

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: P522662

Luminaire Tested: **GALN-SA2B-740-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522662
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-SA2B-740-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11451 lumens
Efficiency: N/A
Efficacy: 139.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

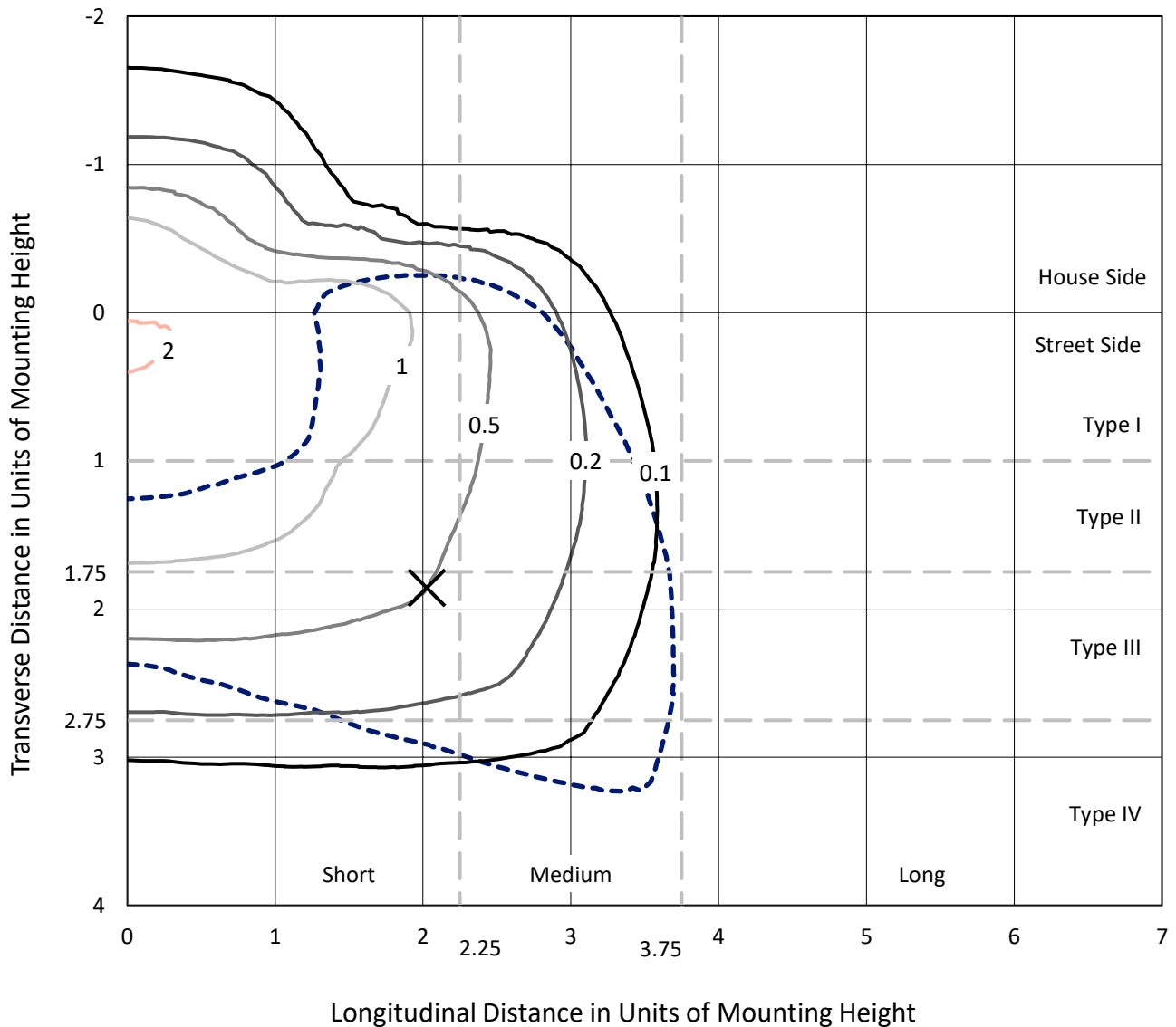
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P522662
 CATALOG NUMBER: GALN-SA2B-740-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

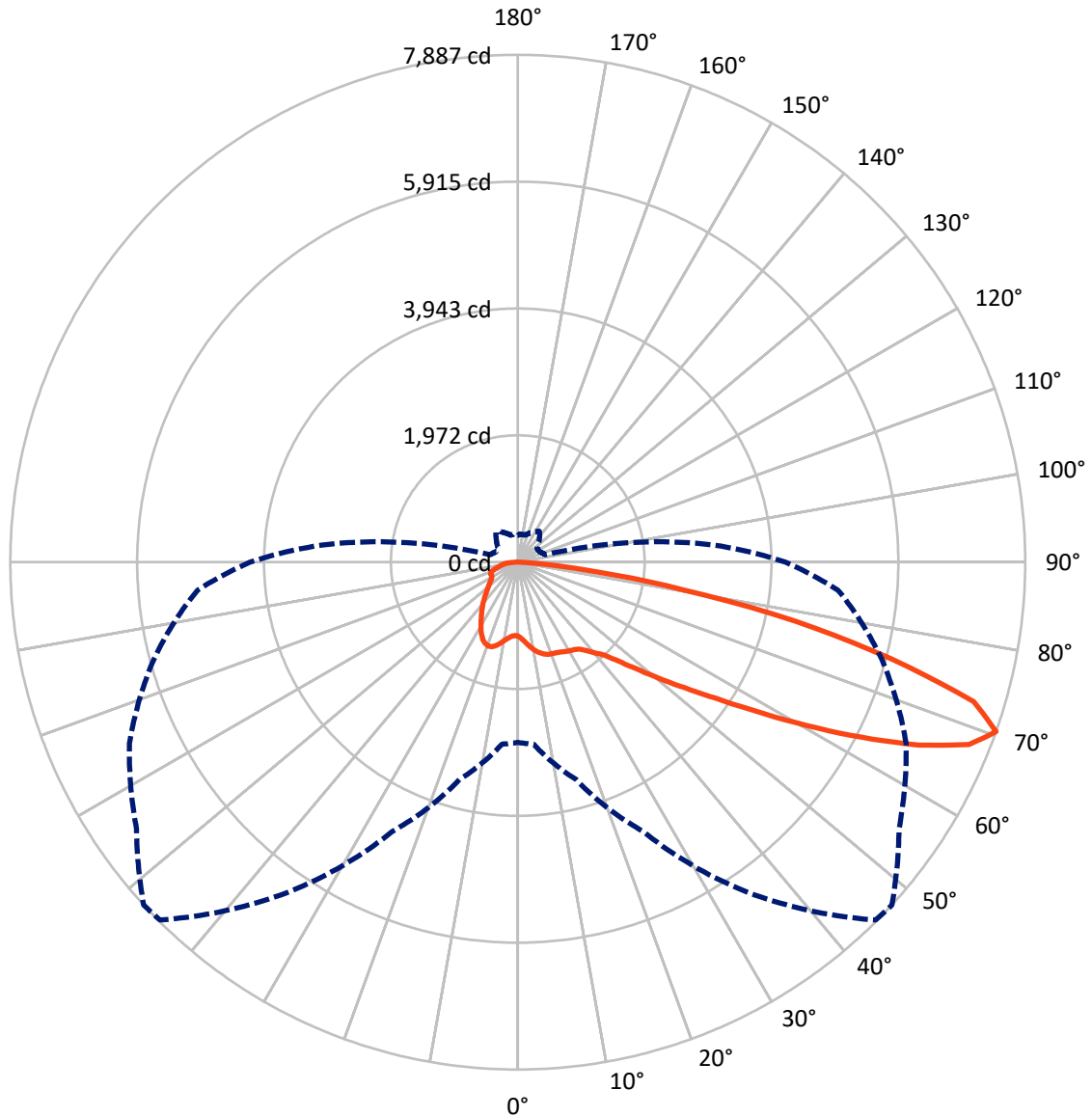
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P522662
CATALOG NUMBER: GALN-SA2B-740-U-T4W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P522662

CATALOG NUMBER: GALN-SA2B-740-U-T4W

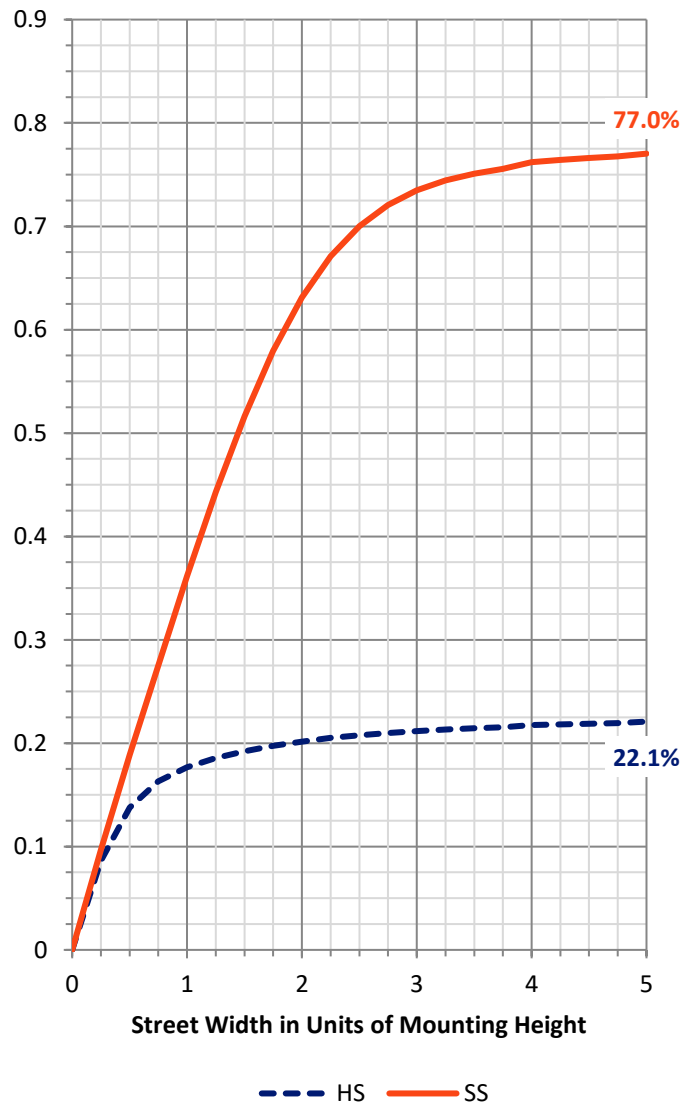
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2592.7	0.0	2592.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	8858.3	0.0	8858.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	11451.0	0.0	11451.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.5	1.0
10°-20°	396.1	3.5
20°-30°	658.8	5.8
30°-40°	933.7	8.2
40°-50°	1378.3	12.0
50°-60°	2387.4	20.8
60°-70°	3372.2	29.4
70°-80°	1938.5	16.9
80°-90°	267.5	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°	11451.0	100.0
0°-180°	11451.0	100.0



REPORT NUMBER: P522662

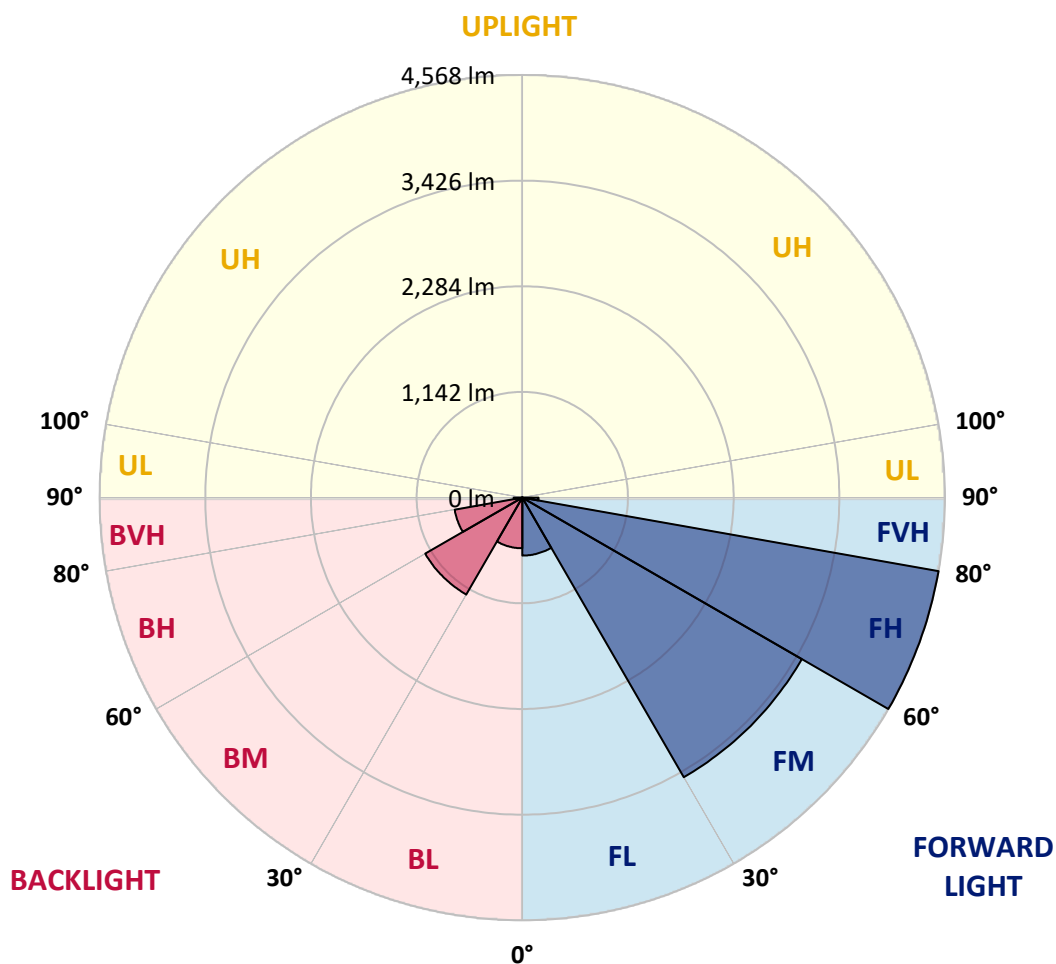
CATALOG NUMBER: GALN-SA2B-740-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	626.2	5.5			
FM	(30°-60°)	3488.9	30.5			
FH	(60°-80°)	4568.5	39.9			G2/5000
FVH	(80°-90°)	174.7	1.5			G2/225
BL	(0°-30°)	547.2	4.8	B2/1000		
BM	(30°-60°)	1210.5	10.6	B2/2500		
BH	(60°-80°)	742.3	6.5	B2/1000		G2/1000
BVH	(80°-90°)	92.7	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





REPORT NUMBER: P522662
 CATALOG NUMBER: GALN-SA2B-740-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5
2.5°	1223.7	1219.4	1218.8	1209.6	1204.7	1195.5	1191.8	1183.2	1172.8	1162.4	1152.6
5°	1319.9	1319.9	1315.6	1302.7	1282.5	1261.7	1252.5	1235.9	1206.5	1182.6	1162.4
7.5°	1418.5	1419.8	1411.2	1392.2	1363.4	1329.7	1321.1	1296.6	1254.9	1220.0	1190.0
10°	1503.7	1503.7	1492.1	1466.3	1430.2	1393.4	1384.8	1357.3	1310.7	1267.2	1228.0
12.5°	1568.7	1568.7	1553.4	1519.7	1480.4	1447.3	1437.5	1411.2	1367.7	1319.3	1269.6
15°	1611.0	1607.9	1590.7	1552.7	1514.7	1485.9	1479.2	1457.1	1417.3	1368.3	1312.5
17.5°	1612.8	1611.6	1595.0	1563.2	1530.1	1510.5	1506.2	1491.5	1460.2	1413.6	1354.8
20°	1577.3	1579.7	1568.7	1546.0	1530.1	1521.5	1519.7	1514.7	1492.7	1449.2	1390.4
22.5°	1539.3	1543.5	1533.1	1520.9	1519.7	1528.2	1529.5	1530.7	1516.6	1474.3	1420.4
25°	1530.1	1533.1	1522.7	1511.7	1518.4	1541.1	1546.0	1550.9	1539.9	1504.3	1455.9
27.5°	1576.6	1574.2	1554.0	1530.1	1534.4	1565.0	1571.7	1577.3	1571.7	1541.1	1500.0
30°	1708.4	1700.4	1660.0	1590.1	1568.1	1589.5	1596.2	1611.6	1611.6	1588.9	1547.8
32.5°	1929.0	1913.7	1839.5	1702.3	1625.7	1612.8	1619.5	1644.7	1657.5	1639.8	1595.0
35°	2196.8	2180.8	2074.8	1890.4	1731.1	1659.4	1657.5	1685.7	1720.0	1680.2	1622.0
37.5°	2465.8	2449.2	2321.8	2114.6	1884.9	1757.4	1746.4	1756.2	1770.9	1698.0	1659.4
40°	2734.8	2715.2	2603.6	2365.3	2073.0	1887.3	1858.5	1814.4	1808.3	1756.2	1731.7
42.5°	3001.3	2983.5	2927.2	2646.5	2298.5	2014.2	1970.0	1894.0	1917.3	1886.1	1864.6
45°	3270.3	3271.5	3211.5	2962.1	2570.5	2248.2	2188.8	2069.9	2125.1	2113.4	2125.7
47.5°	3508.7	3505.6	3484.2	3268.5	2908.2	2549.7	2473.1	2335.2	2429.6	2472.5	2566.2
50°	3739.7	3737.9	3739.1	3615.9	3300.3	2908.2	2823.6	2679.0	2891.6	3040.5	3208.4
52.5°	4070.6	4081.0	4006.9	3974.4	3777.1	3331.6	3238.5	3088.9	3437.6	3672.3	4000.1
55°	4402.7	4394.1	4335.9	4369.6	4275.9	3832.8	3735.4	3616.5	4045.5	4302.2	4794.9
57.5°	4598.2	4601.2	4660.7	4825.5	4891.7	4457.8	4369.6	4277.7	4728.7	4910.7	5502.0
60°	4774.0	4788.1	4959.1	5270.4	5449.9	5225.6	5147.2	5057.7	5355.5	5427.9	6116.0
62.5°	4829.2	4872.7	5171.1	5636.8	5994.0	6092.1	5994.7	5797.3	5952.4	5924.2	6532.0
65°	4554.1	4613.5	5148.4	5774.1	6480.0	6914.4	6852.5	6486.1	6461.0	6291.2	6600.1
67.5°	3829.8	3889.2	4576.1	5486.1	6681.0	7626.4	7564.6	6988.6	6769.8	6325.5	6085.3
70°	2802.2	2839.5	3496.4	4619.0	6277.1	7865.4	7886.9	7233.7	6659.5	5859.2	4996.5
72.5°	1614.6	1697.4	2157.5	3249.5	5128.2	7261.2	7410.1	6723.8	5962.2	4888.0	3493.4
75°	694.3	696.1	997.6	1792.3	3473.1	5836.6	5980.6	5573.7	4682.1	3380.0	1865.2
77.5°	330.3	336.4	438.7	800.3	1911.8	4032.6	4421.1	3937.6	2994.6	1623.8	704.7
80°	214.5	218.8	268.4	397.1	937.5	2338.3	2609.1	2271.5	1321.1	580.3	303.9
82.5°	129.9	131.1	179.5	242.7	515.9	1058.9	1248.2	985.9	563.7	347.4	178.9
85°	79.0	79.7	109.1	150.1	313.1	365.8	375.6	372.6	330.9	227.3	95.6
87.5°	38.0	39.2	56.4	71.1	123.2	113.4	107.2	124.4	156.3	122.6	41.1
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: P522662
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5
2.5°	1148.3	1146.5	1142.2	1140.4	1139.1	1139.7	1139.1	1139.1	1139.7	1139.7	1139.7
5°	1153.8	1150.8	1144.0	1144.0	1147.7	1156.3	1164.2	1170.4	1177.1	1176.5	1176.5
7.5°	1177.7	1172.2	1164.2	1166.7	1175.9	1189.4	1203.5	1216.9	1230.4	1231.7	1231.0
10°	1212.7	1207.1	1198.6	1201.6	1216.3	1236.6	1254.3	1273.9	1288.6	1292.9	1291.7
12.5°	1252.5	1241.5	1234.1	1242.7	1266.0	1292.9	1310.1	1324.8	1335.2	1341.3	1338.9
15°	1292.9	1282.5	1273.9	1291.7	1319.9	1345.0	1353.6	1356.0	1357.9	1364.0	1362.8
17.5°	1332.1	1318.1	1315.0	1338.3	1365.2	1376.3	1371.4	1360.9	1353.0	1357.9	1357.3
20°	1367.1	1356.0	1354.8	1378.1	1388.5	1378.1	1357.3	1338.9	1324.8	1326.0	1325.4
22.5°	1400.2	1391.6	1392.8	1402.6	1386.1	1350.5	1316.2	1291.1	1275.8	1278.8	1280.7
25°	1436.9	1428.3	1431.4	1415.5	1360.9	1299.1	1249.4	1228.0	1221.8	1228.0	1232.3
27.5°	1484.7	1479.2	1477.4	1416.1	1316.2	1223.1	1166.7	1158.7	1164.2	1177.7	1184.5
30°	1536.2	1536.2	1526.4	1405.7	1254.9	1131.8	1082.8	1084.0	1103.0	1122.0	1128.7
32.5°	1585.8	1596.2	1565.6	1377.5	1175.9	1042.9	1005.5	1006.8	1023.3	1046.6	1052.7
35°	1626.9	1656.9	1599.3	1326.0	1082.8	968.2	940.0	923.4	924.0	941.8	946.7
37.5°	1683.3	1739.0	1618.9	1249.4	983.5	904.4	872.6	843.8	824.8	817.4	817.4
40°	1781.3	1863.4	1623.8	1136.1	889.7	843.8	798.4	764.1	727.3	694.3	688.1
42.5°	1947.4	2050.9	1614.0	1005.5	805.2	777.0	732.9	690.6	639.7	593.2	589.5
45°	2241.5	2294.8	1587.7	870.1	729.8	712.6	669.7	623.8	569.9	528.2	525.1
47.5°	2712.7	2637.3	1552.7	750.0	661.2	656.3	623.2	569.9	515.9	487.1	484.1
50°	3400.8	3176.6	1547.8	663.0	606.0	608.5	581.5	532.5	485.3	461.4	457.7
52.5°	4229.3	3827.9	1580.3	601.7	557.6	566.8	553.3	508.0	466.3	446.1	442.4
55°	5033.2	4413.7	1599.9	553.9	512.3	529.4	531.3	493.3	455.3	435.1	432.6
57.5°	5685.8	4854.9	1512.9	510.4	473.1	499.4	512.9	484.7	449.8	434.4	432.0
60°	6139.9	5063.3	1265.4	471.8	444.3	475.5	506.1	485.3	463.2	465.1	466.3
62.5°	6284.5	4970.7	949.2	443.0	424.6	467.5	517.2	510.4	487.8	501.9	504.3
65°	6044.9	4588.4	688.1	420.4	407.5	473.1	550.3	528.8	479.2	489.6	489.6
67.5°	5242.8	3952.9	535.6	399.5	387.9	483.5	583.3	527.0	459.0	471.2	460.2
70°	4158.8	3057.7	446.1	376.2	367.0	468.2	586.4	508.0	435.1	437.5	416.7
72.5°	2759.9	2010.5	383.6	354.2	335.2	421.0	561.3	483.5	411.8	397.7	376.8
75°	1352.4	1002.5	334.6	326.6	293.5	366.4	527.0	460.2	386.7	364.6	353.0
77.5°	523.9	426.5	285.5	291.7	255.5	322.9	481.6	427.1	353.6	323.5	314.3
80°	254.3	242.0	234.1	243.3	210.2	275.1	440.0	398.3	322.9	289.8	276.4
82.5°	158.1	149.5	179.5	189.3	161.8	251.2	417.3	373.8	284.3	240.2	229.2
85°	80.3	85.8	120.1	129.3	115.8	199.8	343.8	280.6	205.3	170.3	171.6
87.5°	30.6	41.1	63.1	68.0	61.9	105.4	189.3	163.6	131.7	89.5	82.7
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)