

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: P451127

Luminaire Tested: **GALN-SA2A-727-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451127
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 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: 7623 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

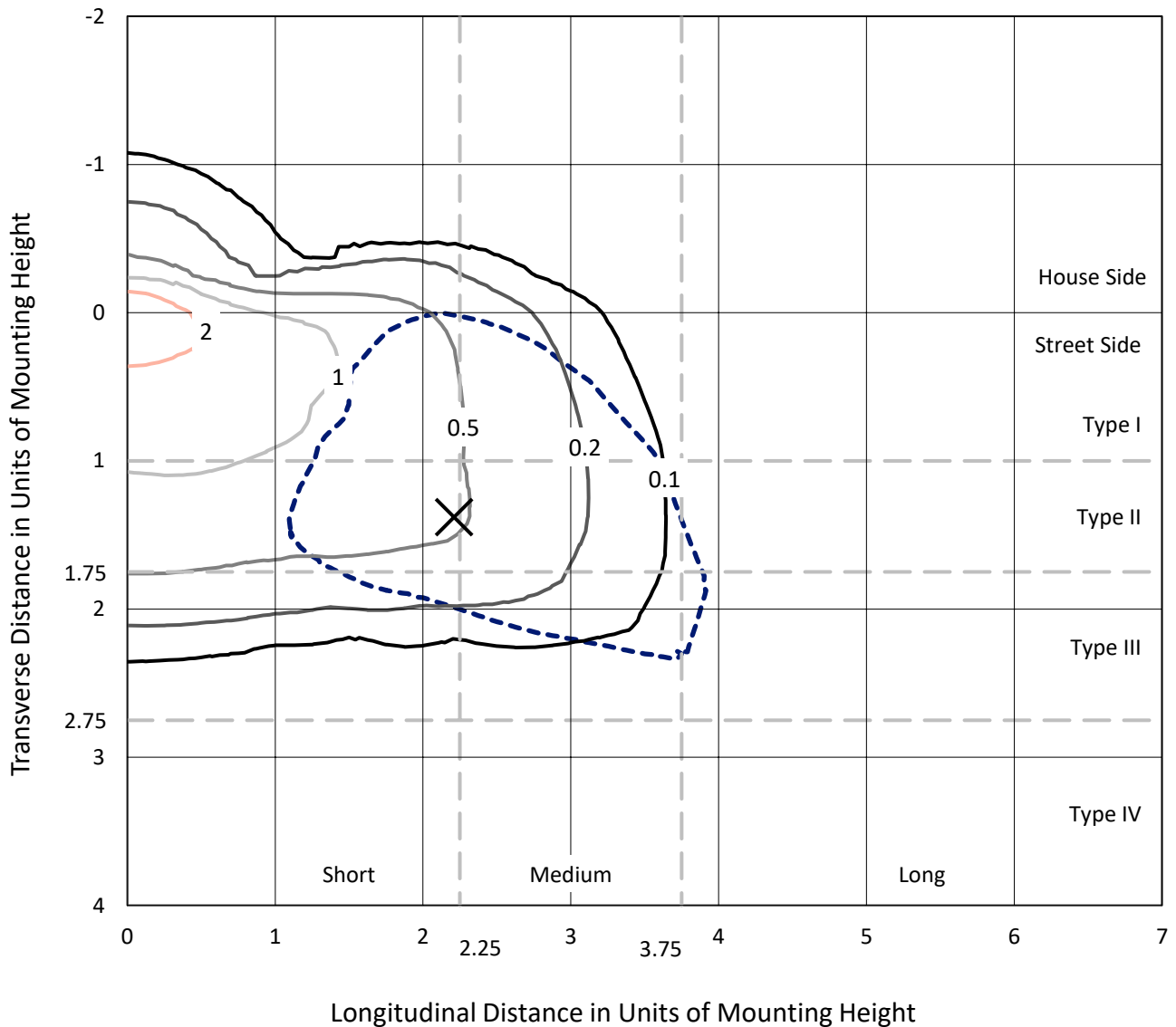
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

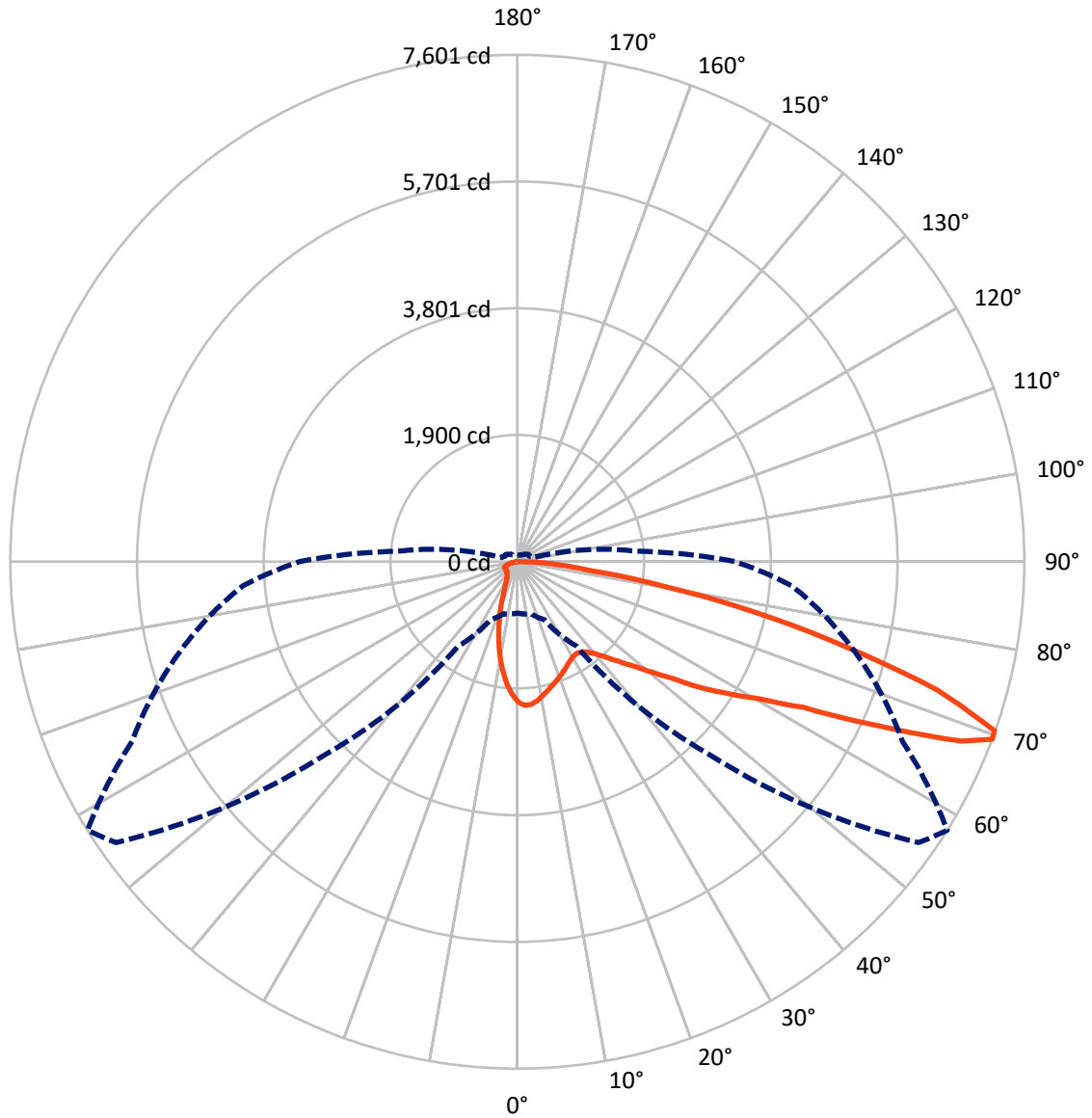
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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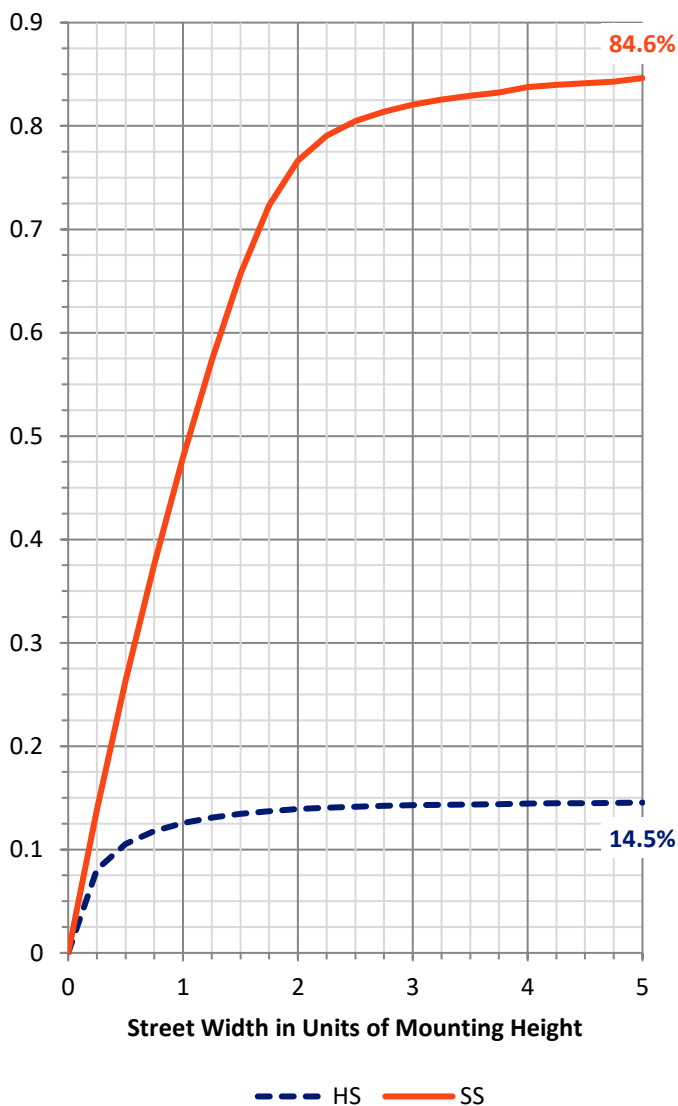
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1117.2	0.0	1117.2
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	6505.8	0.0	6505.8
	% Fixture	85.3	0.0	85.3
Total	Lumens	7623.0	0.0	7623.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.9	2.3
10°-20°	392.8	5.2
20°-30°	507.5	6.7
30°-40°	659.2	8.6
40°-50°	958.4	12.6
50°-60°	1529.3	20.1
60°-70°	2042.9	26.8
70°-80°	1177.6	15.4
80°-90°	176.4	2.3
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°	7623.0	100.0
0°-180°	7623.0	100.0

Coefficient of Utilization



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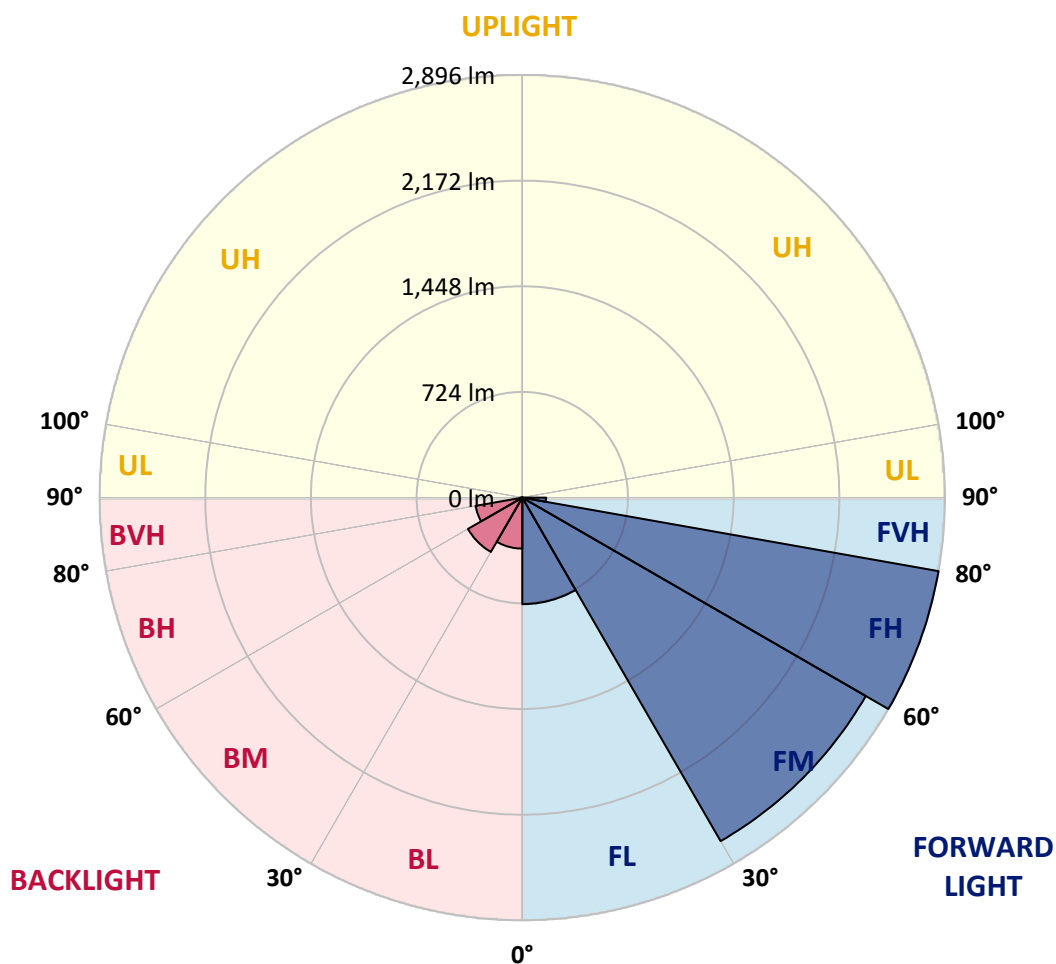
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	730.1	9.6			
FM (30°-60°)	2717.2	35.6			
FH (60°-80°)	2895.7	38.0			G2/5000
FVH (80°-90°)	162.9	2.1			G2/225
BL (0°-30°)	349.2	4.6	B1/500		
BM (30°-60°)	429.6	5.6	B1/1000		
BH (60°-80°)	324.8	4.3	B1/500		G1/500
BVH (80°-90°)	13.5	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2106.6	2106.6	2106.6	2106.6	2106.6	2106.6	2106.6	2106.6	2106.6	2106.6	2106.6
2.5°	2184.8	2190.7	2189.0	2186.9	2183.5	2174.1	2158.8	2156.3	2146.5	2125.7	2099.7
5°	2151.2	2156.3	2156.7	2159.7	2163.9	2162.2	2151.2	2149.9	2135.5	2107.4	2064.0
7.5°	2036.0	2042.8	2057.7	2074.2	2089.1	2103.1	2106.6	2108.7	2099.7	2067.4	2009.6
10°	1906.3	1913.1	1919.9	1944.6	1981.1	2016.0	2044.9	2048.7	2050.9	2021.1	1950.5
12.5°	1762.6	1776.6	1791.1	1827.7	1876.6	1931.4	1982.4	1990.5	2004.9	1982.4	1899.5
15°	1640.6	1655.1	1675.9	1708.6	1767.7	1846.8	1918.6	1931.8	1960.3	1948.8	1851.9
17.5°	1556.0	1561.1	1575.6	1613.0	1676.7	1760.1	1856.1	1882.5	1928.0	1925.0	1811.1
20°	1489.3	1495.6	1504.6	1527.5	1593.8	1681.8	1797.9	1831.9	1893.6	1903.8	1770.7
22.5°	1461.2	1465.9	1464.6	1476.9	1522.0	1610.4	1738.8	1779.2	1862.9	1889.3	1733.3
25°	1462.9	1467.1	1460.8	1457.8	1484.6	1547.5	1677.2	1728.6	1838.3	1879.5	1699.3
27.5°	1491.4	1494.4	1482.5	1470.5	1472.7	1508.4	1626.1	1683.1	1817.5	1883.8	1670.8
30°	1529.6	1535.2	1527.5	1513.1	1497.3	1499.0	1593.4	1649.5	1807.7	1898.7	1657.2
32.5°	1579.0	1584.1	1580.7	1569.2	1548.8	1526.2	1585.3	1637.2	1808.5	1928.8	1654.2
35°	1630.8	1641.0	1646.6	1645.7	1629.1	1590.0	1617.2	1660.2	1828.9	1979.4	1671.6
37.5°	1689.5	1698.0	1721.8	1737.1	1721.8	1676.3	1689.1	1718.8	1874.0	2052.6	1709.9
40°	1746.5	1759.2	1794.1	1841.7	1835.7	1795.8	1798.8	1818.3	1953.5	2161.4	1784.7
42.5°	1806.0	1821.3	1882.1	1952.7	1966.7	1935.6	1943.7	1961.2	2066.6	2312.3	1913.1
45°	1882.5	1900.8	1975.6	2063.6	2118.9	2099.7	2122.7	2131.2	2217.9	2508.7	2082.3
47.5°	1981.1	2002.4	2094.6	2204.3	2282.6	2300.0	2340.0	2334.8	2405.4	2741.3	2301.7
50°	2147.4	2159.3	2246.4	2358.2	2465.8	2544.4	2587.8	2595.9	2638.0	2967.5	2547.0
52.5°	2345.1	2355.7	2418.6	2516.4	2651.2	2817.8	2924.9	2898.6	2908.8	3242.9	2834.0
55°	2567.4	2585.3	2625.2	2690.3	2865.0	3110.3	3325.4	3331.8	3218.7	3506.5	3109.0
57.5°	2739.6	2769.8	2838.2	2930.9	3152.4	3435.5	3724.6	3728.9	3584.3	3788.0	3412.6
60°	2652.9	2688.6	2845.0	3070.8	3529.5	4003.1	4201.6	4177.4	3940.2	4108.5	3782.9
62.5°	2278.7	2285.1	2512.6	2865.4	3645.5	4762.4	4911.6	4809.1	4415.0	4514.9	4159.1
65°	1474.8	1516.5	1696.7	2191.2	3264.2	5183.7	6155.6	5918.7	5080.8	4976.2	4474.1
67.5°	931.0	920.4	995.2	1251.2	2245.1	4812.5	7217.1	7179.7	5951.5	5267.4	4398.9
69°	772.0	784.0	809.5	959.1	1544.9	4108.9	7342.5	7601.0	6373.6	5244.5	4125.5
70°	700.2	705.7	732.5	850.3	1192.1	3441.5	7136.8	7589.5	6539.4	5148.4	3927.4
72.5°	555.7	555.2	601.1	707.4	891.1	1964.6	5860.1	6589.2	6354.1	4701.2	3245.1
75°	422.2	429.0	479.6	598.6	820.9	1073.5	4089.4	5074.4	5074.9	3713.1	2024.9
77.5°	304.4	308.6	367.7	502.5	773.3	870.3	2723.8	3639.6	3421.5	1701.4	636.4
80°	199.4	201.9	247.0	397.9	697.2	820.9	1615.1	2227.7	1613.8	451.5	210.4
82.5°	109.3	122.0	150.9	257.6	559.5	758.4	981.6	1127.5	605.4	201.1	109.7
85°	54.8	58.2	85.0	150.5	365.6	627.5	683.6	646.6	312.5	99.9	57.0
87.5°	16.2	20.4	35.3	58.2	148.4	326.9	380.5	341.4	120.3	36.1	11.9
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°	2106.6	2106.6	2106.6	2106.6	2106.6	2106.6	2106.6	2106.6	2106.6	2106.6	2106.6
2.5°	2089.1	2081.5	2047.5	2016.8	1988.8	1959.0	1933.9	1911.8	1914.0	1914.4	1891.9
5°	2041.5	2024.1	1959.5	1899.1	1848.1	1783.4	1728.2	1692.5	1674.6	1650.8	1659.3
7.5°	1976.9	1943.3	1853.6	1753.3	1659.3	1575.6	1484.6	1422.1	1382.1	1343.4	1348.5
10°	1910.1	1856.1	1725.6	1593.0	1471.4	1337.5	1221.4	1121.9	1048.0	1020.3	1002.0
12.5°	1841.7	1770.7	1604.9	1428.5	1260.5	1100.3	935.7	829.0	747.4	704.0	709.6
15°	1779.2	1692.9	1479.0	1263.9	1045.8	854.9	690.8	589.2	532.3	520.4	527.2
17.5°	1721.4	1608.3	1361.3	1104.1	849.4	641.1	519.1	461.7	438.7	432.4	431.9
20°	1661.9	1536.4	1229.1	933.2	661.9	497.0	426.0	399.2	395.0	397.5	397.9
22.5°	1601.5	1447.6	1093.0	763.5	527.2	406.4	372.4	365.2	368.6	374.5	375.4
25°	1545.8	1369.4	962.1	614.7	420.9	357.1	340.5	340.5	348.2	357.1	357.5
27.5°	1499.9	1293.7	831.6	488.1	352.4	321.4	315.9	318.9	329.5	336.3	336.7
30°	1462.0	1223.1	708.3	391.1	309.9	292.9	291.6	296.7	304.4	310.8	311.2
32.5°	1433.6	1161.0	593.1	328.6	280.6	271.2	270.8	274.6	278.9	280.6	282.3
35°	1422.5	1109.6	487.6	289.1	261.0	255.1	255.1	254.7	256.4	257.2	258.1
37.5°	1431.4	1070.1	406.0	263.6	246.6	242.3	239.8	237.2	236.4	236.4	236.8
40°	1469.3	1049.2	345.2	247.0	236.4	230.0	225.3	222.3	219.4	220.2	221.1
42.5°	1549.6	1053.1	304.0	236.0	227.4	218.5	211.7	208.3	206.2	208.7	208.3
45°	1677.6	1091.3	277.6	228.3	218.5	207.0	200.7	197.3	197.3	201.1	202.4
47.5°	1856.6	1164.4	263.6	222.3	211.7	198.1	191.7	189.2	190.0	196.4	196.8
50°	2075.1	1291.6	261.0	219.4	208.3	191.7	184.5	182.0	184.1	190.9	191.7
52.5°	2316.1	1455.2	273.4	219.8	205.3	187.9	178.6	174.7	176.9	182.4	184.1
55°	2601.8	1660.2	305.2	221.5	201.1	185.8	174.3	165.8	168.4	172.2	172.6
57.5°	2893.5	1918.6	361.4	221.9	197.7	182.0	167.1	156.0	156.0	158.6	159.9
60°	3249.7	2200.1	435.3	222.3	198.1	176.4	157.3	145.0	143.3	144.5	145.0
62.5°	3603.5	2435.6	447.7	221.1	202.4	170.9	146.7	133.9	130.9	130.5	129.7
65°	3759.5	2391.8	366.9	215.1	207.0	167.5	138.2	123.3	118.2	116.5	116.5
67.5°	3505.2	2023.2	275.9	207.0	204.1	164.1	130.1	114.4	108.4	105.0	105.0
69°	3266.3	1799.6	247.9	201.5	196.4	158.6	125.0	109.7	102.5	98.6	97.4
70°	3081.8	1645.7	236.0	196.8	189.2	152.2	121.2	106.3	98.2	94.0	93.1
72.5°	2459.4	1291.1	206.6	179.0	161.1	128.0	107.6	95.7	88.0	83.3	82.1
75°	1417.4	699.8	171.3	155.6	129.7	99.5	91.0	83.3	77.4	73.1	71.8
77.5°	436.2	270.4	124.1	122.9	95.2	76.9	72.7	69.7	65.5	60.8	59.9
80°	183.7	137.7	84.2	82.9	63.3	53.6	52.3	51.9	50.2	46.3	45.1
82.5°	100.8	77.8	58.7	51.0	38.3	31.0	32.3	32.7	31.5	27.6	25.1
85°	49.3	42.5	28.5	23.0	17.4	11.1	10.6	12.8	11.9	8.5	9.4
87.5°	9.8	11.9	7.7	3.4	1.7	0.0	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)