

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: P451385

Luminaire Tested: **GALN-SA2B-730-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451385
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-730-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8529 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

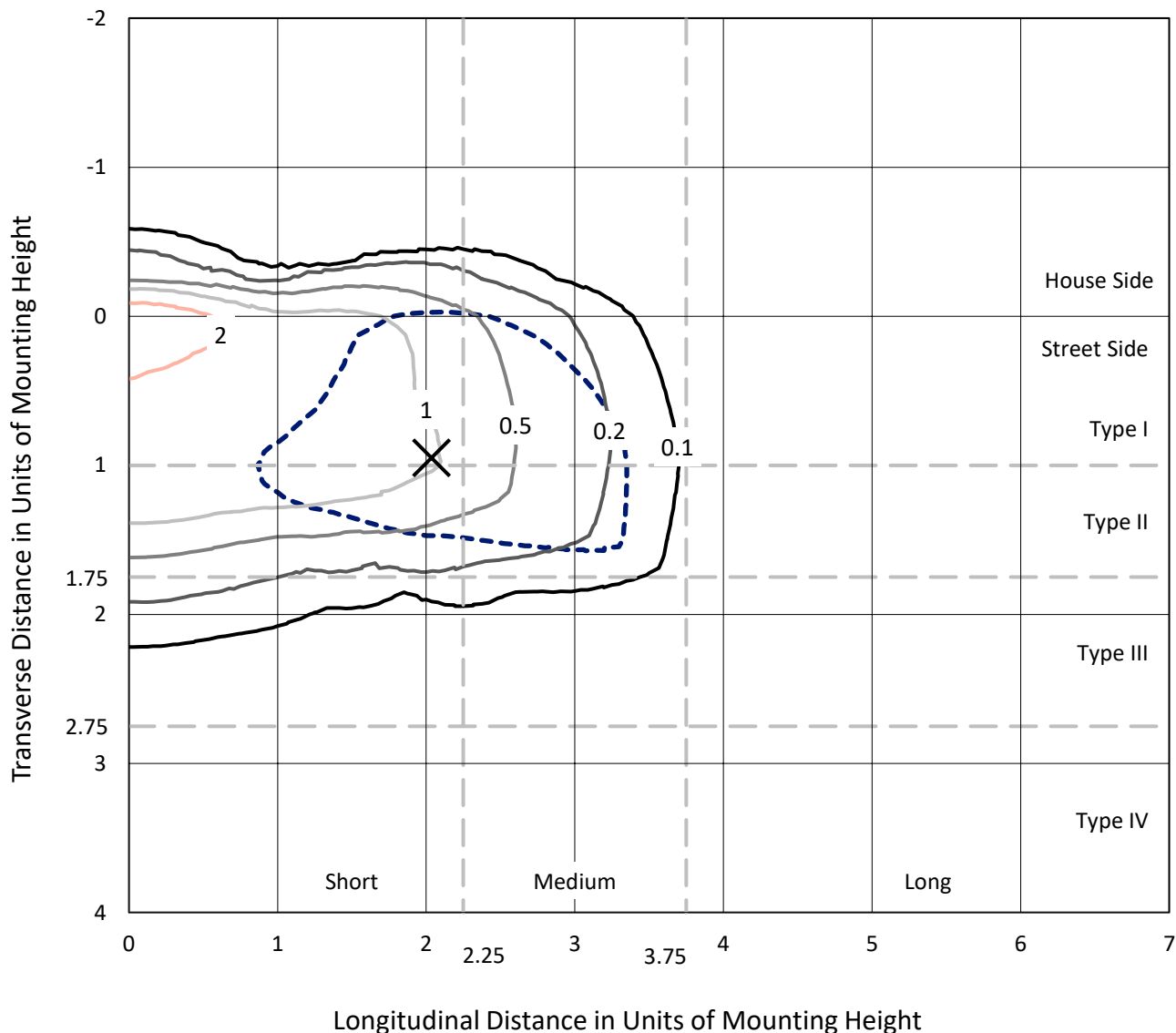
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

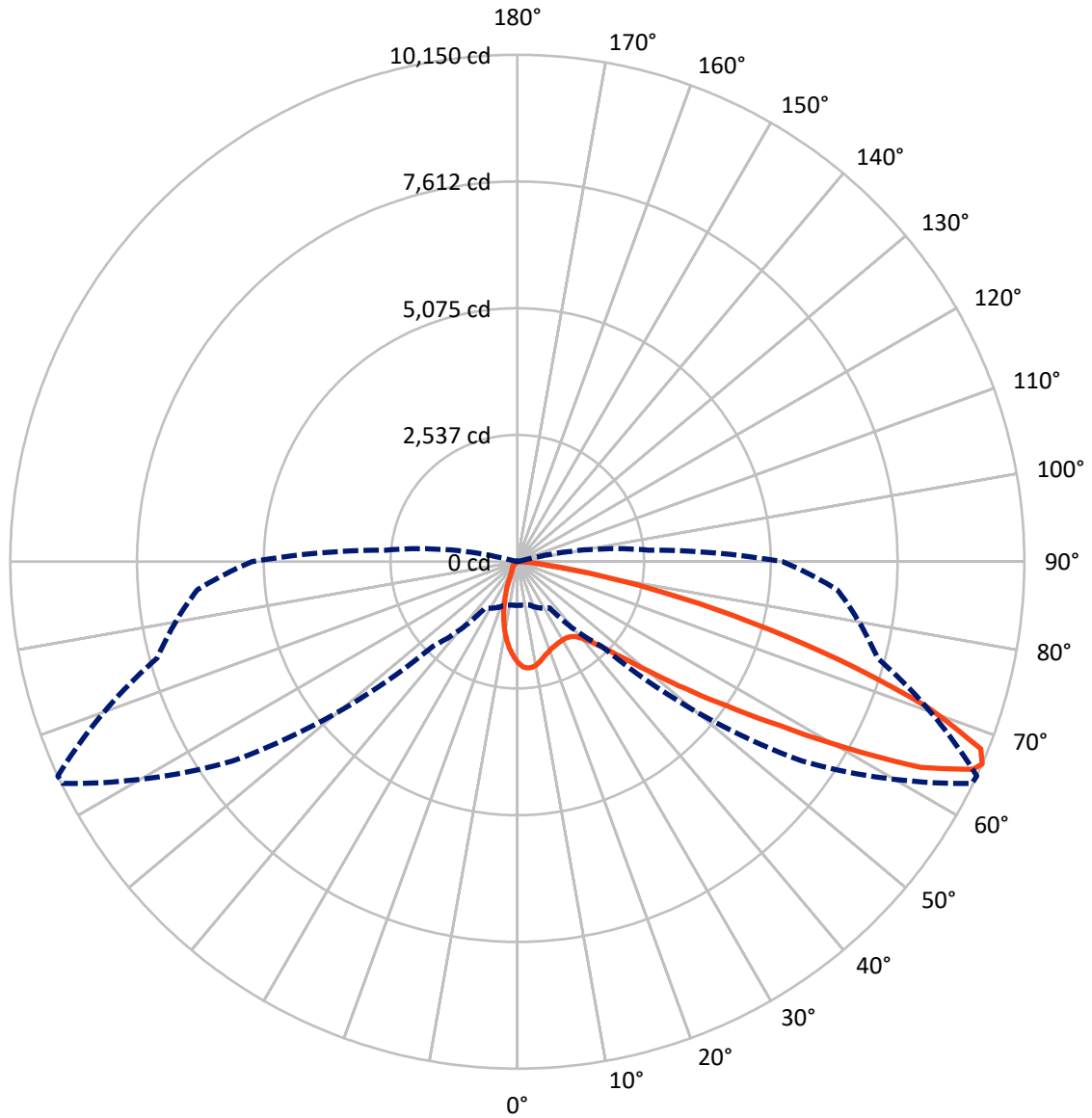
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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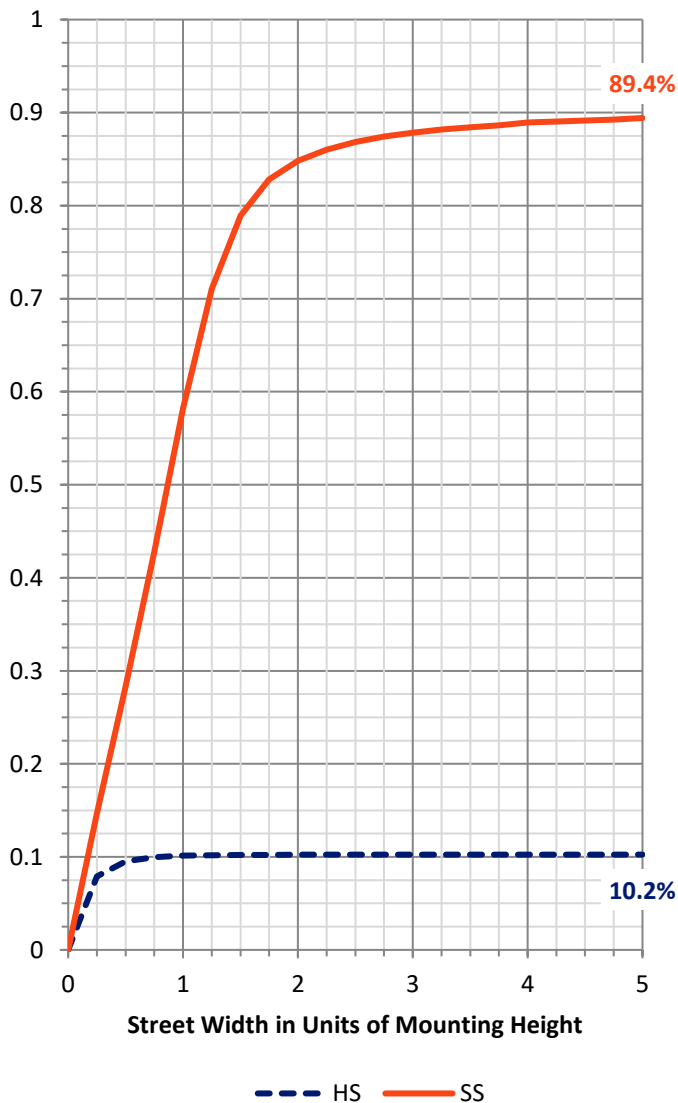
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	882.0	0.0	882.0
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	7647.0	0.0	7647.0
	% Fixture	89.7	0.0	89.7
Total	Lumens	8529.0	0.0	8529.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.4	1.9
10°-20°	360.4	4.2
20°-30°	516.3	6.1
30°-40°	754.1	8.8
40°-50°	1264.5	14.8
50°-60°	2110.2	24.7
60°-70°	2239.9	26.3
70°-80°	1014.4	11.9
80°-90°	103.8	1.2
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°	8529.0	100.0
0°-180°	8529.0	100.0

Coefficient of Utilization



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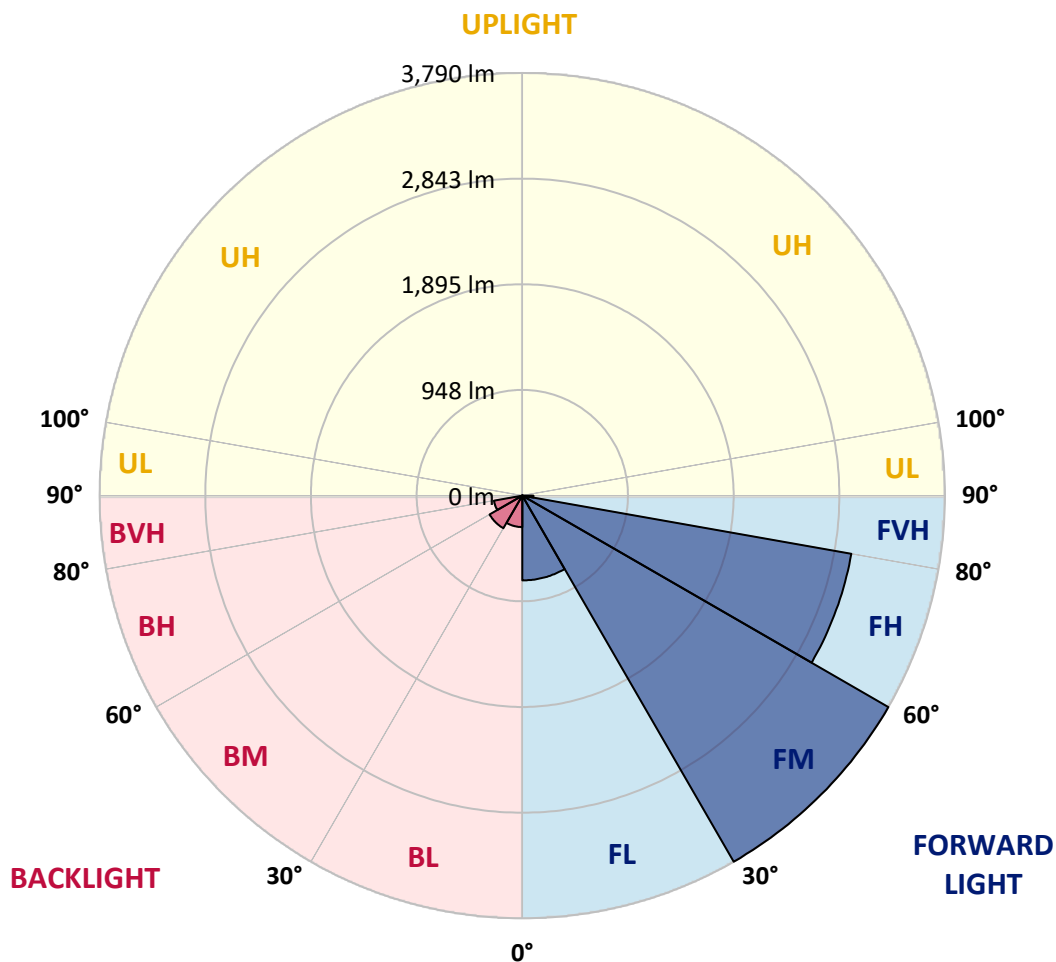
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	760.0	8.9			
FM (30°-60°)	3790.5	44.4			
FH (60°-80°)	2996.0	35.1			G2/5000
FVH (80°-90°)	100.5	1.2			G2/225
BL (0°-30°)	282.2	3.3	B1/500		
BM (30°-60°)	338.3	4.0	B1/1000		
BH (60°-80°)	258.3	3.0	B1/500		G1/500
BVH (80°-90°)	3.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2022.5	2022.5	2022.5	2022.5	2022.5	2022.5	2022.5	2022.5	2022.5	2022.5	2022.5
2.5°	2131.4	2133.7	2136.6	2140.6	2143.5	2134.9	2122.8	2108.9	2106.1	2076.7	2041.0
5°	2017.4	2020.8	2046.2	2060.0	2091.1	2119.3	2137.2	2139.5	2138.3	2110.7	2053.6
7.5°	1854.9	1864.7	1889.5	1913.7	1971.8	2025.4	2088.8	2133.1	2136.0	2128.5	2057.7
10°	1723.0	1729.3	1742.0	1789.8	1838.2	1920.0	2008.7	2092.2	2099.2	2129.1	2054.2
12.5°	1619.9	1629.1	1644.6	1681.5	1739.7	1816.9	1917.7	2030.0	2044.4	2118.2	2044.4
15°	1547.9	1552.5	1568.0	1604.3	1660.8	1732.2	1834.2	1964.9	1977.6	2103.8	2042.7
17.5°	1513.9	1519.1	1530.0	1558.8	1605.5	1671.7	1771.4	1912.5	1928.6	2094.5	2049.0
20°	1523.1	1527.7	1528.3	1543.3	1574.9	1630.8	1725.3	1863.5	1884.3	2088.8	2059.4
22.5°	1575.5	1576.1	1569.2	1562.3	1573.2	1613.5	1697.1	1832.4	1853.8	2087.6	2071.5
25°	1653.9	1655.6	1644.1	1619.9	1598.0	1618.7	1690.7	1812.3	1831.3	2084.8	2079.0
27.5°	1762.2	1761.6	1758.1	1717.8	1655.6	1641.8	1695.9	1801.3	1817.5	2076.7	2081.9
30°	1913.7	1909.1	1901.6	1856.1	1761.0	1697.6	1717.8	1794.4	1809.4	2065.2	2074.4
32.5°	2062.9	2080.1	2079.0	2035.8	1917.1	1797.3	1763.3	1803.6	1814.6	2057.7	2063.4
35°	2236.8	2236.3	2280.6	2264.5	2125.7	1924.6	1841.1	1834.2	1842.8	2062.9	2058.3
37.5°	2398.1	2413.1	2482.2	2498.9	2372.2	2104.3	1951.1	1899.8	1902.7	2098.0	2070.9
40°	2599.2	2628.0	2731.1	2787.0	2675.2	2371.1	2113.6	2020.2	2020.8	2184.4	2118.7
42.5°	2858.4	2903.9	3000.1	3093.4	3033.5	2686.7	2357.2	2210.9	2209.8	2336.5	2228.2
45°	3173.5	3205.2	3314.6	3462.7	3424.7	3127.4	2712.1	2506.4	2491.5	2585.9	2422.3
47.5°	3445.4	3488.6	3599.8	3768.6	3941.4	3665.5	3136.1	2912.6	2902.8	2982.8	2755.3
50°	3564.1	3602.1	3719.0	3955.8	4374.6	4371.7	3767.4	3505.3	3488.6	3531.8	3270.3
52.5°	3433.9	3469.6	3587.7	3882.6	4578.5	5232.3	4682.2	4249.0	4228.8	4173.5	3885.5
55°	2988.0	3017.4	3191.9	3530.7	4500.2	5806.1	5942.6	5167.8	5089.5	4874.6	4582.0
57.5°	2379.1	2364.1	2472.4	2865.9	4040.5	5998.5	7236.4	6312.4	6172.5	5480.6	5171.3
60°	1648.7	1694.8	1738.5	1997.8	3038.1	5665.0	8041.2	7751.4	7567.1	6076.8	5735.8
62.5°	1212.0	1242.6	1271.4	1391.2	1910.2	4523.2	8183.5	9229.6	9066.0	6709.9	6274.4
65°	958.6	960.9	972.4	1090.5	1258.7	2941.4	7499.7	10063.2	10021.1	7319.4	6492.8
66°	873.3	873.9	891.7	1018.5	1129.7	2395.3	6951.9	10126.5	10149.6	7465.7	6428.8
67.5°	763.3	761.0	786.9	915.4	1028.8	1727.0	5971.4	9869.6	10006.1	7578.0	6199.0
70°	591.6	588.7	620.4	767.9	947.6	1152.1	3969.0	8474.4	8694.4	7348.2	5484.7
72.5°	394.0	396.3	450.5	606.0	904.4	1014.4	2387.8	6446.7	6757.7	6068.2	4314.7
75°	229.8	233.9	295.5	450.5	785.2	967.2	1351.4	4596.9	4795.7	4190.2	2687.9
77.5°	120.4	122.1	165.3	297.2	602.0	898.1	900.4	2936.7	3030.1	2036.4	1064.0
80°	63.9	62.2	88.7	179.2	414.2	788.6	730.4	1554.8	1616.4	604.9	269.0
82.5°	24.2	26.5	47.2	117.5	244.8	566.3	629.1	687.2	665.9	133.1	112.9
85°	4.6	5.8	20.2	69.7	123.3	236.8	463.7	337.0	312.2	50.1	65.1
87.5°	0.6	1.2	5.8	16.7	17.9	80.1	137.1	93.3	80.6	18.4	27.1
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°	2022.5	2022.5	2022.5	2022.5	2022.5	2022.5	2022.5	2022.5	2022.5	2022.5	2022.5
2.5°	2023.7	2008.1	1956.3	1905.0	1852.6	1805.4	1773.1	1720.7	1707.4	1688.4	1677.5
5°	2019.7	1983.4	1883.7	1774.8	1673.4	1564.0	1480.5	1399.8	1356.6	1334.7	1326.7
7.5°	2008.1	1950.5	1795.0	1624.5	1462.0	1298.4	1156.1	1047.8	978.1	930.3	898.1
10°	1985.1	1905.6	1691.9	1457.4	1212.0	996.0	815.7	678.6	572.6	539.2	540.3
12.5°	1961.5	1855.5	1576.7	1271.9	967.8	695.3	504.1	395.8	345.1	328.4	324.9
15°	1939.6	1807.7	1463.8	1092.2	720.6	450.5	324.9	286.9	273.1	270.2	269.6
17.5°	1928.1	1763.3	1343.4	886.6	502.9	305.9	260.4	250.0	246.0	243.1	241.9
20°	1918.3	1724.7	1228.2	694.2	343.9	250.6	233.3	223.5	216.6	213.7	212.0
22.5°	1911.4	1685.0	1108.9	537.5	263.3	222.4	206.8	194.1	184.3	180.9	178.6
25°	1901.0	1641.2	988.5	392.9	221.8	197.6	179.7	164.8	152.1	145.7	144.6
27.5°	1886.0	1591.6	856.6	290.9	198.2	175.7	153.8	135.4	122.7	115.8	116.4
30°	1861.8	1539.8	724.7	231.0	179.2	153.2	129.6	111.8	99.7	94.5	93.9
32.5°	1833.0	1477.0	603.7	198.2	161.9	133.1	108.3	92.7	83.5	79.5	78.9
35°	1805.9	1413.6	480.4	178.0	144.0	114.6	91.0	77.8	70.9	67.4	68.0
37.5°	1791.0	1357.2	374.4	161.9	129.6	98.5	78.3	66.8	60.5	57.6	57.0
40°	1800.8	1311.1	297.8	147.5	113.5	84.7	67.4	57.6	51.3	47.2	47.2
42.5°	1846.8	1290.9	240.2	133.6	98.5	73.2	58.8	49.5	42.6	38.6	39.2
45°	1987.4	1312.3	201.0	121.0	84.7	63.4	50.7	40.9	34.6	31.7	31.1
47.5°	2220.7	1392.3	174.0	107.7	72.6	54.1	42.6	34.0	27.7	25.3	24.8
50°	2628.6	1557.7	153.8	94.5	61.6	46.1	35.1	27.1	21.9	19.6	19.6
52.5°	3189.6	1918.3	139.4	79.5	51.8	39.2	28.8	21.9	17.3	15.6	15.0
55°	3776.1	2298.5	131.9	66.8	43.2	32.3	23.0	17.3	13.2	11.5	10.9
57.5°	4340.0	2596.9	123.3	54.1	34.6	24.8	17.9	13.2	9.2	8.1	7.5
60°	4880.9	2838.2	104.8	43.2	27.1	17.9	13.2	9.2	6.3	5.2	5.2
62.5°	5364.8	2978.8	82.4	34.6	20.7	12.7	8.6	6.9	4.6	3.5	3.5
65°	5421.3	2796.2	62.2	26.5	15.0	8.1	5.2	5.2	3.5	2.3	2.3
66°	5307.8	2641.2	54.7	24.2	13.2	6.9	4.6	4.0	2.9	1.7	1.7
67.5°	5054.3	2376.8	47.2	20.7	10.9	5.2	3.5	3.5	2.3	1.2	1.2
70°	4367.1	1941.3	37.4	15.6	8.1	4.0	2.3	2.3	1.7	1.2	1.2
72.5°	3328.5	1449.4	30.5	11.5	5.8	2.9	1.7	1.7	1.7	1.2	1.2
75°	2007.6	780.6	23.6	8.6	5.2	2.3	1.2	1.7	2.3	1.7	1.2
77.5°	739.7	265.6	18.4	6.9	4.0	2.3	1.2	1.2	2.3	1.7	1.7
80°	181.5	69.1	13.2	5.8	4.0	2.3	1.2	1.2	2.3	2.3	2.3
82.5°	84.1	29.4	9.2	5.2	4.0	2.3	1.2	1.2	1.7	2.3	2.3
85°	48.4	13.8	7.5	5.8	4.0	2.3	1.2	1.2	1.7	2.3	2.3
87.5°	19.6	6.9	6.9	5.8	4.6	2.9	1.2	1.2	1.2	1.7	1.7
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)