

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: P319786

Luminaire Tested: **GLEON-SA2A-827-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319786
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2A-827-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7010 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

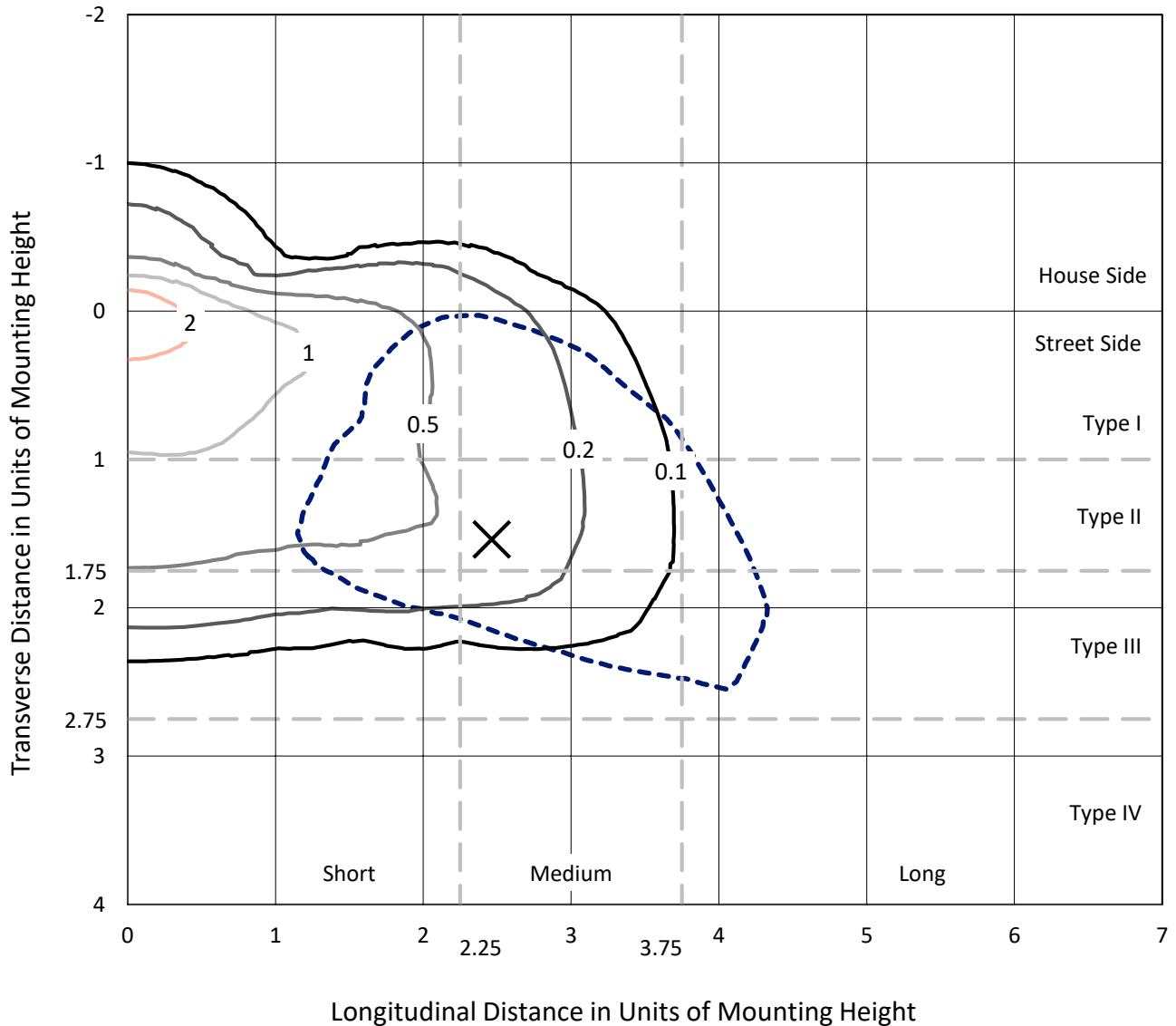
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P319786
 CATALOG NUMBER: GLEON-SA2A-827-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

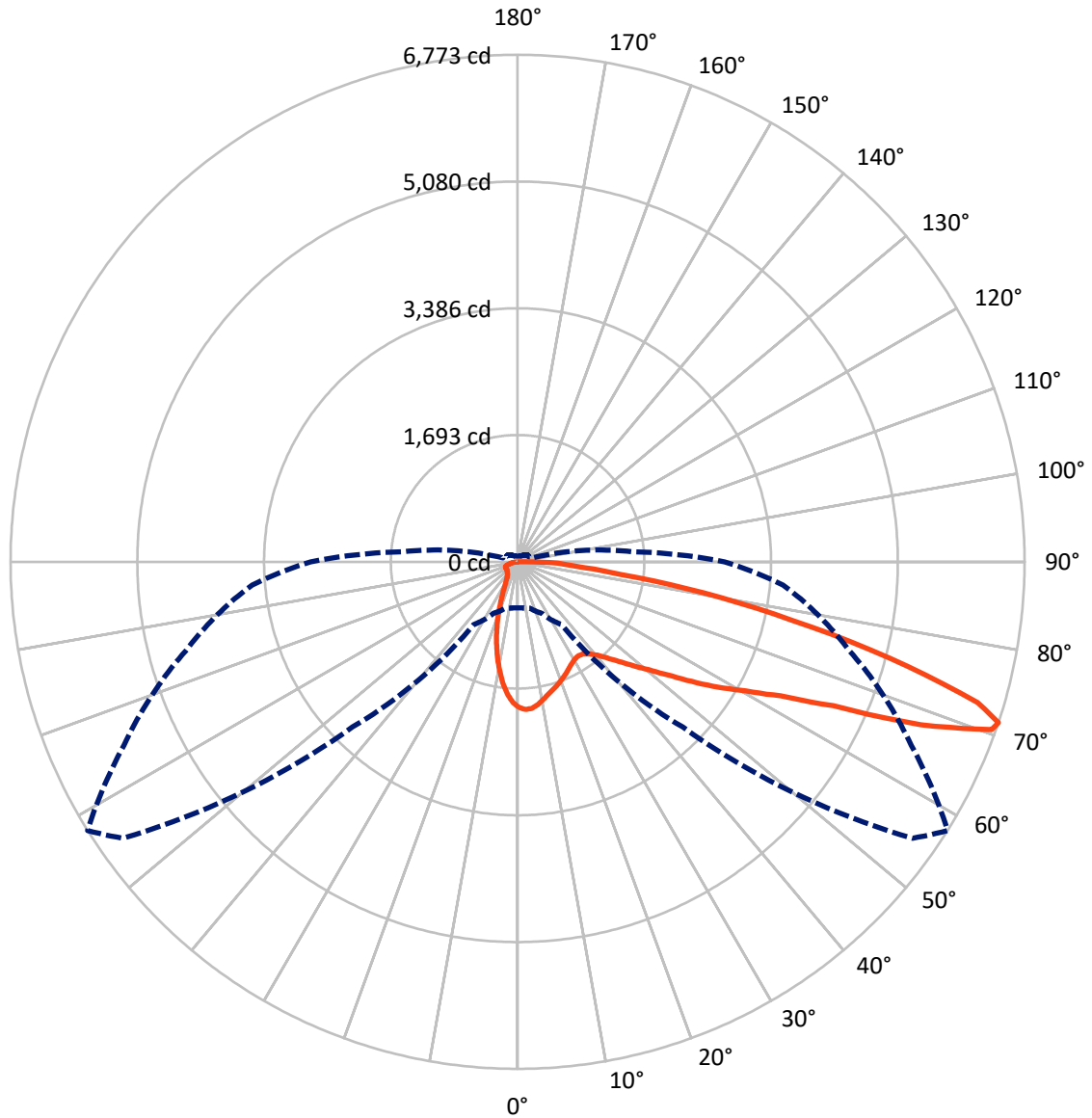
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type III - Medium - N/A

REPORT NUMBER: P319786
CATALOG NUMBER: GLEON-SA2A-827-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P319786
 CATALOG NUMBER: GLEON-SA2A-827-U-SL3

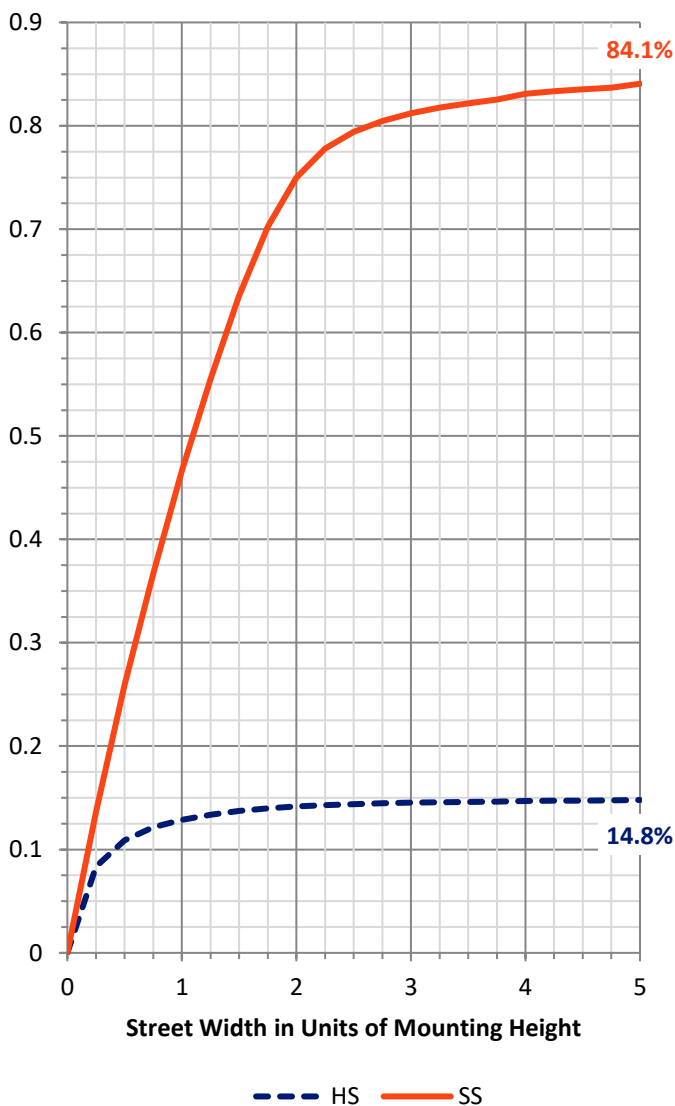
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1048.0	0.0	1048.0
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	5962.0	0.0	5962.0
	% Fixture	85.0	0.0	85.0
Total	Lumens	7010.0	0.0	7010.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.6	2.4
10°-20°	372.6	5.3
20°-30°	473.5	6.8
30°-40°	603.2	8.6
40°-50°	855.3	12.2
50°-60°	1323.6	18.9
60°-70°	1802.0	25.7
70°-80°	1202.1	17.1
80°-90°	210.2	3.0
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°	7010.0	100.0
0°-180°	7010.0	100.0

Coefficient of Utilization



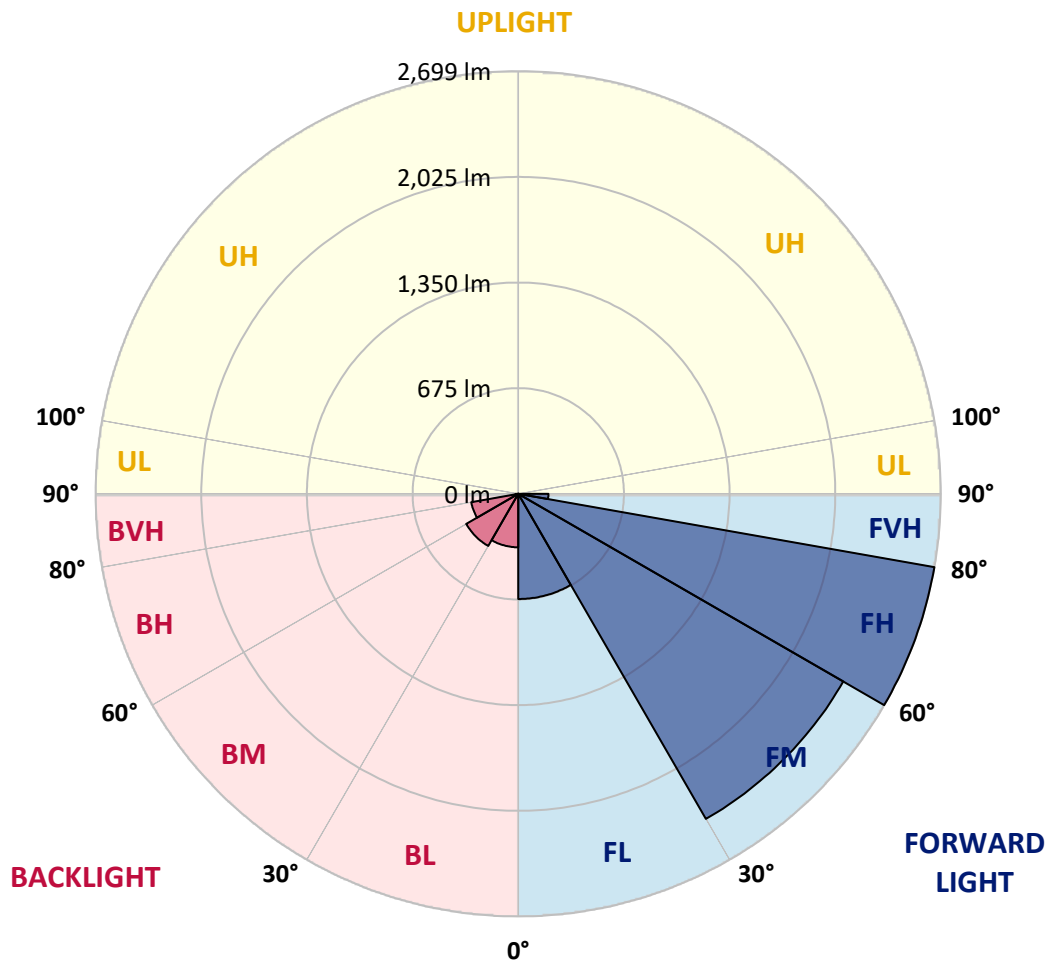
REPORT NUMBER: P319786
 CATALOG NUMBER: GLEON-SA2A-827-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	672.0	9.6			
FM (30°-60°)	2397.8	34.2			
FH (60°-80°)	2699.5	38.5			G2/5000
FVH (80°-90°)	192.7	2.7			G2/225
BL (0°-30°)	341.6	4.9	B1/500		
BM (30°-60°)	384.3	5.5	B1/1000		
BH (60°-80°)	304.6	4.3	B1/500		G1/500
BVH (80°-90°)	17.5	0.2			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 III Medium





REPORT NUMBER: P319786

CATALOG NUMBER: GLEON-SA2A-827-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1942.2	1942.2	1942.2	1942.2	1942.2	1942.2	1942.2	1942.2	1942.2	1942.2	1942.2
2.5°	1993.8	1991.1	1992.1	1990.1	1985.5	1980.8	1974.0	1975.2	1965.7	1951.5	1933.9
5°	1956.2	1955.2	1962.5	1966.7	1970.1	1967.4	1965.4	1967.9	1954.0	1934.4	1903.9
7.5°	1877.3	1866.5	1875.8	1889.7	1902.9	1912.9	1926.1	1927.8	1919.0	1898.5	1858.5
10°	1765.2	1754.9	1768.6	1790.4	1816.7	1840.7	1867.3	1872.2	1873.9	1855.3	1806.7
12.5°	1649.0	1641.2	1654.8	1685.4	1729.1	1765.9	1808.4	1815.8	1830.9	1818.4	1758.9
15°	1545.0	1542.0	1558.6	1588.7	1639.0	1695.4	1756.7	1770.1	1795.7	1791.6	1721.5
17.5°	1455.1	1454.4	1467.1	1498.6	1554.2	1625.5	1705.1	1727.8	1765.9	1770.8	1690.7
20°	1388.2	1386.7	1395.5	1418.7	1476.1	1556.9	1649.5	1680.7	1735.7	1752.8	1659.0
22.5°	1352.3	1352.0	1352.3	1363.3	1410.2	1485.4	1595.3	1633.3	1706.1	1738.3	1623.8
25°	1346.2	1345.5	1340.1	1338.9	1365.5	1425.5	1541.5	1583.5	1678.0	1728.3	1590.4
27.5°	1362.1	1363.0	1356.0	1344.5	1349.8	1386.2	1494.9	1539.8	1655.6	1726.4	1567.2
30°	1395.0	1394.5	1388.4	1376.5	1366.0	1371.6	1461.7	1506.6	1640.4	1734.9	1551.3
32.5°	1431.4	1434.1	1432.9	1426.3	1410.7	1388.2	1451.7	1495.6	1636.0	1755.4	1544.5
35°	1475.1	1478.0	1486.8	1492.0	1473.6	1437.5	1473.2	1511.3	1648.7	1794.0	1555.5
37.5°	1516.6	1524.2	1548.9	1570.6	1555.0	1514.7	1530.3	1557.4	1688.0	1854.8	1585.0
40°	1564.5	1571.1	1611.4	1657.5	1655.1	1613.3	1622.4	1640.4	1757.4	1942.0	1638.5
42.5°	1611.6	1624.8	1683.2	1748.6	1767.4	1730.5	1744.9	1754.5	1855.1	2057.5	1731.8
45°	1674.4	1688.5	1769.6	1848.5	1892.4	1871.7	1894.6	1898.3	1977.9	2214.7	1867.3
47.5°	1769.4	1785.5	1880.0	1962.8	2029.9	2032.1	2069.9	2068.5	2131.2	2394.7	2038.0
50°	1917.3	1940.5	2017.9	2095.3	2176.9	2222.3	2272.9	2265.8	2315.1	2586.4	2234.5
52.5°	2111.2	2122.0	2179.3	2236.5	2337.8	2439.6	2512.2	2505.8	2523.6	2783.5	2457.7
55°	2312.2	2320.2	2343.9	2375.2	2511.4	2677.5	2830.8	2820.8	2775.6	2988.1	2678.2
57.5°	2492.9	2509.2	2525.6	2538.5	2686.3	2926.1	3156.8	3157.5	3049.1	3208.8	2906.0
60°	2521.0	2535.4	2643.5	2745.6	2985.4	3257.7	3505.7	3498.4	3332.1	3448.4	3160.0
62.5°	2228.4	2260.9	2441.6	2713.1	3273.5	3864.2	3950.9	3941.9	3670.6	3743.6	3455.7
65°	1597.0	1633.8	1851.9	2259.9	3133.9	4532.5	4754.3	4632.7	4132.1	4106.7	3801.9
67.5°	921.3	930.1	1024.6	1352.3	2386.2	4567.5	5979.8	5809.6	4848.8	4518.6	3971.4
70°	681.3	681.0	703.5	832.2	1291.2	3727.7	6562.7	6715.3	5603.3	4654.1	3731.9
71°	616.1	616.8	642.0	757.5	1022.6	3120.2	6438.9	6772.9	5802.1	4587.2	3558.5
72.5°	526.9	529.4	564.3	679.3	860.3	2151.7	5905.6	6427.2	5896.3	4422.2	3287.2
75°	399.7	405.3	453.7	572.6	786.3	1091.3	4334.3	5132.3	5238.0	3902.1	2442.6
77.5°	285.2	291.6	346.3	481.5	747.4	822.4	2902.6	3743.6	3854.7	2500.7	1101.8
80°	180.2	187.8	229.0	383.1	702.3	780.9	1824.1	2516.3	2101.9	800.2	280.3
82.5°	105.7	111.6	142.1	250.3	573.6	752.1	1073.2	1394.8	818.0	241.7	127.5
85°	61.3	64.0	88.6	159.5	416.6	709.8	788.5	779.7	355.0	118.2	60.3
87.5°	28.6	31.7	52.5	83.3	231.2	514.5	623.2	538.4	220.7	55.4	28.3
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: P319786
 CATALOG NUMBER: GLEON-SA2A-827-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1942.2	1942.2	1942.2	1942.2	1942.2	1942.2	1942.2	1942.2	1942.2	1942.2	1942.2
2.5°	1925.4	1921.2	1903.9	1888.5	1872.4	1851.4	1828.2	1825.3	1811.1	1813.8	1808.9
5°	1887.3	1876.8	1835.0	1797.2	1752.5	1712.5	1669.0	1649.0	1620.2	1618.2	1610.9
7.5°	1832.8	1813.3	1748.6	1676.8	1605.0	1536.6	1469.0	1424.6	1379.2	1359.9	1358.2
10°	1771.6	1738.3	1643.1	1536.9	1433.4	1333.5	1236.8	1165.2	1100.8	1070.3	1069.0
12.5°	1713.4	1664.4	1533.7	1389.2	1247.5	1118.1	985.5	891.5	810.7	783.6	772.1
15°	1664.1	1595.0	1427.3	1242.4	1070.5	890.8	739.9	641.0	566.3	540.4	535.5
17.5°	1616.3	1527.4	1318.1	1094.2	886.4	688.8	537.7	464.2	424.4	413.9	413.6
20°	1568.6	1457.8	1204.1	942.5	708.4	515.2	413.4	380.4	367.0	365.8	363.8
22.5°	1514.7	1384.0	1084.2	790.4	552.8	405.1	351.4	338.2	336.5	340.9	340.9
25°	1464.1	1310.8	962.6	641.5	430.0	338.0	313.8	311.1	315.7	323.5	324.3
27.5°	1417.0	1240.2	843.9	509.1	344.5	297.7	287.6	290.8	299.1	308.2	308.4
30°	1378.2	1173.5	728.6	401.2	291.1	267.6	265.9	272.3	281.3	288.4	290.1
32.5°	1348.1	1116.7	617.3	322.6	256.1	245.2	246.6	252.0	257.6	261.5	264.2
35°	1334.2	1067.8	514.5	272.0	233.9	227.8	229.8	232.7	235.1	238.1	240.3
37.5°	1336.7	1030.0	422.7	240.5	219.0	215.9	215.9	215.9	215.9	217.3	217.6
40°	1359.4	1008.2	348.0	220.5	209.0	205.6	202.9	200.5	198.5	199.5	199.0
42.5°	1417.5	1006.3	293.3	207.8	201.0	195.3	190.0	186.6	184.1	185.1	185.6
45°	1516.1	1030.7	256.4	198.8	193.4	184.8	178.0	174.3	172.6	175.8	176.3
47.5°	1643.8	1083.9	233.9	192.2	186.3	175.1	167.8	164.3	164.8	169.5	170.7
50°	1808.4	1170.4	223.2	188.0	181.4	166.8	159.2	156.3	157.7	164.3	165.8
52.5°	1989.1	1294.9	224.4	186.8	178.3	160.7	152.6	149.2	151.6	157.7	159.0
55°	2197.7	1444.6	244.7	188.5	173.6	156.8	147.2	141.4	143.3	149.0	149.9
57.5°	2429.4	1616.0	285.5	188.0	167.8	153.1	141.6	132.8	134.3	137.7	138.7
60°	2670.6	1823.1	348.7	189.5	165.1	148.7	134.1	123.1	122.6	125.5	126.0
62.5°	2960.2	2062.6	421.0	190.5	166.8	143.1	124.0	113.3	111.8	112.6	113.1
65°	3258.6	2236.0	393.9	186.6	172.1	138.5	115.3	103.8	101.1	100.6	100.8
67.5°	3267.9	2050.2	276.2	178.7	174.3	136.0	108.7	95.7	91.3	89.6	89.4
70°	2930.7	1665.6	215.1	170.4	165.6	132.1	102.6	89.1	82.5	79.8	79.6
71°	2766.1	1533.2	203.9	166.3	159.0	128.2	99.9	86.2	79.4	76.4	75.9
72.5°	2508.0	1374.5	190.2	159.7	146.3	118.2	94.7	82.0	75.0	71.5	70.8
75°	1799.9	898.8	163.4	142.4	121.1	94.3	83.0	73.7	67.6	63.5	63.0
77.5°	693.5	357.7	123.6	118.4	92.8	73.7	68.4	63.7	59.3	55.2	54.9
80°	214.4	159.9	90.1	89.1	67.2	54.9	53.2	52.0	50.3	45.9	44.9
82.5°	114.5	91.8	62.0	57.6	44.0	36.6	38.6	39.1	39.3	34.7	34.2
85°	54.7	48.6	34.9	32.7	25.6	20.5	23.7	25.6	25.9	21.2	19.8
87.5°	26.1	25.4	16.4	12.5	9.5	6.8	8.3	10.3	11.2	8.1	7.1
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)