

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: P648350

Luminaire Tested: **GALN-SA3B-835-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648350
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-835-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13271 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

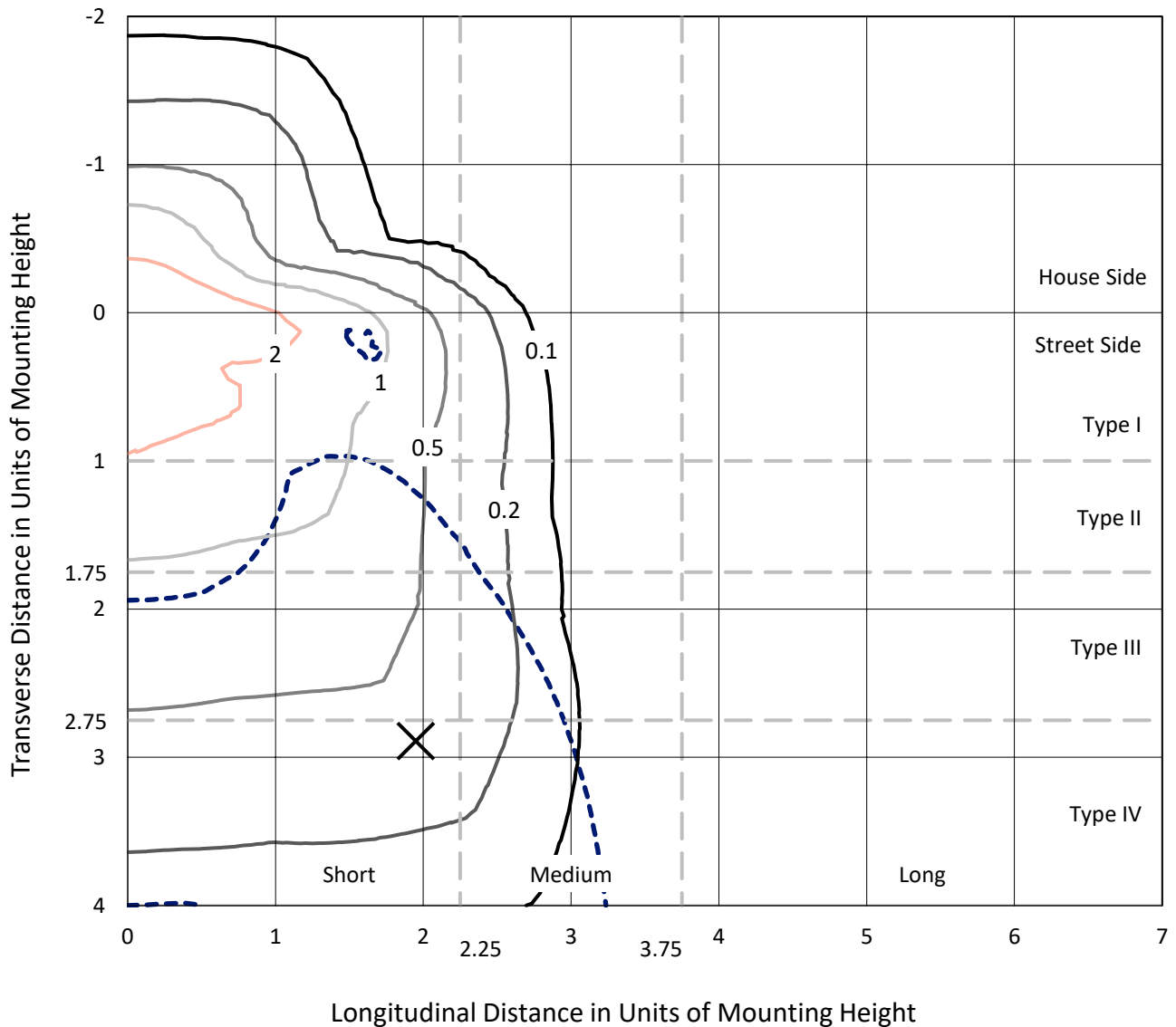
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

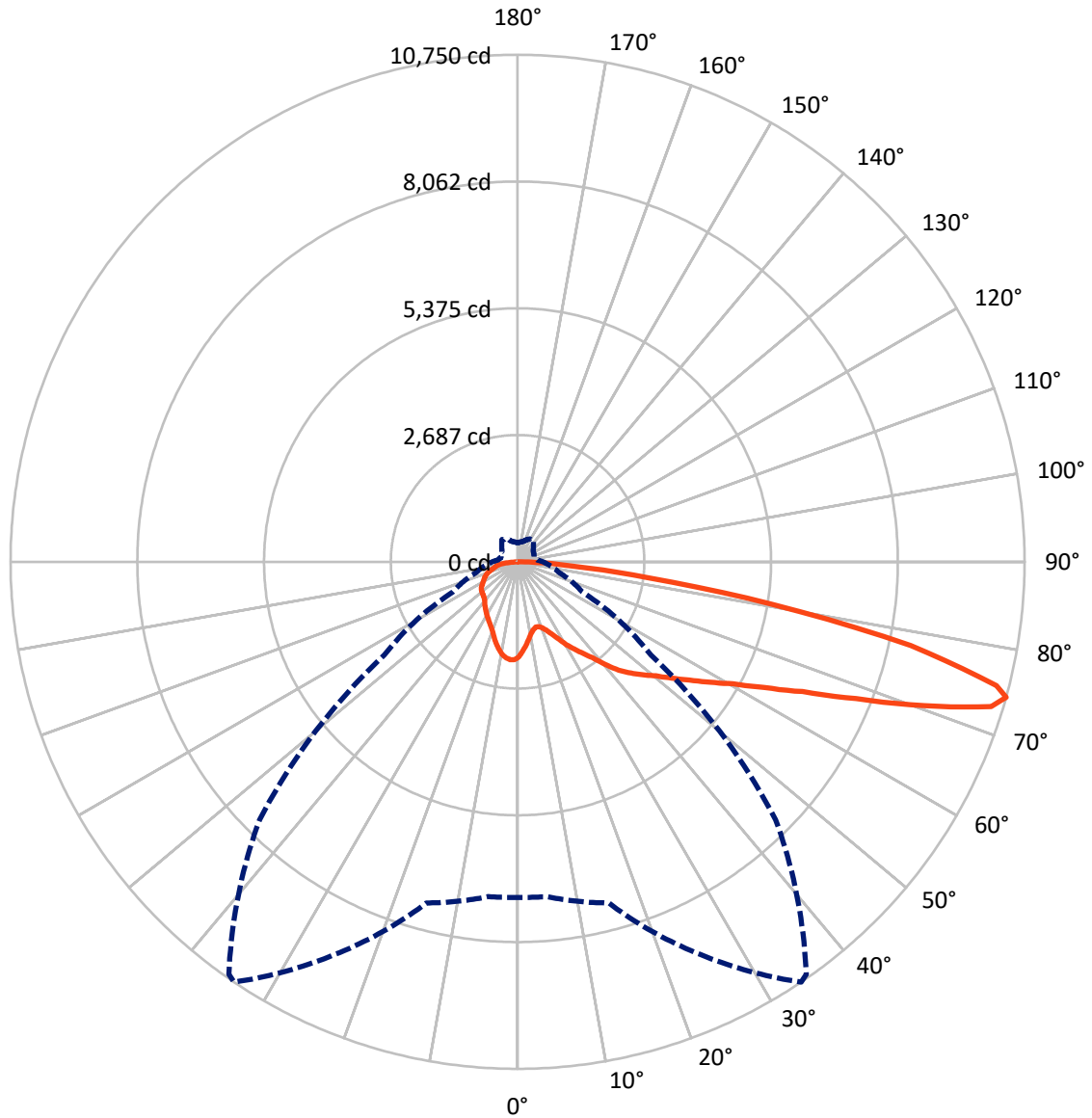
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P648350
CATALOG NUMBER: GALN-SA3B-835-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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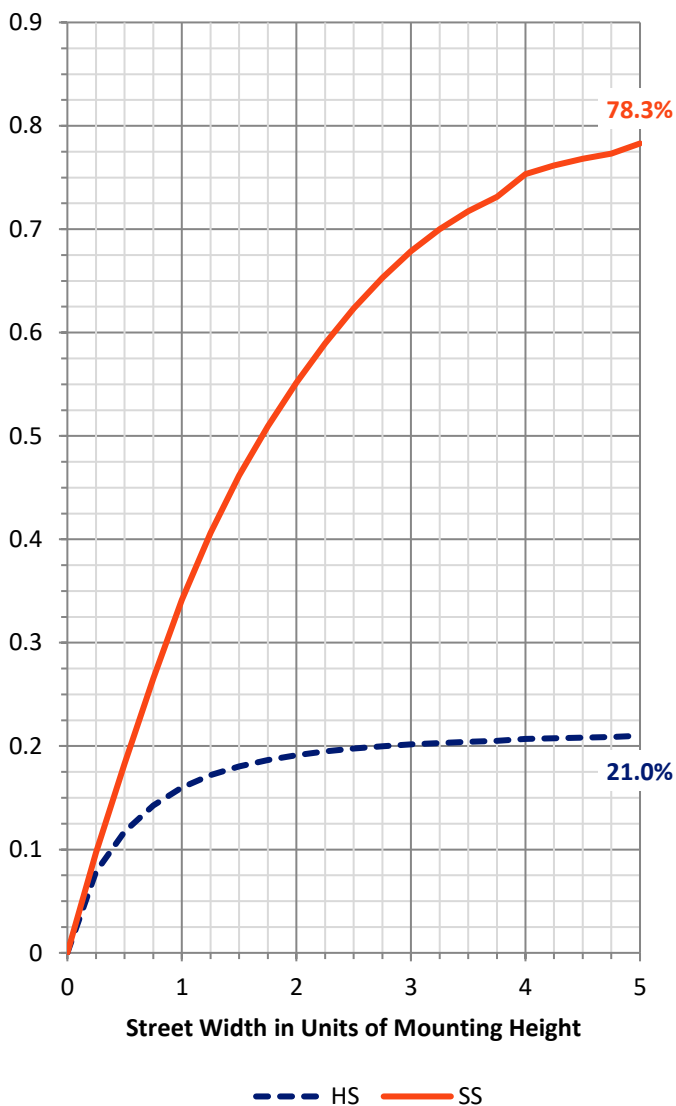
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2824.2	0.0	2824.2
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	10446.9	0.0	10446.9
	% Fixture	78.7	0.0	78.7
Total	Lumens	13271.0	0.0	13271.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.3	1.4
10°-20°	504.4	3.8
20°-30°	831.7	6.3
30°-40°	1245.8	9.4
40°-50°	1811.1	13.6
50°-60°	2529.6	19.1
60°-70°	3166.9	23.9
70°-80°	2618.8	19.7
80°-90°	378.4	2.9
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°	13271.0	100.0
0°-180°	13271.0	100.0

Coefficient of Utilization



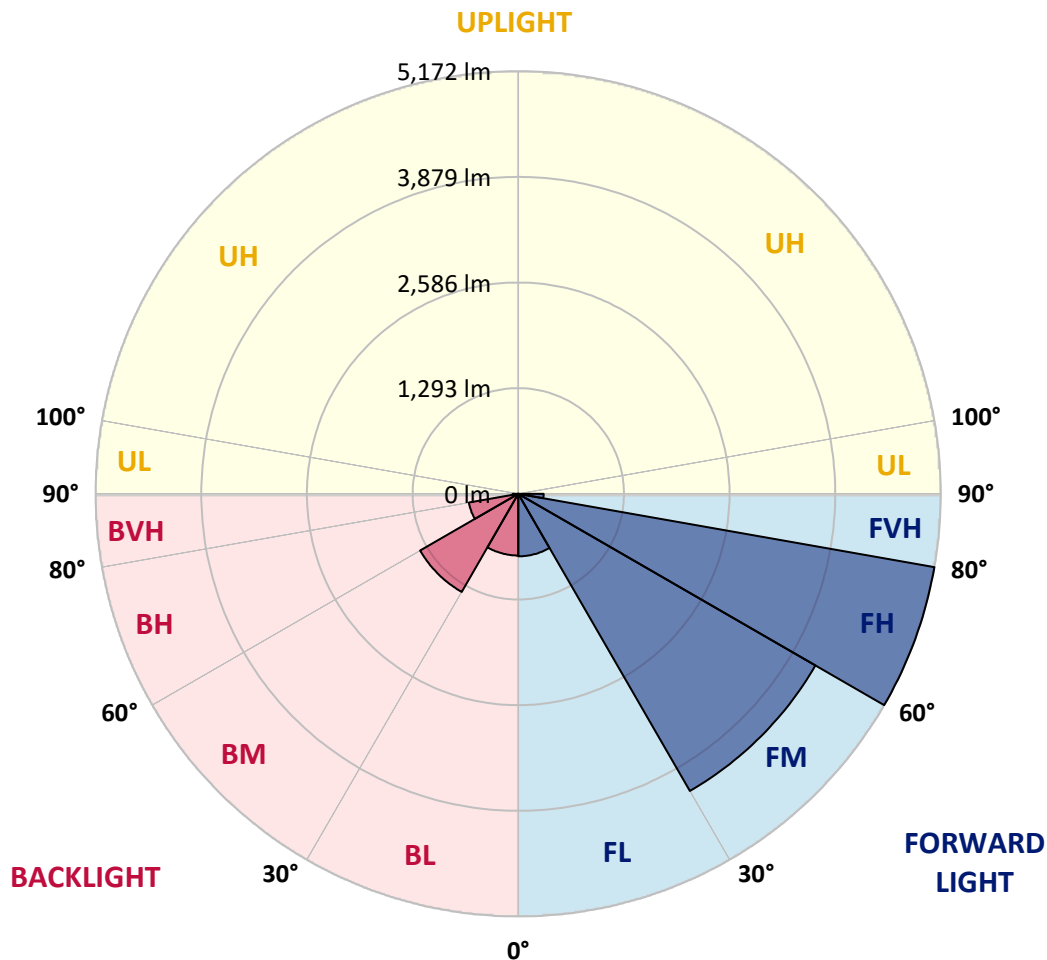
REPORT NUMBER: P648350
 CATALOG NUMBER: GALN-SA3B-835-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	765.0	5.8			
FM (30°-60°)	4199.5	31.6			
FH (60°-80°)	5172.4	39.0			G3/7500
FVH (80°-90°)	310.0	2.3			G3/500
BL (0°-30°)	755.4	5.7	B2/1000		
BM (30°-60°)	1387.0	10.5	B2/2500		
BH (60°-80°)	613.4	4.6	B2/1000		G2/1000
BVH (80°-90°)	68.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2026.2	2026.2	2026.2	2026.2	2026.2	2026.2	2026.2	2026.2	2026.2	2026.2	2026.2
2.5°	1872.5	1882.1	1887.3	1905.7	1910.1	1915.9	1931.4	1951.9	1978.4	2002.0	2022.6
5°	1716.7	1731.4	1740.2	1756.4	1788.1	1791.0	1832.1	1879.2	1932.8	1982.9	2024.1
7.5°	1568.9	1585.1	1592.5	1621.8	1663.8	1670.4	1730.7	1804.9	1894.6	1970.3	2033.6
10°	1457.9	1466.0	1482.1	1504.2	1554.3	1558.6	1637.3	1736.5	1852.7	1964.5	2049.7
12.5°	1397.7	1402.0	1405.7	1429.2	1478.5	1485.1	1567.5	1679.9	1819.6	1968.9	2076.2
15°	1406.4	1407.9	1391.8	1396.2	1435.9	1445.4	1527.0	1642.4	1799.0	1979.9	2115.9
17.5°	1480.7	1475.6	1435.9	1415.3	1443.2	1447.6	1518.9	1627.8	1789.5	2000.5	2157.1
20°	1597.6	1590.3	1521.8	1476.3	1492.5	1496.2	1545.4	1638.7	1799.0	2034.3	2221.1
22.5°	1743.2	1740.2	1636.5	1581.4	1580.7	1580.7	1606.4	1678.4	1827.8	2080.7	2287.9
25°	1946.9	1931.4	1796.1	1724.8	1705.0	1703.5	1700.5	1743.9	1864.5	2129.9	2367.4
27.5°	2155.6	2129.1	2008.6	1899.0	1856.4	1851.2	1832.1	1836.5	1911.5	2185.7	2457.8
30°	2343.1	2326.2	2213.0	2091.6	2041.0	2029.1	1976.2	1951.9	1990.2	2286.5	2601.9
32.5°	2486.5	2476.2	2387.9	2277.7	2202.7	2200.5	2123.3	2103.5	2113.0	2408.5	2766.6
35°	2602.6	2606.3	2561.4	2465.9	2379.9	2367.4	2315.9	2290.9	2262.9	2585.0	2973.9
37.5°	2761.4	2769.5	2766.6	2684.2	2579.1	2582.0	2570.3	2529.1	2454.9	2782.0	3204.0
40°	2936.4	2942.3	2941.6	2909.9	2854.8	2857.7	2853.3	2806.3	2695.2	3032.7	3459.9
42.5°	3178.3	3150.3	3077.6	3109.2	3141.6	3155.5	3185.6	3140.8	2988.6	3300.3	3700.3
45°	3448.9	3395.9	3231.2	3245.9	3365.8	3392.3	3558.4	3496.6	3306.9	3607.7	3983.4
47.5°	3619.4	3567.2	3428.3	3425.3	3584.1	3609.9	3904.0	3881.2	3596.6	3939.3	4328.9
50°	3771.6	3764.3	3607.7	3645.2	3800.3	3838.5	4280.3	4259.1	3885.6	4330.4	4705.4
52.5°	3997.3	3937.8	3812.8	3889.9	4095.1	4145.1	4653.8	4591.4	4151.0	4675.9	5070.7
55°	4098.8	4084.8	4077.5	4144.3	4425.9	4462.0	5017.1	4873.7	4377.4	4968.5	5348.6
57.5°	4370.1	4344.3	4417.1	4462.7	4815.6	4870.7	5396.4	5168.5	4575.9	5200.8	5483.9
60°	4721.5	4707.6	4774.4	4856.8	5250.9	5334.7	5828.7	5419.9	4735.4	5317.7	5409.7
62.5°	5246.4	5244.9	5232.5	5408.9	5867.6	5944.8	6325.0	5664.8	4760.5	5230.3	5025.8
65°	5999.3	5972.8	5864.0	6056.7	6635.2	6725.7	6841.9	5801.5	4609.8	4781.1	4231.9
67.5°	6786.7	6785.2	6697.0	6946.9	7737.3	7830.7	7488.1	5771.3	4191.4	3873.0	3005.5
70°	7439.5	7408.0	7520.4	8186.5	9145.2	9253.3	8053.5	5416.2	3338.6	2557.7	1785.8
72.5°	7596.1	7597.6	7831.4	9142.3	10497.3	10514.2	8257.1	4389.9	2234.3	1410.9	893.2
74°	7113.9	7126.4	7488.8	9190.1	10749.5	10673.0	7736.6	3450.3	1510.9	921.2	644.0
75°	6493.3	6414.6	6938.9	8871.7	10487.7	10405.4	7127.1	2768.8	1152.8	735.9	563.9
77.5°	3471.7	3551.8	4360.5	6620.5	8520.3	8425.5	4832.5	1327.8	622.7	512.5	405.8
80°	1235.9	1363.0	1915.9	3464.3	5462.6	5492.0	2306.3	608.8	438.2	377.9	286.7
82.5°	504.3	518.3	822.7	1537.3	2773.9	2800.4	941.8	361.7	313.2	260.3	171.3
85°	197.0	203.0	363.9	691.1	1183.7	1260.9	325.7	191.1	192.6	149.2	87.5
87.5°	66.2	75.0	149.2	230.1	402.1	394.1	94.8	56.6	69.1	64.7	27.2
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°	2026.2	2026.2	2026.2	2026.2	2026.2	2026.2	2026.2	2026.2	2026.2	2026.2	2026.2
2.5°	2032.8	2046.8	2056.4	2066.7	2076.2	2079.2	2077.0	2083.6	2084.3	2085.1	2085.8
5°	2044.6	2063.8	2082.1	2092.4	2096.8	2093.1	2080.7	2074.0	2068.1	2063.8	2065.2
7.5°	2060.8	2087.9	2104.9	2109.3	2097.6	2080.7	2049.7	2025.5	2010.0	1999.8	1999.0
10°	2085.8	2112.2	2126.2	2113.7	2081.4	2040.2	1991.6	1946.1	1911.5	1901.3	1900.5
12.5°	2117.4	2147.5	2146.8	2110.0	2053.4	1979.9	1901.3	1848.3	1801.3	1777.7	1787.3
15°	2158.6	2181.4	2160.1	2093.9	2004.2	1903.5	1806.4	1734.3	1681.4	1656.4	1657.9
17.5°	2206.3	2226.2	2169.6	2065.2	1935.0	1805.7	1693.2	1624.8	1582.9	1564.5	1563.0
20°	2265.9	2271.8	2169.6	2015.2	1846.1	1691.7	1584.4	1536.6	1513.1	1503.5	1506.4
22.5°	2329.9	2318.1	2157.9	1944.7	1729.2	1572.6	1500.5	1479.2	1467.5	1466.0	1467.5
25°	2401.9	2368.8	2133.6	1849.1	1607.2	1469.7	1427.8	1431.5	1433.7	1433.7	1438.8
27.5°	2490.2	2424.0	2093.1	1728.5	1464.5	1374.1	1362.3	1388.1	1399.8	1402.0	1405.7
30°	2606.3	2484.2	2026.2	1577.7	1343.2	1288.1	1308.7	1343.2	1356.5	1364.5	1363.0
32.5°	2744.5	2550.5	1935.8	1427.0	1245.4	1227.8	1252.8	1288.1	1302.8	1307.2	1301.3
35°	2907.0	2625.4	1816.7	1285.8	1160.2	1170.4	1199.9	1210.9	1224.1	1224.1	1227.0
37.5°	3082.0	2685.7	1671.2	1156.5	1094.0	1131.5	1152.8	1142.5	1136.6	1129.2	1132.9
40°	3259.9	2730.6	1482.1	1028.5	1027.8	1091.0	1096.9	1067.5	1044.0	1036.6	1032.9
42.5°	3415.1	2758.5	1311.6	929.3	965.4	1051.3	1055.7	1008.7	971.2	949.2	941.8
45°	3598.1	2790.8	1144.7	847.0	907.3	1019.7	1030.7	967.6	912.4	866.1	854.3
47.5°	3848.8	2864.4	1013.1	783.0	865.4	999.9	1015.3	933.7	860.9	800.6	791.1
50°	4131.9	2965.1	910.9	739.6	833.0	982.3	1001.4	899.1	813.1	746.2	738.9
52.5°	4391.4	3019.5	822.7	700.6	801.4	949.9	983.0	874.1	766.1	691.9	685.2
55°	4533.3	2931.2	735.9	662.4	758.0	908.0	957.2	839.6	720.5	663.1	653.6
57.5°	4552.4	2749.0	657.3	621.2	712.5	856.5	909.5	797.7	691.1	643.3	635.2
60°	4404.6	2476.9	596.3	587.4	666.1	798.4	855.8	760.9	660.9	621.2	613.2
62.5°	4037.0	2181.4	553.6	556.6	619.0	737.4	816.0	725.7	632.3	597.0	589.6
65°	3404.7	1800.5	512.5	524.9	577.1	689.6	780.0	696.2	603.6	578.6	572.0
67.5°	2365.1	1299.9	478.6	491.9	537.5	641.1	738.1	664.6	571.3	558.0	547.7
70°	1309.4	799.9	438.9	454.4	496.3	586.7	691.1	616.8	524.2	518.3	503.6
72.5°	688.2	509.5	394.1	411.0	440.4	516.9	619.0	564.6	477.9	452.9	433.8
74°	537.5	417.6	363.9	381.6	401.4	475.7	576.4	527.1	444.8	415.4	400.7
75°	468.3	372.0	338.2	361.0	378.7	447.7	543.3	500.7	426.4	398.5	385.2
77.5°	330.8	278.7	276.4	303.6	313.2	392.6	489.6	455.9	380.1	350.7	338.2
80°	232.3	208.8	219.1	236.0	249.2	347.0	454.4	394.1	311.7	277.2	272.8
82.5°	151.4	136.7	156.6	172.0	176.5	255.9	366.8	299.3	227.1	184.6	171.3
85°	69.8	68.4	89.7	87.5	86.8	125.0	217.6	175.0	130.8	97.8	91.9
87.5°	17.6	16.9	22.1	18.4	22.1	19.1	19.9	5.2	0.7	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)