

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: P651731

Luminaire Tested: **GALN-SA2A-840-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651731
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-840-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 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: 7665.7 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

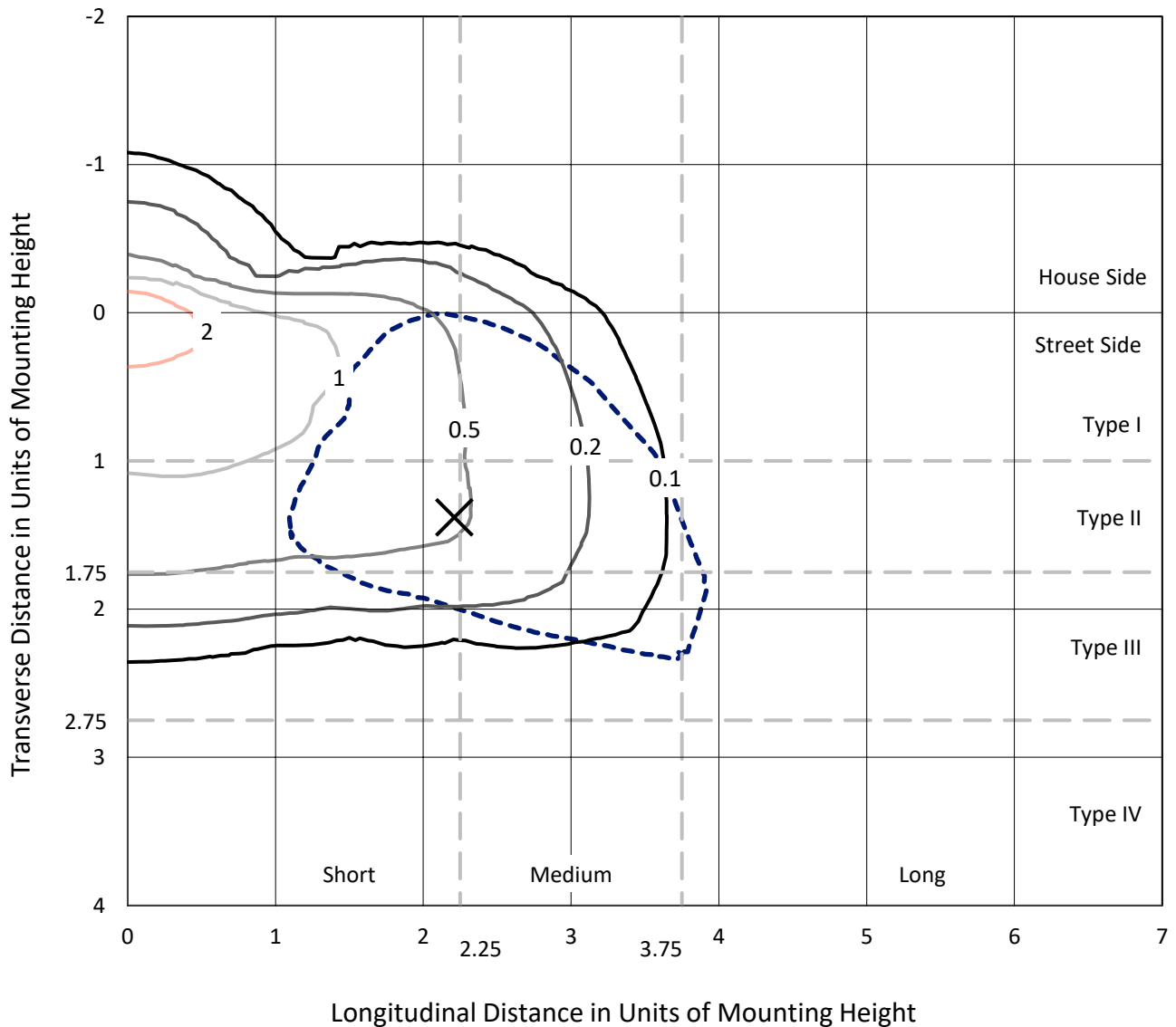
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

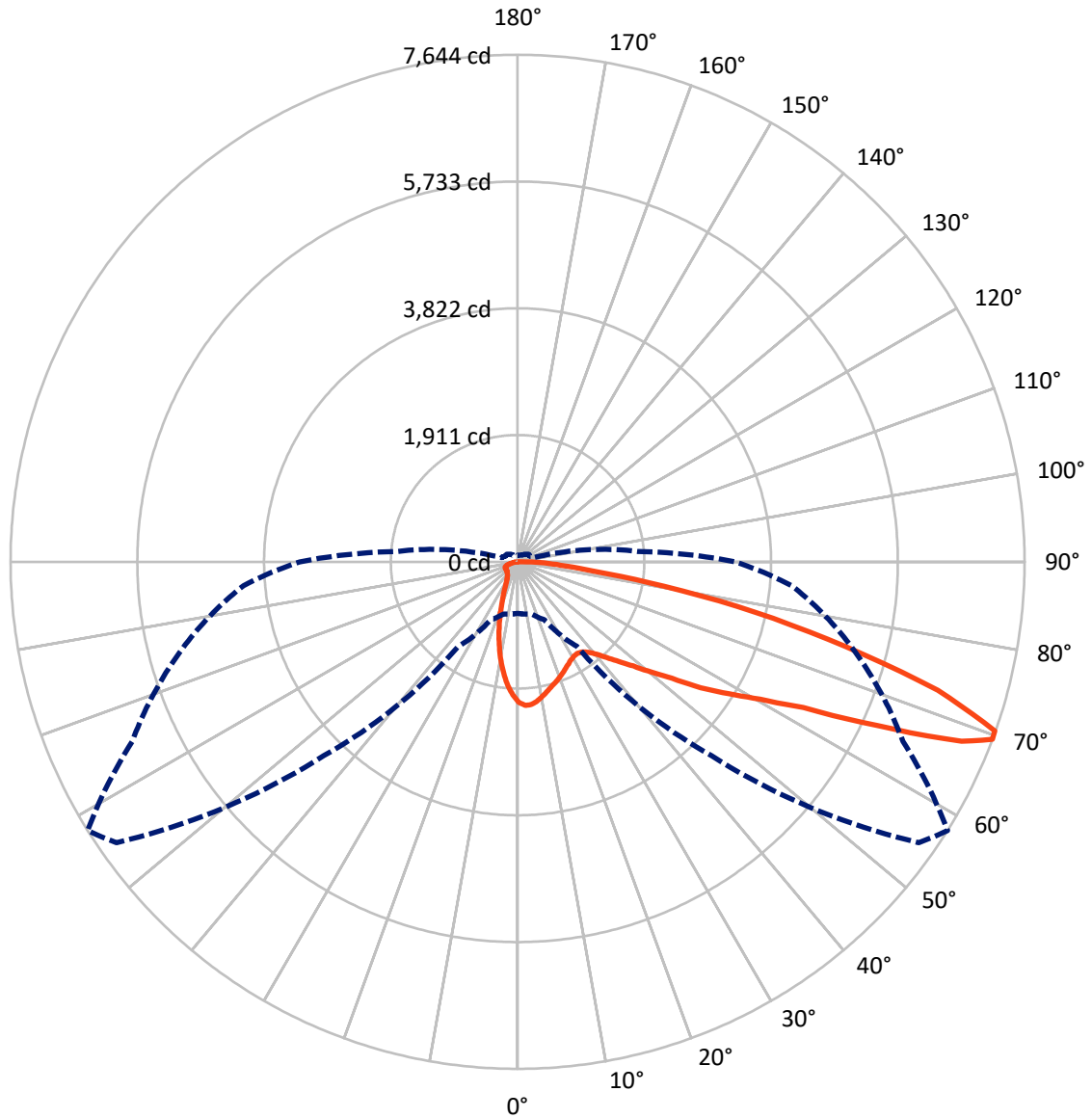
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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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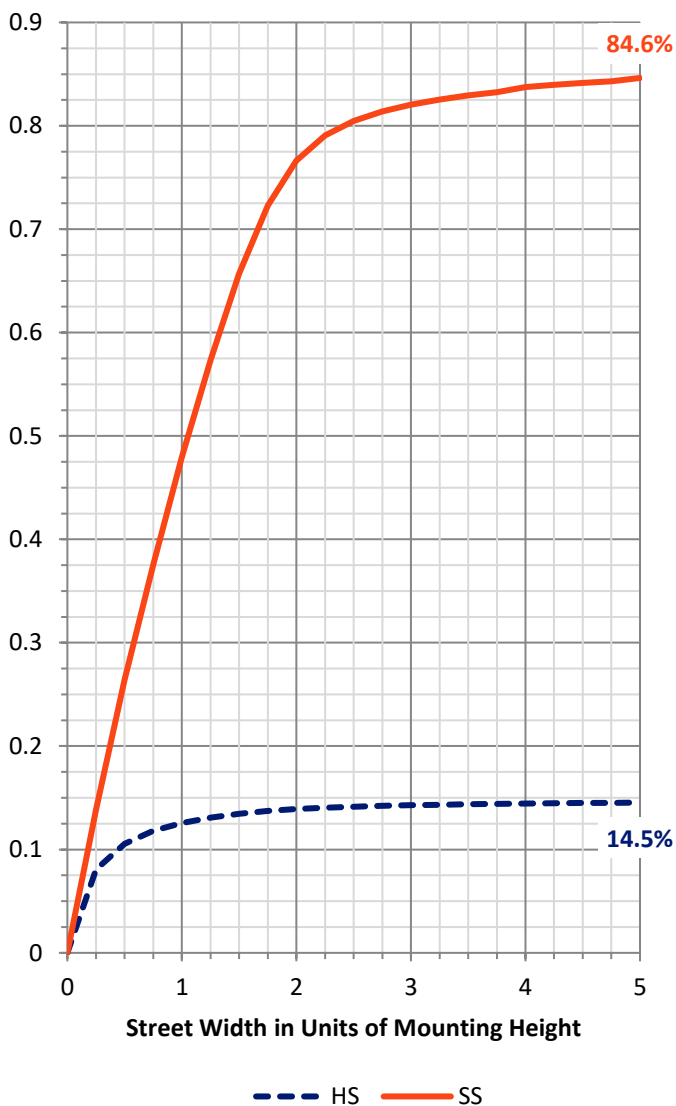
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1123.4	0.0	1123.4
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	6542.3	0.0	6542.3
	% Fixture	85.3	0.0	85.3
Total	Lumens	7665.7	0.0	7665.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.9	2.3
10°-20°	395.0	5.2
20°-30°	510.4	6.7
30°-40°	662.9	8.6
40°-50°	963.7	12.6
50°-60°	1537.8	20.1
60°-70°	2054.3	26.8
70°-80°	1184.2	15.4
80°-90°	177.4	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°	7665.7	100.0
0°-180°	7665.7	100.0

Coefficient of Utilization



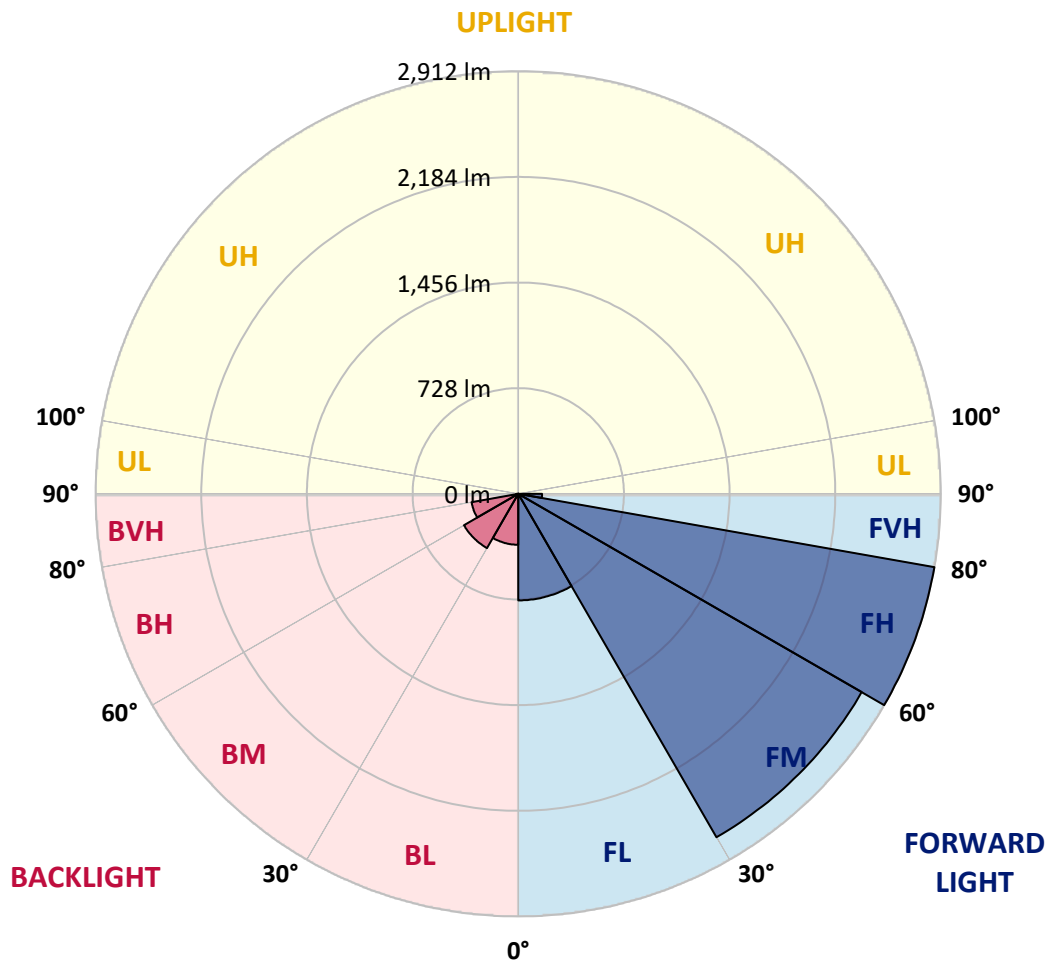
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	734.2	9.6			
FM (30°-60°)	2732.4	35.6			
FH (60°-80°)	2911.9	38.0			G2/5000
FVH (80°-90°)	163.8	2.1			G2/225
BL (0°-30°)	351.1	4.6	B1/500		
BM (30°-60°)	432.0	5.6	B1/1000		
BH (60°-80°)	326.7	4.3	B1/500		G1/500
BVH (80°-90°)	13.6	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°	2118.4	2118.4	2118.4	2118.4	2118.4	2118.4	2118.4	2118.4	2118.4	2118.4	2118.4
2.5°	2197.0	2203.0	2201.3	2199.1	2195.8	2186.3	2171.0	2168.4	2158.5	2137.6	2111.5
5°	2163.2	2168.4	2168.8	2171.8	2176.1	2174.3	2163.2	2162.0	2147.4	2119.2	2075.6
7.5°	2047.4	2054.2	2069.2	2085.8	2100.8	2114.9	2118.4	2120.5	2111.5	2079.0	2020.8
10°	1917.0	1923.9	1930.7	1955.5	1992.2	2027.3	2056.3	2060.2	2062.4	2032.4	1961.5
12.5°	1772.5	1786.6	1801.2	1837.9	1887.0	1942.2	1993.5	2001.7	2016.2	1993.5	1910.2
15°	1649.8	1664.3	1685.3	1718.2	1777.6	1857.2	1929.4	1942.6	1971.3	1959.8	1862.3
17.5°	1564.7	1569.8	1584.4	1622.0	1686.1	1770.0	1866.5	1893.1	1938.8	1935.8	1821.3
20°	1497.6	1504.0	1513.0	1536.1	1602.8	1691.3	1808.0	1842.2	1904.2	1914.5	1780.6
22.5°	1469.4	1474.1	1472.8	1485.2	1530.5	1619.4	1748.5	1789.1	1873.4	1899.9	1743.0
25°	1471.1	1475.4	1469.0	1465.9	1492.9	1556.2	1686.5	1738.3	1848.6	1890.1	1708.8
27.5°	1499.8	1502.7	1490.8	1478.8	1480.9	1516.8	1635.2	1692.5	1827.7	1894.4	1680.1
30°	1538.2	1543.7	1536.1	1521.5	1505.7	1507.4	1602.4	1658.8	1817.8	1909.3	1666.4
32.5°	1587.8	1592.9	1589.5	1578.0	1557.4	1534.8	1594.2	1646.3	1818.7	1939.7	1663.5
35°	1640.0	1650.2	1655.8	1654.9	1638.3	1598.9	1626.2	1669.5	1839.2	1990.6	1681.0
37.5°	1699.0	1707.5	1731.5	1746.8	1731.5	1685.7	1698.6	1728.4	1884.5	2064.1	1719.5
40°	1756.3	1769.0	1804.1	1852.1	1846.0	1805.9	1808.8	1828.5	1964.4	2173.5	1794.7
42.5°	1816.1	1831.5	1892.6	1963.6	1977.7	1946.5	1954.7	1972.1	2078.2	2325.3	1923.9
45°	1893.1	1911.4	1986.7	2075.2	2130.8	2111.5	2134.6	2143.1	2230.3	2522.7	2094.0
47.5°	1992.2	2013.6	2106.4	2216.7	2295.3	2312.8	2353.0	2347.9	2418.9	2756.6	2314.6
50°	2159.4	2171.4	2259.0	2371.5	2479.6	2558.7	2602.3	2610.5	2652.8	2984.1	2561.3
52.5°	2358.2	2368.8	2432.2	2530.5	2666.0	2833.6	2941.3	2914.8	2925.1	3261.1	2849.8
55°	2581.8	2599.7	2639.9	2705.3	2881.0	3127.8	3344.1	3350.5	3236.8	3526.1	3126.4
57.5°	2754.9	2785.3	2854.1	2947.3	3170.1	3454.7	3745.5	3749.8	3604.4	3809.2	3431.7
60°	2667.7	2703.6	2860.9	3088.0	3549.3	4025.5	4225.2	4200.8	3962.2	4131.6	3804.1
62.5°	2291.5	2297.9	2526.6	2881.4	3666.0	4789.1	4939.1	4836.1	4439.8	4540.2	4182.4
65°	1483.1	1525.0	1706.2	2203.4	3282.5	5212.8	6190.0	5951.9	5109.2	5004.1	4499.2
67.5°	936.3	925.6	1000.8	1258.2	2257.7	4839.5	7257.6	7219.9	5984.8	5297.0	4423.6
69°	776.4	788.4	814.0	964.5	1553.6	4132.0	7383.6	7643.6	6409.3	5273.9	4148.7
70°	704.1	709.7	736.6	855.0	1198.8	3460.8	7176.8	7632.1	6576.1	5177.3	3949.4
72.5°	558.8	558.3	604.5	711.4	896.1	1975.6	5892.9	6626.1	6389.7	4727.5	3263.2
75°	424.5	431.3	482.2	602.0	825.5	1079.5	4112.3	5102.9	5103.3	3734.0	2036.3
77.5°	306.1	310.4	369.8	505.4	777.7	875.1	2739.1	3659.9	3440.7	1710.9	640.0
80°	200.5	203.1	248.3	400.1	701.1	825.5	1624.1	2240.2	1622.9	454.1	211.6
82.5°	109.8	122.7	151.8	259.1	562.6	762.7	987.2	1133.8	608.8	202.2	110.3
85°	55.2	58.5	85.5	151.4	367.7	631.0	687.4	650.3	314.2	100.5	57.3
87.5°	16.2	20.5	35.5	58.5	149.2	328.7	382.7	343.3	121.0	36.3	11.9
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°	2118.4	2118.4	2118.4	2118.4	2118.4	2118.4	2118.4	2118.4	2118.4	2118.4	2118.4
2.5°	2100.8	2093.2	2058.9	2028.2	1999.9	1970.0	1944.8	1922.5	1924.7	1925.1	1902.4
5°	2053.0	2035.4	1970.5	1909.7	1858.4	1793.4	1737.8	1701.9	1684.0	1660.0	1668.6
7.5°	1988.0	1954.1	1864.0	1763.1	1668.6	1584.4	1492.9	1430.0	1389.8	1351.0	1356.1
10°	1920.8	1866.5	1735.3	1601.9	1479.7	1345.0	1228.3	1128.2	1053.9	1026.0	1007.7
12.5°	1852.1	1780.6	1613.9	1436.4	1267.6	1106.4	941.0	833.7	751.6	708.0	713.5
15°	1789.1	1702.4	1487.3	1271.0	1051.7	859.8	694.8	592.6	535.2	523.3	530.1
17.5°	1731.0	1617.3	1368.9	1110.3	854.2	644.7	522.0	464.3	441.2	434.8	434.4
20°	1671.2	1545.1	1235.9	938.4	665.7	499.8	428.4	401.4	397.2	399.7	400.1
22.5°	1610.4	1455.7	1099.2	767.8	530.1	408.7	374.5	367.3	370.6	376.7	377.5
25°	1554.4	1377.1	967.5	618.2	423.3	359.1	342.5	342.5	350.1	359.1	359.5
27.5°	1508.2	1300.9	836.2	490.8	354.4	323.2	317.6	320.7	331.4	338.2	338.6
30°	1470.2	1230.0	712.2	393.3	311.7	294.6	293.3	298.4	306.1	312.5	312.9
32.5°	1441.6	1167.6	596.4	330.5	282.2	272.7	272.3	276.2	280.5	282.2	283.8
35°	1430.5	1115.8	490.4	290.7	262.5	256.5	256.5	256.1	257.8	258.6	259.5
37.5°	1439.5	1076.1	408.3	265.1	247.9	243.7	241.1	238.6	237.7	237.7	238.1
40°	1477.5	1055.1	347.2	248.3	237.7	231.3	226.6	223.6	220.6	221.4	222.3
42.5°	1558.3	1059.0	305.7	237.2	228.8	219.8	212.9	209.5	207.3	209.9	209.5
45°	1687.0	1097.4	279.1	229.6	219.8	208.2	201.8	198.4	198.4	202.2	203.5
47.5°	1866.9	1171.0	265.1	223.6	212.9	199.2	192.8	190.2	191.1	197.6	198.0
50°	2086.7	1298.8	262.5	220.6	209.5	192.8	185.5	183.0	185.1	191.9	192.8
52.5°	2329.1	1463.4	274.9	221.0	206.5	189.0	179.6	175.7	177.9	183.4	185.1
55°	2616.4	1669.5	307.0	222.7	202.2	186.8	175.3	166.8	169.3	173.2	173.6
57.5°	2909.7	1929.4	363.4	223.2	198.8	183.0	168.0	156.9	156.9	159.5	160.7
60°	3268.0	2212.4	437.7	223.6	199.2	177.5	158.2	145.7	144.1	145.3	145.7
62.5°	3623.6	2449.2	450.2	222.3	203.5	171.9	147.5	134.6	131.7	131.3	130.4
65°	3780.5	2405.3	368.9	216.3	208.2	168.5	138.9	124.0	118.8	117.2	117.2
67.5°	3524.9	2034.5	277.4	208.2	205.2	165.0	130.9	115.0	109.0	105.6	105.6
69°	3284.6	1809.7	249.3	202.7	197.6	159.5	125.7	110.3	103.0	99.2	97.9
70°	3099.1	1654.9	237.2	198.0	190.2	153.1	121.9	106.9	98.7	94.4	93.6
72.5°	2473.2	1298.3	207.8	180.0	162.1	128.7	108.2	96.2	88.5	83.8	82.5
75°	1425.3	703.7	172.3	156.5	130.4	100.1	91.5	83.8	77.8	73.5	72.2
77.5°	438.7	271.9	124.8	123.5	95.8	77.4	73.1	70.1	65.9	61.1	60.3
80°	184.7	138.5	84.7	83.3	63.7	53.9	52.6	52.1	50.5	46.6	45.3
82.5°	101.3	78.2	59.0	51.3	38.5	31.2	32.5	32.9	31.6	27.8	25.2
85°	49.6	42.7	28.7	23.1	17.5	11.1	10.7	12.9	11.9	8.6	9.4
87.5°	9.8	11.9	7.7	3.4	1.7	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)