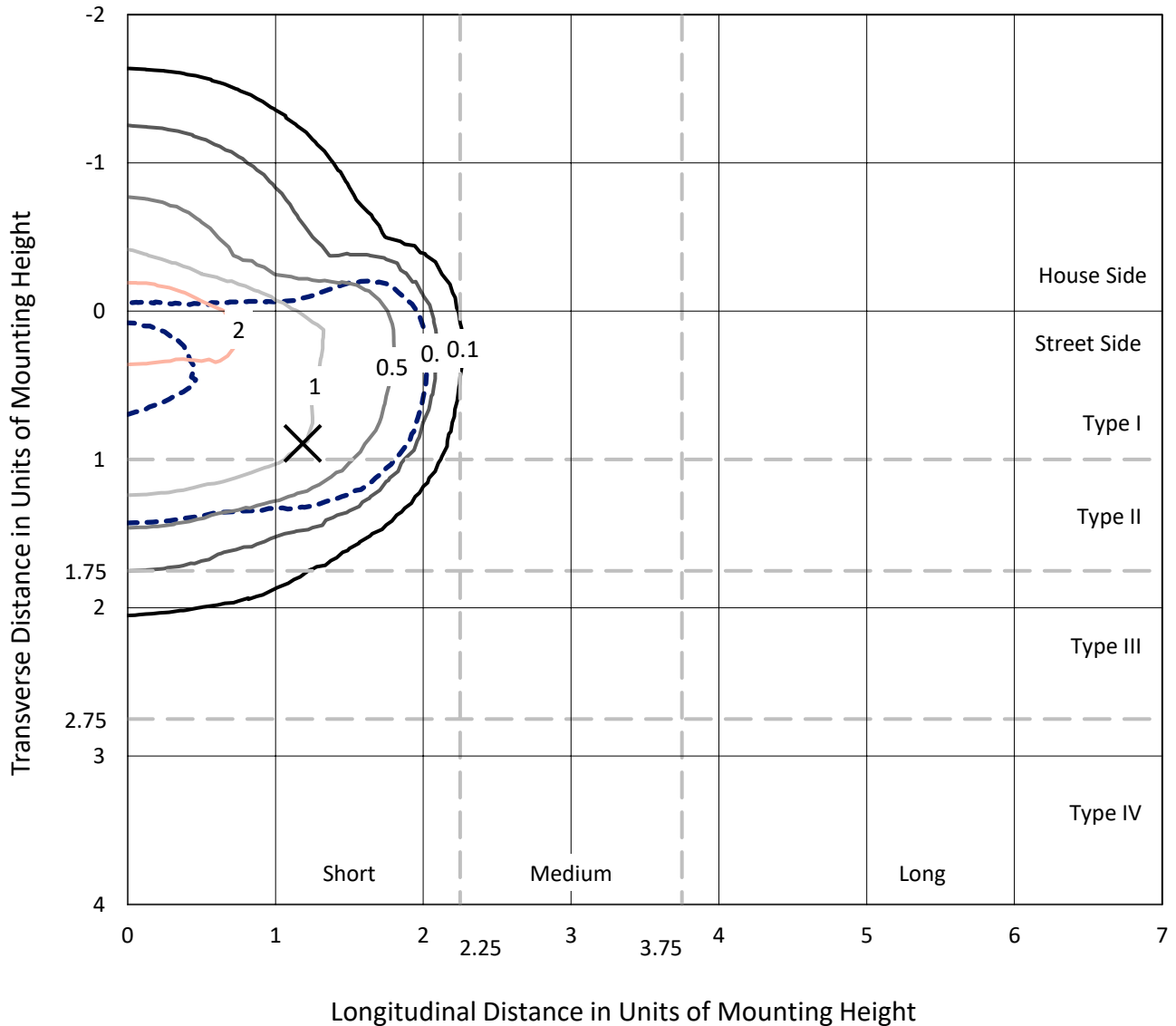
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P526776
 CATALOG NUMBER: GALN-SA1D-730-U-SL2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

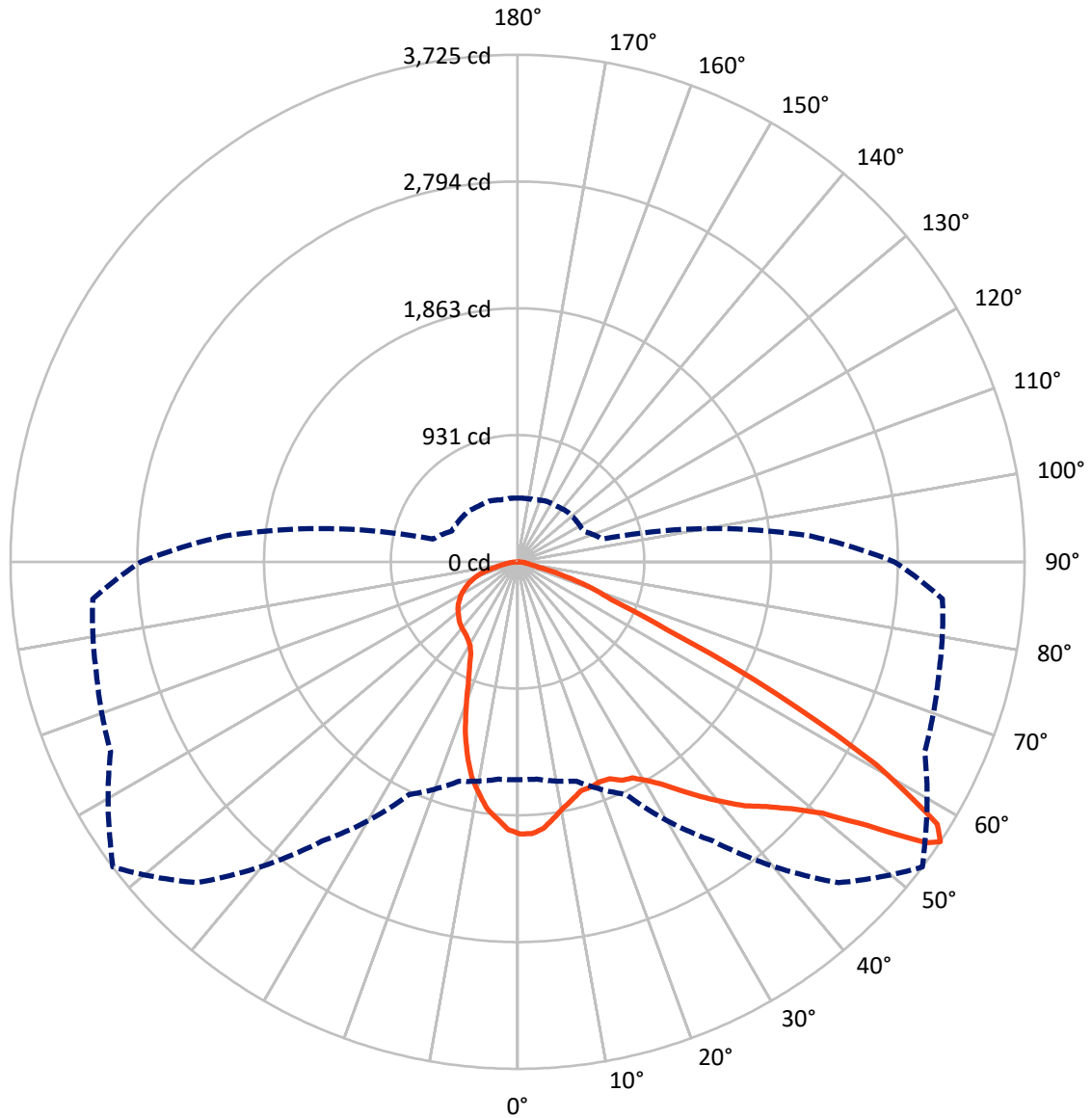
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P526776
CATALOG NUMBER: GALN-SA1D-730-U-SL2-GRSWH

Luminous Intensity Polar Plot



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

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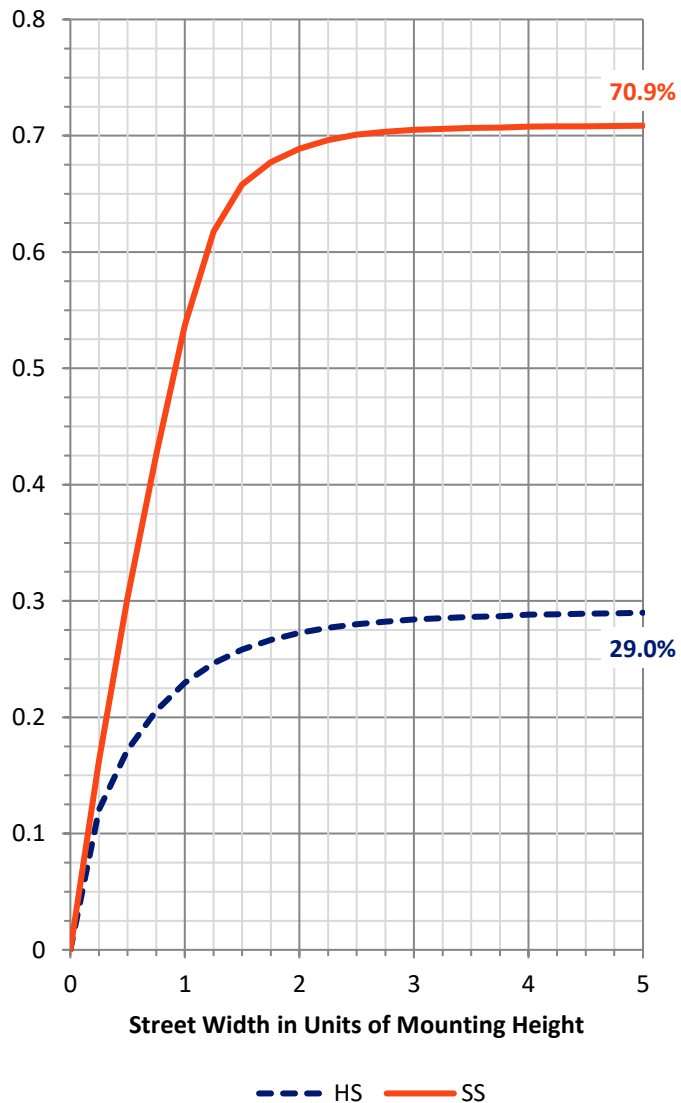
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1763.2	0.0	1763.2
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	4278.8	0.0	4278.8
	% Fixture	70.8	0.0	70.8
Total	Lumens	6042.0	0.0	6042.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.0	2.9
10°-20°	442.0	7.3
20°-30°	651.7	10.8
30°-40°	931.2	15.4
40°-50°	1281.7	21.2
50°-60°	1514.6	25.1
60°-70°	807.2	13.4
70°-80°	204.8	3.4
80°-90°	31.9	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°	6042.0	100.0
0°-180°	6042.0	100.0

Coefficient of Utilization

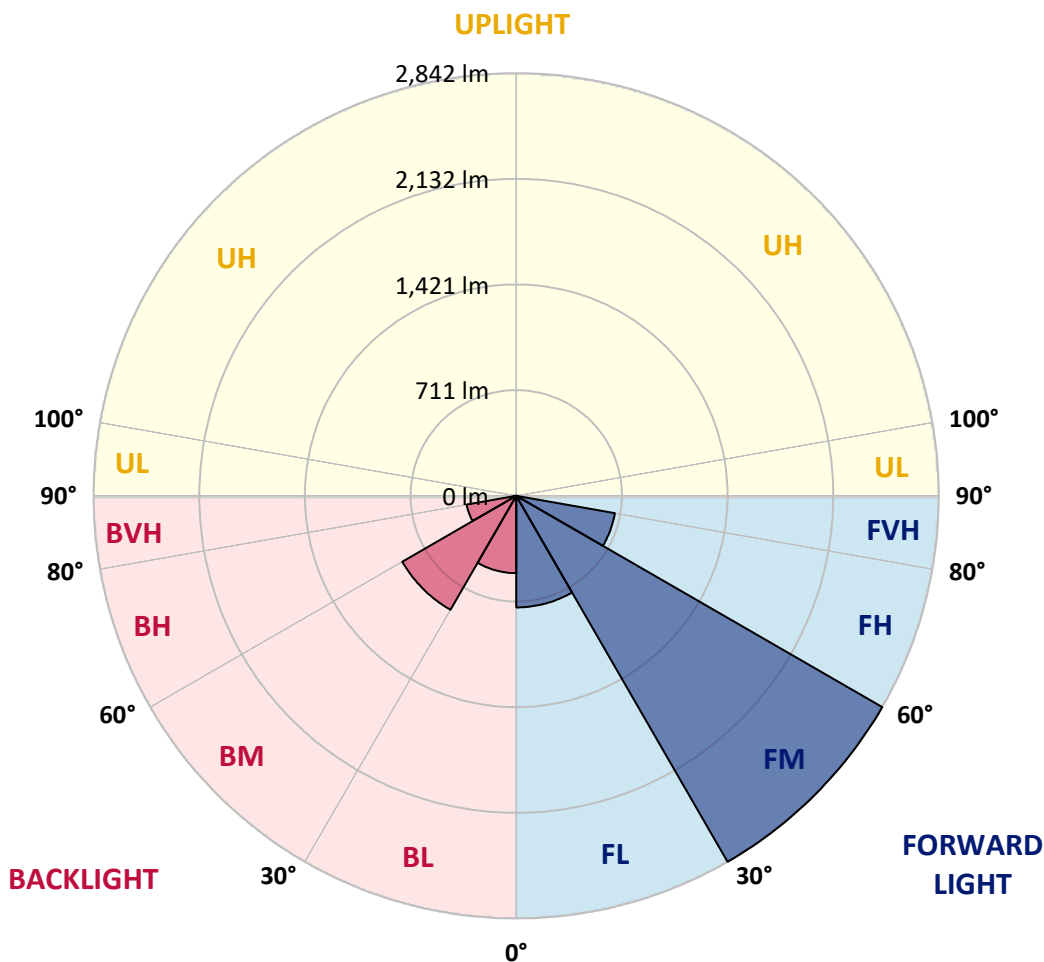


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	750.6	12.4			
FM (30°-60°)	2842.0	47.0			
FH (60°-80°)	673.3	11.1			G1/1800
FVH (80°-90°)	12.8	0.2			G1/100
BL (0°-30°)	520.0	8.6	B2/1000		
BM (30°-60°)	885.4	14.7	B1/1000		
BH (60°-80°)	338.6	5.6	B1/500		G1/500
BVH (80°-90°)	19.1	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°	1998.9	1998.9	1998.9	1998.9	1998.9	1998.9	1998.9	1998.9	1998.9	1998.9	1998.9
2.5°	1974.1	1957.1	1967.2	1963.3	1995.1	2004.4	1999.7	2003.6	2021.4	2012.9	1995.1
5°	1844.7	1868.7	1873.4	1885.0	1903.6	1940.0	1968.7	1976.5	1985.0	2024.5	2020.6
7.5°	1726.9	1743.2	1734.6	1768.7	1809.0	1867.9	1902.8	1909.0	1987.3	2009.0	2025.3
10°	1652.5	1636.2	1674.9	1684.2	1730.0	1797.4	1839.3	1864.8	1936.2	2022.2	2032.3
12.5°	1583.5	1578.1	1601.3	1627.7	1678.8	1748.6	1791.2	1801.3	1911.3	2002.0	2049.3
15°	1532.3	1526.1	1549.4	1568.8	1628.4	1690.4	1744.7	1773.4	1884.2	1990.4	2034.6
17.5°	1492.0	1491.3	1504.4	1539.3	1600.5	1652.5	1740.1	1741.6	1870.3	2008.2	2047.0
20°	1489.7	1488.9	1491.3	1530.0	1585.8	1649.4	1725.3	1739.3	1870.3	1995.8	2047.8
22.5°	1509.1	1496.7	1510.6	1535.4	1575.7	1654.8	1730.8	1761.8	1915.2	2057.1	2082.6
25°	1540.1	1543.2	1550.9	1559.5	1582.7	1667.2	1778.8	1804.4	1967.9	2109.8	2130.7
27.5°	1596.7	1595.1	1598.2	1602.9	1623.0	1678.8	1798.2	1864.1	2078.0	2203.6	2182.6
30°	1679.6	1674.2	1686.6	1702.9	1684.2	1716.0	1862.5	1912.1	2180.3	2298.1	2240.8
32.5°	1754.8	1774.9	1798.2	1805.2	1782.7	1788.9	1947.8	1998.2	2265.6	2414.4	2312.1
35°	1848.6	1864.8	1895.8	1917.5	1913.7	1895.1	2064.0	2130.7	2388.8	2499.6	2387.2
37.5°	1940.0	1959.4	2010.6	2074.9	2039.2	2030.7	2188.1	2243.1	2426.8	2545.4	2442.3
40°	2087.3	2086.5	2174.9	2208.2	2240.0	2225.3	2316.7	2335.3	2446.9	2535.3	2443.8
42.5°	2260.1	2249.3	2339.2	2391.1	2432.2	2433.8	2450.8	2444.6	2456.2	2484.1	2427.6
45°	2424.5	2447.7	2538.4	2631.4	2672.5	2677.1	2564.0	2552.3	2472.5	2469.4	2396.5
47.5°	2625.2	2630.6	2705.0	2827.5	2922.8	2890.3	2710.5	2684.9	2543.8	2567.8	2448.5
50°	2636.8	2677.1	2743.8	2887.9	3180.9	3172.4	2900.3	2852.3	2658.5	2707.4	2593.4
52.5°	2393.4	2384.1	2463.2	2698.8	3161.6	3453.0	3215.0	3100.3	2905.0	2867.8	2828.3
55°	1823.8	1845.5	1915.2	2153.2	2745.3	3456.9	3643.7	3549.9	3168.5	3105.0	3059.2
56°	1599.8	1602.9	1668.7	1885.8	2505.1	3333.6	3725.0	3649.1	3299.5	3202.6	3132.9
57.5°	1326.2	1308.3	1342.4	1461.0	2114.4	3073.2	3635.9	3710.3	3453.0	3308.0	3211.2
60°	1044.0	1040.2	1026.2	1047.9	1336.2	2315.2	3026.7	3194.1	3437.5	3208.8	3075.5
62.5°	852.6	833.2	861.1	892.1	928.5	1436.2	2126.8	2225.3	2729.1	2561.6	2310.5
65°	661.1	651.8	686.7	787.5	809.2	912.3	1211.5	1287.4	1611.4	1582.7	1393.6
67.5°	455.0	456.5	486.8	640.2	750.3	741.0	741.8	781.3	841.0	624.7	544.1
70°	288.3	287.6	303.8	412.3	603.8	610.0	579.0	567.4	537.9	325.5	344.9
72.5°	185.2	179.8	188.3	227.9	312.4	361.2	372.0	379.0	311.6	255.8	277.5
75°	104.6	99.2	96.1	106.2	123.2	142.6	156.6	161.2	180.6	193.8	205.4
77.5°	31.8	28.7	34.9	46.5	61.2	82.2	100.0	103.1	121.7	137.2	148.8
80°	14.0	15.5	21.7	31.0	43.4	58.1	70.5	75.2	87.6	99.2	102.3
82.5°	8.5	9.3	14.7	20.9	30.2	41.1	50.4	51.9	64.3	73.6	76.0
85°	3.1	3.9	7.8	12.4	19.4	26.4	26.4	28.7	26.4	26.4	28.7
87.5°	0.0	0.0	0.8	1.6	1.6	2.3	3.1	3.1	3.9	4.7	5.4
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°	1998.9	1998.9	1998.9	1998.9	1998.9	1998.9	1998.9	1998.9	1998.9	1998.9	1998.9
2.5°	2004.4	2000.5	1994.3	1971.8	1969.5	1962.5	1923.7	1917.5	1923.7	1905.1	1906.7
5°	2000.5	2012.1	1965.6	1943.1	1901.3	1871.0	1836.2	1818.3	1786.6	1766.4	1788.9
7.5°	2017.5	2012.9	1954.8	1905.9	1843.1	1766.4	1705.2	1670.3	1614.5	1599.0	1610.6
10°	2011.3	1986.5	1918.3	1854.0	1735.4	1668.0	1568.8	1472.7	1419.9	1392.8	1388.9
12.5°	2002.8	1995.8	1881.9	1771.1	1646.3	1504.4	1364.9	1274.2	1188.2	1151.0	1156.4
15°	2012.9	1954.0	1813.7	1673.4	1507.5	1321.5	1171.1	1054.1	994.4	970.4	970.4
17.5°	2008.2	1933.8	1781.1	1564.1	1354.1	1133.9	968.9	898.3	873.5	873.5	880.5
20°	2010.6	1947.0	1715.3	1454.8	1172.7	954.9	834.8	809.2	820.0	823.9	827.8
22.5°	2023.7	1903.6	1650.9	1334.7	1004.5	816.9	758.0	758.8	778.2	799.1	795.2
25°	2040.0	1886.5	1572.6	1215.3	875.8	749.5	730.9	728.6	743.3	754.2	755.7
27.5°	2026.1	1857.1	1492.8	1066.5	770.4	704.5	700.7	702.2	706.9	728.6	721.6
30°	2071.8	1865.6	1392.8	941.7	712.3	689.8	685.2	682.8	689.8	696.0	690.6
32.5°	2128.4	1835.4	1318.4	821.6	683.6	679.0	669.7	666.6	670.4	664.2	667.3
35°	2153.2	1830.0	1221.5	735.6	661.1	657.3	651.8	651.1	651.8	646.4	641.8
37.5°	2167.1	1855.5	1110.7	696.0	647.2	651.1	638.7	637.1	623.2	626.3	628.6
40°	2191.2	1816.0	1020.8	658.0	638.7	630.9	620.1	617.7	608.4	603.0	608.4
42.5°	2156.3	1804.4	932.4	641.8	626.3	617.7	610.0	596.8	593.7	589.1	586.0
45°	2128.4	1737.7	853.4	621.6	611.5	606.9	592.2	578.2	566.6	571.2	564.3
47.5°	2149.3	1714.5	775.1	604.6	591.4	586.0	571.2	560.4	548.8	543.3	541.8
50°	2233.0	1757.9	709.2	592.2	574.3	571.2	551.9	539.5	528.6	524.7	526.3
52.5°	2433.0	1876.5	664.2	566.6	558.1	544.1	533.3	517.8	510.8	498.4	506.1
55°	2686.4	2069.5	652.6	542.6	537.9	525.5	510.8	499.2	486.0	475.9	473.6
56°	2767.8	2161.7	643.3	533.3	525.5	518.5	499.2	492.2	471.2	468.9	467.4
57.5°	2833.7	2243.1	644.9	515.4	507.7	501.5	489.9	472.8	458.8	450.3	454.2
60°	2684.9	2099.7	615.4	488.3	486.8	475.1	458.8	451.1	434.0	424.0	421.6
62.5°	1995.8	1425.4	499.2	453.4	452.6	440.2	421.6	413.1	410.0	396.1	396.1
65°	1149.4	893.7	431.7	424.7	418.5	406.1	387.5	380.6	372.8	368.2	364.3
67.5°	490.6	463.5	392.2	391.4	384.4	368.9	350.3	339.5	329.4	320.1	324.8
70°	355.8	361.2	354.2	350.3	341.8	322.4	306.2	293.0	277.5	271.3	275.9
72.5°	282.1	293.8	303.8	304.6	294.5	272.1	254.2	236.4	219.3	210.8	214.7
75°	213.9	221.7	231.7	234.1	219.3	203.8	186.8	168.2	155.0	144.9	146.5
77.5°	154.2	152.7	162.0	160.4	153.5	142.6	127.1	110.1	95.3	86.0	86.8
80°	105.4	107.7	113.2	112.4	103.9	96.9	85.3	71.3	60.5	52.7	51.2
82.5°	73.6	77.5	82.2	78.3	71.3	64.3	55.8	45.7	37.2	31.0	29.5
85°	26.4	30.2	34.9	37.2	39.5	38.0	31.8	25.6	18.6	15.5	14.7
87.5°	5.4	6.2	7.0	7.0	7.0	6.2	5.4	5.4	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)