

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: P651179

Luminaire Tested: **GALN-SA1D-840-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651179
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-840-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5569.1 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

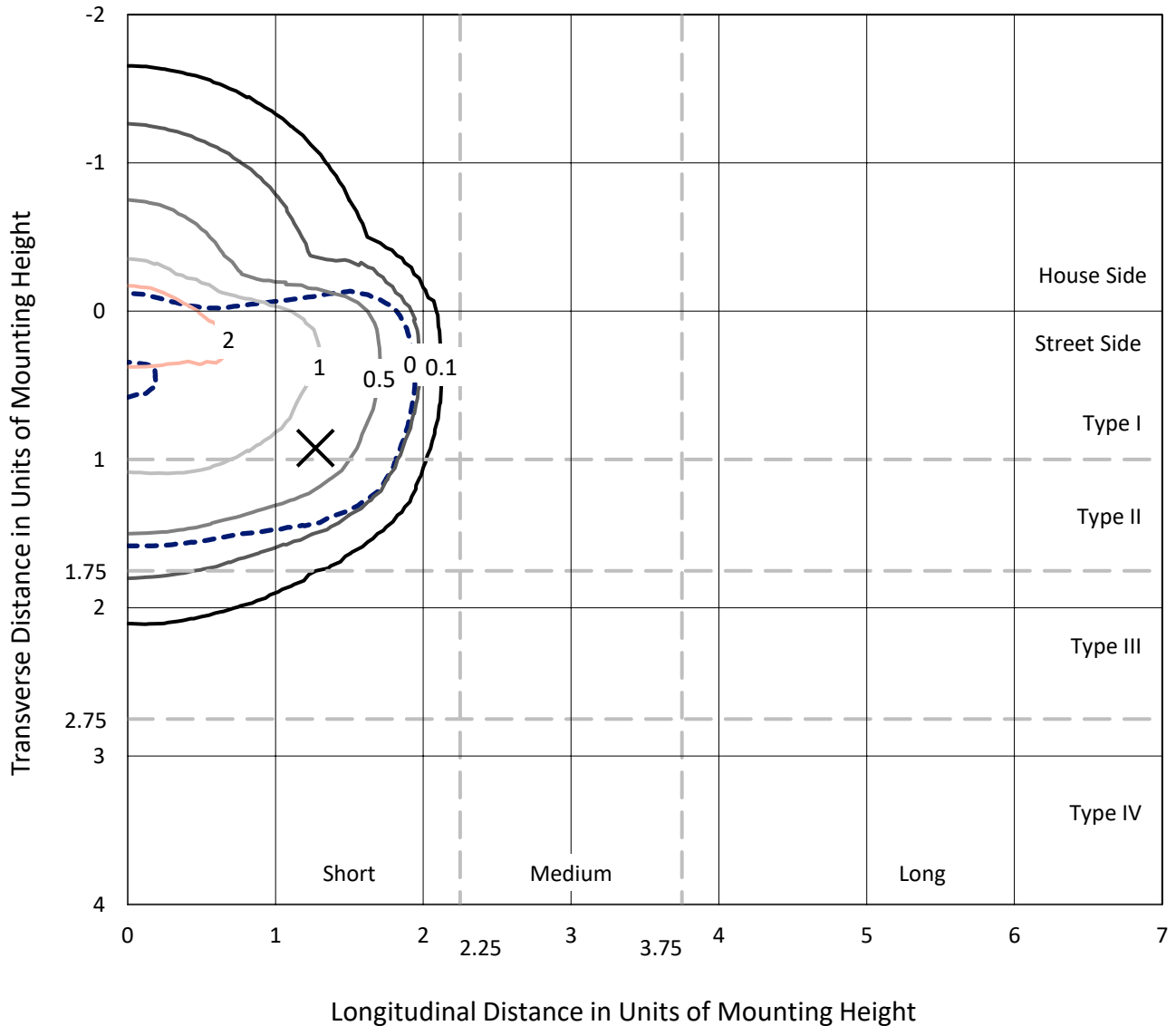
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651179
 CATALOG NUMBER: GALN-SA1D-840-U-SL3-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

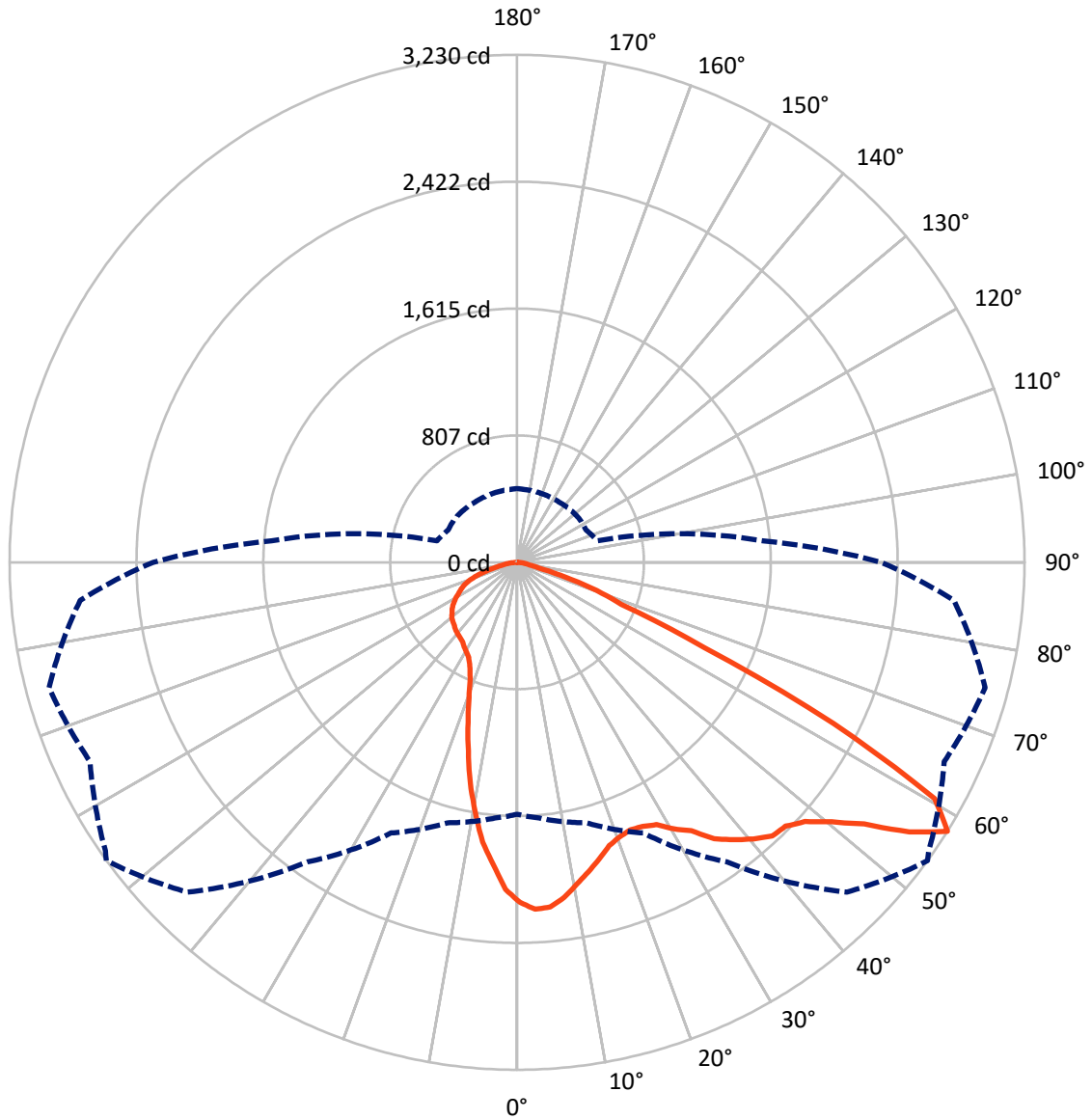
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type II - Short - N/A

REPORT NUMBER: P651179
CATALOG NUMBER: GALN-SA1D-840-U-SL3-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P651179
 CATALOG NUMBER: GALN-SA1D-840-U-SL3-GRSWH

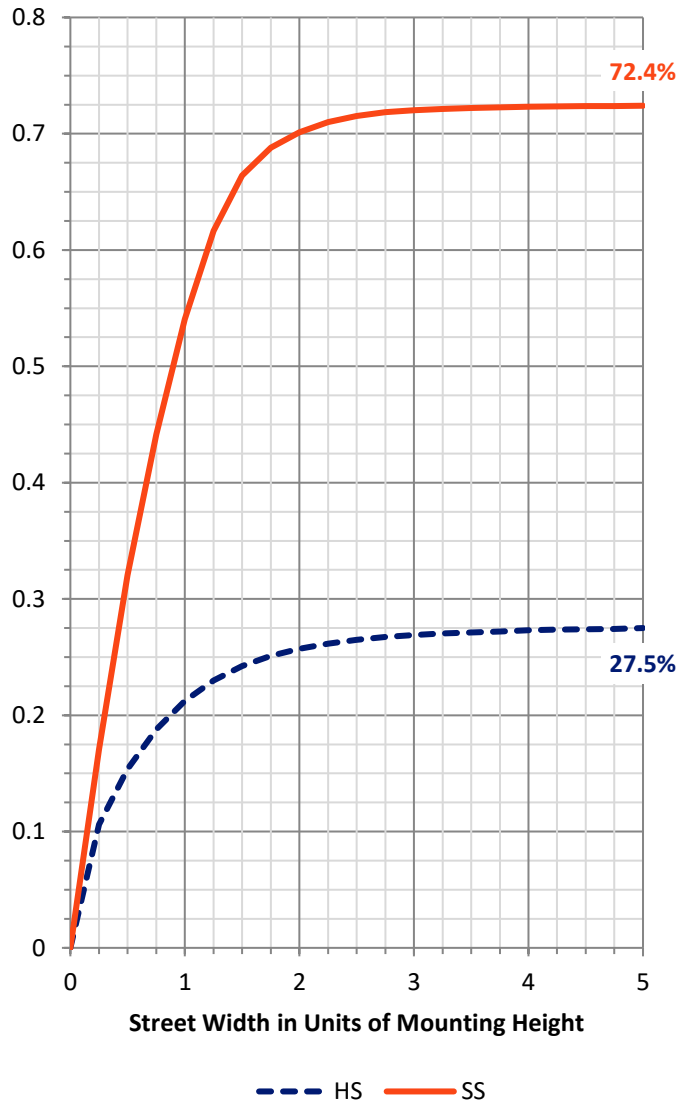
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1540.7	0.0	1540.7
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	4028.4	0.0	4028.4
	% Fixture	72.3	0.0	72.3
Total	Lumens	5569.1	0.0	5569.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.7	3.4
10°-20°	432.2	7.8
20°-30°	607.3	10.9
30°-40°	849.0	15.2
40°-50°	1149.4	20.6
50°-60°	1400.0	25.1
60°-70°	729.2	13.1
70°-80°	186.8	3.4
80°-90°	28.5	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°	5569.1	100.0
0°-180°	5569.1	100.0

Coefficient of Utilization

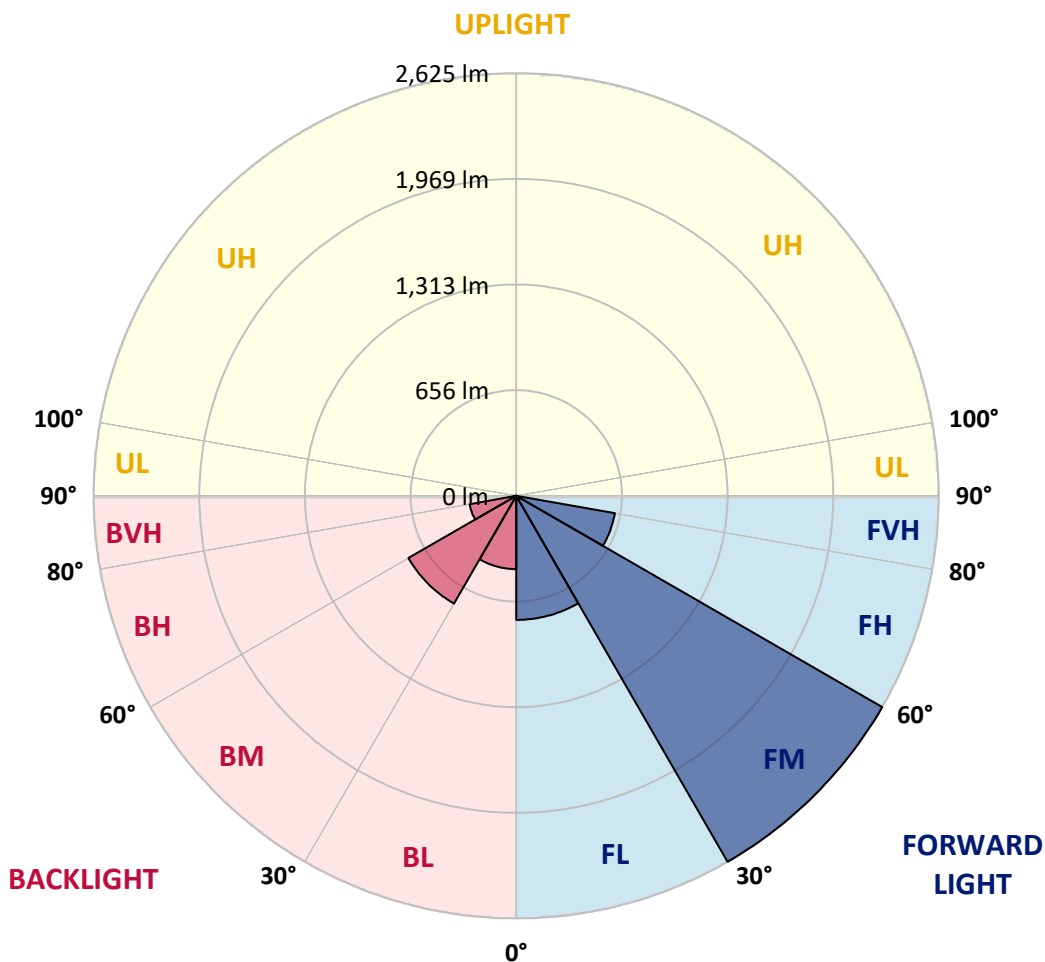


REPORT NUMBER: P651179
 CATALOG NUMBER: GALN-SA1D-840-U-SL3-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	770.8	13.8			
FM (30°-60°)	2625.1	47.1			
FH (60°-80°)	621.7	11.2			G0/660
FVH (80°-90°)	10.8	0.2			G1/100
BL (0°-30°)	455.4	8.2	B1/500		
BM (30°-60°)	773.3	13.9	B1/1000		
BH (60°-80°)	294.4	5.3	B1/500		G1/500
BVH (80°-90°)	17.7	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-G1
 Type II Short





REPORT NUMBER: P651179

CATALOG NUMBER: GALN-SA1D-840-U-SL3-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2164.6	2164.6	2164.6	2164.6	2164.6	2164.6	2164.6	2164.6	2164.6	2164.6	2164.6
2.5°	2226.2	2217.6	2219.1	2230.5	2216.2	2210.5	2210.5	2182.6	2184.7	2165.3	2160.4
5°	2174.7	2154.6	2168.3	2185.4	2188.3	2194.0	2203.3	2196.1	2176.1	2155.3	2121.7
7.5°	2040.1	2058.0	2063.0	2075.2	2100.9	2124.5	2153.9	2133.9	2133.1	2112.4	2092.3
10°	1922.0	1911.3	1938.4	1956.3	1999.3	2038.7	2083.7	2081.6	2092.3	2068.7	2034.4
12.5°	1804.6	1796.0	1808.9	1849.7	1909.8	1967.1	2020.8	2000.7	2058.0	2053.7	1980.0
15°	1680.1	1686.5	1705.1	1743.1	1821.8	1890.5	1958.5	1959.2	2010.0	2027.2	1928.4
17.5°	1592.7	1585.5	1609.2	1665.7	1735.9	1818.2	1895.5	1911.3	1989.3	1999.3	1912.7
20°	1527.6	1537.6	1568.4	1597.0	1677.9	1777.4	1864.7	1870.5	1985.0	2012.2	1887.6
22.5°	1511.8	1506.1	1516.1	1562.7	1629.2	1737.3	1848.3	1869.7	1984.3	2007.9	1840.4
25°	1495.4	1514.0	1513.2	1559.8	1608.4	1705.1	1861.9	1885.4	2022.2	2030.1	1846.8
27.5°	1532.6	1530.5	1550.5	1554.1	1614.2	1713.7	1890.5	1908.4	2085.2	2078.8	1851.8
30°	1569.8	1559.0	1571.2	1613.5	1641.4	1763.1	1969.2	1967.8	2166.8	2162.5	1867.6
32.5°	1615.6	1610.6	1618.5	1655.7	1702.9	1828.9	2035.8	2078.0	2249.8	2277.0	1922.0
35°	1624.2	1645.0	1663.6	1713.7	1781.0	1935.6	2161.0	2196.1	2345.7	2430.9	2025.8
37.5°	1678.6	1686.5	1730.1	1818.9	1880.5	2078.0	2240.5	2262.7	2433.1	2529.7	2135.3
40°	1736.6	1745.9	1811.8	1904.8	1989.3	2171.1	2314.9	2322.1	2461.0	2605.6	2206.9
42.5°	1815.3	1823.9	1889.1	2005.7	2118.8	2250.5	2380.8	2388.7	2458.8	2692.9	2320.7
45°	1897.0	1917.6	1994.3	2126.7	2228.3	2343.6	2395.8	2428.1	2478.9	2770.9	2413.0
47.5°	2011.4	2030.8	2093.8	2223.4	2342.2	2425.2	2465.3	2496.8	2526.9	2839.0	2472.5
50°	2133.1	2136.7	2213.3	2330.7	2418.0	2517.5	2594.8	2605.6	2589.9	2917.7	2573.4
52.5°	2222.6	2234.1	2293.5	2408.0	2538.3	2660.7	2766.6	2778.1	2747.3	2947.0	2607.8
55°	2074.4	2068.0	2164.6	2317.1	2619.2	2874.0	3027.9	3036.5	2861.8	3037.9	2720.1
57.5°	1603.5	1634.2	1716.6	1900.5	2327.1	2968.5	3229.8	3199.0	2999.3	3083.8	2791.7
60°	1165.4	1158.2	1213.3	1336.4	1753.7	2558.3	3053.7	3085.2	2886.9	2779.5	2302.1
62.5°	949.2	939.1	943.4	947.7	1131.7	1697.9	2260.6	2259.9	2223.4	1997.9	1552.7
65°	758.8	782.4	784.6	816.8	840.4	1014.3	1309.9	1380.1	1201.9	985.7	715.1
67.5°	572.0	563.4	592.0	706.5	750.9	732.3	715.1	723.0	513.9	370.8	349.4
70°	337.2	333.5	367.9	492.5	618.5	582.0	539.0	539.8	352.9	259.1	288.5
72.5°	184.7	183.9	191.2	249.9	351.5	365.1	323.5	333.5	210.4	209.7	225.5
75°	103.1	100.9	98.8	110.3	126.7	133.9	136.7	138.2	144.6	161.8	168.2
77.5°	37.9	36.5	36.5	42.2	53.7	67.3	85.2	86.6	102.3	117.4	123.8
80°	12.9	14.3	19.3	26.5	35.8	47.9	57.9	59.4	72.3	82.3	84.4
82.5°	7.9	8.6	12.9	18.6	25.7	33.6	43.0	43.6	53.7	60.1	63.0
85°	3.6	4.3	7.1	11.4	16.5	22.2	22.9	22.9	22.2	22.9	21.4
87.5°	0.0	0.0	1.4	1.4	1.4	2.2	2.9	2.2	3.6	4.3	4.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P651179

CATALOG NUMBER: GALN-SA1D-840-U-SL3-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2164.6	2164.6	2164.6	2164.6	2164.6	2164.6	2164.6	2164.6	2164.6	2164.6	2164.6
2.5°	2145.3	2137.5	2113.1	2091.7	2085.2	2056.6	2014.4	2019.3	1988.5	2002.8	1987.9
5°	2116.0	2089.5	2027.2	2000.7	1931.3	1899.8	1878.3	1824.6	1799.6	1794.5	1773.1
7.5°	2040.8	2024.4	1946.3	1874.8	1801.0	1738.0	1657.1	1602.0	1562.7	1551.9	1520.4
10°	1981.4	1944.9	1836.8	1728.0	1622.8	1513.2	1408.0	1325.7	1285.6	1239.1	1223.3
12.5°	1922.7	1867.6	1721.5	1582.0	1445.9	1307.8	1180.4	1080.2	992.9	972.1	965.0
15°	1886.2	1790.2	1618.5	1450.2	1257.0	1076.6	949.2	883.3	829.6	807.4	823.2
17.5°	1838.3	1726.6	1519.7	1295.6	1083.0	916.9	810.3	769.5	750.2	752.4	745.9
20°	1778.1	1666.4	1390.1	1155.4	927.7	795.2	734.4	719.4	722.3	727.3	725.1
22.5°	1735.2	1593.4	1296.3	1012.1	801.7	728.0	702.9	692.2	701.5	705.8	702.2
25°	1702.2	1531.1	1182.5	885.5	728.7	690.0	678.6	677.8	692.2	697.9	694.3
27.5°	1672.2	1473.2	1069.4	788.9	680.0	660.7	657.2	665.7	675.0	680.7	685.8
30°	1654.2	1428.8	963.5	708.0	655.7	646.4	639.9	647.8	652.9	658.6	655.7
32.5°	1671.4	1397.3	861.1	662.1	635.6	626.4	635.0	629.9	638.5	643.5	635.6
35°	1725.1	1369.4	788.1	637.8	612.8	616.3	617.7	615.6	619.1	614.9	624.2
37.5°	1778.1	1359.3	720.8	617.0	602.0	602.0	600.6	596.3	603.4	602.0	606.3
40°	1845.4	1365.8	663.5	594.8	592.0	590.6	584.8	584.1	581.2	582.0	583.4
42.5°	1904.1	1380.1	630.7	580.5	582.6	585.5	574.8	566.2	569.8	562.6	562.6
45°	1966.3	1392.9	601.3	570.5	568.3	567.7	559.1	554.1	551.2	551.9	558.3
47.5°	2064.4	1411.6	579.1	556.9	558.3	547.6	545.5	539.0	541.9	546.1	546.9
50°	2133.9	1451.0	562.0	541.2	546.1	539.0	526.1	523.3	523.3	530.4	529.0
52.5°	2182.6	1506.1	545.5	523.9	526.1	520.4	516.1	509.6	505.4	515.4	520.4
55°	2331.4	1597.7	541.2	509.6	509.0	503.3	495.3	488.9	486.8	488.2	498.2
57.5°	2317.1	1569.1	527.6	484.6	483.2	475.3	467.4	465.3	464.6	466.0	468.9
60°	1881.1	1158.9	471.0	456.0	453.8	452.4	444.6	436.0	431.6	436.0	432.4
62.5°	1244.8	776.0	415.2	421.6	423.0	419.5	406.6	398.0	399.4	404.4	396.5
65°	611.3	456.0	376.5	393.7	395.1	385.1	373.0	362.9	357.9	362.2	358.6
67.5°	349.4	348.6	345.1	362.9	362.2	352.2	332.9	324.3	315.7	317.1	315.0
70°	296.4	302.1	309.2	320.0	319.2	307.8	284.9	278.5	266.3	264.8	261.3
72.5°	233.4	243.4	259.1	267.0	260.5	246.2	231.2	220.5	209.7	203.3	205.5
75°	173.2	187.5	196.1	201.2	191.2	183.3	171.1	158.2	145.3	139.6	137.4
77.5°	126.0	130.3	138.2	141.7	135.3	127.4	120.3	107.4	95.2	87.3	85.2
80°	88.1	90.9	96.6	96.6	96.6	93.1	83.8	70.9	63.0	55.8	54.4
82.5°	61.6	64.4	70.1	67.3	66.6	62.3	56.5	46.5	37.9	33.0	31.5
85°	21.4	23.6	28.6	34.4	36.5	35.8	32.2	25.7	20.0	16.5	15.1
87.5°	5.0	5.0	5.7	5.0	5.0	5.7	5.0	5.0	5.0	3.6	2.9
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)