

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: P940085

Luminaire Tested: **GALN-SB3A-727-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940085
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3A-727-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12369 lumens
Efficiency: N/A
Efficacy: 146.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 84.7
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

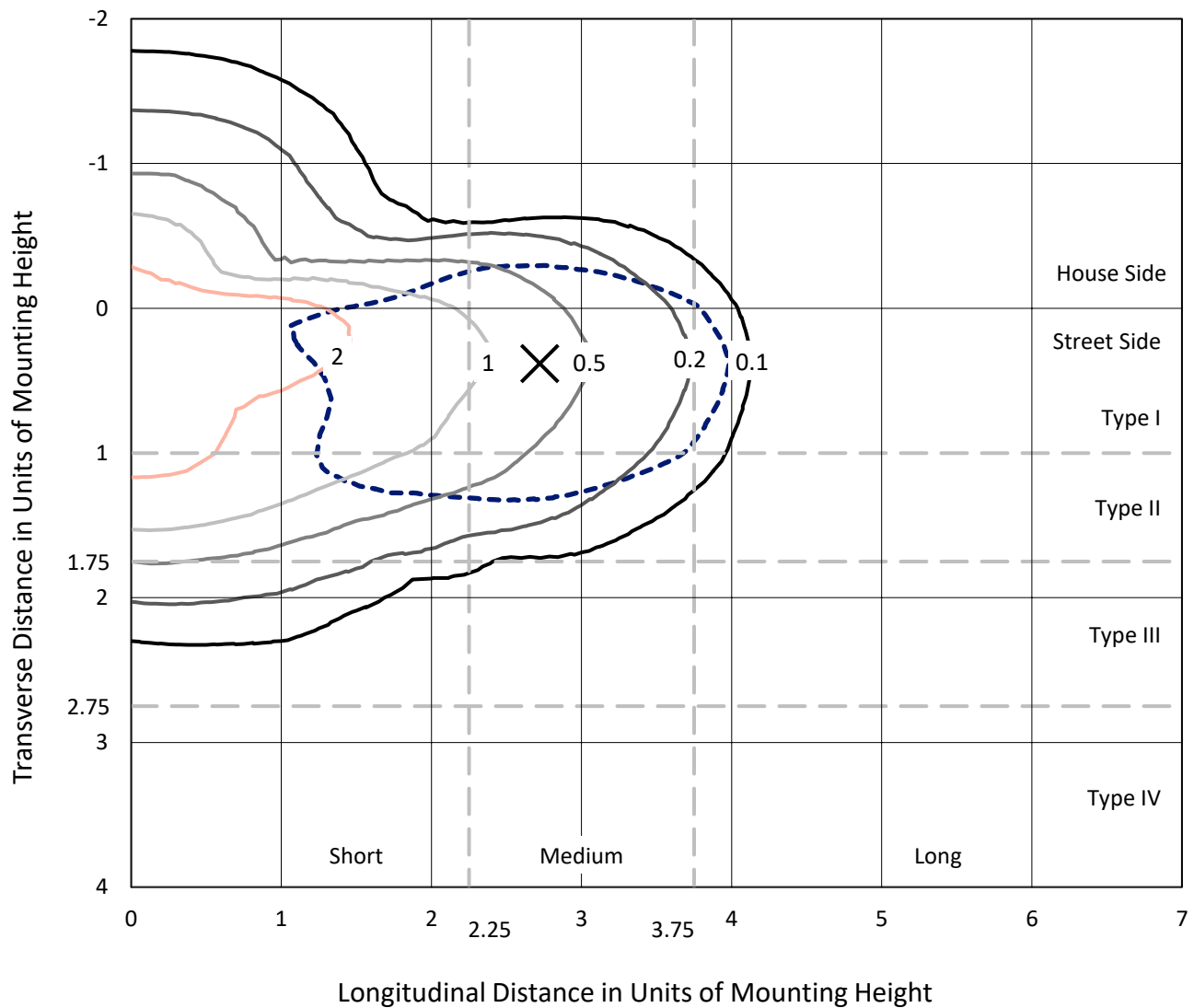


REPORT NUMBER: P940085

CATALOG NUMBER: GALN-SB3A-727-U-T2

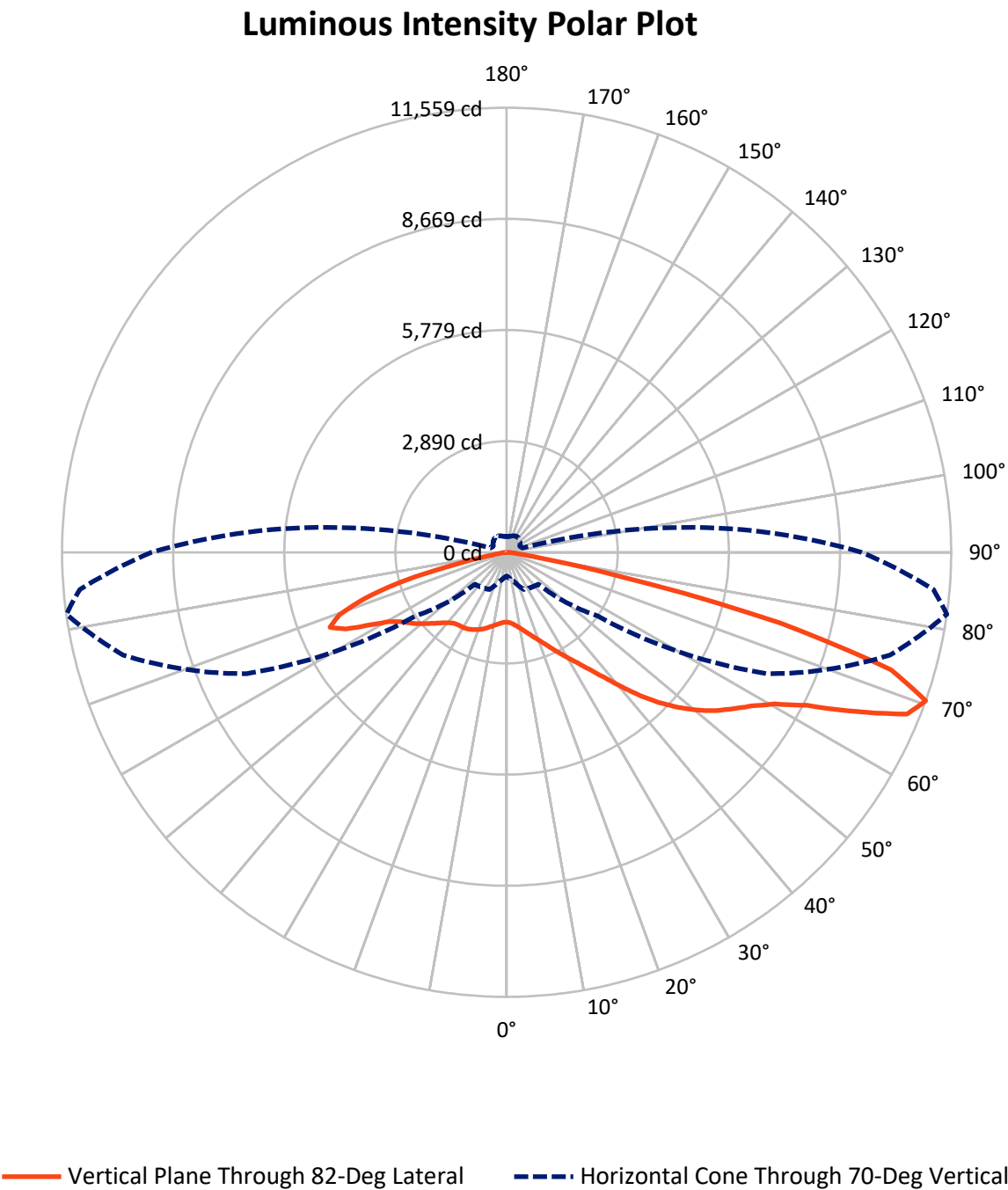
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
Type II - Medium - N/A

REPORT NUMBER: P940085
CATALOG NUMBER: GALN-SB3A-727-U-T2



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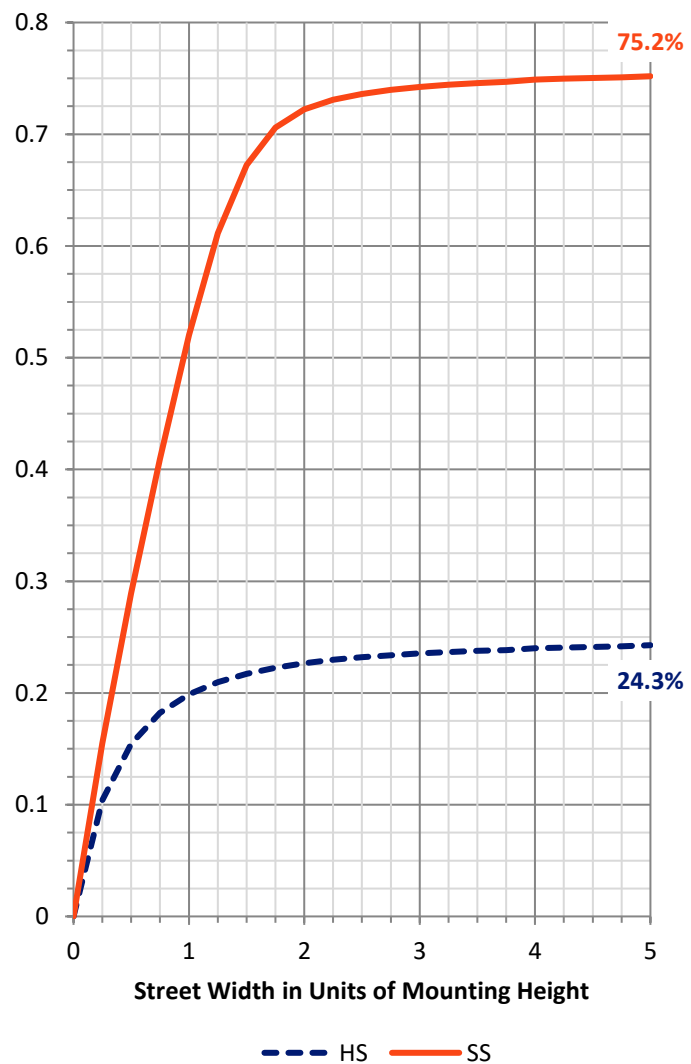
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3049.3	0.0	3049.3
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	9319.7	0.0	9319.7
	% Fixture	75.3	0.0	75.3
Total	Lumens	12369.0	0.0	12369.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.2	1.4
10°-20°	491.9	4.0
20°-30°	822.9	6.7
30°-40°	1285.7	10.4
40°-50°	2047.6	16.6
50°-60°	2849.4	23.0
60°-70°	2980.6	24.1
70°-80°	1557.8	12.6
80°-90°	161.8	1.3
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°	12369.0	100.0
0°-180°	12369.0	100.0

Coefficient of Utilization



REPORT NUMBER: P940085

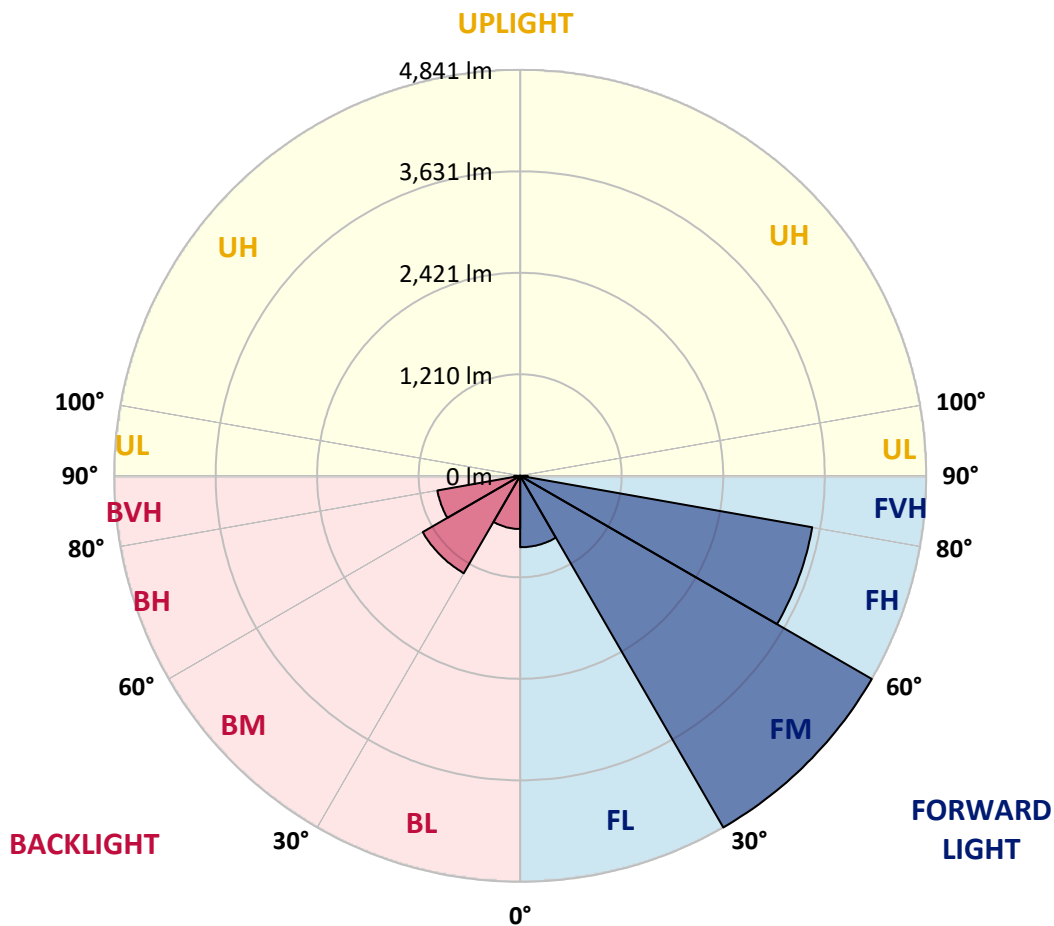
CATALOG NUMBER: GALN-SB3A-727-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	851.7	6.9			
FM	(30°-60°)	4841.1	39.1			
FH	(60°-80°)	3536.3	28.6			G2/5000
FVH	(80°-90°)	90.6	0.7			G1/100
BL	(0°-30°)	634.4	5.1	B2/1000		
BM	(30°-60°)	1341.6	10.8	B2/2500		
BH	(60°-80°)	1002.1	8.1	B3/2500		G3/2500
BVH	(80°-90°)	71.2	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



REPORT NUMBER: P940085

CATALOG NUMBER: GALN-SB3A-727-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1813.5	1813.5	1813.5	1813.5	1813.5	1813.5	1813.5	1813.5	1813.5	1813.5	1813.5
2.5°	1856.8	1867.3	1864.0	1860.7	1860.7	1856.1	1855.5	1848.9	1843.6	1835.1	1833.1
5°	1880.4	1891.6	1890.2	1892.9	1901.4	1903.4	1905.3	1901.4	1890.9	1880.4	1875.8
7.5°	1859.4	1871.9	1875.8	1891.6	1917.8	1941.4	1959.2	1966.4	1956.5	1941.4	1934.2
10°	1788.5	1802.3	1816.1	1853.5	1900.1	1955.9	2003.1	2031.4	2029.4	2014.9	2002.5
12.5°	1644.8	1659.2	1688.7	1761.6	1846.9	1945.4	2033.3	2092.4	2112.7	2102.2	2080.6
15°	1529.9	1542.4	1564.7	1639.5	1750.4	1900.1	2044.5	2159.3	2211.2	2205.3	2179.0
17.5°	1526.6	1531.9	1545.7	1581.1	1666.4	1829.2	2032.7	2225.0	2324.1	2323.4	2290.6
20°	1584.4	1586.4	1594.2	1601.5	1650.0	1775.4	2002.5	2279.4	2450.8	2450.8	2415.3
22.5°	1664.5	1663.1	1671.0	1664.5	1688.1	1770.8	1983.4	2327.4	2591.9	2602.4	2557.7
25°	1784.6	1778.0	1776.0	1760.9	1765.5	1813.5	2004.4	2381.8	2759.2	2780.9	2725.1
27.5°	1944.7	1934.2	1927.0	1892.2	1880.4	1901.4	2068.8	2447.5	2945.6	2983.0	2912.2
30°	2153.4	2134.4	2123.9	2063.5	2020.9	2024.1	2165.9	2534.8	3140.6	3200.9	3111.0
32.5°	2438.3	2408.7	2380.5	2281.4	2203.3	2177.7	2291.3	2655.5	3351.9	3448.4	3332.9
35°	2757.3	2733.6	2703.4	2550.5	2430.4	2371.3	2460.6	2824.2	3599.3	3752.3	3602.0
37.5°	3064.4	3044.1	3058.5	2852.4	2697.5	2611.6	2682.4	3050.6	3904.5	4130.3	3939.3
40°	3382.1	3366.3	3368.3	3171.4	2990.9	2894.4	2951.5	3334.8	4254.4	4579.9	4344.9
42.5°	3727.3	3715.5	3676.1	3501.5	3298.7	3208.8	3261.3	3663.0	4629.8	5091.8	4789.9
45°	4113.9	4106.7	4069.9	3869.7	3637.4	3536.3	3607.2	4025.3	5007.2	5573.6	5236.9
47.5°	4448.0	4453.9	4449.3	4280.6	4039.7	3891.4	3976.1	4403.3	5358.3	6026.5	5665.5
50°	4608.8	4639.6	4684.9	4632.4	4482.8	4331.8	4348.2	4768.3	5693.0	6451.1	6076.3
52.5°	4524.8	4583.2	4706.6	4790.6	4848.3	4816.8	4772.9	5130.6	6008.1	6834.4	6464.9
55°	4211.7	4293.7	4498.5	4701.3	4996.0	5225.1	5282.8	5532.2	6315.2	7171.8	6832.4
57.5°	3641.3	3774.6	3958.3	4368.6	4864.7	5422.6	5877.5	6089.5	6640.8	7532.1	7217.0
60°	2663.4	2841.9	3070.3	3680.7	4405.3	5317.0	6383.5	6945.3	7103.5	7998.7	7717.8
62.5°	1704.5	1814.8	2024.8	2599.7	3432.6	4775.5	6538.4	8015.1	7887.8	8764.0	8468.7
65°	1167.0	1237.8	1430.2	1753.1	2219.1	3554.7	6123.6	8817.2	9133.5	9976.9	9752.5
67.5°	848.0	901.8	1065.9	1348.8	1445.9	2103.5	4751.9	8780.4	10344.5	11226.6	10877.4
70°	618.3	656.3	794.2	1065.9	1112.5	1170.2	2878.7	7463.8	10318.2	11558.7	11140.6
72.5°	458.1	484.4	576.9	827.0	900.5	790.2	1424.9	5424.6	8866.4	10454.7	10119.4
75°	331.4	351.1	419.4	632.7	720.7	601.9	710.8	3170.1	6184.6	7354.2	7413.3
77.5°	253.3	268.4	313.1	463.4	576.9	451.6	441.1	1458.4	2932.5	2946.9	3112.3
80°	203.5	213.3	237.6	326.2	442.4	338.0	287.5	588.7	926.7	784.3	823.0
82.5°	149.6	166.1	200.8	229.1	316.4	233.0	175.2	297.3	352.5	303.2	305.9
85°	85.3	96.5	121.4	164.1	202.2	142.4	100.4	131.9	164.1	134.5	120.1
87.5°	30.2	39.4	42.7	64.3	87.9	59.1	38.7	38.1	53.8	40.0	33.5
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: P940085

CATALOG NUMBER: GALN-SB3A-727-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1813.5	1813.5	1813.5	1813.5	1813.5	1813.5	1813.5	1813.5	1813.5	1813.5	1813.5
2.5°	1826.6	1823.3	1810.2	1792.4	1774.1	1756.3	1750.4	1738.0	1729.4	1724.8	1730.1
5°	1863.3	1852.8	1822.0	1782.6	1741.3	1696.6	1665.1	1636.2	1615.2	1595.5	1603.4
7.5°	1915.8	1897.5	1844.3	1775.4	1701.9	1627.7	1572.6	1530.6	1502.3	1484.0	1487.9
10°	1976.9	1948.7	1867.3	1764.2	1650.7	1544.4	1479.4	1443.3	1425.6	1415.7	1418.3
12.5°	2047.1	2007.1	1890.9	1738.6	1572.6	1451.2	1406.5	1396.0	1396.7	1397.3	1398.6
15°	2133.7	2078.0	1909.9	1682.8	1470.8	1379.6	1371.7	1388.8	1406.5	1415.1	1414.4
17.5°	2231.5	2152.8	1913.2	1591.0	1371.1	1333.7	1358.6	1395.4	1422.3	1434.1	1436.7
20°	2336.5	2228.9	1889.6	1461.0	1289.0	1296.3	1340.9	1388.1	1417.7	1432.8	1436.7
22.5°	2456.7	2310.3	1833.1	1324.5	1222.1	1255.6	1308.1	1354.0	1384.9	1400.0	1403.9
25°	2593.8	2401.5	1744.5	1209.6	1164.3	1209.6	1262.1	1300.2	1325.1	1338.9	1342.9
27.5°	2746.1	2496.7	1626.4	1118.4	1113.8	1162.4	1205.7	1235.2	1248.3	1258.8	1262.8
30°	2899.0	2583.3	1483.3	1049.5	1069.8	1115.8	1146.6	1159.7	1163.7	1165.6	1170.2
32.5°	3064.4	2658.2	1333.0	992.4	1027.8	1070.5	1088.9	1094.8	1076.4	1063.9	1067.9
35°	3264.6	2738.2	1186.0	947.1	986.5	1023.2	1029.1	1023.9	1002.2	976.6	977.9
37.5°	3512.0	2838.0	1068.5	914.9	947.7	972.0	964.8	963.5	965.5	935.3	937.2
40°	3815.3	2967.9	982.5	890.0	916.2	921.5	901.1	912.3	922.1	876.2	877.5
42.5°	4152.0	3124.8	928.1	872.9	890.0	877.5	846.0	858.5	857.2	796.8	796.1
45°	4495.2	3295.5	909.0	860.5	865.7	840.8	806.0	809.3	781.7	727.2	729.2
47.5°	4836.5	3478.6	920.8	850.0	835.5	807.3	780.4	765.9	725.2	684.6	684.6
50°	5171.3	3670.9	964.2	828.9	794.2	777.8	758.1	732.5	689.2	654.4	651.7
52.5°	5481.7	3864.5	1012.7	794.2	742.3	752.2	739.7	710.2	667.5	632.0	632.7
55°	5775.7	4058.1	1031.8	746.3	693.7	729.8	722.6	668.1	617.0	588.1	585.4
57.5°	6096.0	4291.1	1010.8	685.2	654.4	704.2	676.7	616.3	586.8	565.1	563.1
60°	6539.7	4656.7	965.5	609.7	617.0	666.2	618.9	594.0	561.8	537.5	536.2
62.5°	7276.8	5338.6	892.6	534.9	573.0	609.7	591.4	566.4	533.6	510.0	510.0
65°	8366.3	6286.4	755.4	476.5	523.8	554.6	561.8	536.9	502.8	477.8	479.1
67.5°	9285.2	6881.0	571.7	427.9	473.2	510.0	530.3	506.0	469.9	445.7	446.3
70°	9234.6	6449.1	436.5	380.0	428.6	466.0	492.3	473.2	434.5	411.5	413.5
72.5°	8202.2	5395.1	353.1	331.4	383.3	420.1	451.6	437.1	397.7	375.4	375.4
75°	6025.8	3829.7	282.2	282.2	326.9	372.1	406.9	397.7	361.6	345.9	341.3
77.5°	2540.0	1606.7	221.2	234.3	271.7	319.6	363.0	366.2	334.7	354.4	321.6
80°	675.4	443.0	168.7	184.4	213.3	263.8	315.7	314.4	280.3	261.9	243.5
82.5°	257.3	174.6	120.1	130.0	154.2	202.2	250.1	257.9	223.8	193.6	193.6
85°	99.1	74.8	74.2	78.1	89.9	133.9	189.0	195.6	168.7	143.1	147.7
87.5°	25.6	22.3	27.6	26.3	41.3	71.5	108.3	112.2	103.0	59.7	85.3
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)