

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: P647767

Luminaire Tested: **GALN-SA2A-835-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647767
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-835-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 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: 7187.9 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

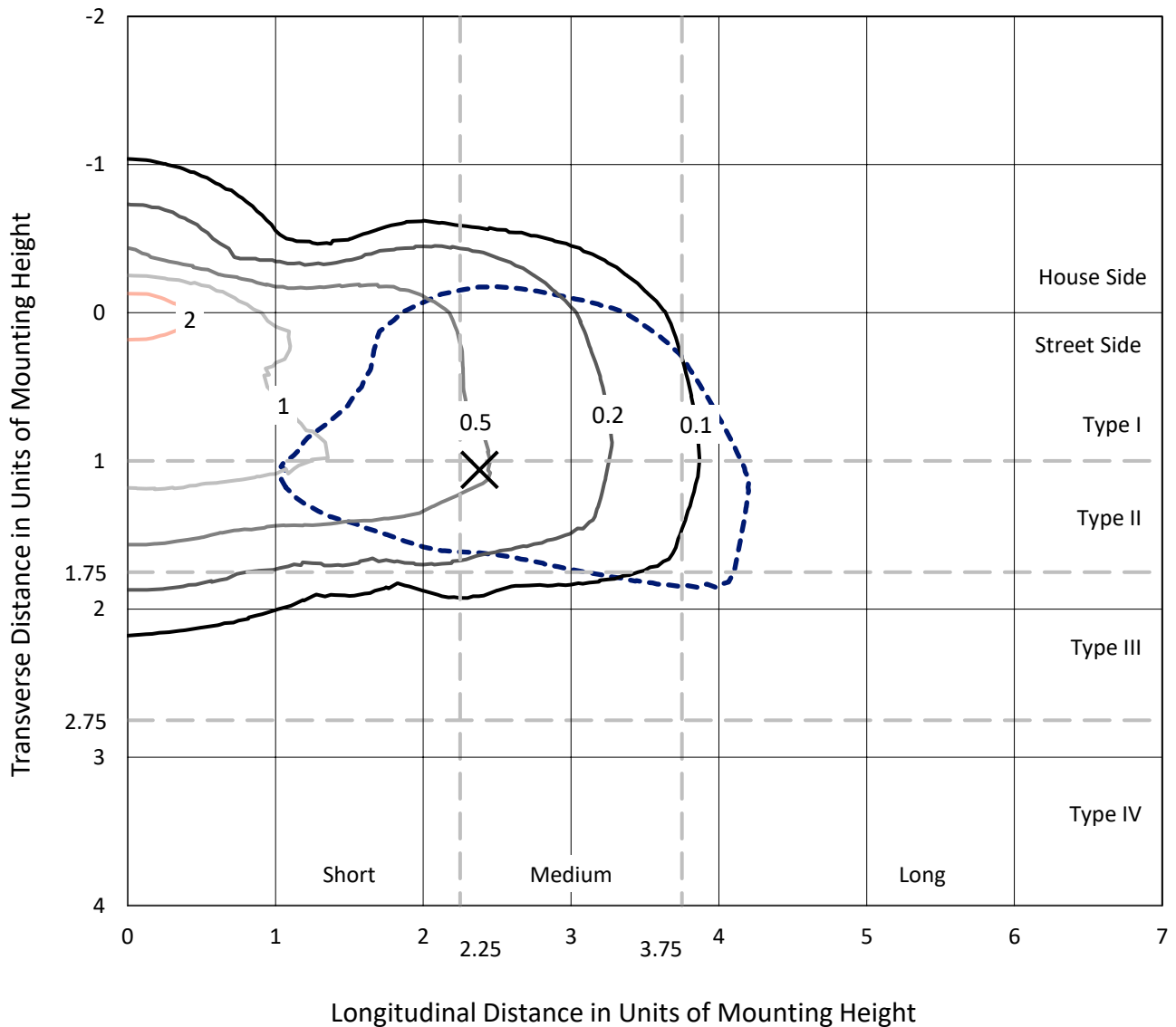
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

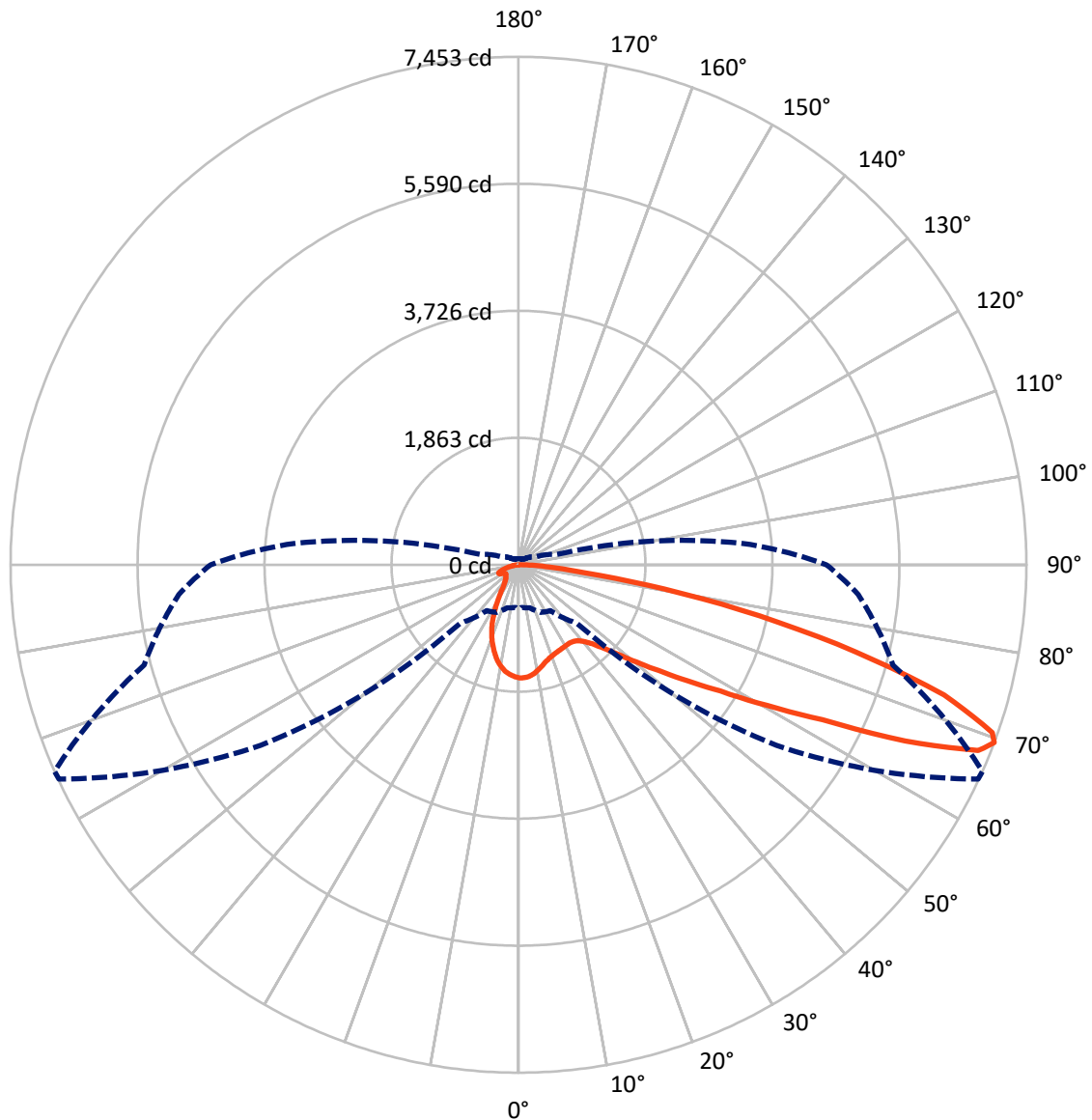
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type 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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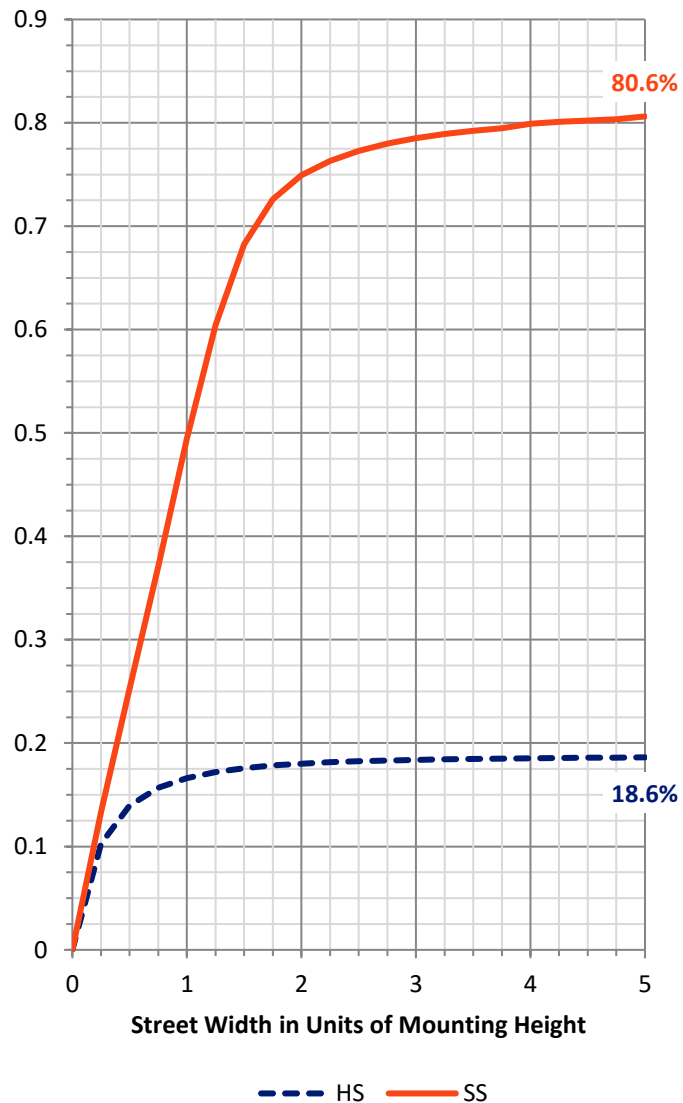
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1351.8	0.0	1351.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	5836.2	0.0	5836.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	7187.9	0.0	7187.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.1	2.0
10°-20°	341.9	4.8
20°-30°	465.4	6.5
30°-40°	625.5	8.7
40°-50°	933.9	13.0
50°-60°	1485.6	20.7
60°-70°	1827.1	25.4
70°-80°	1188.8	16.5
80°-90°	175.5	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°	7187.9	100.0
0°-180°	7187.9	100.0

Coefficient of Utilization

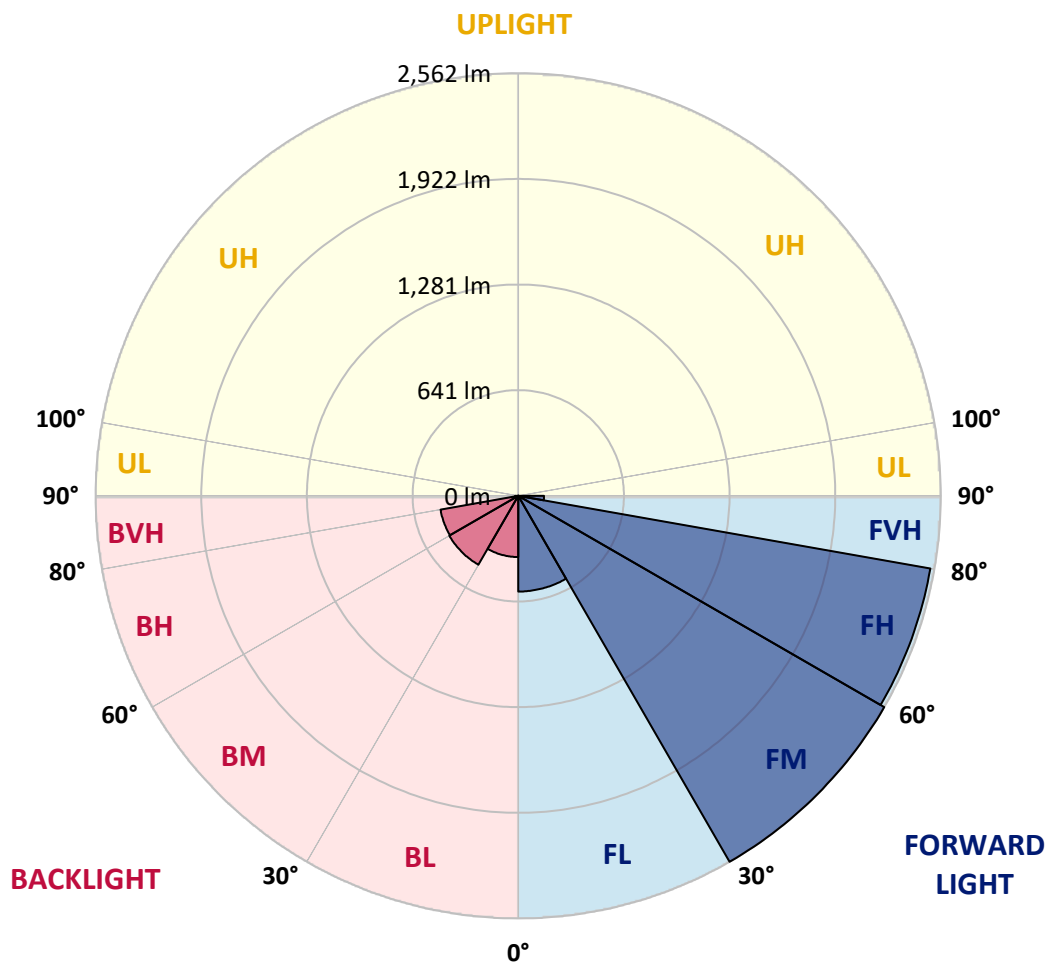


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	580.4	8.1			
FM (30°-60°)	2562.3	35.6			
FH (60°-80°)	2537.4	35.3			G2/5000
FVH (80°-90°)	156.1	2.2			G2/225
BL (0°-30°)	371.1	5.2	B1/500		
BM (30°-60°)	482.6	6.7	B1/1000		
BH (60°-80°)	478.6	6.7	B1/500		G1/500
BVH (80°-90°)	19.5	0.3			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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1659.9	1659.9	1659.9	1659.9	1659.9	1659.9	1659.9	1659.9	1659.9	1659.9	1659.9
2.5°	1601.8	1608.1	1615.3	1623.2	1638.4	1646.7	1652.8	1659.5	1660.3	1663.9	1661.1
5°	1483.6	1491.1	1501.9	1517.0	1539.7	1575.1	1611.7	1641.6	1645.2	1661.9	1666.7
7.5°	1384.8	1389.2	1398.0	1422.2	1454.5	1493.9	1547.2	1607.7	1616.5	1656.3	1670.2
10°	1304.4	1308.8	1319.1	1344.3	1376.0	1425.5	1483.9	1563.6	1570.7	1639.2	1671.1
12.5°	1244.3	1248.3	1259.5	1284.1	1320.8	1367.0	1431.4	1515.8	1526.1	1616.5	1663.5
15°	1198.5	1206.1	1215.3	1235.6	1274.2	1318.7	1381.3	1472.0	1480.3	1592.6	1658.3
17.5°	1179.0	1182.6	1189.0	1207.7	1236.0	1279.7	1342.6	1437.7	1447.8	1575.9	1657.1
20°	1179.8	1183.4	1184.6	1194.9	1215.3	1253.1	1315.2	1410.7	1422.6	1561.1	1659.1
22.5°	1206.9	1207.3	1202.9	1199.3	1207.3	1238.8	1295.7	1390.4	1404.3	1554.8	1660.7
25°	1248.7	1255.9	1249.5	1232.8	1218.0	1233.1	1288.1	1379.3	1392.4	1545.6	1658.7
27.5°	1316.4	1317.6	1312.4	1289.7	1251.5	1240.4	1284.9	1370.9	1382.1	1538.9	1648.8
30°	1407.1	1403.5	1398.8	1373.7	1313.6	1267.8	1291.7	1363.4	1374.9	1529.0	1636.8
32.5°	1499.1	1510.3	1505.9	1476.4	1398.4	1321.2	1313.6	1362.6	1372.1	1521.4	1623.7
35°	1596.6	1601.8	1622.5	1607.3	1527.3	1407.5	1354.6	1374.9	1382.5	1521.8	1614.5
37.5°	1673.0	1687.0	1735.5	1748.7	1673.4	1521.8	1421.1	1409.9	1413.1	1541.3	1618.1
40°	1765.4	1789.2	1851.8	1905.5	1856.1	1670.2	1534.1	1474.8	1478.8	1588.2	1641.6
42.5°	1882.4	1899.1	1983.1	2055.9	2048.0	1866.5	1671.1	1581.1	1583.1	1681.8	1707.3
45°	2019.4	2043.2	2137.6	2247.1	2265.8	2088.6	1868.9	1741.9	1740.7	1827.1	1829.9
47.5°	2194.5	2209.2	2302.7	2422.2	2497.8	2367.6	2108.9	1972.8	1960.0	2038.9	2016.1
50°	2355.7	2378.8	2449.6	2580.2	2768.5	2694.5	2424.6	2272.1	2242.3	2315.9	2277.7
52.5°	2423.4	2447.7	2507.3	2669.4	3000.5	3117.2	2825.4	2629.2	2579.4	2635.9	2622.0
55°	2305.9	2337.4	2393.1	2590.2	3102.5	3604.8	3366.0	3042.0	3005.7	2981.4	2985.4
57.5°	1990.3	2020.1	2095.4	2312.7	2980.6	3958.7	4137.8	3572.6	3494.9	3383.1	3402.2
60°	1515.0	1533.7	1572.7	1813.5	2619.6	4050.6	5014.3	4243.3	4193.9	3783.1	3796.7
62.5°	1075.9	1097.1	1124.1	1244.3	1917.8	3791.5	5700.6	5179.9	5003.6	4197.5	4184.4
65°	873.7	859.4	892.1	948.1	1125.3	2938.4	5855.0	6480.0	6237.1	4743.3	4560.9
67.5°	718.5	703.4	735.6	835.5	855.8	1705.7	5298.6	7323.9	7275.2	5336.8	4943.5
69°	636.1	628.1	656.4	770.2	821.6	1211.3	4615.9	7441.2	7452.8	5686.6	5002.4
70°	573.2	576.4	603.8	737.2	806.1	998.7	3945.1	7279.2	7377.2	5861.4	4938.7
72.5°	422.0	428.7	466.9	610.6	791.3	847.4	2347.7	6358.1	6531.3	5871.7	4517.9
75°	295.0	291.7	325.6	459.8	747.5	839.9	1378.9	4917.2	5113.5	5075.2	3796.3
77.5°	193.1	198.3	225.3	324.8	628.9	833.5	898.8	3488.6	3616.0	3394.2	2245.4
80°	136.2	135.8	150.9	221.7	466.5	800.9	736.0	2198.9	2166.6	1333.9	665.9
82.5°	78.0	83.6	101.1	156.1	312.1	704.9	677.1	1051.6	960.1	380.1	224.9
85°	43.4	45.4	60.1	94.4	182.3	531.0	591.1	478.5	451.4	158.8	96.7
87.5°	13.9	15.1	25.1	47.8	82.8	250.8	334.7	220.9	203.8	57.3	39.0
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°	1659.9	1659.9	1659.9	1659.9	1659.9	1659.9	1659.9	1659.9	1659.9	1659.9	1659.9
2.5°	1662.3	1667.1	1654.3	1642.0	1630.8	1615.3	1601.4	1589.8	1581.9	1580.7	1576.7
5°	1667.9	1668.3	1644.0	1611.3	1579.5	1544.5	1508.2	1482.4	1458.1	1444.6	1437.7
7.5°	1671.9	1668.3	1624.5	1571.6	1510.3	1446.5	1382.9	1331.9	1292.5	1277.0	1282.9
10°	1670.2	1659.1	1595.0	1510.3	1421.1	1325.9	1234.4	1162.8	1097.1	1063.2	1064.0
12.5°	1661.5	1643.2	1551.2	1441.3	1310.4	1183.0	1042.9	946.2	870.1	825.2	811.3
15°	1653.9	1622.1	1499.9	1347.9	1185.0	1003.1	832.3	712.9	649.3	613.8	613.4
17.5°	1645.9	1601.8	1443.8	1248.7	1040.9	806.9	627.7	536.6	506.8	510.3	504.3
20°	1637.6	1577.9	1385.2	1138.4	865.4	601.9	470.1	433.1	441.5	457.7	460.2
22.5°	1628.0	1552.5	1322.3	1017.0	680.7	453.0	381.3	375.8	397.3	422.7	426.3
25°	1613.3	1520.6	1243.2	890.0	525.0	365.0	333.9	337.9	359.1	380.5	383.0
27.5°	1592.6	1481.2	1163.1	731.6	394.5	313.3	305.3	310.5	320.8	333.9	337.2
30°	1564.7	1436.6	1071.1	594.7	316.0	287.4	284.2	287.0	293.0	298.6	300.1
32.5°	1536.9	1393.6	978.4	455.4	281.8	270.3	267.1	267.1	267.1	267.9	268.3
35°	1511.0	1353.0	878.9	354.7	263.9	256.7	252.4	247.6	246.8	244.0	244.0
37.5°	1496.7	1316.0	773.1	296.9	250.8	245.6	239.6	231.7	227.3	227.7	226.9
40°	1499.4	1291.7	676.7	264.3	240.0	234.4	225.3	216.1	213.4	213.4	212.6
42.5°	1530.9	1283.7	584.4	247.2	229.7	223.3	211.8	203.4	201.8	201.4	202.2
45°	1603.3	1303.2	501.6	236.1	220.9	211.3	199.8	192.2	190.7	190.7	190.3
47.5°	1744.7	1366.5	442.2	228.9	214.5	202.2	190.3	182.7	179.9	179.2	179.2
50°	1964.4	1503.8	398.1	222.5	206.6	193.9	181.5	172.7	168.3	168.0	167.6
52.5°	2269.7	1718.0	380.9	217.8	197.9	185.1	171.6	163.2	157.6	156.4	155.7
55°	2626.8	2016.9	404.4	214.2	188.7	175.2	161.2	152.5	147.3	144.9	144.5
57.5°	3040.4	2376.0	493.6	209.4	180.3	164.4	150.9	142.1	136.6	133.7	133.0
60°	3411.8	2745.0	649.3	206.6	173.1	152.8	138.9	131.0	125.7	123.0	122.6
62.5°	3819.8	3096.8	835.1	214.2	170.0	141.7	127.8	120.6	116.2	113.5	113.5
65°	4255.6	3449.2	958.2	239.6	174.8	133.0	115.8	109.9	105.9	103.9	103.5
67.5°	4549.4	3570.9	789.3	265.9	186.7	123.4	104.3	99.5	97.1	95.1	95.1
69°	4517.5	3416.9	582.4	272.6	190.3	118.6	98.0	94.4	91.1	90.4	89.6
70°	4416.8	3241.4	488.0	268.3	187.5	114.2	94.0	89.6	86.8	86.0	85.6
72.5°	3934.0	2811.0	363.4	233.3	159.7	99.1	83.2	79.2	76.8	75.6	75.6
75°	3268.5	2297.6	283.8	185.5	125.0	83.6	71.3	68.0	66.1	65.3	64.9
77.5°	1831.8	1282.9	203.8	145.3	94.7	67.7	59.7	56.9	55.0	54.1	54.1
80°	510.3	366.6	119.8	95.9	64.5	51.4	47.4	45.4	42.6	40.6	41.8
82.5°	192.2	158.8	68.4	57.7	41.0	34.2	33.0	31.5	30.2	27.5	27.5
85°	93.6	77.2	43.8	30.6	22.7	17.9	17.1	16.3	15.5	13.5	13.9
87.5°	32.3	34.2	19.1	11.1	6.7	4.4	3.6	2.0	2.0	2.0	2.0
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)