

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: P652228

Luminaire Tested: **GALN-SA2B-840-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652228
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-840-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9420.1 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

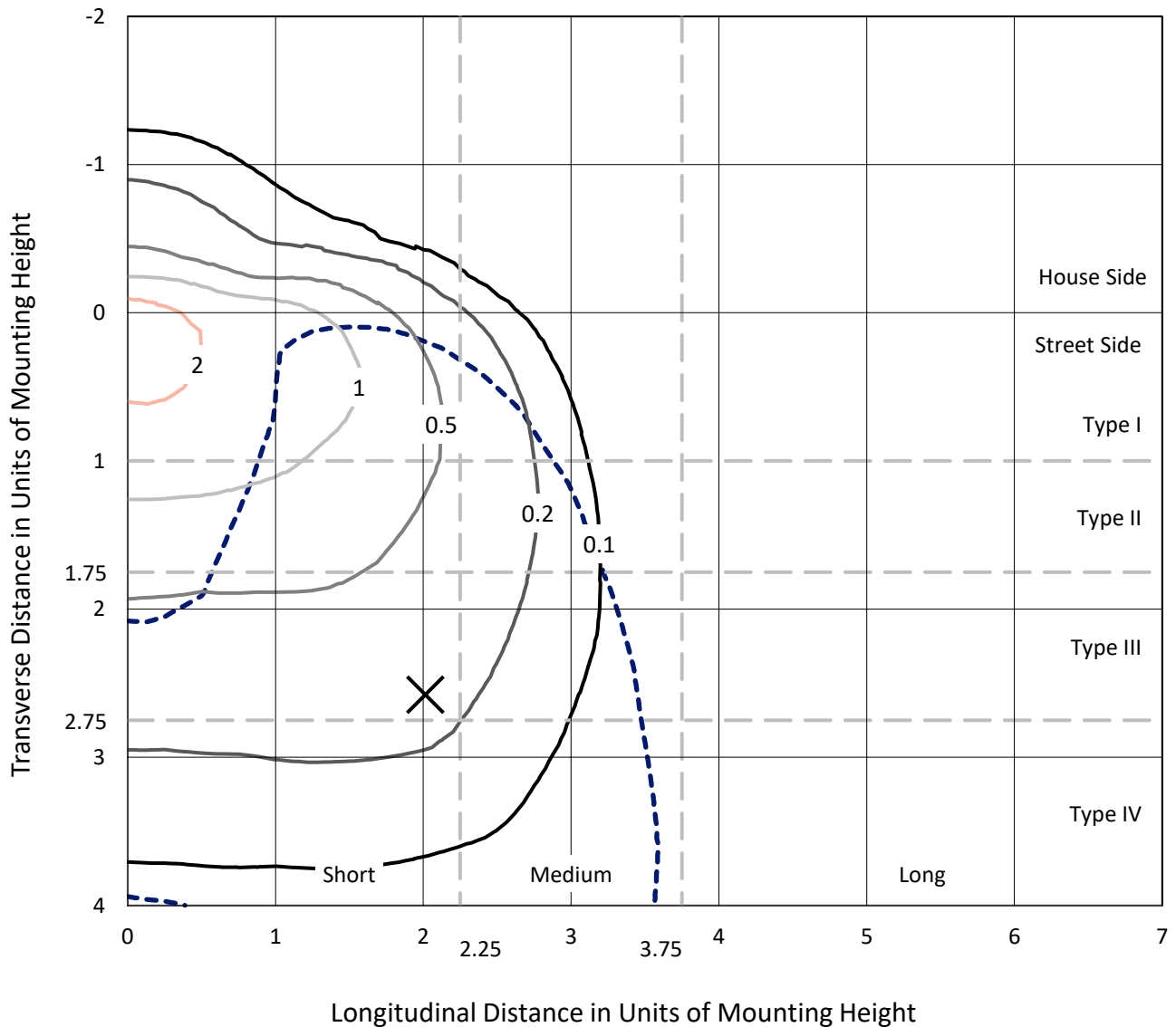
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

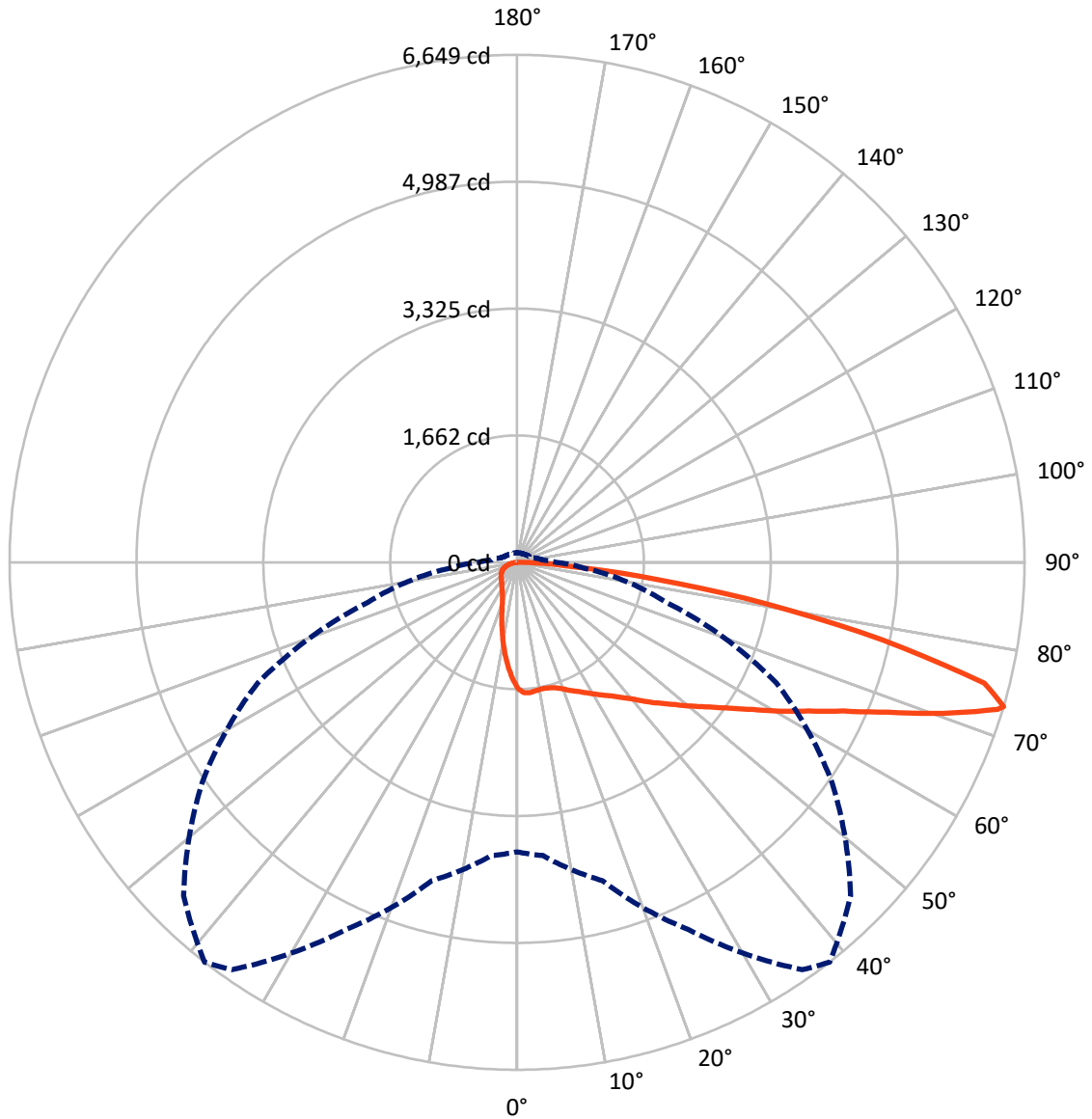
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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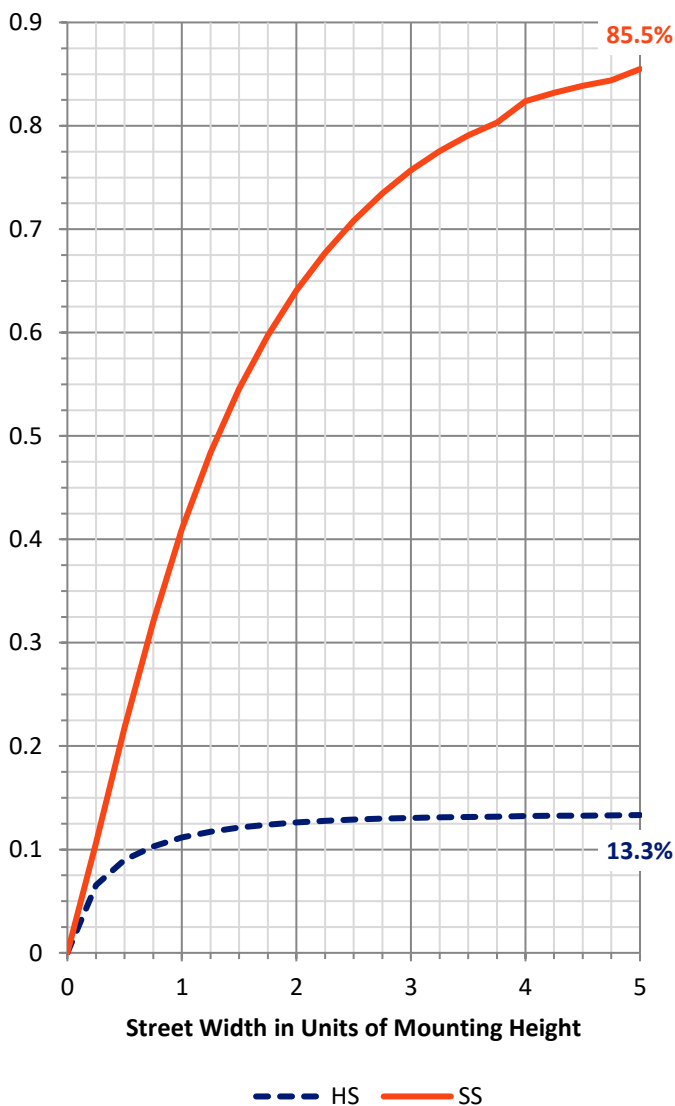
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1266.3	0.0	1266.3
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	8153.7	0.0	8153.7
	% Fixture	86.6	0.0	86.6
Total	Lumens	9420.1	0.0	9420.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.5	1.5
10°-20°	370.4	3.9
20°-30°	576.8	6.1
30°-40°	846.1	9.0
40°-50°	1255.1	13.3
50°-60°	1778.2	18.9
60°-70°	2255.7	23.9
70°-80°	1877.7	19.9
80°-90°	315.5	3.3
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°	9420.1	100.0
0°-180°	9420.1	100.0

Coefficient of Utilization

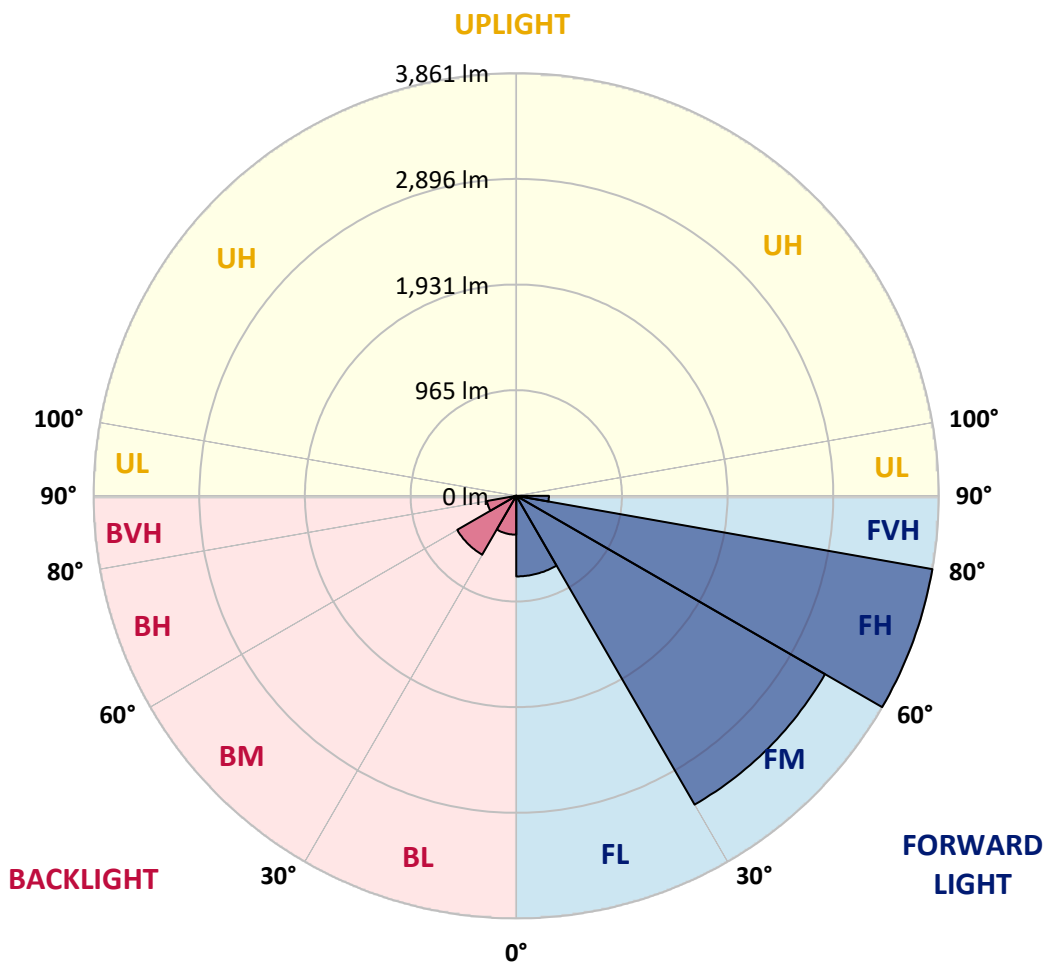


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	736.4	7.8			
FM (30°-60°)	3257.7	34.6			
FH (60°-80°)	3861.2	41.0			G2/5000
FVH (80°-90°)	298.4	3.2			G3/500
BL (0°-30°)	355.3	3.8	B1/500		
BM (30°-60°)	621.7	6.6	B1/1000		
BH (60°-80°)	272.2	2.9	B1/500		G1/500
BVH (80°-90°)	17.1	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-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1654.9	1654.9	1654.9	1654.9	1654.9	1654.9	1654.9	1654.9	1654.9	1654.9	1654.9
2.5°	1721.4	1729.9	1725.7	1719.8	1716.1	1712.4	1707.1	1691.7	1679.4	1666.1	1645.3
5°	1734.2	1739.5	1735.8	1728.3	1719.8	1716.1	1706.0	1685.8	1666.1	1643.7	1613.0
7.5°	1726.7	1728.8	1724.6	1715.6	1708.2	1701.3	1689.5	1667.2	1643.2	1616.1	1575.7
10°	1700.2	1708.2	1708.2	1700.7	1693.3	1689.5	1677.8	1656.5	1634.7	1603.9	1556.0
12.5°	1678.4	1686.9	1693.8	1691.7	1691.1	1691.1	1682.1	1666.1	1640.5	1611.4	1554.4
15°	1663.4	1673.6	1688.5	1697.0	1702.3	1703.9	1700.2	1686.3	1660.3	1626.2	1560.8
17.5°	1660.3	1672.5	1699.7	1718.2	1732.0	1731.5	1730.4	1711.4	1682.6	1647.5	1568.8
20°	1674.6	1690.6	1728.3	1757.6	1777.8	1774.1	1768.3	1743.2	1709.8	1670.4	1576.2
22.5°	1717.7	1734.2	1775.7	1807.6	1827.3	1827.3	1809.7	1776.8	1741.1	1697.0	1586.3
25°	1779.4	1797.5	1841.6	1874.1	1883.2	1876.3	1858.7	1818.7	1777.8	1735.2	1607.6
27.5°	1855.0	1876.8	1917.7	1944.9	1942.2	1936.9	1918.8	1867.7	1826.7	1788.0	1643.7
30°	1949.1	1965.1	2007.6	2014.0	2004.4	2003.3	1977.9	1926.8	1888.5	1858.7	1695.4
32.5°	2038.0	2052.3	2086.4	2089.0	2072.0	2074.2	2050.2	2003.3	1981.6	1971.0	1782.1
35°	2132.1	2139.6	2168.9	2165.7	2154.5	2152.9	2143.3	2098.6	2105.5	2124.7	1904.9
37.5°	2210.8	2225.7	2242.2	2244.9	2244.4	2249.7	2256.1	2234.8	2274.7	2334.8	2066.2
40°	2283.2	2295.9	2320.4	2329.0	2349.7	2360.4	2382.1	2382.6	2474.7	2573.6	2264.6
42.5°	2332.1	2354.0	2399.7	2415.1	2465.6	2497.6	2530.1	2564.6	2698.1	2825.3	2498.6
45°	2374.6	2403.4	2479.5	2527.4	2596.0	2634.9	2703.5	2775.8	2967.8	3134.3	2736.4
47.5°	2439.1	2464.6	2551.8	2636.5	2740.1	2784.8	2887.5	2995.5	3246.6	3429.0	2964.1
50°	2528.5	2543.9	2632.7	2770.5	2903.0	2960.4	3096.1	3251.9	3544.5	3720.0	3164.1
52.5°	2642.8	2649.2	2720.0	2903.5	3078.0	3149.2	3329.0	3511.0	3805.1	3972.7	3322.6
55°	2777.9	2767.3	2822.6	3044.4	3278.0	3371.1	3564.2	3773.2	4098.3	4177.0	3438.1
57.5°	2911.5	2895.0	2939.1	3215.7	3524.8	3637.1	3862.0	4043.4	4360.0	4368.0	3518.9
60°	3052.9	3040.7	3093.4	3416.8	3827.5	3960.4	4168.5	4323.8	4613.2	4500.9	3531.7
62.5°	3198.2	3178.5	3253.5	3642.9	4168.5	4289.3	4490.9	4621.7	4861.7	4550.4	3408.8
65°	3339.1	3330.1	3446.1	3911.6	4556.8	4694.0	4889.8	4978.6	5060.5	4476.0	3104.0
67.5°	3489.1	3507.2	3692.3	4270.1	5063.2	5235.6	5446.8	5363.2	5117.5	4123.3	2614.1
70°	3717.9	3729.6	4015.8	4739.8	5715.9	5923.9	6026.1	5500.0	4843.0	3453.5	1965.1
72.5°	3816.3	3867.9	4304.7	5233.0	6457.5	6584.7	6220.8	5195.2	4034.4	2346.0	1032.6
73°	3794.5	3856.2	4317.9	5308.0	6515.5	6649.0	6179.3	5038.3	3750.4	2020.4	885.2
75°	3522.7	3598.7	4145.0	5245.1	6402.7	6322.9	5512.3	4294.0	2534.3	918.7	403.3
77.5°	2779.5	2801.3	3284.4	4235.5	5042.0	4894.1	4125.4	2683.8	1035.2	341.5	228.8
80°	1394.3	1474.6	1851.2	2426.3	3371.6	3323.2	2604.0	1269.2	431.4	200.6	151.6
82.5°	670.8	727.7	901.7	1183.1	1862.9	1818.7	1289.5	693.7	274.0	117.1	89.4
85°	431.9	474.5	574.0	564.4	766.1	731.4	579.3	525.0	162.2	61.1	62.2
87.5°	285.1	312.3	374.5	299.5	278.7	252.1	255.9	295.8	32.0	23.4	8.5
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°	1654.9	1654.9	1654.9	1654.9	1654.9	1654.9	1654.9	1654.9	1654.9	1654.9	1654.9
2.5°	1636.8	1629.9	1607.1	1584.7	1563.4	1543.2	1529.9	1512.4	1500.7	1503.9	1508.7
5°	1595.9	1580.5	1540.0	1500.7	1463.4	1419.3	1383.6	1354.9	1333.1	1325.2	1323.6
7.5°	1552.8	1526.8	1468.7	1401.2	1337.9	1283.1	1219.8	1188.4	1151.7	1139.0	1134.7
10°	1526.8	1491.6	1410.3	1316.1	1220.9	1129.9	1061.3	1005.4	954.9	945.3	940.5
12.5°	1519.3	1473.0	1363.4	1242.2	1115.5	1003.8	902.2	828.8	779.9	768.7	752.2
15°	1515.1	1457.6	1319.8	1167.6	1007.0	870.9	763.9	678.3	633.6	603.8	604.3
17.5°	1511.3	1440.0	1270.8	1086.2	913.4	756.5	638.3	561.2	520.2	504.3	502.7
20°	1506.0	1419.3	1214.5	1000.6	806.4	652.2	545.3	487.8	460.1	446.8	446.3
22.5°	1503.9	1399.1	1159.2	913.4	711.7	571.9	483.6	443.1	425.5	416.5	416.5
25°	1509.2	1384.7	1101.2	830.4	627.7	503.3	441.0	413.4	403.3	398.5	396.9
27.5°	1525.7	1378.3	1043.7	747.4	550.6	456.4	412.3	393.1	385.7	382.0	382.5
30°	1557.0	1377.8	987.3	665.5	493.2	420.8	389.4	376.1	370.2	368.1	367.6
32.5°	1607.6	1389.5	932.0	598.0	444.7	391.0	368.1	358.5	355.9	354.3	353.7
35°	1693.3	1422.5	877.2	536.2	407.5	364.4	347.9	343.1	339.4	341.0	341.5
37.5°	1808.7	1479.4	825.1	487.8	379.3	344.7	330.8	326.6	324.5	326.1	327.7
40°	1963.5	1561.3	781.5	449.0	359.1	328.2	316.0	312.3	310.2	312.8	313.4
42.5°	2134.2	1656.0	745.3	418.6	342.6	314.4	302.7	298.5	296.9	298.5	299.0
45°	2309.8	1766.1	726.6	396.9	328.7	304.3	292.1	287.3	283.5	282.5	284.1
47.5°	2482.7	1861.9	726.1	383.6	317.6	295.3	281.9	276.6	271.8	269.2	268.6
50°	2623.7	1937.9	738.9	377.7	308.0	285.1	271.8	266.5	260.1	254.8	255.9
52.5°	2730.1	1987.5	744.8	375.0	302.7	274.5	261.2	256.4	248.9	242.0	242.0
55°	2798.7	1999.1	730.4	372.4	298.5	263.3	248.9	244.7	237.2	230.3	230.3
57.5°	2822.1	1963.0	678.8	366.0	294.2	253.7	236.7	233.0	227.2	220.3	219.2
60°	2767.8	1840.6	588.4	346.8	285.7	243.6	223.5	221.9	219.7	213.9	213.3
62.5°	2558.7	1581.0	490.0	321.9	271.3	233.0	211.2	213.9	215.5	212.3	211.8
65°	2210.8	1283.6	418.6	287.3	252.1	218.1	197.9	204.8	209.1	209.1	208.0
67.5°	1793.3	985.7	352.7	257.4	228.2	197.9	183.0	188.3	191.5	190.4	193.1
70°	1274.6	667.6	287.3	223.5	197.9	175.0	163.8	163.8	161.7	160.6	160.6
72.5°	618.1	381.4	233.0	186.7	168.6	149.4	140.4	136.7	132.5	132.0	129.3
73°	516.5	342.0	222.4	179.8	161.7	145.7	135.7	129.8	127.2	125.0	124.5
75°	314.4	259.6	185.7	151.6	137.8	125.6	116.5	111.2	108.5	106.9	106.4
77.5°	207.0	193.6	144.1	116.0	105.3	97.9	94.2	88.8	87.2	85.1	85.1
80°	154.2	147.8	103.2	81.9	75.5	69.1	68.1	67.0	62.7	60.1	59.0
82.5°	99.5	105.3	70.2	54.8	47.9	42.6	43.1	44.7	40.5	36.7	35.7
85°	70.7	76.1	42.6	25.0	20.2	17.6	19.7	17.6	18.1	14.4	11.7
87.5°	11.7	20.2	7.5	3.2	1.6	1.1	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)