

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: P651727

Luminaire Tested: **GALN-SA2A-840-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651727
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-840-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7720.4 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

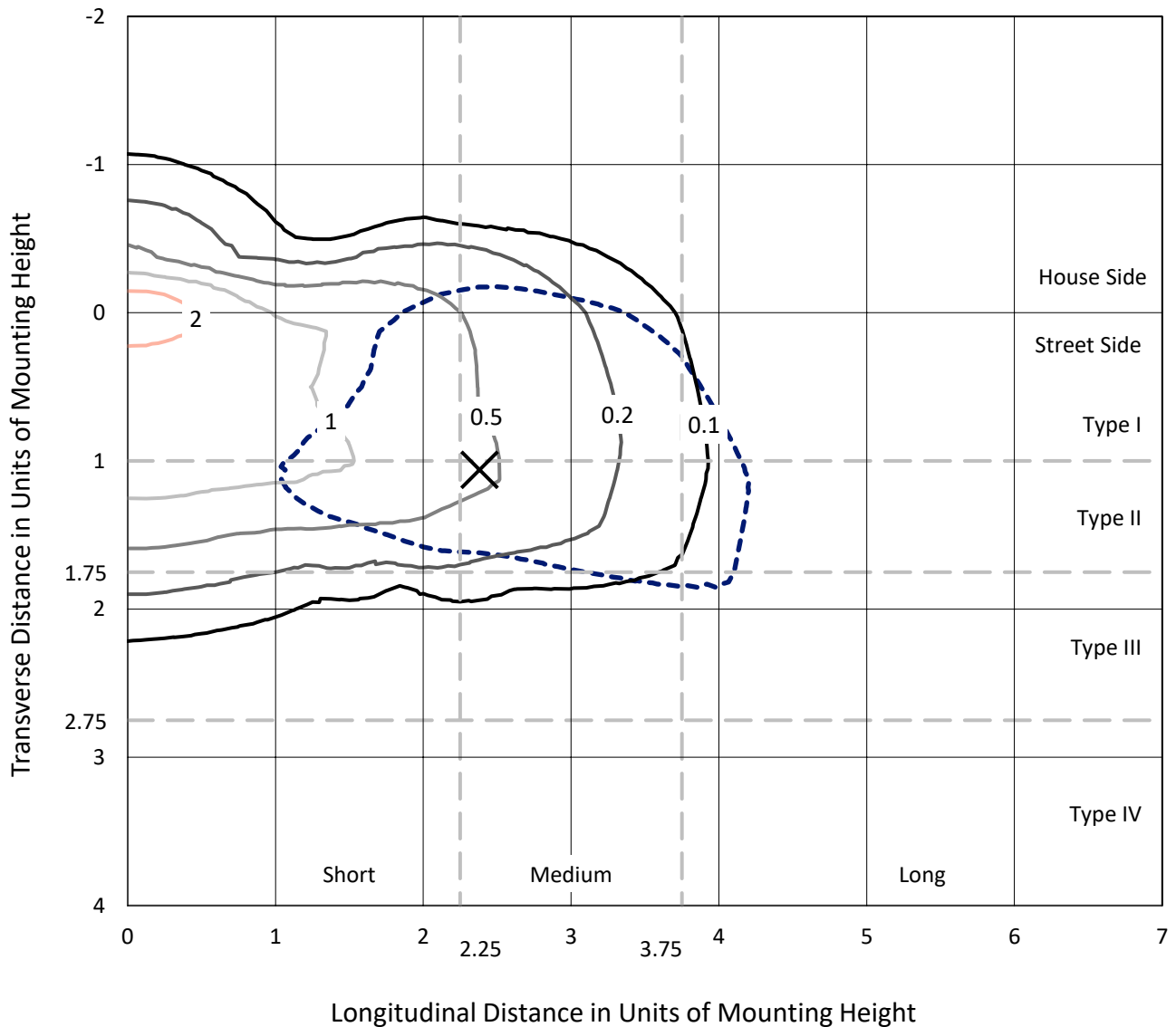
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651727
 CATALOG NUMBER: GALN-SA2A-840-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

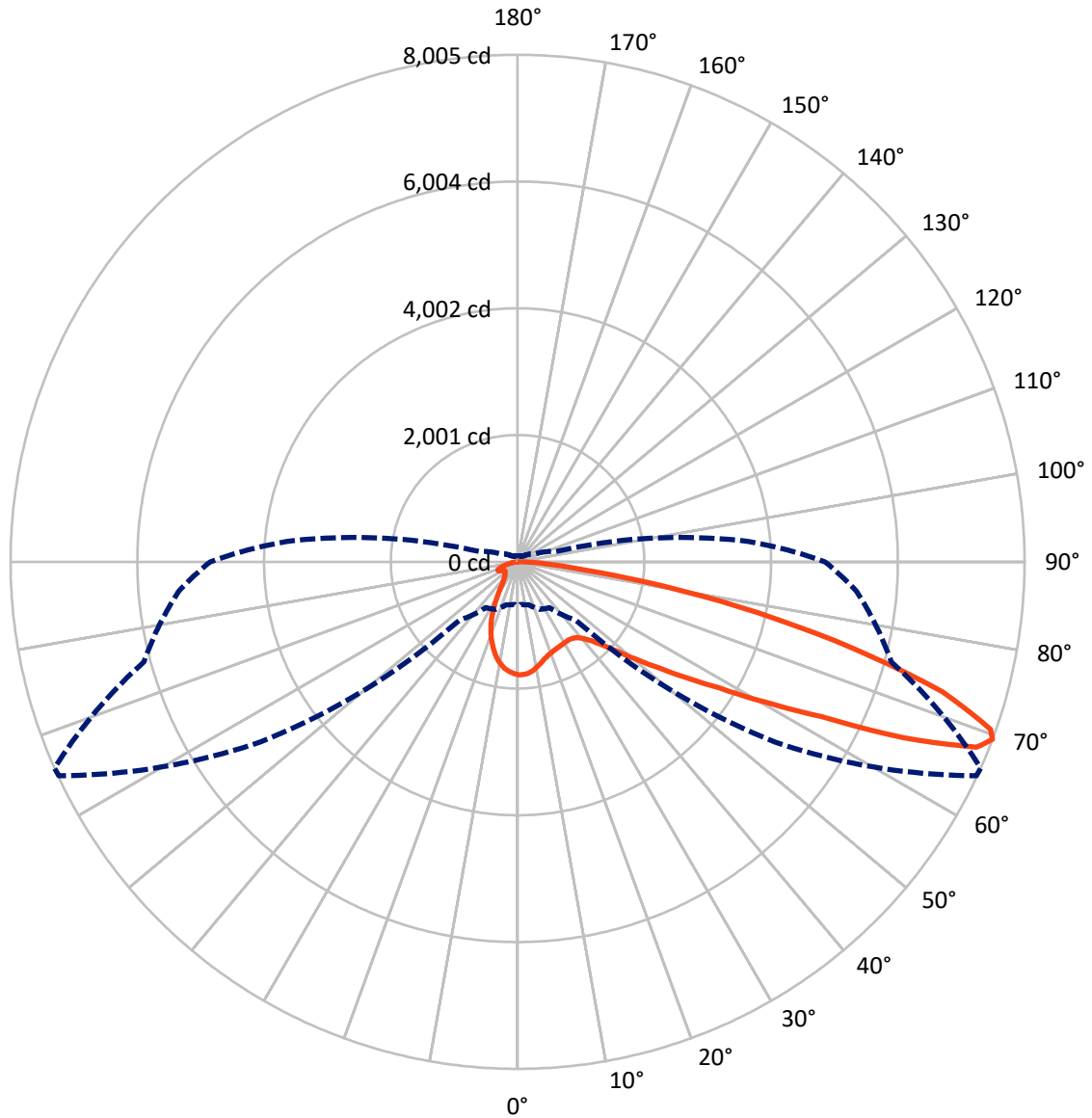
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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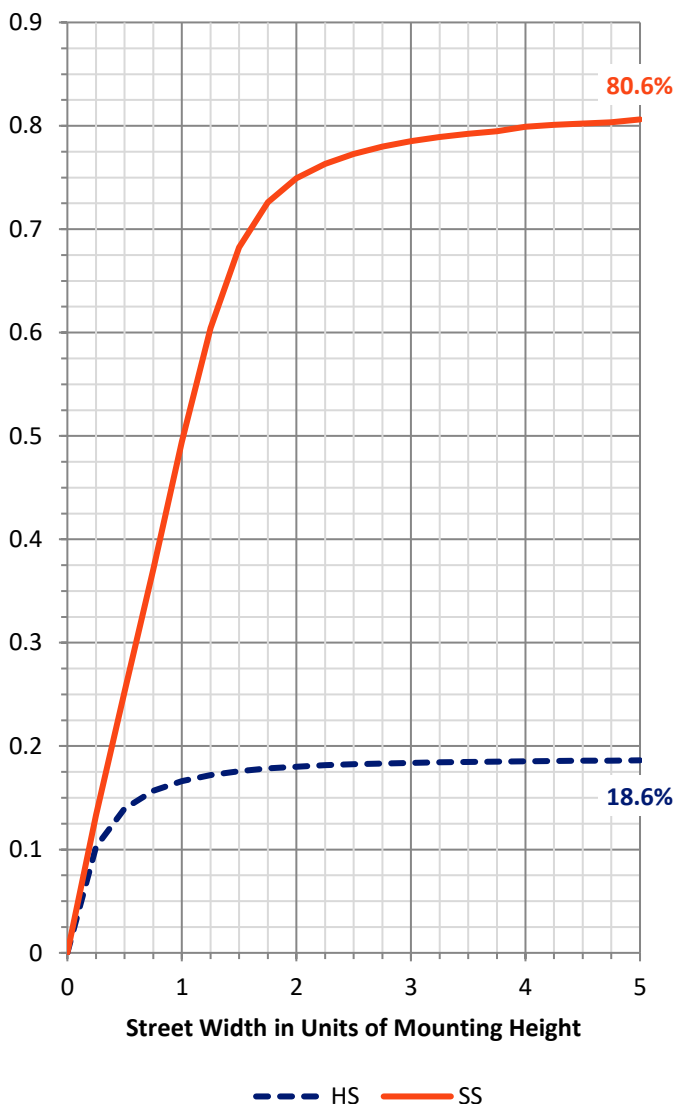
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1451.9	0.0	1451.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	6268.5	0.0	6268.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	7720.4	0.0	7720.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.8	2.0
10°-20°	367.2	4.8
20°-30°	499.9	6.5
30°-40°	671.8	8.7
40°-50°	1003.1	13.0
50°-60°	1595.6	20.7
60°-70°	1962.5	25.4
70°-80°	1276.9	16.5
80°-90°	188.6	2.4
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°	7720.4	100.0
0°-180°	7720.4	100.0

Coefficient of Utilization

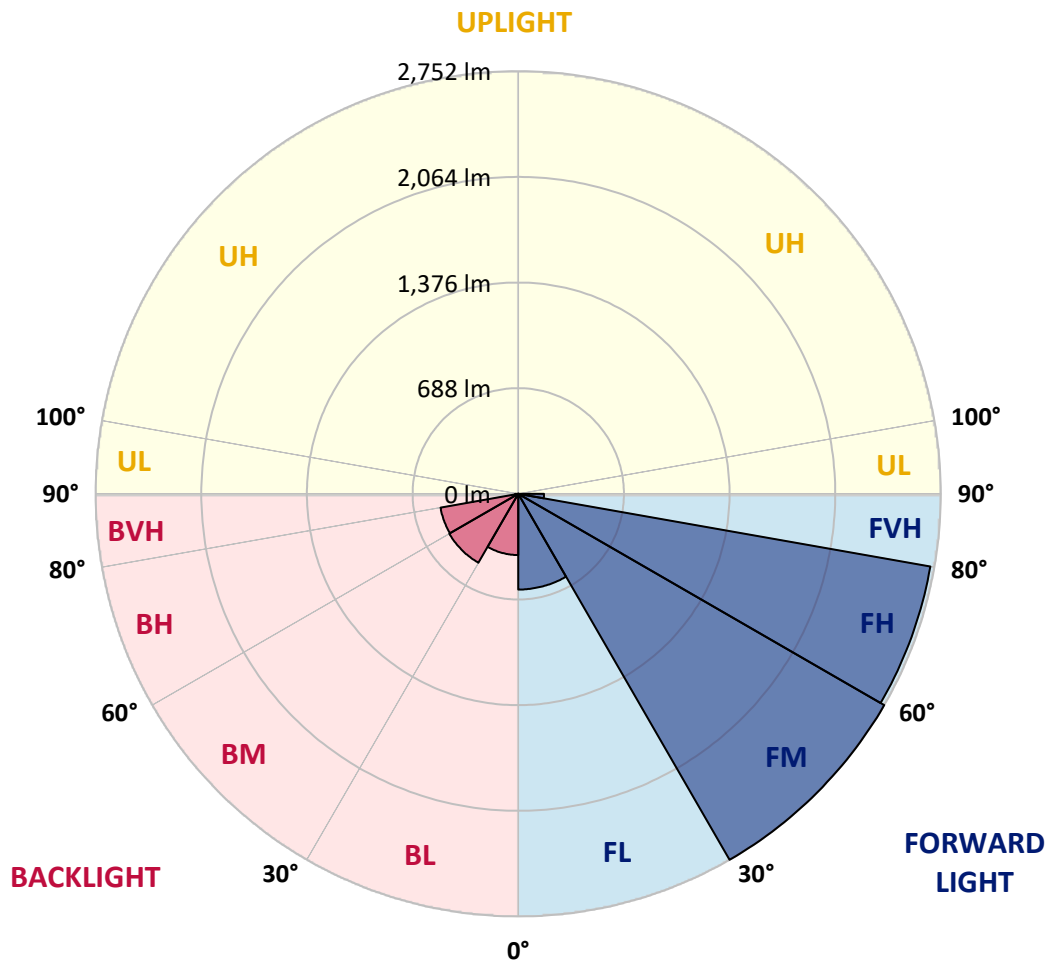


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	623.4	8.1			
FM (30°-60°)	2752.1	35.6			
FH (60°-80°)	2725.3	35.3			G2/5000
FVH (80°-90°)	167.6	2.2			G2/225
BL (0°-30°)	398.6	5.2	B1/500		
BM (30°-60°)	518.4	6.7	B1/1000		
BH (60°-80°)	514.0	6.7	B2/1000		G2/1000
BVH (80°-90°)	20.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1782.8	1782.8	1782.8	1782.8	1782.8	1782.8	1782.8	1782.8	1782.8	1782.8	1782.8
2.5°	1720.4	1727.2	1735.0	1743.5	1759.8	1768.7	1775.2	1782.4	1783.3	1787.1	1784.1
5°	1593.4	1601.6	1613.1	1629.4	1653.7	1691.8	1731.1	1763.2	1767.0	1785.0	1790.2
7.5°	1487.4	1492.1	1501.5	1527.6	1562.2	1604.5	1661.8	1726.8	1736.2	1779.0	1793.9
10°	1401.0	1405.7	1416.8	1443.8	1478.0	1531.0	1593.9	1679.4	1687.0	1760.6	1794.9
12.5°	1336.5	1340.8	1352.7	1379.2	1418.6	1468.2	1537.4	1628.1	1639.2	1736.2	1786.7
15°	1287.3	1295.5	1305.3	1327.1	1368.6	1416.4	1483.6	1581.1	1590.0	1710.6	1781.2
17.5°	1266.4	1270.2	1277.1	1297.2	1327.5	1374.5	1442.1	1544.2	1555.0	1692.7	1779.9
20°	1267.2	1271.1	1272.3	1283.5	1305.3	1345.9	1412.6	1515.2	1528.0	1676.8	1782.0
22.5°	1296.3	1296.7	1292.0	1288.2	1296.7	1330.5	1391.7	1493.4	1508.3	1670.0	1783.7
25°	1341.2	1348.9	1342.1	1324.1	1308.3	1324.5	1383.5	1481.4	1495.6	1660.1	1781.6
27.5°	1413.9	1415.2	1409.6	1385.2	1344.2	1332.2	1380.1	1472.4	1484.4	1652.9	1770.9
30°	1511.4	1507.5	1502.4	1475.5	1410.9	1361.7	1387.4	1464.3	1476.7	1642.2	1758.0
32.5°	1610.1	1622.1	1617.4	1585.8	1501.9	1419.0	1410.9	1463.5	1473.8	1634.1	1744.0
35°	1714.9	1720.4	1742.6	1726.4	1640.5	1511.8	1454.9	1476.7	1484.9	1634.5	1734.1
37.5°	1797.0	1811.9	1864.1	1878.2	1797.4	1634.5	1526.3	1514.4	1517.8	1655.4	1737.9
40°	1896.1	1921.8	1989.0	2046.7	1993.6	1793.9	1647.8	1584.0	1588.3	1705.9	1763.2
42.5°	2021.8	2039.8	2130.0	2208.2	2199.7	2004.8	1794.9	1698.2	1700.3	1806.4	1833.7
45°	2168.9	2194.6	2295.9	2413.5	2433.6	2243.3	2007.3	1870.9	1869.6	1962.4	1965.4
47.5°	2357.1	2372.9	2473.3	2601.6	2682.8	2543.0	2265.1	2118.9	2105.2	2189.9	2165.5
50°	2530.2	2555.0	2631.1	2771.3	2973.5	2894.0	2604.2	2440.4	2408.4	2487.4	2446.4
52.5°	2602.9	2629.0	2693.1	2867.1	3222.8	3348.1	3034.7	2823.9	2770.5	2831.1	2816.3
55°	2476.7	2510.6	2570.3	2782.0	3332.3	3871.8	3615.3	3267.3	3228.3	3202.3	3206.6
57.5°	2137.7	2169.8	2250.6	2484.0	3201.4	4251.9	4444.3	3837.2	3753.8	3633.7	3654.2
60°	1627.3	1647.4	1689.2	1947.8	2813.6	4350.7	5385.8	4557.6	4504.6	4063.4	4077.9
62.5°	1155.6	1178.3	1207.3	1336.5	2059.9	4072.4	6122.8	5563.6	5374.2	4508.4	4494.3
65°	938.5	923.1	958.2	1018.4	1208.7	3156.1	6288.7	6959.9	6699.2	5094.6	4898.7
67.5°	771.7	755.5	790.1	897.4	919.2	1832.0	5691.0	7866.4	7814.2	5732.1	5309.7
69°	683.2	674.7	705.0	827.3	882.5	1301.0	4957.8	7992.4	8004.9	6107.8	5372.9
70°	615.7	619.1	648.6	791.8	865.8	1072.7	4237.4	7818.4	7923.6	6295.6	5304.5
72.5°	453.2	460.4	501.5	655.8	849.9	910.2	2521.7	6829.1	7015.1	6306.7	4852.6
75°	316.8	313.4	349.7	493.8	802.9	902.1	1481.0	5281.4	5492.2	5451.2	4077.5
77.5°	207.4	212.9	242.0	348.8	675.5	895.2	965.4	3747.0	3883.8	3645.7	2411.7
80°	146.2	145.8	162.1	238.2	501.1	860.2	790.5	2361.8	2327.1	1432.7	715.3
82.5°	83.8	89.8	108.6	167.6	335.2	757.2	727.2	1129.5	1031.2	408.3	241.5
85°	46.6	48.8	64.6	101.3	195.8	570.4	634.9	513.9	484.8	170.6	103.9
87.5°	15.0	16.2	26.9	51.3	88.9	269.4	359.5	237.2	218.9	61.6	41.9
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: P651727
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1782.8	1782.8	1782.8	1782.8	1782.8	1782.8	1782.8	1782.8	1782.8	1782.8	1782.8
2.5°	1785.4	1790.6	1776.9	1763.6	1751.6	1735.0	1720.0	1707.6	1699.1	1697.8	1693.5
5°	1791.4	1791.8	1765.8	1730.7	1696.5	1658.9	1619.9	1592.2	1566.1	1551.6	1544.2
7.5°	1795.7	1791.8	1744.8	1688.0	1622.1	1553.7	1485.3	1430.5	1388.2	1371.6	1378.0
10°	1793.9	1782.0	1713.2	1622.1	1526.3	1424.1	1325.8	1248.9	1178.3	1142.0	1142.8
12.5°	1784.6	1764.9	1666.1	1548.1	1407.5	1270.7	1120.1	1016.3	934.6	886.3	871.4
15°	1776.4	1742.2	1611.0	1447.7	1272.8	1077.4	894.0	765.7	697.4	659.3	658.8
17.5°	1767.9	1720.4	1550.7	1341.2	1118.0	866.7	674.2	576.3	544.3	548.1	541.7
20°	1758.9	1694.8	1487.8	1222.7	929.5	646.5	504.9	465.2	474.2	491.6	494.3
22.5°	1748.6	1667.5	1420.3	1092.4	731.1	486.5	409.6	403.6	426.7	454.1	457.9
25°	1732.8	1633.2	1335.3	956.0	563.9	392.1	358.7	363.0	385.7	408.7	411.3
27.5°	1710.6	1590.9	1249.3	785.8	423.7	336.5	327.9	333.5	344.6	358.7	362.1
30°	1680.7	1543.0	1150.5	638.7	339.4	308.6	305.3	308.2	314.7	320.7	322.4
32.5°	1650.7	1496.8	1050.9	489.1	302.7	290.3	286.9	286.9	286.9	287.7	288.1
35°	1623.0	1453.2	944.0	381.0	283.5	275.8	271.1	265.9	265.1	262.1	262.1
37.5°	1607.6	1413.5	830.3	318.9	269.4	263.8	257.3	248.9	244.1	244.6	243.7
40°	1610.5	1387.4	726.8	283.9	257.8	251.8	242.0	232.1	229.2	229.2	228.3
42.5°	1644.3	1378.8	627.6	265.5	246.7	239.9	227.5	218.5	216.7	216.3	217.2
45°	1722.1	1399.8	538.7	253.6	237.2	227.0	214.6	206.5	204.8	204.8	204.4
47.5°	1873.9	1467.7	475.0	245.8	230.4	217.2	204.4	196.2	193.3	192.4	192.4
50°	2109.9	1615.2	427.6	239.0	221.9	208.2	194.9	185.5	180.8	180.4	180.0
52.5°	2437.8	1845.2	409.1	233.9	212.5	198.8	184.3	175.3	169.3	168.0	167.2
55°	2821.4	2166.3	434.4	230.0	202.7	188.1	173.2	163.7	158.2	155.6	155.2
57.5°	3265.6	2552.0	530.2	224.9	193.7	176.6	162.1	152.6	146.7	143.6	142.8
60°	3664.5	2948.3	697.4	221.9	185.9	164.2	149.2	140.7	135.1	132.1	131.7
62.5°	4102.7	3326.2	897.0	230.0	182.6	152.2	137.3	129.5	124.8	121.9	121.9
65°	4570.8	3704.7	1029.1	257.3	187.7	142.8	124.4	118.0	113.7	111.6	111.2
67.5°	4886.4	3835.5	847.8	285.6	200.5	132.5	112.0	106.9	104.3	102.2	102.2
69°	4852.1	3670.0	625.5	292.8	204.4	127.4	105.2	101.3	97.9	97.1	96.2
70°	4744.0	3481.5	524.2	288.1	201.3	122.7	100.9	96.2	93.2	92.3	91.9
72.5°	4225.4	3019.3	390.3	250.5	171.5	106.5	89.4	85.1	82.5	81.2	81.2
75°	3510.6	2467.7	304.9	199.2	134.2	89.8	76.5	73.1	71.0	70.1	69.7
77.5°	1967.5	1378.0	218.9	156.1	101.8	72.7	64.2	61.1	59.0	58.1	58.1
80°	548.1	393.8	128.7	103.0	69.3	55.2	50.9	48.8	45.8	43.6	44.9
82.5°	206.5	170.6	73.5	62.0	44.1	36.8	35.5	33.8	32.5	29.5	29.5
85°	100.5	82.9	47.0	32.9	24.4	19.3	18.4	17.5	16.7	14.5	15.0
87.5°	34.6	36.8	20.5	11.9	7.2	4.7	3.9	2.1	2.1	2.1	2.1
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)