

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: P647771

Luminaire Tested: **GALN-SA2A-835-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647771
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-835-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7137 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

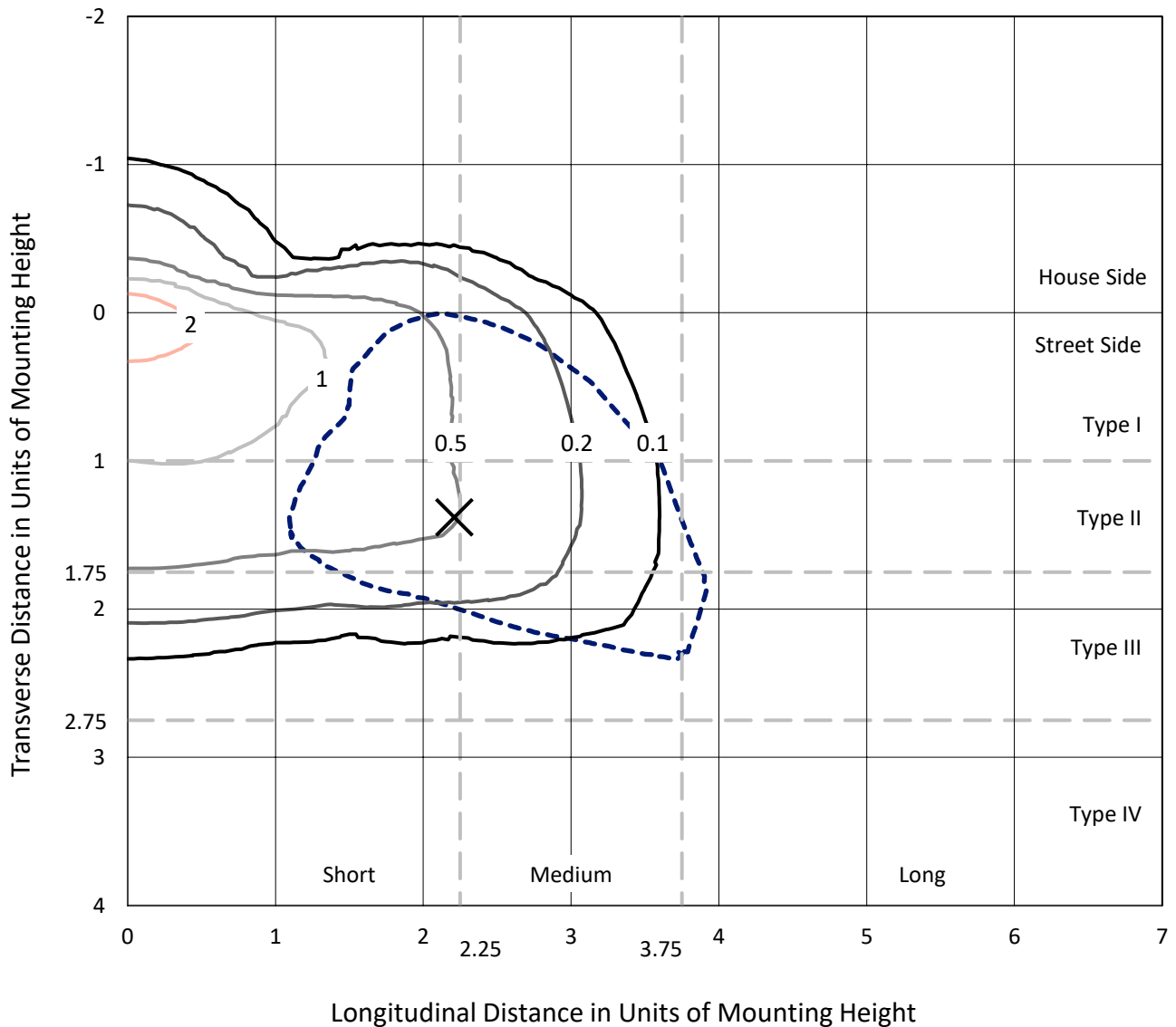
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

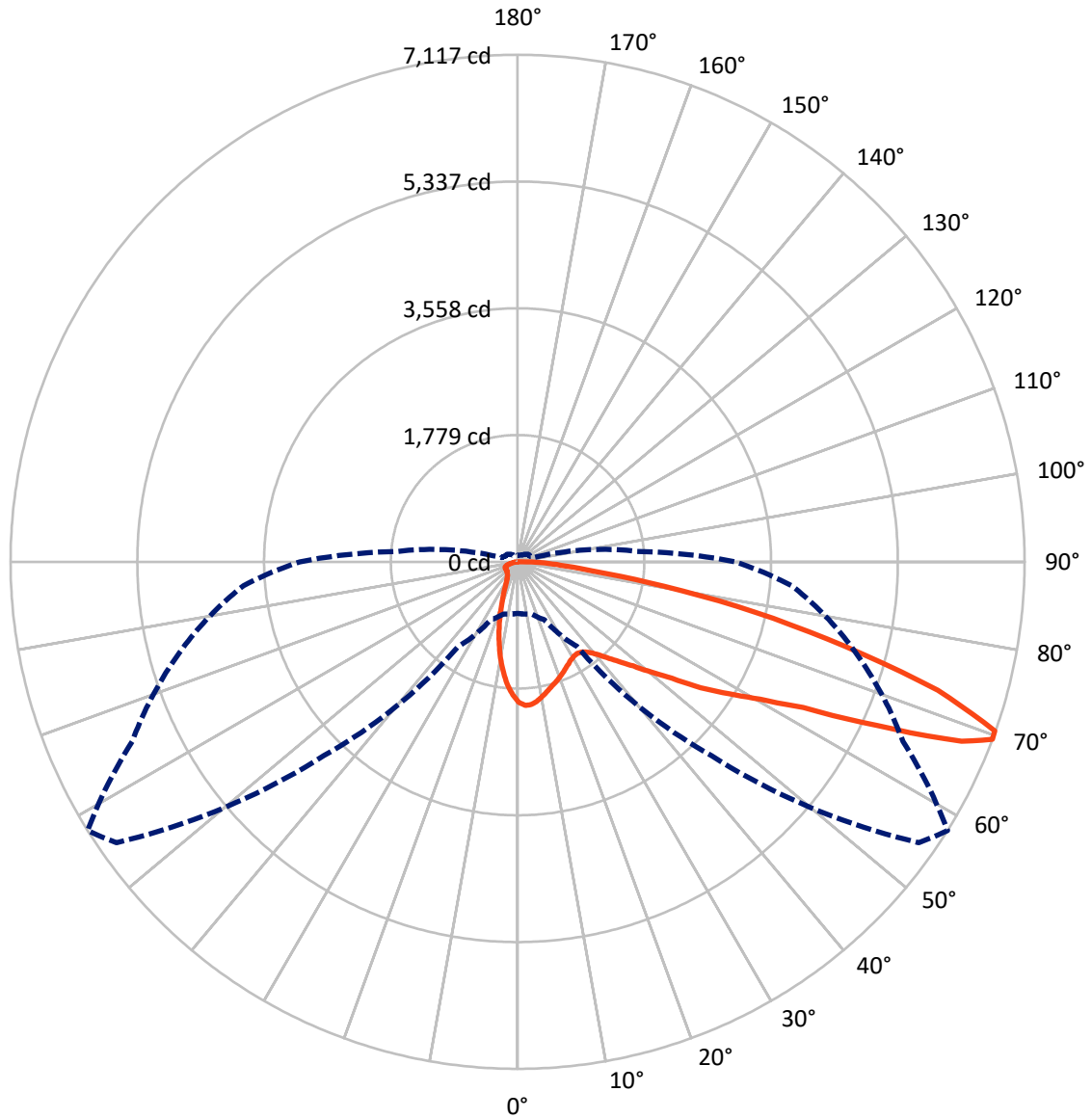
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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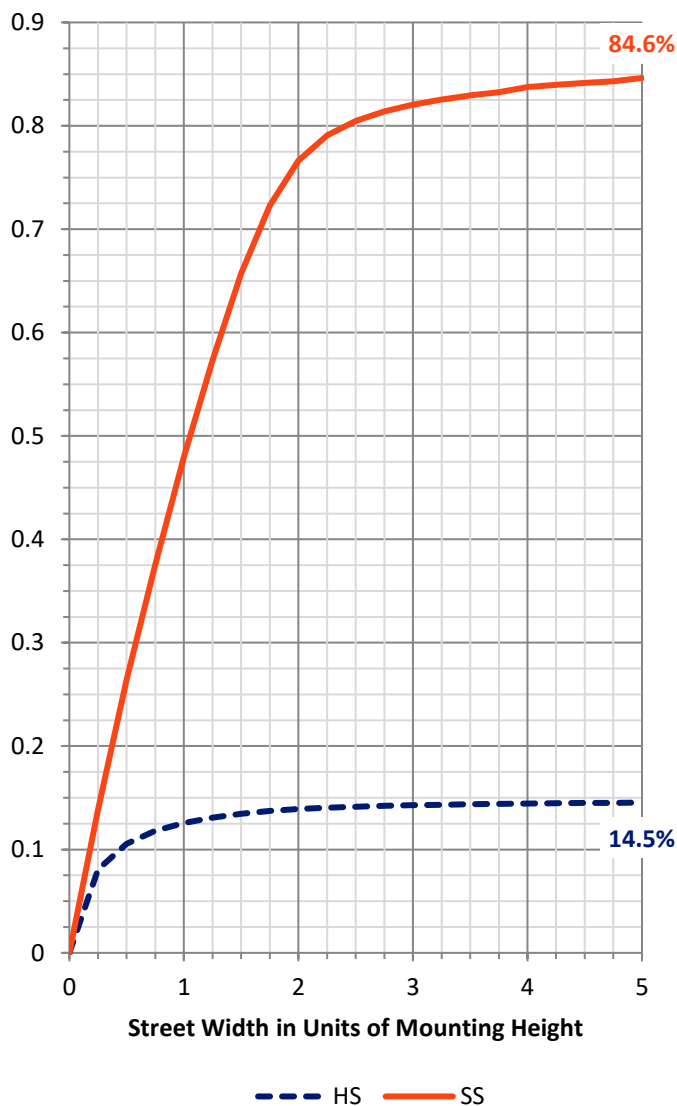
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1045.9	0.0	1045.9
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	6091.1	0.0	6091.1
	% Fixture	85.3	0.0	85.3
Total	Lumens	7137.0	0.0	7137.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.5	2.3
10°-20°	367.8	5.2
20°-30°	475.2	6.7
30°-40°	617.2	8.6
40°-50°	897.3	12.6
50°-60°	1431.8	20.1
60°-70°	1912.7	26.8
70°-80°	1102.6	15.4
80°-90°	165.1	2.3
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°	7137.0	100.0
0°-180°	7137.0	100.0

Coefficient of Utilization

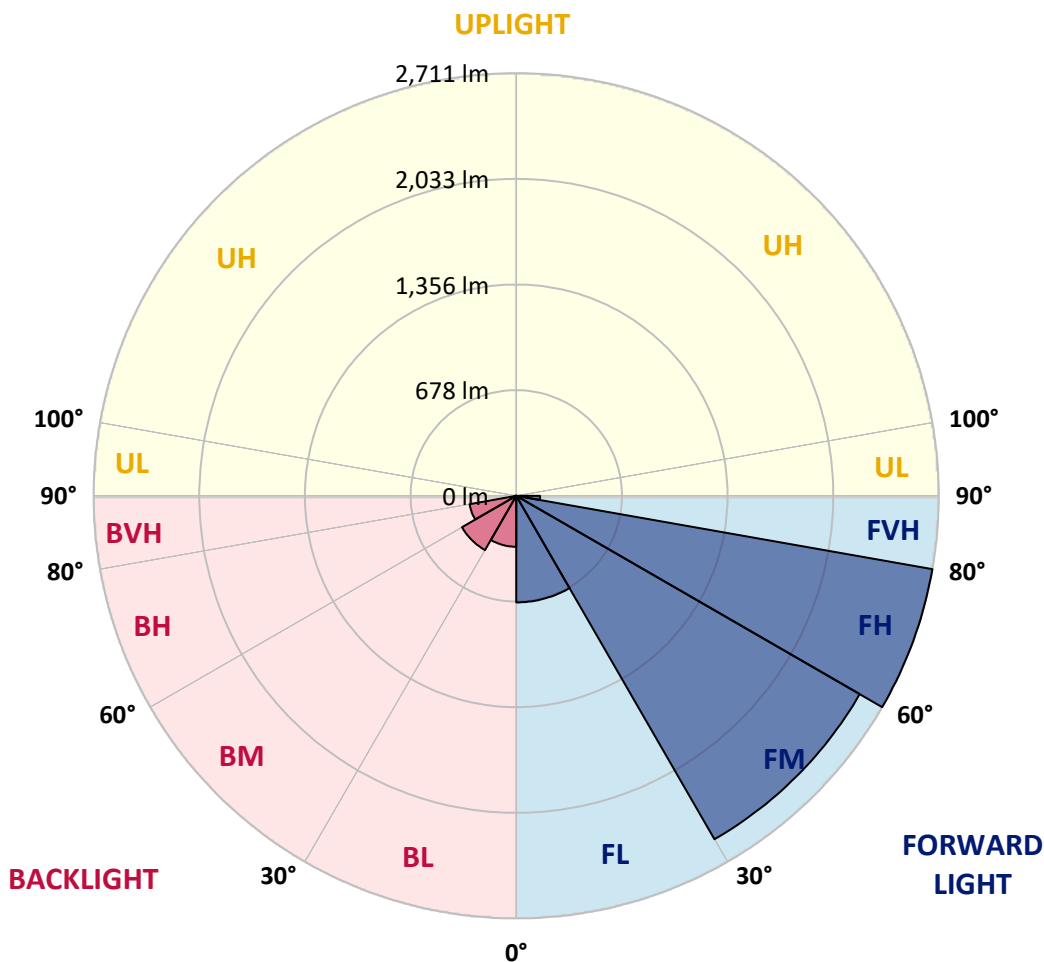


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	683.5	9.6			
FM (30°-60°)	2544.0	35.6			
FH (60°-80°)	2711.1	38.0			G2/5000
FVH (80°-90°)	152.5	2.1			G2/225
BL (0°-30°)	326.9	4.6	B1/500		
BM (30°-60°)	402.2	5.6	B1/1000		
BH (60°-80°)	304.1	4.3	B1/500		G1/500
BVH (80°-90°)	12.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1972.3	1972.3	1972.3	1972.3	1972.3	1972.3	1972.3	1972.3	1972.3	1972.3	1972.3
2.5°	2045.5	2051.1	2049.5	2047.5	2044.3	2035.6	2021.2	2018.8	2009.6	1990.2	1965.9
5°	2014.0	2018.8	2019.2	2022.0	2026.0	2024.4	2014.0	2012.9	1999.3	1973.1	1932.4
7.5°	1906.2	1912.6	1926.5	1942.0	1955.9	1969.1	1972.3	1974.3	1965.9	1935.7	1881.5
10°	1784.8	1791.2	1797.5	1820.6	1854.8	1887.5	1914.5	1918.1	1920.2	1892.3	1826.2
12.5°	1650.3	1663.4	1677.0	1711.2	1756.9	1808.3	1856.0	1863.6	1877.2	1856.0	1778.4
15°	1536.0	1549.6	1569.1	1599.7	1655.0	1729.1	1796.4	1808.7	1835.4	1824.6	1733.9
17.5°	1456.8	1461.5	1475.1	1510.2	1569.8	1647.9	1737.8	1762.5	1805.0	1802.3	1695.7
20°	1394.3	1400.3	1408.6	1430.1	1492.2	1574.6	1683.3	1715.2	1772.9	1782.4	1657.8
22.5°	1368.1	1372.4	1371.3	1382.8	1425.0	1507.7	1627.9	1665.8	1744.2	1768.9	1622.8
25°	1369.6	1373.6	1367.7	1364.8	1389.9	1448.9	1570.2	1618.4	1721.1	1759.7	1591.0
27.5°	1396.3	1399.1	1387.9	1376.8	1378.8	1412.2	1522.5	1575.8	1701.6	1763.7	1564.3
30°	1432.1	1437.3	1430.1	1416.6	1401.9	1403.4	1491.8	1544.4	1692.5	1777.6	1551.5
32.5°	1478.3	1483.1	1479.9	1469.1	1450.0	1429.0	1484.3	1532.8	1693.2	1805.9	1548.8
35°	1526.9	1536.4	1541.6	1540.8	1525.3	1488.6	1514.1	1554.3	1712.3	1853.3	1565.1
37.5°	1581.8	1589.7	1612.0	1626.4	1612.0	1569.4	1581.4	1609.2	1754.5	1921.7	1600.9
40°	1635.1	1647.0	1679.7	1724.3	1718.7	1681.3	1684.1	1702.4	1828.9	2023.6	1670.9
42.5°	1690.9	1705.2	1762.1	1828.1	1841.3	1812.3	1819.8	1836.1	1934.9	2164.9	1791.2
45°	1762.5	1779.6	1849.7	1932.1	1983.8	1965.9	1987.4	1995.3	2076.5	2348.8	1949.6
47.5°	1854.8	1874.7	1961.1	2063.8	2137.0	2153.3	2190.8	2186.0	2252.1	2566.5	2155.0
50°	2010.5	2021.6	2103.2	2207.9	2308.6	2382.2	2422.8	2430.4	2469.8	2778.3	2384.6
52.5°	2195.5	2205.5	2264.4	2356.0	2482.1	2638.2	2738.5	2713.8	2723.4	3036.2	2653.3
55°	2403.7	2420.4	2457.8	2518.8	2682.3	2912.1	3113.4	3119.4	3013.5	3283.0	2910.8
57.5°	2565.0	2593.2	2657.3	2744.0	2951.4	3216.5	3487.2	3491.2	3355.9	3546.5	3195.0
60°	2483.8	2517.2	2663.6	2875.0	3304.5	3747.9	3933.8	3911.1	3688.9	3846.6	3541.7
62.5°	2133.4	2139.5	2352.4	2682.7	3413.2	4458.8	4598.5	4502.6	4133.6	4227.1	3893.9
65°	1380.8	1419.8	1588.6	2051.5	3056.1	4853.3	5763.1	5541.4	4756.9	4659.0	4188.9
67.5°	871.7	861.8	931.8	1171.4	2102.0	4505.8	6757.1	6722.0	5572.1	4931.6	4118.5
69°	722.9	734.0	757.9	897.9	1446.4	3847.0	6874.4	7116.5	5967.3	4910.2	3862.5
70°	655.5	660.8	685.8	796.1	1116.1	3222.1	6681.8	7105.7	6122.6	4820.2	3677.0
72.5°	520.2	519.8	562.8	662.3	834.3	1839.3	5486.5	6169.1	5949.0	4401.5	3038.2
75°	395.3	401.6	449.0	560.5	768.6	1005.1	3828.7	4750.9	4751.3	3476.4	1895.9
77.5°	285.0	289.0	344.3	470.5	724.0	814.8	2550.2	3407.5	3203.4	1592.9	595.9
80°	186.7	189.1	231.2	372.6	652.8	768.6	1512.1	2085.7	1511.0	422.7	197.0
82.5°	102.3	114.2	141.3	241.2	523.8	710.1	919.1	1055.6	566.8	188.2	102.7
85°	51.4	54.5	79.6	140.9	342.3	587.5	640.0	605.4	292.5	93.6	53.3
87.5°	15.1	19.1	33.0	54.5	138.9	306.1	356.3	319.6	112.7	33.8	11.1
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°	1972.3	1972.3	1972.3	1972.3	1972.3	1972.3	1972.3	1972.3	1972.3	1972.3	1972.3
2.5°	1955.9	1948.8	1916.9	1888.3	1862.0	1834.2	1810.7	1789.9	1792.0	1792.4	1771.2
5°	1911.4	1895.0	1834.6	1778.0	1730.3	1669.7	1618.0	1584.6	1567.9	1545.6	1553.6
7.5°	1850.9	1819.4	1735.4	1641.5	1553.6	1475.1	1389.9	1331.4	1294.0	1257.8	1262.6
10°	1788.4	1737.8	1615.6	1491.5	1377.6	1252.3	1143.6	1050.4	981.2	955.3	938.2
12.5°	1724.3	1657.8	1502.6	1337.4	1180.1	1030.1	876.1	776.2	699.8	659.1	664.3
15°	1665.8	1584.9	1384.7	1183.3	979.1	800.5	646.8	551.7	498.3	487.2	493.5
17.5°	1611.6	1505.8	1274.5	1033.7	795.3	600.2	486.0	432.3	410.8	404.8	404.4
20°	1555.9	1438.5	1150.7	873.7	619.7	465.3	398.9	373.7	369.8	372.2	372.6
22.5°	1499.4	1355.3	1023.4	714.9	493.5	380.5	348.7	341.9	345.1	350.7	351.5
25°	1447.2	1282.1	900.8	575.6	394.1	334.3	318.8	318.8	326.0	334.3	334.7
27.5°	1404.2	1211.2	778.5	457.0	330.0	300.9	295.7	298.6	308.5	314.8	315.2
30°	1368.8	1145.1	663.1	366.2	290.2	274.3	273.0	277.8	285.0	291.0	291.4
32.5°	1342.1	1087.0	555.2	307.7	262.7	253.9	253.5	257.1	261.1	262.7	264.3
35°	1331.8	1038.9	456.6	270.7	244.4	238.8	238.8	238.4	240.0	240.8	241.6
37.5°	1340.2	1001.8	380.1	246.8	230.8	226.9	224.5	222.1	221.3	221.3	221.7
40°	1375.6	982.4	323.2	231.2	221.3	215.3	210.9	208.2	205.4	206.2	206.9
42.5°	1450.8	986.0	284.6	220.9	213.0	204.6	198.3	195.0	193.0	195.4	195.0
45°	1570.6	1021.7	259.9	213.8	204.6	193.9	187.8	184.7	184.7	188.2	189.5
47.5°	1738.2	1090.2	246.8	208.2	198.3	185.5	179.5	177.1	177.9	183.9	184.3
50°	1942.8	1209.3	244.4	205.4	195.0	179.5	172.7	170.4	172.3	178.7	179.5
52.5°	2168.5	1362.5	256.0	205.8	192.2	175.9	167.2	163.6	165.6	170.8	172.3
55°	2436.0	1554.3	285.8	207.3	188.2	173.9	163.2	155.3	157.6	161.2	161.6
57.5°	2709.0	1796.4	338.3	207.8	185.1	170.4	156.4	146.1	146.1	148.5	149.6
60°	3042.6	2059.8	407.6	208.2	185.5	165.2	147.3	135.7	134.1	135.3	135.7
62.5°	3373.7	2280.3	419.1	206.9	189.5	160.0	137.3	125.4	122.6	122.2	121.4
65°	3519.8	2239.4	343.5	201.4	193.9	156.8	129.4	115.4	110.6	109.1	109.1
67.5°	3281.8	1894.2	258.3	193.9	191.1	153.6	121.8	107.0	101.5	98.3	98.3
69°	3058.1	1684.9	232.1	188.7	183.9	148.5	117.1	102.7	95.9	92.3	91.1
70°	2885.4	1540.8	220.9	184.3	177.1	142.5	113.5	99.5	91.9	87.9	87.1
72.5°	2302.6	1208.8	193.5	167.6	150.9	119.8	100.7	89.6	82.4	78.0	76.8
75°	1327.0	655.1	160.4	145.7	121.4	93.2	85.2	78.0	72.4	68.4	67.3
77.5°	408.4	253.1	116.2	115.0	89.2	72.0	68.0	65.3	61.3	56.9	56.1
80°	171.9	129.0	78.8	77.6	59.3	50.2	48.9	48.5	47.0	43.4	42.2
82.5°	94.4	72.8	55.0	47.8	35.9	29.0	30.2	30.6	29.4	25.8	23.5
85°	46.2	39.8	26.7	21.5	16.3	10.3	9.9	12.0	11.1	8.0	8.8
87.5°	9.2	11.1	7.2	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0
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)