

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: P646812

Luminaire Tested: **GALN-SA2C-835-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646812  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2C-835-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11077.9 lumens  
Efficiency: N/A  
Efficacy: 102.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2

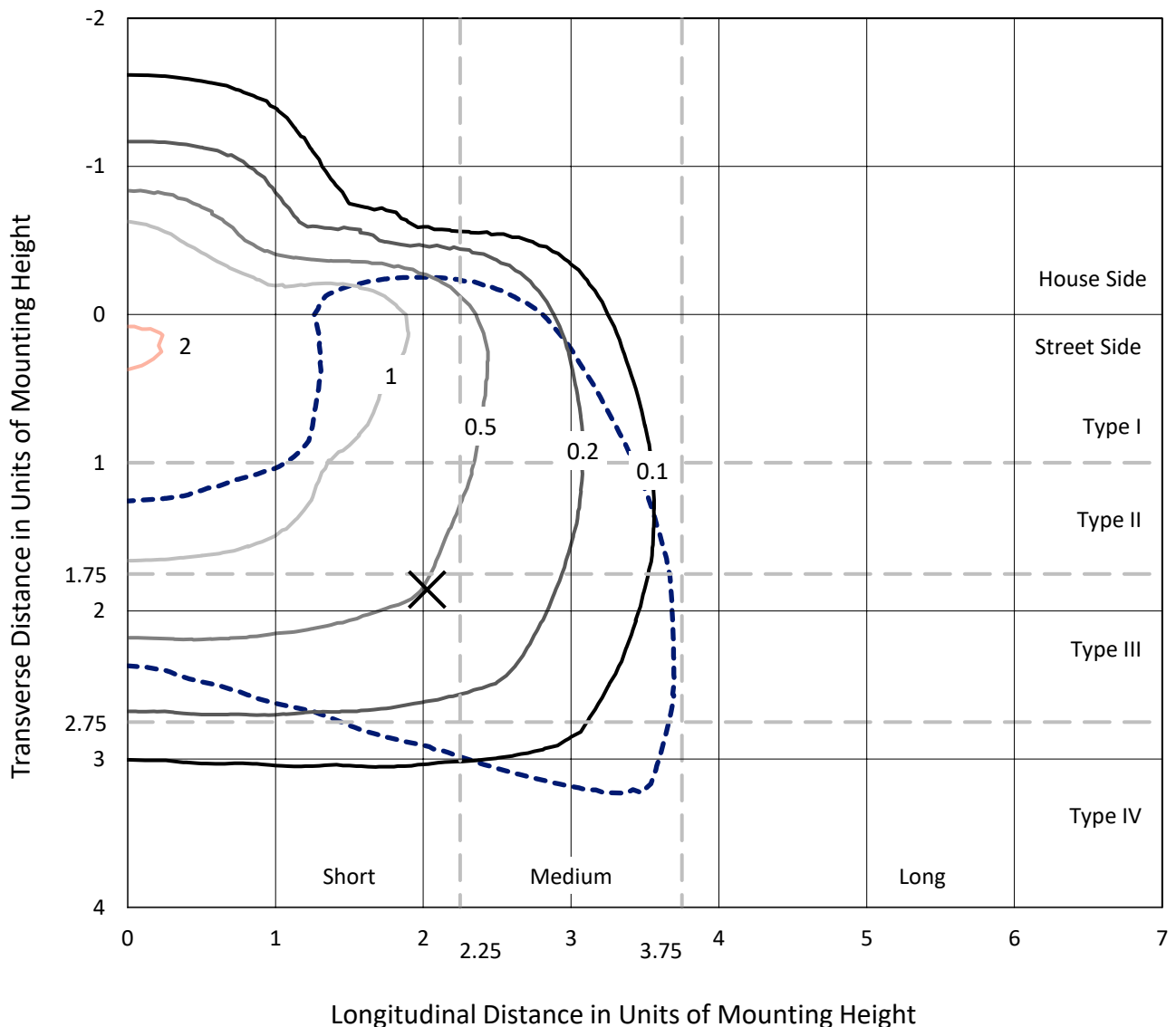
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

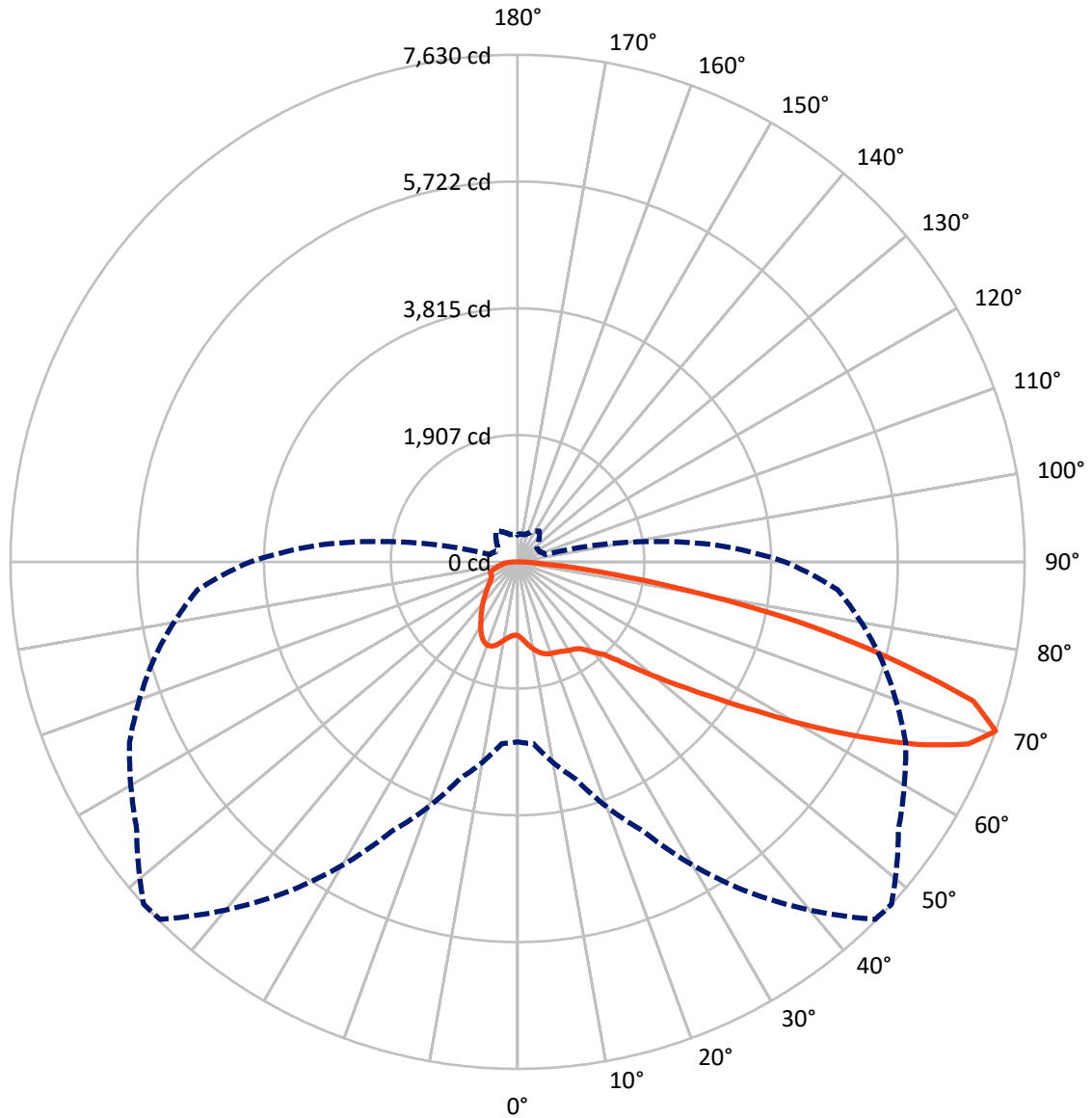
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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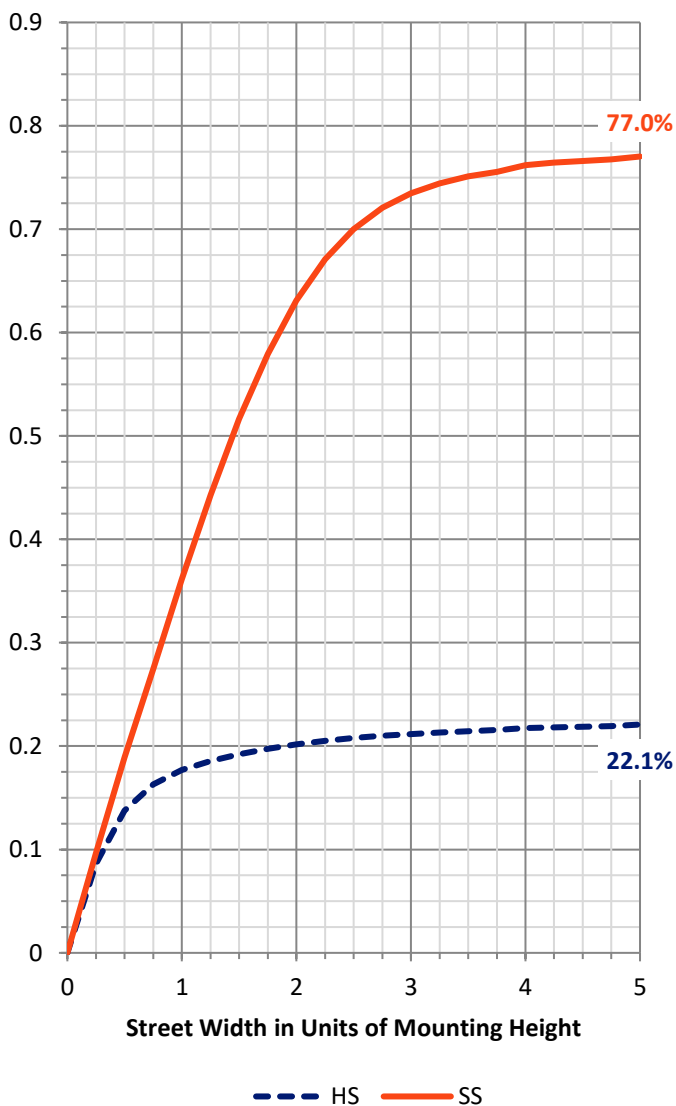
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2508.2	0.0	2508.2
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	8569.6	0.0	8569.6
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	11077.9	0.0	11077.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.6	1.0
10°-20°	383.2	3.5
20°-30°	637.3	5.8
30°-40°	903.3	8.2
40°-50°	1333.4	12.0
50°-60°	2309.6	20.8
60°-70°	3262.3	29.4
70°-80°	1875.4	16.9
80°-90°	258.7	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°	11077.9	100.0
0°-180°	11077.9	100.0

**Coefficient of Utilization**

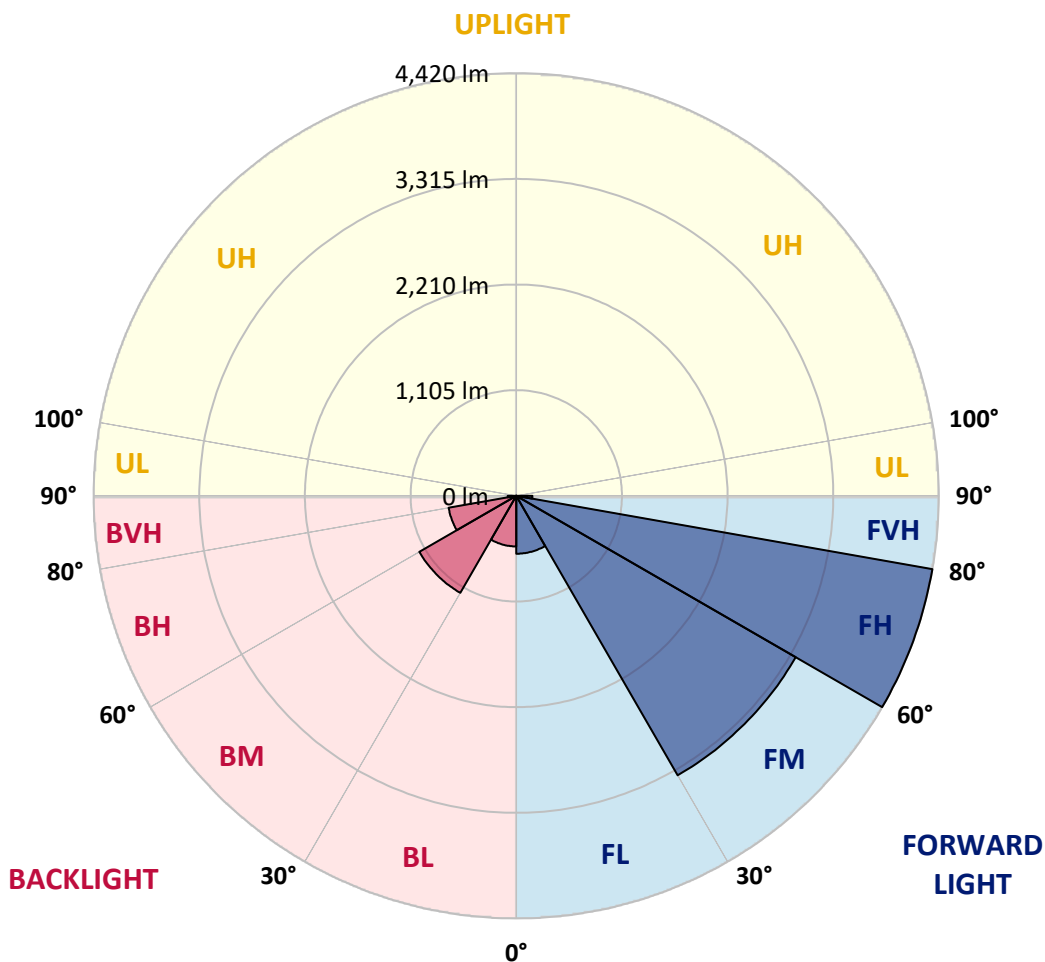


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	605.8	5.5			
FM (30°-60°)	3375.2	30.5			
FH (60°-80°)	4419.6	39.9			G2/5000
FVH (80°-90°)	169.0	1.5			G2/225
BL (0°-30°)	529.4	4.8	B2/1000		
BM (30°-60°)	1171.1	10.6	B2/2500		
BH (60°-80°)	718.1	6.5	B2/1000		G2/1000
BVH (80°-90°)	89.7	0.8			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	1112.1	1112.1	1112.1	1112.1	1112.1	1112.1	1112.1	1112.1	1112.1	1112.1	1112.1
2.5°	1183.8	1179.7	1179.0	1170.2	1165.4	1156.6	1153.0	1144.7	1134.6	1124.5	1115.1
5°	1276.9	1276.9	1272.8	1260.3	1240.7	1220.5	1211.7	1195.6	1167.2	1144.1	1124.5
7.5°	1372.3	1373.5	1365.2	1346.8	1319.0	1286.4	1278.1	1254.4	1214.0	1180.3	1151.2
10°	1454.7	1454.7	1443.5	1418.6	1383.6	1348.0	1339.7	1313.0	1268.0	1225.9	1188.0
12.5°	1517.5	1517.5	1502.7	1470.2	1432.2	1400.2	1390.7	1365.2	1323.1	1276.3	1228.3
15°	1558.5	1555.5	1538.9	1502.2	1465.4	1437.5	1431.0	1409.6	1371.1	1323.7	1269.8
17.5°	1560.2	1559.0	1543.1	1512.2	1480.2	1461.2	1457.1	1442.8	1412.6	1367.6	1310.7
20°	1525.8	1528.3	1517.5	1495.6	1480.2	1471.9	1470.2	1465.4	1444.1	1402.0	1345.0
22.5°	1489.1	1493.3	1483.2	1471.3	1470.2	1478.5	1479.6	1480.8	1467.2	1426.2	1374.1
25°	1480.2	1483.2	1473.1	1462.4	1469.0	1490.9	1495.6	1500.4	1489.7	1455.3	1408.5
27.5°	1525.3	1522.9	1503.4	1480.2	1484.3	1514.0	1520.5	1525.8	1520.5	1490.9	1451.1
30°	1652.7	1645.0	1605.9	1538.3	1517.0	1537.7	1544.2	1559.0	1559.0	1537.1	1497.4
32.5°	1866.1	1851.3	1779.6	1646.8	1572.7	1560.2	1566.8	1591.1	1603.5	1586.4	1543.1
35°	2125.1	2109.8	2007.2	1828.8	1674.7	1605.3	1603.5	1630.8	1664.0	1625.4	1569.1
37.5°	2385.4	2369.4	2246.1	2045.7	1823.5	1700.1	1689.5	1699.0	1713.2	1642.7	1605.3
40°	2645.7	2626.7	2518.8	2288.2	2005.4	1825.8	1797.9	1755.3	1749.4	1699.0	1675.2
42.5°	2903.5	2886.3	2831.8	2560.3	2223.6	1948.5	1905.8	1832.3	1854.8	1824.6	1803.9
45°	3163.8	3165.0	3106.9	2865.5	2486.8	2174.9	2117.5	2002.4	2055.8	2044.6	2056.4
47.5°	3394.4	3391.4	3370.7	3162.0	2813.4	2466.6	2392.5	2259.1	2350.4	2391.9	2482.7
50°	3617.9	3616.1	3617.2	3498.1	3192.8	2813.4	2731.6	2591.7	2797.4	2941.4	3103.9
52.5°	3937.9	3948.0	3876.3	3844.8	3654.0	3223.1	3132.9	2988.3	3325.6	3552.6	3869.7
55°	4259.2	4250.9	4194.6	4227.3	4136.5	3708.0	3613.7	3498.7	3913.7	4162.0	4638.6
57.5°	4448.4	4451.3	4508.8	4668.2	4732.3	4312.6	4227.3	4138.3	4574.6	4750.7	5322.8
60°	4618.4	4632.1	4797.5	5098.7	5272.3	5055.4	4979.5	4893.0	5181.0	5251.0	5916.7
62.5°	4671.8	4713.9	5002.6	5453.1	5798.7	5893.6	5799.3	5608.5	5758.4	5731.2	6319.2
65°	4405.6	4463.2	4980.7	5585.9	6268.9	6689.1	6629.3	6274.7	6250.5	6086.3	6385.0
67.5°	3705.0	3762.5	4427.0	5307.3	6463.3	7378.0	7318.1	6760.8	6549.2	6119.5	5887.1
70°	2710.8	2747.0	3382.5	4468.5	6072.6	7609.1	7629.9	6998.0	6442.5	5668.3	4833.7
72.5°	1562.0	1642.0	2087.2	3143.6	4961.1	7024.6	7168.7	6504.8	5767.9	4728.8	3379.5
75°	671.7	673.4	965.0	1734.0	3360.0	5646.4	5785.7	5392.1	4529.6	3269.9	1804.5
77.5°	319.5	325.4	424.5	774.2	1849.5	3901.2	4277.1	3809.3	2897.0	1570.9	681.7
80°	207.5	211.6	259.6	384.1	906.9	2262.1	2524.2	2197.5	1278.1	561.4	294.0
82.5°	125.7	126.8	173.7	234.7	499.2	1024.3	1207.5	953.8	545.4	336.1	173.1
85°	76.5	77.0	105.5	145.2	302.9	353.9	363.4	360.4	320.1	219.9	92.5
87.5°	36.7	38.0	54.6	68.7	119.2	109.7	103.7	120.3	151.2	118.5	39.7
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°	1112.1	1112.1	1112.1	1112.1	1112.1	1112.1	1112.1	1112.1	1112.1	1112.1	1112.1
2.5°	1110.9	1109.1	1105.0	1103.2	1102.0	1102.6	1102.0	1102.0	1102.6	1102.6	1102.6
5°	1116.2	1113.3	1106.8	1106.8	1110.3	1118.6	1126.3	1132.2	1138.8	1138.2	1138.2
7.5°	1139.3	1134.0	1126.3	1128.7	1137.5	1150.6	1164.2	1177.3	1190.3	1191.5	1190.9
10°	1173.2	1167.8	1159.5	1162.4	1176.7	1196.3	1213.5	1232.4	1246.6	1250.8	1249.6
12.5°	1211.7	1201.0	1193.9	1202.2	1224.7	1250.8	1267.4	1281.6	1291.7	1297.7	1295.2
15°	1250.8	1240.7	1232.4	1249.6	1276.9	1301.2	1309.5	1311.8	1313.6	1319.6	1318.4
17.5°	1288.7	1275.1	1272.1	1294.7	1320.8	1331.4	1326.7	1316.6	1308.9	1313.6	1313.0
20°	1322.6	1311.8	1310.7	1333.2	1343.3	1333.2	1313.0	1295.2	1281.6	1282.8	1282.2
22.5°	1354.5	1346.2	1347.5	1356.9	1340.9	1306.5	1273.3	1249.0	1234.2	1237.1	1238.9
25°	1390.1	1381.8	1384.7	1369.4	1316.6	1256.7	1208.7	1188.0	1182.0	1188.0	1192.1
27.5°	1436.3	1431.0	1429.2	1369.9	1273.3	1183.2	1128.7	1120.9	1126.3	1139.3	1145.8
30°	1486.1	1486.1	1476.7	1359.8	1214.0	1094.9	1047.5	1048.7	1067.1	1085.4	1091.9
32.5°	1534.1	1544.2	1514.6	1332.6	1137.5	1009.0	972.8	974.0	989.9	1012.5	1018.4
35°	1573.9	1603.0	1547.2	1282.8	1047.5	936.6	909.4	893.3	894.0	911.1	915.9
37.5°	1628.4	1682.4	1566.2	1208.7	951.4	875.0	844.2	816.3	797.9	790.8	790.8
40°	1723.2	1802.7	1570.9	1099.0	860.8	816.3	772.4	739.2	703.7	671.7	665.7
42.5°	1883.9	1984.1	1561.5	972.8	778.9	751.7	709.0	668.1	618.9	573.9	570.3
45°	2168.4	2220.0	1535.9	841.8	706.0	689.4	647.9	603.5	551.3	511.0	508.0
47.5°	2624.3	2551.4	1502.2	725.6	639.6	634.9	602.9	551.3	499.2	471.3	468.3
50°	3290.0	3073.0	1497.4	641.4	586.3	588.7	562.6	515.1	469.5	446.4	442.8
52.5°	4091.5	3703.2	1528.8	582.2	539.4	548.3	535.3	491.4	451.1	431.6	428.0
55°	4869.2	4269.9	1547.8	535.9	495.6	512.2	514.0	477.2	440.4	420.9	418.5
57.5°	5500.6	4696.7	1463.6	493.8	457.7	483.1	496.2	468.9	435.1	420.3	417.9
60°	5939.8	4898.3	1224.1	456.5	429.8	460.0	489.7	469.5	448.2	449.9	451.1
62.5°	6079.8	4808.8	918.2	428.6	410.8	452.3	500.3	493.8	471.8	485.5	487.9
65°	5847.9	4438.8	665.7	406.7	394.2	457.7	532.4	511.6	463.5	473.6	473.6
67.5°	5072.0	3824.1	518.1	386.5	375.2	467.7	564.3	509.8	444.0	455.9	445.2
70°	4023.3	2958.0	431.6	363.9	355.1	452.9	567.3	491.4	420.9	423.3	403.1
72.5°	2670.0	1945.0	371.1	342.6	324.2	407.2	543.0	467.7	398.4	384.7	364.6
75°	1308.3	969.8	323.7	315.9	283.9	354.5	509.8	445.2	374.0	352.7	341.5
77.5°	506.8	412.6	276.2	282.2	247.2	312.4	466.0	413.2	342.0	313.0	304.1
80°	246.0	234.1	226.4	235.4	203.3	266.1	425.6	385.3	312.4	280.4	267.3
82.5°	152.9	144.6	173.7	183.1	156.5	243.0	403.7	361.6	275.1	232.4	221.7
85°	77.7	83.0	116.2	125.0	112.0	193.2	332.5	271.5	198.6	164.8	166.0
87.5°	29.7	39.7	61.1	65.8	59.9	101.9	183.1	158.2	127.5	86.5	80.0
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)