

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: P451374

Luminaire Tested: **GALN-SA2B-727-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451374
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9793 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

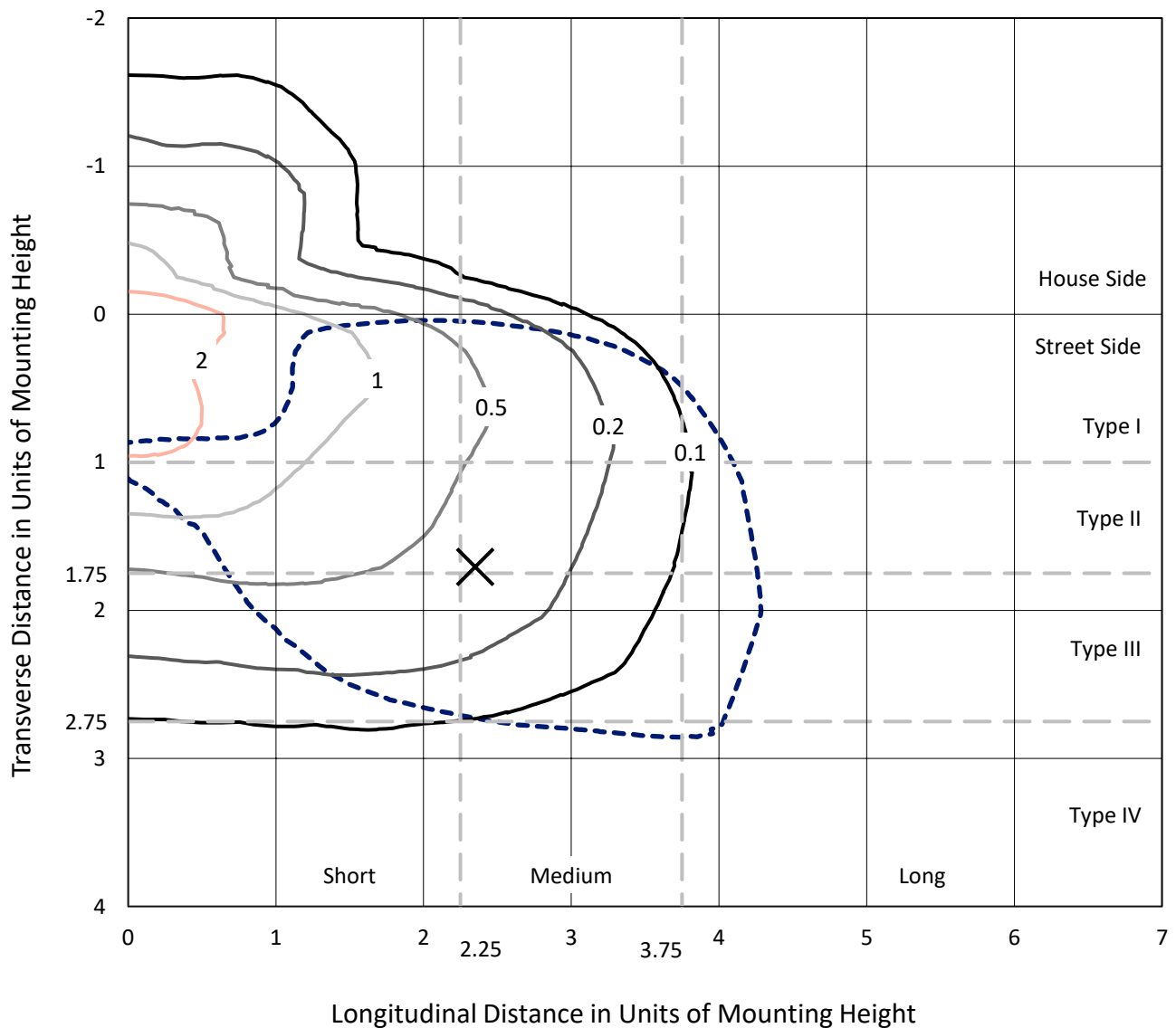
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P451374
 CATALOG NUMBER: GALN-SA2B-727-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

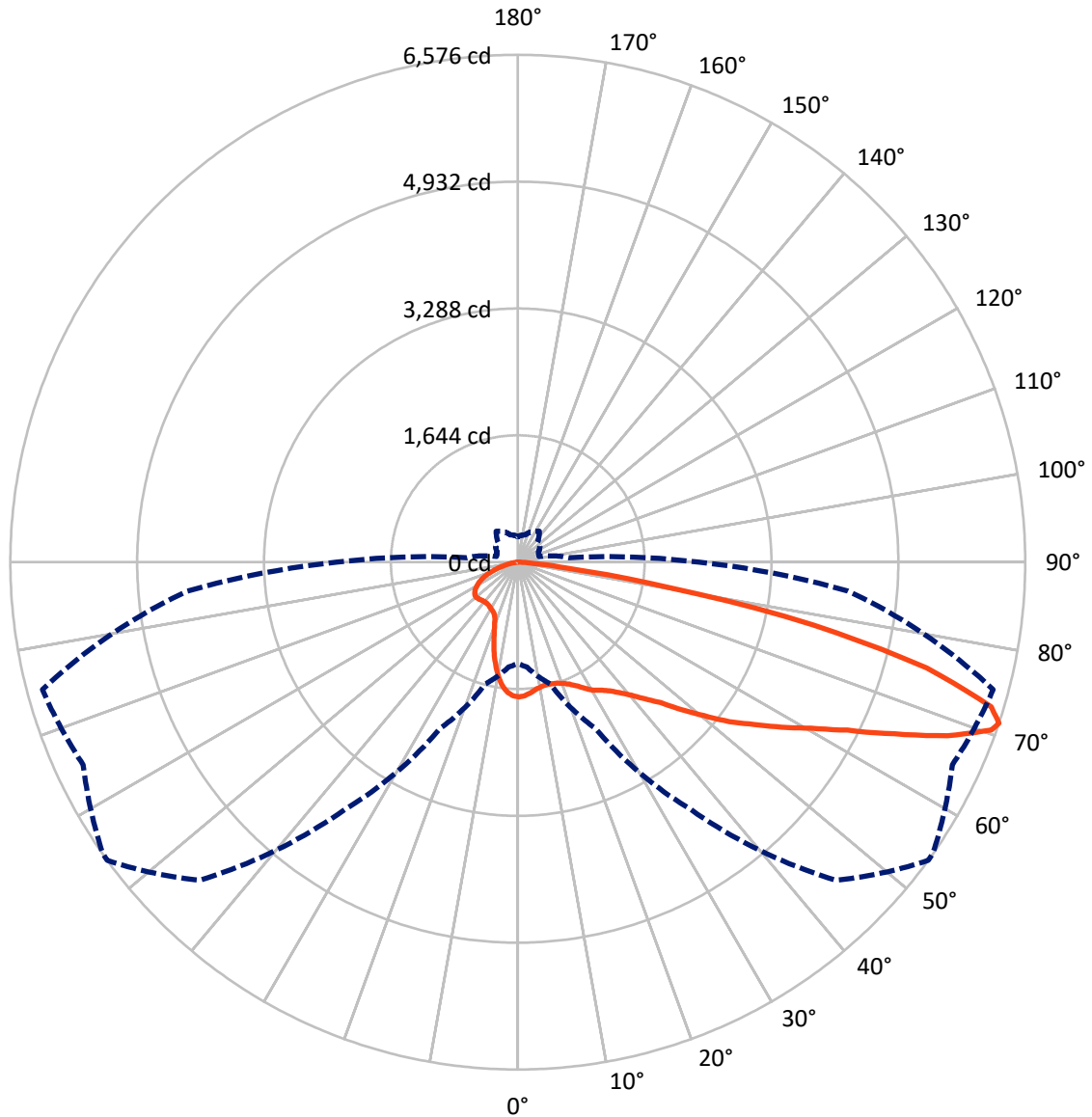
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type IV - Medium - N/A

REPORT NUMBER: P451374
CATALOG NUMBER: GALN-SA2B-727-U-T3R

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P451374

CATALOG NUMBER: GALN-SA2B-727-U-T3R

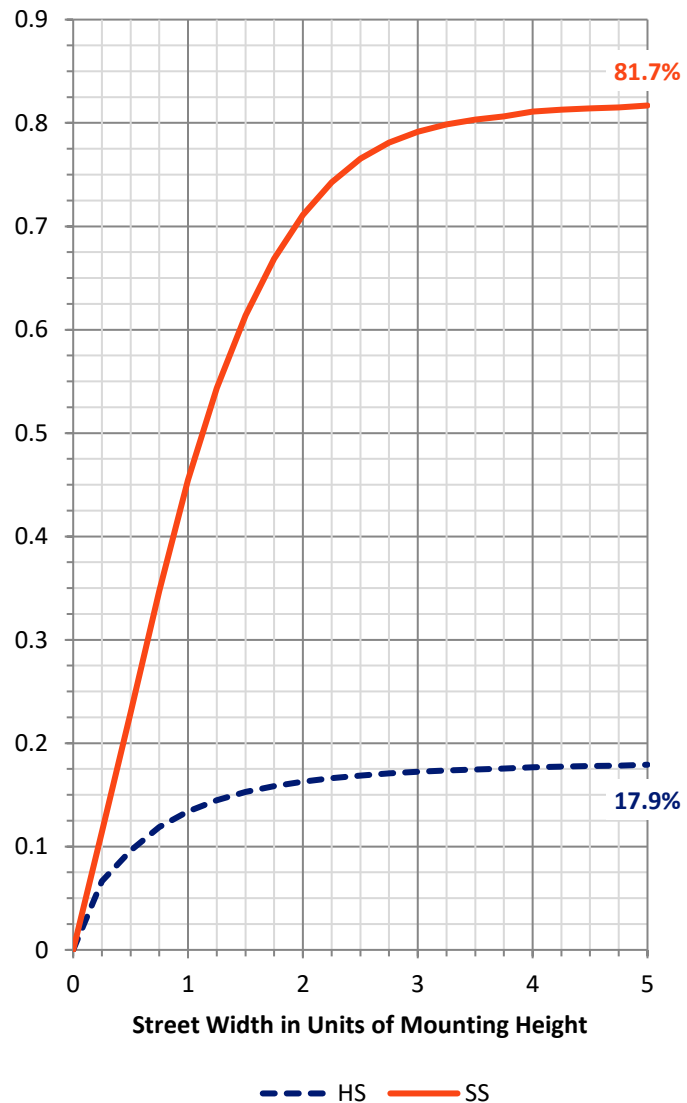
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1768.1	0.0	1768.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	8025.0	0.0	8025.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	9793.0	0.0	9793.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.7	1.6
10°-20°	411.1	4.2
20°-30°	684.6	7.0
30°-40°	1012.2	10.3
40°-50°	1425.8	14.6
50°-60°	1909.2	19.5
60°-70°	2406.4	24.6
70°-80°	1643.5	16.8
80°-90°	144.5	1.5
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°	9793.0	100.0
0°-180°	9793.0	100.0



REPORT NUMBER: P451374

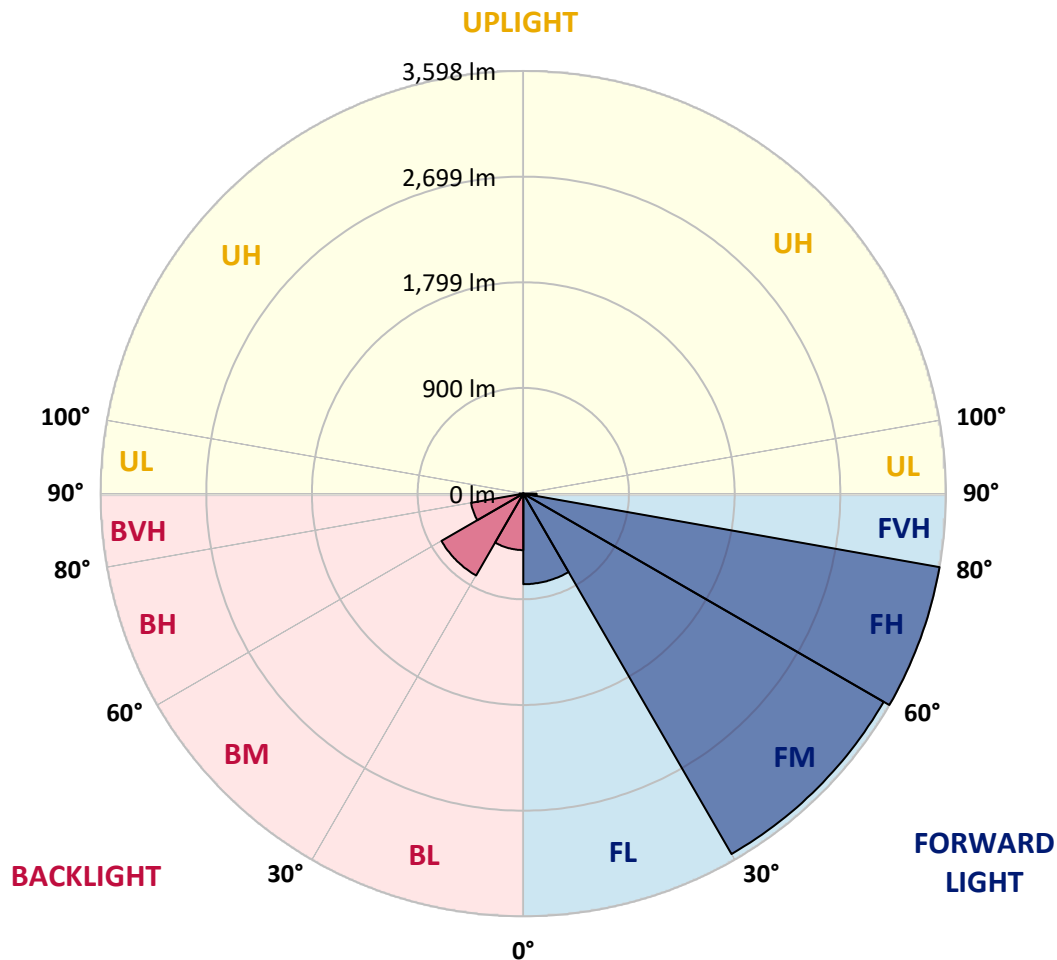
CATALOG NUMBER: GALN-SA2B-727-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	770.9	7.9			
FM	(30°-60°)	3542.8	36.2			
FH	(60°-80°)	3598.3	36.7			G2/5000
FVH	(80°-90°)	113.0	1.2			G2/225
BL	(0°-30°)	480.5	4.9	B1/500		
BM	(30°-60°)	804.4	8.2	B1/1000		
BH	(60°-80°)	451.6	4.6	B1/500		G1/500
BVH	(80°-90°)	31.6	0.3			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 IV Medium





REPORT NUMBER: P451374

CATALOG NUMBER: GALN-SA2B-727-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1747.2	1747.2	1747.2	1747.2	1747.2	1747.2	1747.2	1747.2	1747.2	1747.2	1747.2
2.5°	1688.0	1695.9	1698.0	1703.3	1714.4	1723.4	1732.4	1731.3	1744.0	1749.3	1754.1
5°	1612.9	1615.0	1622.9	1633.5	1653.1	1677.9	1702.3	1702.8	1734.0	1758.9	1771.0
7.5°	1557.8	1564.7	1570.0	1581.1	1601.7	1628.7	1667.3	1670.5	1726.1	1775.3	1801.2
10°	1521.9	1529.8	1535.6	1549.4	1570.0	1600.2	1641.9	1647.8	1720.2	1801.2	1846.7
12.5°	1489.1	1497.0	1502.3	1520.3	1547.3	1584.3	1631.4	1638.2	1722.4	1831.3	1896.4
15°	1509.2	1515.5	1513.4	1518.7	1536.7	1579.0	1635.6	1642.5	1730.3	1860.4	1945.6
17.5°	1598.6	1603.9	1586.4	1566.3	1557.8	1589.1	1648.8	1656.2	1746.2	1890.6	1995.8
20°	1730.3	1744.6	1706.5	1661.5	1620.8	1625.0	1676.3	1684.3	1768.4	1920.7	2047.1
22.5°	1901.7	1912.3	1865.7	1791.7	1716.5	1677.9	1717.6	1722.4	1801.7	1959.9	2103.2
25°	2103.2	2109.6	2045.0	1949.8	1841.4	1768.4	1774.2	1782.7	1856.7	2004.3	2152.9
27.5°	2298.9	2319.0	2244.5	2128.1	1985.3	1863.6	1852.0	1857.2	1916.5	2029.2	2187.3
30°	2531.2	2529.6	2450.8	2315.9	2132.8	1967.3	1925.5	1924.4	1948.8	2041.3	2212.2
32.5°	2716.3	2738.0	2660.8	2513.7	2301.6	2074.7	1976.3	1974.1	1973.6	2062.5	2249.2
35°	2926.8	2930.0	2859.1	2711.0	2484.1	2209.5	2047.1	2036.6	2024.4	2108.0	2299.5
37.5°	3115.2	3130.0	3064.9	2898.8	2663.4	2349.7	2144.5	2137.6	2100.6	2186.8	2379.9
40°	3262.2	3273.3	3234.2	3076.0	2840.1	2501.0	2268.3	2255.6	2210.6	2315.9	2487.3
42.5°	3310.3	3333.1	3348.4	3270.7	3043.2	2680.3	2420.6	2404.7	2370.4	2511.6	2611.0
45°	3314.1	3350.0	3431.0	3434.7	3247.4	2895.1	2598.3	2587.2	2584.6	2762.3	2785.1
47.5°	3286.0	3322.5	3458.5	3532.0	3429.4	3112.0	2854.9	2837.4	2839.0	3072.3	2980.3
50°	3218.3	3261.7	3426.7	3594.4	3571.7	3337.3	3125.7	3119.9	3152.7	3426.2	3182.9
52.5°	3090.8	3143.2	3393.9	3633.6	3677.5	3531.5	3433.6	3417.2	3500.3	3810.2	3404.5
55°	2738.0	2816.8	3273.8	3655.2	3778.0	3717.1	3710.8	3740.4	3850.4	4229.2	3648.4
57.5°	2553.9	2613.2	3013.1	3658.9	3904.9	3933.0	4034.5	4041.9	4234.5	4674.1	3924.0
60°	2453.4	2505.8	2870.2	3634.6	4082.1	4200.1	4365.7	4392.1	4609.5	5156.0	4209.6
62.5°	2365.6	2410.6	2784.5	3550.5	4282.1	4596.3	4794.7	4807.4	5035.3	5688.1	4491.6
65°	2158.8	2210.1	2612.1	3466.4	4454.5	5091.4	5363.8	5349.0	5488.7	6147.3	4668.2
67.5°	1880.0	1945.1	2289.9	3176.0	4539.7	5632.6	6005.0	5986.5	5936.2	6448.2	4719.0
70°	1524.0	1558.9	1877.9	2674.0	4199.6	5916.6	6511.2	6491.6	6213.4	6487.9	4478.9
71°	1311.3	1365.8	1635.1	2375.1	3916.6	5829.9	6576.3	6571.0	6213.9	6378.4	4298.0
72.5°	1023.6	1056.9	1294.9	1840.3	3328.9	5336.9	6415.5	6435.6	6079.0	6074.3	3925.0
75°	647.5	662.3	812.5	1083.3	1826.6	3779.6	5476.5	5531.0	5397.7	4971.9	2918.9
77.5°	376.1	395.1	486.7	638.5	789.2	2051.4	3918.7	3977.9	3750.5	2737.5	1195.0
80°	219.0	240.2	320.6	370.8	362.4	761.2	1995.3	2096.3	1624.0	691.4	335.4
82.5°	121.7	135.9	225.3	225.9	193.1	248.6	627.9	657.0	463.4	278.8	137.0
85°	88.3	100.0	145.5	131.7	92.6	106.9	218.5	229.0	187.3	117.4	44.4
87.5°	31.2	44.4	79.9	63.5	25.4	22.2	62.9	51.3	47.6	32.8	10.1
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: P451374
 CATALOG NUMBER: GALN-SA2B-727-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1747.2	1747.2	1747.2	1747.2	1747.2	1747.2	1747.2	1747.2	1747.2	1747.2	1747.2
2.5°	1756.7	1757.8	1752.5	1743.0	1733.5	1721.3	1707.5	1697.0	1692.2	1691.7	1691.1
5°	1775.8	1778.4	1758.3	1728.7	1695.9	1655.7	1621.3	1582.2	1572.1	1556.3	1561.0
7.5°	1806.5	1804.9	1765.2	1702.3	1625.6	1540.4	1468.4	1426.7	1383.3	1371.1	1371.6
10°	1850.4	1840.3	1765.2	1648.3	1520.3	1393.9	1293.4	1229.9	1195.5	1166.9	1156.3
12.5°	1896.9	1871.5	1748.3	1572.7	1384.9	1229.9	1122.0	1036.3	1014.1	990.8	991.3
15°	1941.4	1899.0	1714.9	1466.3	1238.9	1054.8	950.0	898.7	891.9	894.5	894.0
17.5°	1981.6	1918.6	1664.2	1347.8	1068.5	904.6	849.0	852.7	871.2	884.5	886.0
20°	2022.3	1930.2	1588.5	1189.1	907.7	813.6	815.7	844.8	872.8	890.8	893.4
22.5°	2060.9	1935.5	1499.7	1035.7	791.4	775.0	806.2	837.4	864.9	882.3	885.0
25°	2086.3	1923.4	1373.8	875.5	734.2	761.2	794.0	820.4	843.7	861.7	865.9
27.5°	2093.2	1884.2	1217.7	745.9	707.8	748.0	778.1	797.7	815.7	832.6	835.8
30°	2089.5	1826.6	1046.3	669.7	692.4	732.6	755.9	770.2	791.9	805.1	807.8
32.5°	2083.6	1759.4	867.5	629.0	679.7	718.4	732.1	744.8	744.3	739.0	742.7
35°	2085.8	1679.0	722.6	604.6	668.6	707.8	719.4	703.5	658.0	655.9	653.8
37.5°	2096.9	1599.6	617.3	587.7	662.8	706.2	712.5	639.5	599.3	580.8	576.1
40°	2125.4	1507.1	548.0	575.0	662.3	718.4	681.3	607.3	530.0	494.1	491.4
42.5°	2163.5	1416.1	505.7	567.1	668.6	736.9	668.6	561.8	477.7	456.5	453.3
45°	2220.1	1311.9	482.4	563.4	678.2	743.7	664.4	528.4	456.5	439.6	439.6
47.5°	2284.1	1212.4	469.7	560.7	690.3	739.0	626.8	517.9	446.5	448.6	458.6
50°	2347.6	1126.2	460.2	554.9	700.9	736.3	611.5	517.3	449.1	476.1	494.1
52.5°	2421.1	1065.4	448.6	545.4	700.9	719.4	606.7	527.9	456.5	464.4	472.4
55°	2510.0	1046.3	433.8	524.7	688.2	677.1	604.1	543.3	461.8	443.3	446.5
57.5°	2627.4	1077.0	419.5	498.8	659.1	633.2	603.0	547.5	449.6	434.3	431.1
60°	2763.9	1137.8	415.2	472.4	619.4	595.6	596.7	535.3	432.7	416.8	419.5
62.5°	2859.7	1174.3	412.6	452.3	576.1	554.4	581.3	520.5	425.3	411.5	414.2
65°	2859.7	1129.9	388.3	421.6	520.0	504.6	562.8	502.0	415.8	399.9	397.3
67.5°	2751.2	1000.3	351.2	375.6	458.1	448.0	536.9	479.8	401.5	389.3	383.0
70°	2468.7	758.6	304.7	321.6	379.8	388.8	503.6	449.6	377.7	362.9	353.4
71°	2344.4	660.7	285.1	294.1	349.7	362.9	487.7	436.9	367.1	346.0	329.0
72.5°	2104.8	556.5	255.5	259.2	298.9	322.7	454.4	412.6	347.0	316.9	297.8
75°	1599.1	406.3	205.8	203.7	221.1	256.0	384.6	367.6	304.2	263.4	252.3
77.5°	690.8	221.1	153.9	155.5	150.2	194.1	302.6	315.8	260.8	214.2	204.2
80°	209.5	127.5	105.3	107.4	100.5	130.1	213.2	247.6	209.5	166.6	152.9
82.5°	107.4	76.2	71.9	70.9	64.0	73.5	129.1	169.3	149.7	104.2	92.0
85°	46.6	40.7	35.4	34.4	30.2	26.4	46.0	84.6	79.3	58.2	55.5
87.5°	11.6	10.6	6.9	6.3	3.7	0.5	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)