

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: P526308

Luminaire Tested: **GALN-SA1B-730-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526308
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-730-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4444 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

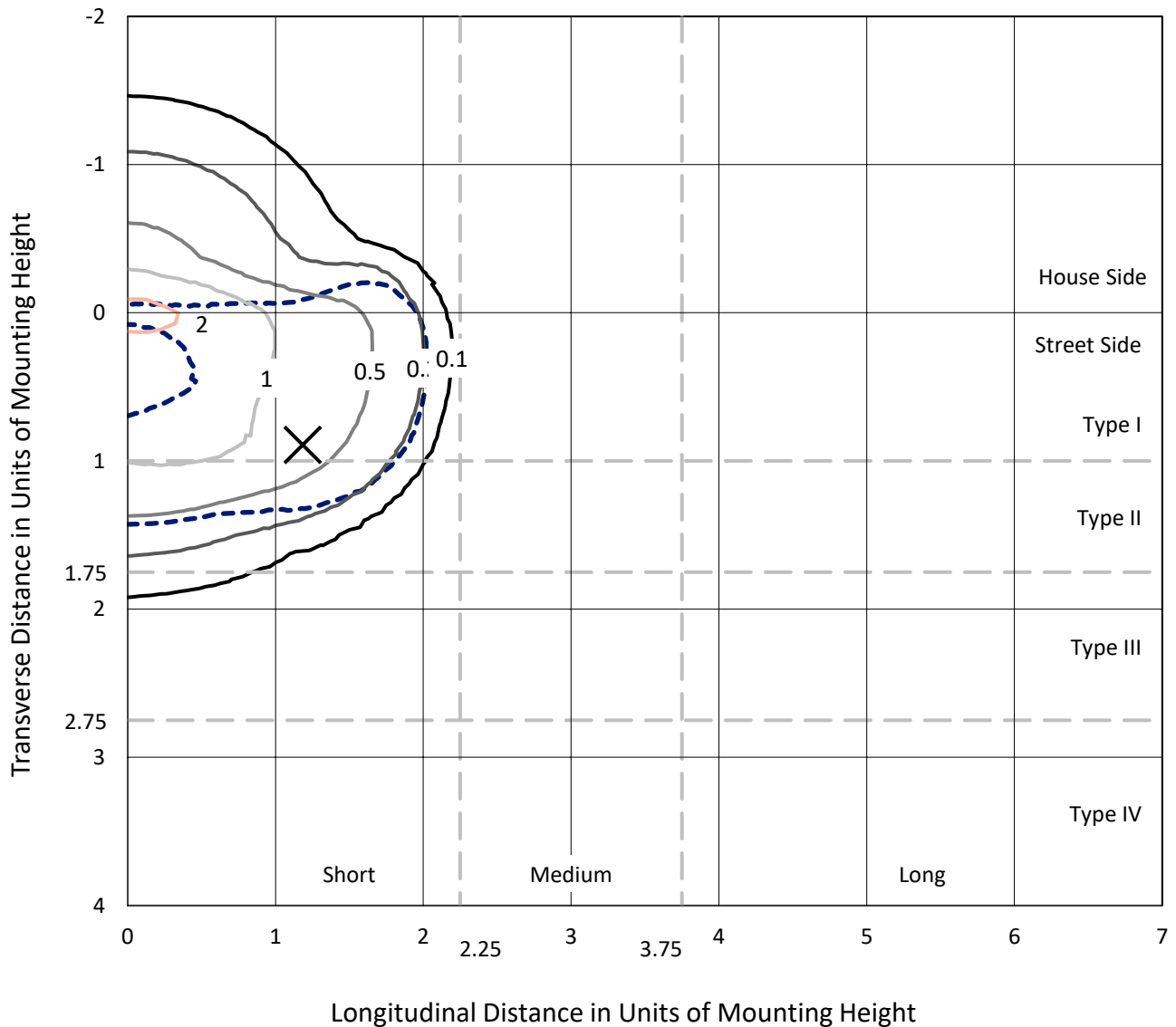
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P526308
 CATALOG NUMBER: GALN-SA1B-730-U-SL2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

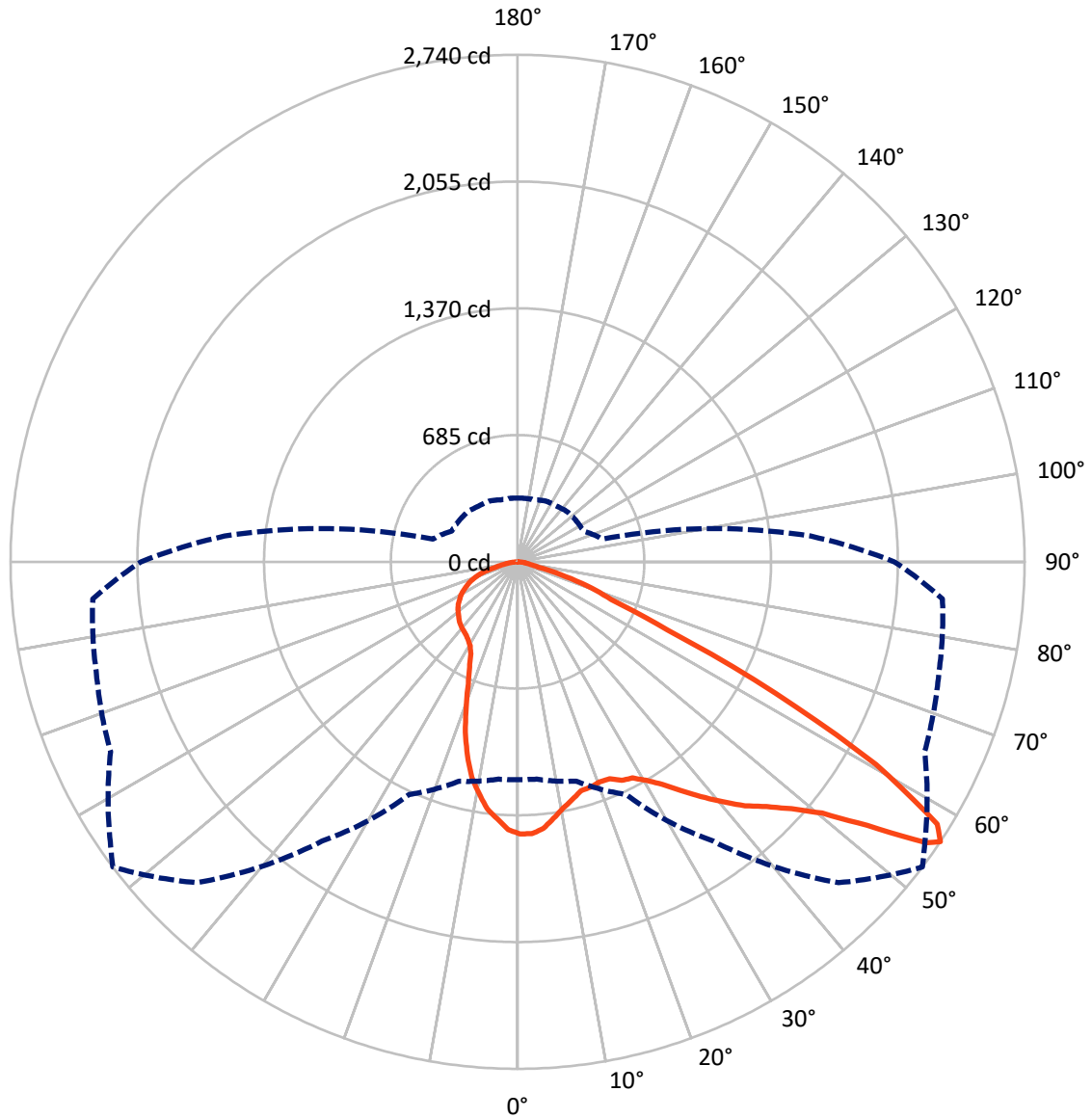
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type II - Short - N/A

REPORT NUMBER: P526308
CATALOG NUMBER: GALN-SA1B-730-U-SL2-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P526308
 CATALOG NUMBER: GALN-SA1B-730-U-SL2-GRSWH

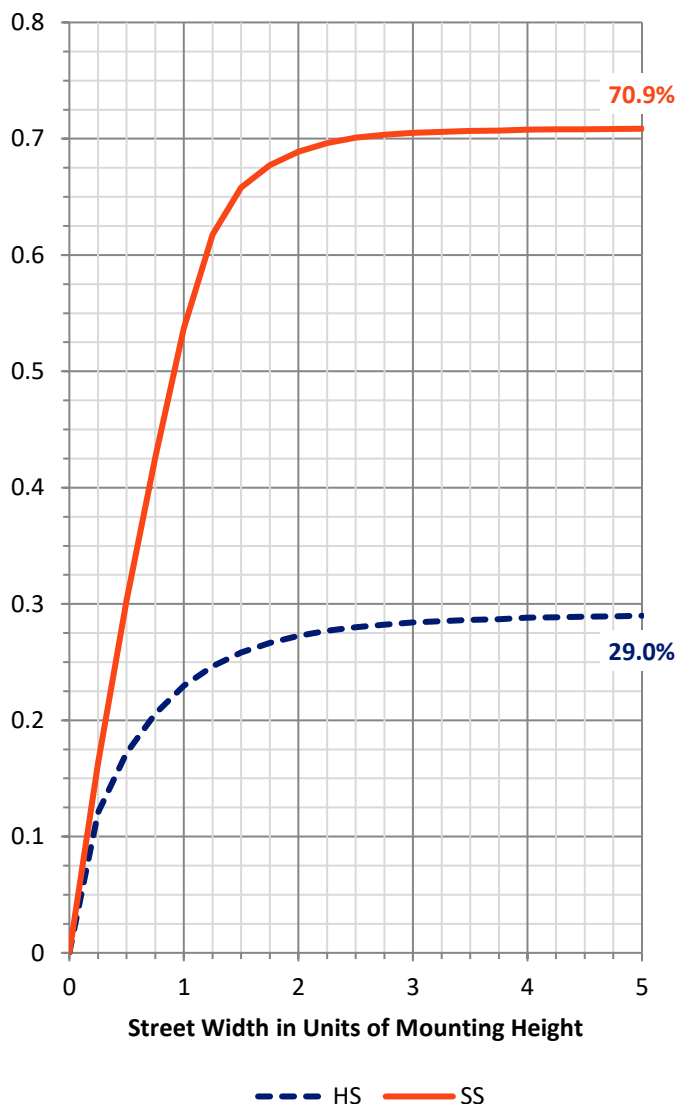
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1296.9	0.0	1296.9
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	3147.1	0.0	3147.1
	% Fixture	70.8	0.0	70.8
Total	Lumens	4444.0	0.0	4444.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.2	2.9
10°-20°	325.1	7.3
20°-30°	479.4	10.8
30°-40°	684.9	15.4
40°-50°	942.7	21.2
50°-60°	1114.0	25.1
60°-70°	593.7	13.4
70°-80°	150.6	3.4
80°-90°	23.5	0.5
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°	4444.0	100.0
0°-180°	4444.0	100.0

Coefficient of Utilization



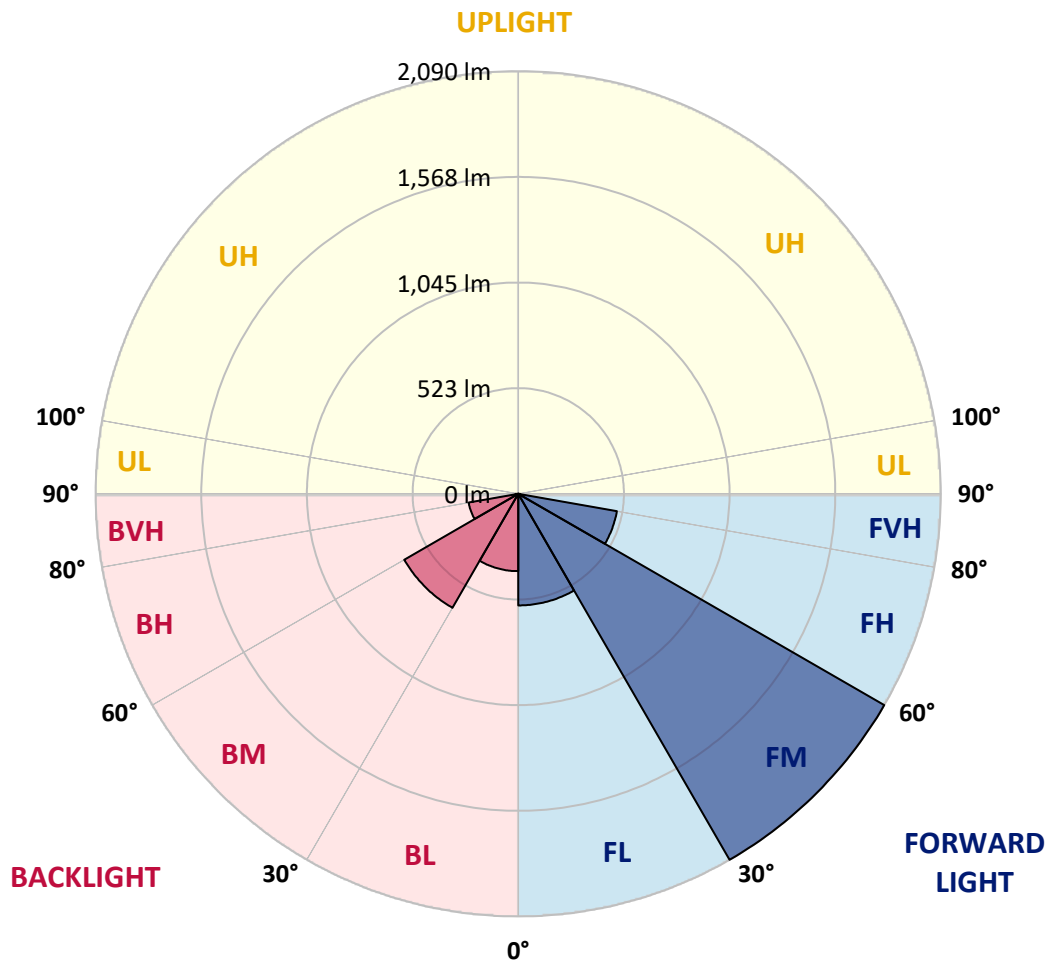
REPORT NUMBER: P526308
 CATALOG NUMBER: GALN-SA1B-730-U-SL2-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	552.1	12.4			
FM (30°-60°)	2090.4	47.0			
FH (60°-80°)	495.2	11.1			G0/660
FVH (80°-90°)	9.4	0.2			G0/10
BL (0°-30°)	382.5	8.6	B1/500		
BM (30°-60°)	651.2	14.7	B1/1000		
BH (60°-80°)	249.1	5.6	B1/500		G1/500
BVH (80°-90°)	14.0	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-G1

Type II Short





REPORT NUMBER: P526308

CATALOG NUMBER: GALN-SA1B-730-U-SL2-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3
2.5°	1452.0	1439.5	1446.9	1444.0	1467.4	1474.2	1470.8	1473.7	1486.8	1480.5	1467.4
5°	1356.8	1374.5	1377.9	1386.4	1400.1	1426.9	1448.0	1453.7	1460.0	1489.1	1486.2
7.5°	1270.2	1282.1	1275.9	1300.9	1330.6	1373.9	1399.6	1404.1	1461.7	1477.7	1489.6
10°	1215.4	1203.5	1232.0	1238.8	1272.4	1322.0	1352.8	1371.6	1424.1	1487.4	1494.8
12.5°	1164.7	1160.7	1177.8	1197.2	1234.8	1286.1	1317.5	1324.9	1405.8	1472.5	1507.3
15°	1127.1	1122.5	1139.6	1153.9	1197.7	1243.4	1283.3	1304.4	1385.9	1464.0	1496.5
17.5°	1097.4	1096.8	1106.5	1132.2	1177.2	1215.4	1279.8	1281.0	1375.6	1477.1	1505.6
20°	1095.7	1095.1	1096.8	1125.3	1166.4	1213.1	1269.0	1279.3	1375.6	1468.0	1506.2
22.5°	1110.0	1100.8	1111.1	1129.3	1159.0	1217.1	1273.0	1295.8	1408.7	1513.0	1531.8
25°	1132.8	1135.0	1140.7	1147.0	1164.1	1226.3	1308.3	1327.2	1447.4	1551.8	1567.2
27.5°	1174.4	1173.2	1175.5	1178.9	1193.8	1234.8	1322.6	1371.1	1528.4	1620.8	1605.4
30°	1235.4	1231.4	1240.5	1252.5	1238.8	1262.2	1369.9	1406.4	1603.7	1690.3	1648.1
32.5°	1290.7	1305.5	1322.6	1327.7	1311.2	1315.8	1432.6	1469.7	1666.4	1775.8	1700.6
35°	1359.7	1371.6	1394.4	1410.4	1407.5	1393.9	1518.1	1567.2	1757.0	1838.5	1755.9
37.5°	1426.9	1441.2	1478.8	1526.1	1499.9	1493.6	1609.4	1649.8	1784.9	1872.2	1796.3
40°	1535.2	1534.7	1599.7	1624.2	1647.5	1636.7	1704.0	1717.7	1799.8	1864.7	1797.5
42.5°	1662.4	1654.4	1720.5	1758.7	1788.9	1790.1	1802.6	1798.0	1806.6	1827.1	1785.5
45°	1783.2	1800.3	1867.0	1935.4	1965.7	1969.1	1885.8	1877.3	1818.6	1816.3	1762.7
47.5°	1930.9	1934.9	1989.6	2079.7	2149.8	2125.8	1993.6	1974.8	1871.0	1888.7	1800.9
50°	1939.4	1969.1	2018.1	2124.1	2339.6	2333.4	2133.3	2097.9	1955.4	1991.3	1907.5
52.5°	1760.4	1753.6	1811.7	1985.0	2325.4	2539.7	2364.7	2280.3	2136.7	2109.3	2080.2
55°	1341.4	1357.4	1408.7	1583.7	2019.2	2542.6	2680.0	2611.0	2330.5	2283.8	2250.1
56°	1176.7	1178.9	1227.4	1387.0	1842.5	2451.9	2739.8	2684.0	2426.9	2355.6	2304.3
57.5°	975.4	962.3	987.4	1074.6	1555.2	2260.4	2674.3	2729.0	2539.7	2433.1	2361.9
60°	767.9	765.1	754.8	770.8	982.8	1702.8	2226.2	2349.3	2528.3	2360.2	2262.1
62.5°	627.1	612.8	633.4	656.2	683.0	1056.4	1564.3	1636.7	2007.3	1884.1	1699.4
65°	486.3	479.4	505.1	579.2	595.2	671.0	891.0	946.9	1185.2	1164.1	1025.0
67.5°	334.6	335.8	358.0	470.9	551.8	545.0	545.6	574.6	618.5	459.5	400.2
70°	212.1	211.5	223.5	303.3	444.1	448.7	425.9	417.3	395.6	239.4	253.7
72.5°	136.3	132.3	138.5	167.6	229.7	265.7	273.6	278.8	229.2	188.1	204.1
75°	77.0	73.0	70.7	78.1	90.6	104.9	115.2	118.6	132.8	142.5	151.1
77.5°	23.4	21.1	25.7	34.2	45.0	60.4	73.5	75.8	89.5	100.9	109.5
80°	10.3	11.4	16.0	22.8	31.9	42.8	51.9	55.3	64.4	73.0	75.3
82.5°	6.3	6.8	10.8	15.4	22.2	30.2	37.1	38.2	47.3	54.2	55.9
85°	2.3	2.9	5.7	9.1	14.3	19.4	19.4	21.1	19.4	19.4	21.1
87.5°	0.0	0.0	0.6	1.1	1.1	1.7	2.3	2.3	2.9	3.4	4.0
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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CATALOG NUMBER: GALN-SA1B-730-U-SL2-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3
2.5°	1474.2	1471.4	1466.8	1450.3	1448.6	1443.5	1415.0	1410.4	1415.0	1401.3	1402.4
5°	1471.4	1479.9	1445.7	1429.2	1398.4	1376.2	1350.5	1337.4	1314.0	1299.2	1315.8
7.5°	1483.9	1480.5	1437.8	1401.8	1355.7	1299.2	1254.2	1228.5	1187.5	1176.1	1184.6
10°	1479.4	1461.1	1411.0	1363.6	1276.4	1226.8	1153.9	1083.2	1044.4	1024.4	1021.6
12.5°	1473.1	1468.0	1384.2	1302.6	1210.9	1106.5	1003.9	937.2	873.9	846.6	850.6
15°	1480.5	1437.2	1334.0	1230.8	1108.8	972.0	861.4	775.3	731.4	713.7	713.7
17.5°	1477.1	1422.4	1310.1	1150.4	995.9	834.0	712.6	660.7	642.5	642.5	647.6
20°	1478.8	1432.1	1261.6	1070.1	862.5	702.3	614.0	595.2	603.2	606.0	608.9
22.5°	1488.5	1400.1	1214.3	981.7	738.8	600.9	557.5	558.1	572.4	587.8	584.9
25°	1500.5	1387.6	1156.7	893.9	644.2	551.3	537.6	535.9	546.7	554.7	555.8
27.5°	1490.2	1365.9	1098.0	784.4	566.7	518.2	515.4	516.5	519.9	535.9	530.7
30°	1523.8	1372.2	1024.4	692.7	523.9	507.4	504.0	502.2	507.4	511.9	507.9
32.5°	1565.5	1350.0	969.7	604.3	502.8	499.4	492.6	490.3	493.1	488.6	490.8
35°	1583.7	1346.0	898.5	541.0	486.3	483.4	479.4	478.9	479.4	475.5	472.0
37.5°	1594.0	1364.8	816.9	511.9	476.0	478.9	469.8	468.6	458.3	460.6	462.3
40°	1611.6	1335.7	750.8	484.0	469.8	464.0	456.1	454.4	447.5	443.5	447.5
42.5°	1586.0	1327.2	685.8	472.0	460.6	454.4	448.7	439.0	436.7	433.3	431.0
45°	1565.5	1278.1	627.7	457.2	449.8	446.4	435.5	425.3	416.7	420.2	415.0
47.5°	1580.8	1261.0	570.1	444.7	435.0	431.0	420.2	412.2	403.6	399.6	398.5
50°	1642.4	1293.0	521.6	435.5	422.4	420.2	405.9	396.8	388.8	385.9	387.1
52.5°	1789.5	1380.2	488.6	416.7	410.5	400.2	392.2	380.8	375.7	366.6	372.3
55°	1975.9	1522.1	480.0	399.1	395.6	386.5	375.7	367.1	357.4	350.0	348.3
56°	2035.8	1590.0	473.2	392.2	386.5	381.4	367.1	362.0	346.6	344.9	343.8
57.5°	2084.2	1649.8	474.3	379.1	373.4	368.8	360.3	347.8	337.5	331.2	334.1
60°	1974.8	1544.4	452.6	359.2	358.0	349.5	337.5	331.8	319.2	311.8	310.1
62.5°	1468.0	1048.4	367.1	333.5	332.9	323.8	310.1	303.9	301.6	291.3	291.3
65°	845.4	657.3	317.5	312.4	307.8	298.7	285.0	279.9	274.2	270.8	267.9
67.5°	360.9	340.9	288.5	287.9	282.8	271.4	257.7	249.7	242.3	235.4	238.9
70°	261.7	265.7	260.5	257.7	251.4	237.2	225.2	215.5	204.1	199.5	203.0
72.5°	207.5	216.1	223.5	224.0	216.6	200.1	187.0	173.9	161.3	155.1	157.9
75°	157.3	163.0	170.5	172.2	161.3	149.9	137.4	123.7	114.0	106.6	107.7
77.5°	113.4	112.3	119.1	118.0	112.9	104.9	93.5	81.0	70.1	63.3	63.8
80°	77.5	79.2	83.2	82.7	76.4	71.3	62.7	52.4	44.5	38.8	37.6
82.5°	54.2	57.0	60.4	57.6	52.4	47.3	41.0	33.6	27.4	22.8	21.7
85°	19.4	22.2	25.7	27.4	29.1	27.9	23.4	18.8	13.7	11.4	10.8
87.5°	4.0	4.6	5.1	5.1	5.1	4.6	4.0	4.0	3.4	1.7	1.7
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)