

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: P453000

Luminaire Tested: **GALN-SA4A-727-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453000
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-SA4A-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 615mA 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: 15096 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

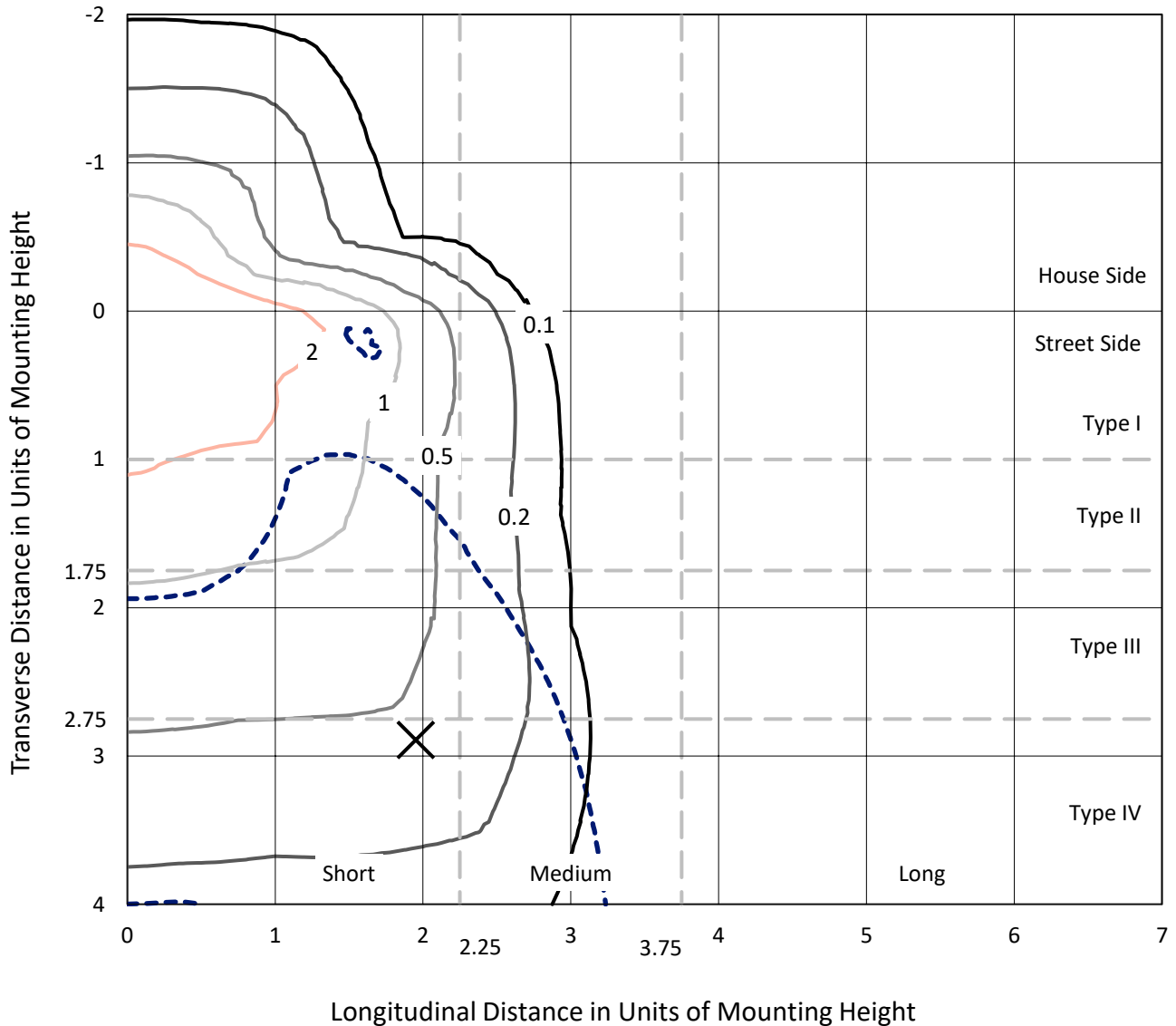
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P453000
 CATALOG NUMBER: GALN-SA4A-727-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

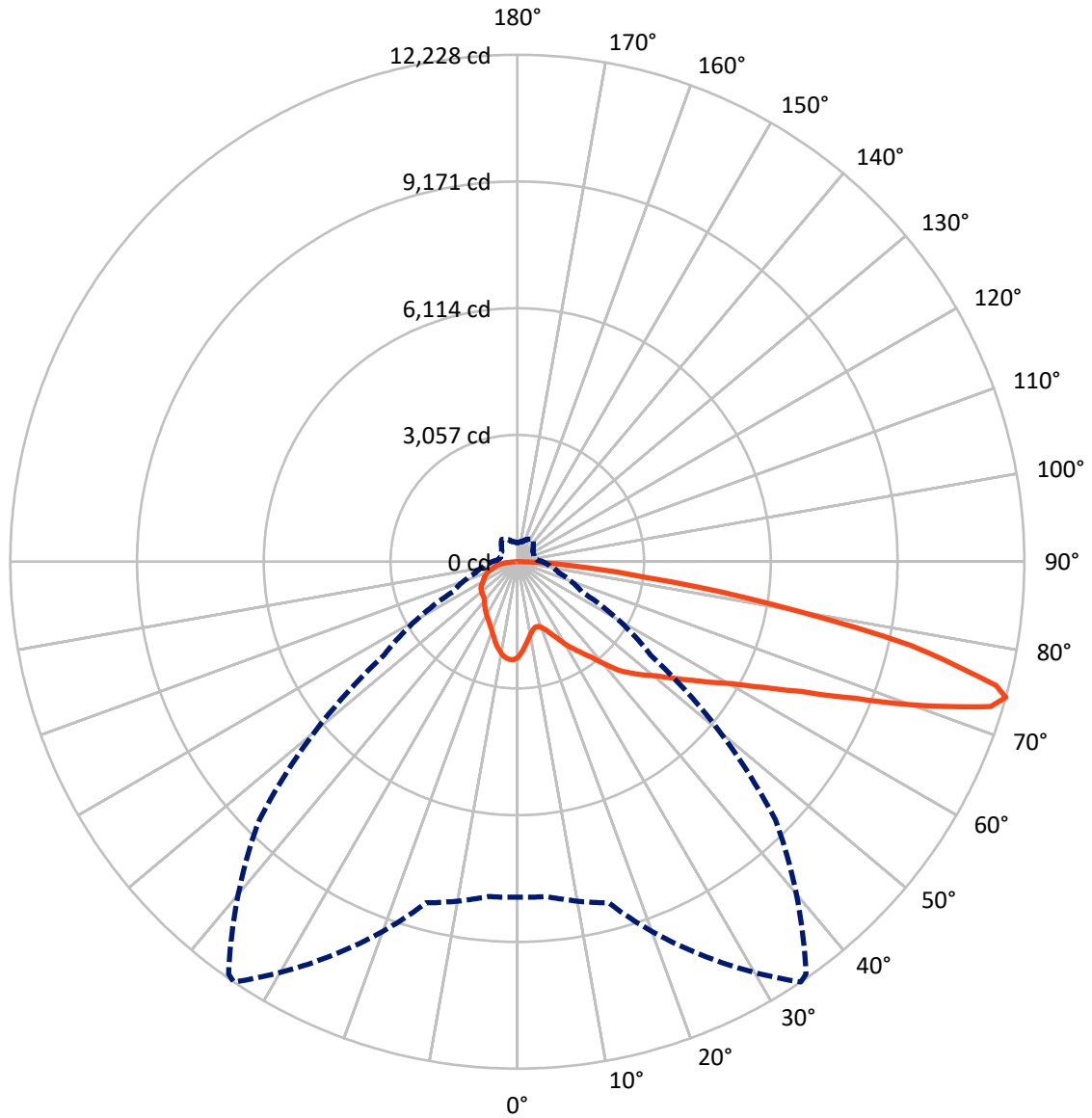
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P453000
CATALOG NUMBER: GALN-SA4A-727-U-T4FT

Luminous Intensity Polar Plot



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

REPORT NUMBER: P453000

CATALOG NUMBER: GALN-SA4A-727-U-T4FT

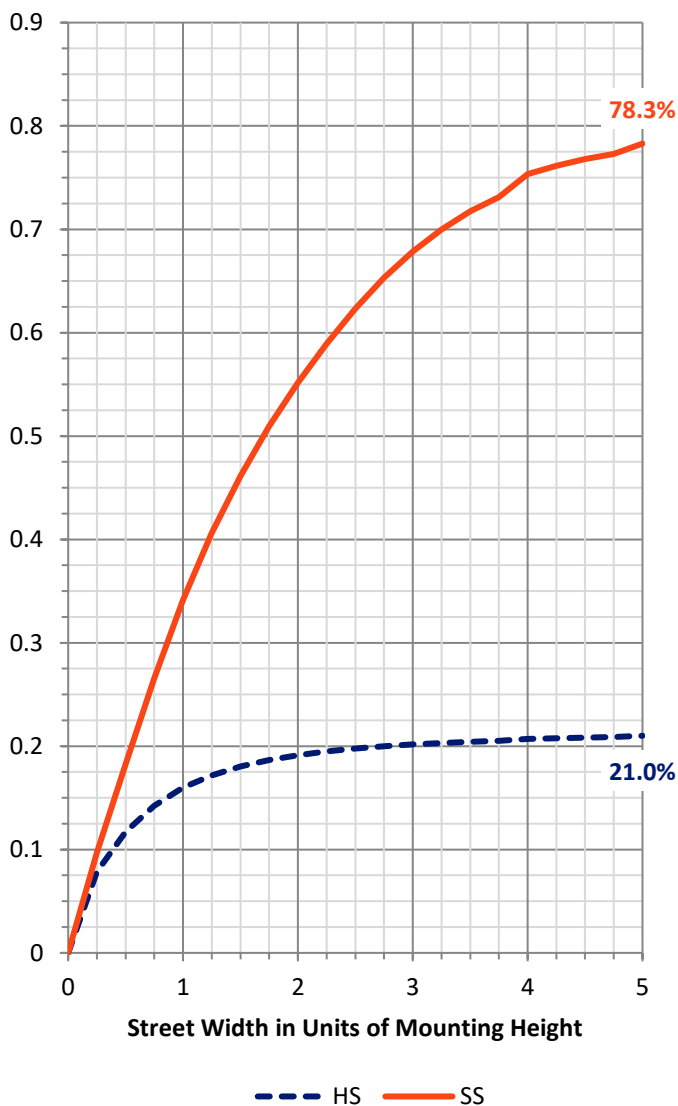
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3212.5	0.0	3212.5
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	11883.5	0.0	11883.5
	% Fixture	78.7	0.0	78.7
Total	Lumens	15096.0	0.0	15096.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.6	1.4
10°-20°	573.8	3.8
20°-30°	946.1	6.3
30°-40°	1417.1	9.4
40°-50°	2060.1	13.6
50°-60°	2877.5	19.1
60°-70°	3602.4	23.9
70°-80°	2978.9	19.7
80°-90°	430.4	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°	15096.0	100.0
0°-180°	15096.0	100.0

Coefficient of Utilization



REPORT NUMBER: P453000

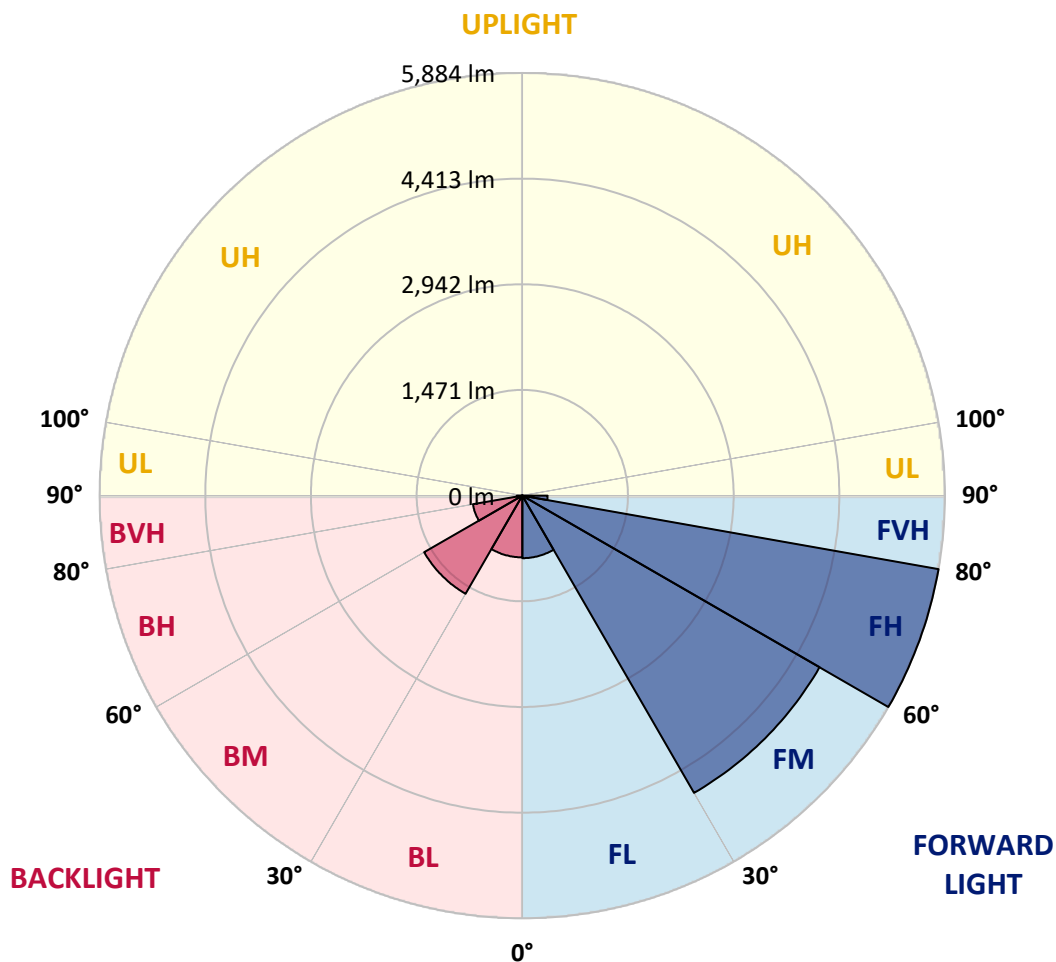
CATALOG NUMBER: GALN-SA4A-727-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	870.2	5.8			
FM (30°-60°)	4777.0	31.6			
FH (60°-80°)	5883.6	39.0			G3/7500
FVH (80°-90°)	352.6	2.3			G3/500
BL (0°-30°)	859.3	5.7	B2/1000		
BM (30°-60°)	1577.7	10.5	B2/2500		
BH (60°-80°)	697.7	4.6	B2/1000		G2/1000
BVH (80°-90°)	77.8	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





REPORT NUMBER: P453000

CATALOG NUMBER: GALN-SA4A-727-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2304.9	2304.9	2304.9	2304.9	2304.9	2304.9	2304.9	2304.9	2304.9	2304.9	2304.9
2.5°	2130.1	2140.9	2146.8	2167.7	2172.7	2179.4	2197.0	2220.4	2250.5	2277.3	2300.7
5°	1952.8	1969.5	1979.5	1997.9	2033.9	2037.2	2084.1	2137.6	2198.6	2255.5	2302.4
7.5°	1784.7	1803.1	1811.4	1844.9	1892.6	1900.1	1968.7	2053.1	2155.2	2241.3	2313.2
10°	1658.4	1667.6	1686.0	1711.1	1768.0	1773.0	1862.5	1975.4	2107.5	2234.6	2331.6
12.5°	1589.8	1594.8	1599.0	1625.8	1681.8	1689.3	1783.0	1911.0	2069.9	2239.6	2361.7
15°	1599.9	1601.5	1583.1	1588.1	1633.3	1644.2	1737.0	1868.3	2046.4	2252.2	2406.9
17.5°	1684.3	1678.5	1633.3	1609.9	1641.7	1646.7	1727.8	1851.6	2035.6	2275.6	2453.7
20°	1817.3	1808.9	1731.2	1679.3	1697.7	1701.9	1757.9	1864.1	2046.4	2314.1	2526.5
22.5°	1982.9	1979.5	1861.6	1798.9	1798.1	1798.1	1827.3	1909.3	2079.1	2366.7	2602.6
25°	2214.5	2197.0	2043.1	1962.0	1939.4	1937.7	1934.4	1983.7	2120.9	2422.8	2692.9
27.5°	2452.1	2421.9	2284.8	2160.2	2111.7	2105.8	2084.1	2089.1	2174.4	2486.3	2795.8
30°	2665.3	2646.1	2517.3	2379.3	2321.6	2308.2	2248.0	2220.4	2263.9	2600.9	2959.7
32.5°	2828.4	2816.7	2716.3	2590.9	2505.6	2503.1	2415.3	2392.7	2403.5	2739.7	3147.0
35°	2960.5	2964.7	2913.7	2805.0	2707.1	2692.9	2634.4	2605.9	2574.2	2940.5	3382.9
37.5°	3141.2	3150.4	3147.0	3053.4	2933.8	2937.1	2923.7	2876.9	2792.4	3164.6	3644.6
40°	3340.2	3346.9	3346.1	3310.1	3247.4	3250.7	3245.7	3192.2	3065.9	3449.8	3935.7
42.5°	3615.4	3583.6	3500.8	3536.7	3573.5	3589.4	3623.7	3572.7	3399.6	3754.2	4209.1
45°	3923.1	3862.9	3675.6	3692.3	3828.6	3858.7	4047.7	3977.5	3761.7	4103.8	4531.1
47.5°	4117.1	4057.8	3899.7	3896.4	4077.0	4106.3	4440.8	4414.9	4091.2	4480.9	4924.2
50°	4290.3	4281.9	4103.8	4146.4	4322.9	4366.4	4869.0	4844.7	4419.9	4925.8	5352.4
52.5°	4547.0	4479.3	4337.1	4424.9	4658.2	4715.1	5293.8	5222.7	4721.8	5318.9	5768.0
55°	4662.4	4646.5	4638.2	4714.3	5034.6	5075.5	5707.0	5543.9	4979.4	5651.8	6084.1
57.5°	4971.0	4941.7	5024.5	5076.4	5477.8	5540.5	6138.5	5879.2	5205.2	5916.0	6238.0
60°	5370.8	5354.9	5431.0	5524.6	5972.9	6068.2	6630.2	6165.3	5386.6	6049.0	6153.5
62.5°	5967.9	5966.2	5952.0	6152.7	6674.6	6762.4	7194.7	6443.7	5415.1	5949.5	5717.0
65°	6824.3	6794.2	6670.4	6889.5	7547.7	7650.5	7782.7	6599.3	5243.6	5438.5	4813.8
67.5°	7719.9	7718.3	7617.9	7902.3	8801.3	8907.5	8517.8	6565.0	4767.8	4405.7	3418.8
70°	8462.6	8426.6	8554.6	9312.3	10402.8	10525.8	9160.9	6161.1	3797.7	2909.5	2031.4
72.5°	8640.7	8642.4	8908.3	10399.5	11940.8	11960.0	9392.6	4993.6	2541.5	1604.9	1016.1
74°	8092.1	8106.3	8518.6	10453.8	12227.6	12140.7	8800.5	3924.8	1718.6	1047.9	732.6
75°	7386.3	7296.8	7893.1	10091.7	11929.9	11836.2	8107.2	3149.5	1311.3	837.1	641.4
77.5°	3949.0	4040.2	4960.1	7530.9	9692.0	9584.1	5497.0	1510.4	708.4	582.9	461.6
80°	1405.8	1550.5	2179.4	3940.7	6213.8	6247.2	2623.5	692.5	498.4	429.9	326.2
82.5°	573.7	589.6	935.8	1748.7	3155.4	3185.5	1071.3	411.5	356.3	296.1	194.9
85°	224.1	230.8	414.0	786.1	1346.5	1434.3	370.5	217.4	219.1	169.8	99.5
87.5°	75.3	85.3	169.8	261.8	457.5	448.3	107.9	64.4	78.6	73.6	30.9
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: P453000
 CATALOG NUMBER: GALN-SA4A-727-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2304.9	2304.9	2304.9	2304.9	2304.9	2304.9	2304.9	2304.9	2304.9	2304.9	2304.9
2.5°	2312.4	2328.3	2339.1	2350.9	2361.7	2365.1	2362.6	2370.1	2370.9	2371.8	2372.6
5°	2325.8	2347.5	2368.4	2380.1	2385.1	2381.0	2366.7	2359.2	2352.5	2347.5	2349.2
7.5°	2344.2	2375.1	2394.3	2399.4	2386.0	2366.7	2331.6	2304.0	2286.5	2274.8	2273.9
10°	2372.6	2402.7	2418.6	2404.4	2367.6	2320.8	2265.6	2213.7	2174.4	2162.7	2161.9
12.5°	2408.6	2442.9	2442.0	2400.2	2335.8	2252.2	2162.7	2102.5	2049.0	2022.2	2033.1
15°	2455.4	2481.3	2457.1	2381.8	2279.8	2165.2	2054.8	1972.8	1912.6	1884.2	1885.9
17.5°	2509.8	2532.3	2467.9	2349.2	2201.2	2054.0	1926.0	1848.2	1800.6	1779.7	1778.0
20°	2577.5	2584.2	2467.9	2292.3	2100.0	1924.3	1802.2	1747.9	1721.1	1710.2	1713.6
22.5°	2650.3	2636.9	2454.6	2212.0	1967.0	1788.9	1706.9	1682.6	1669.3	1667.6	1669.3
25°	2732.2	2694.6	2427.0	2103.3	1828.2	1671.8	1624.1	1628.3	1630.8	1630.8	1636.7
27.5°	2832.6	2757.3	2381.0	1966.2	1665.9	1563.1	1549.7	1578.9	1592.3	1594.8	1599.0
30°	2964.7	2825.9	2304.9	1794.7	1527.9	1465.2	1488.6	1527.9	1543.0	1552.2	1550.5
32.5°	3121.9	2901.1	2202.0	1623.3	1416.7	1396.6	1425.1	1465.2	1481.9	1487.0	1480.3
35°	3306.8	2986.5	2066.5	1462.7	1319.7	1331.4	1364.9	1377.4	1392.5	1392.5	1395.8
37.5°	3505.8	3055.0	1900.9	1315.5	1244.4	1287.1	1311.3	1299.6	1292.9	1284.6	1288.7
40°	3708.2	3106.0	1686.0	1170.0	1169.2	1241.1	1247.8	1214.3	1187.6	1179.2	1175.0
42.5°	3884.6	3137.8	1492.0	1057.1	1098.1	1195.9	1200.9	1147.4	1104.8	1079.7	1071.3
45°	4092.9	3174.6	1302.1	963.4	1032.0	1160.0	1172.5	1100.6	1037.9	985.2	971.8
47.5°	4378.1	3258.3	1152.4	890.7	984.3	1137.4	1154.9	1062.1	979.3	910.7	899.9
50°	4700.0	3372.8	1036.2	841.3	947.5	1117.3	1139.0	1022.8	925.0	848.9	840.5
52.5°	4995.3	3434.7	935.8	797.0	911.6	1080.5	1118.1	994.4	871.4	787.0	779.4
55°	5156.7	3334.4	837.1	753.5	862.2	1032.8	1088.9	955.1	819.6	754.3	743.5
57.5°	5178.4	3126.9	747.7	706.7	810.4	974.3	1034.5	907.4	786.1	731.8	722.6
60°	5010.3	2817.5	678.2	668.2	757.7	908.2	973.5	865.6	751.8	706.7	697.5
62.5°	4592.2	2481.3	629.7	633.1	704.2	838.8	928.3	825.4	719.2	679.1	670.7
65°	3872.9	2048.1	582.9	597.1	656.5	784.5	887.3	792.0	686.6	658.2	650.6
67.5°	2690.4	1478.6	544.4	559.5	611.3	729.3	839.7	756.0	649.8	634.8	623.0
70°	1489.5	909.9	499.3	516.8	564.5	667.4	786.1	701.7	596.3	589.6	572.9
72.5°	782.8	579.6	448.3	467.5	500.9	587.9	704.2	642.3	543.6	515.2	493.4
74°	611.3	475.0	414.0	434.0	456.6	541.1	655.7	599.6	506.0	472.5	455.8
75°	532.7	423.2	384.7	410.6	430.7	509.3	618.0	569.5	485.1	453.3	438.2
77.5°	376.3	317.0	314.5	345.4	356.3	446.6	557.0	518.5	432.4	398.9	384.7
80°	264.3	237.5	249.2	268.5	283.5	394.7	516.8	448.3	354.6	315.3	310.3
82.5°	172.3	155.6	178.1	195.7	200.7	291.0	417.3	340.4	258.4	209.9	194.9
85°	79.4	77.8	102.0	99.5	98.7	142.2	247.5	199.0	148.9	111.2	104.5
87.5°	20.1	19.2	25.1	20.9	25.1	21.7	22.6	5.9	0.8	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)