

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: P450518

Luminaire Tested: **GALN-SA1B-750-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450518
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-750-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5707 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

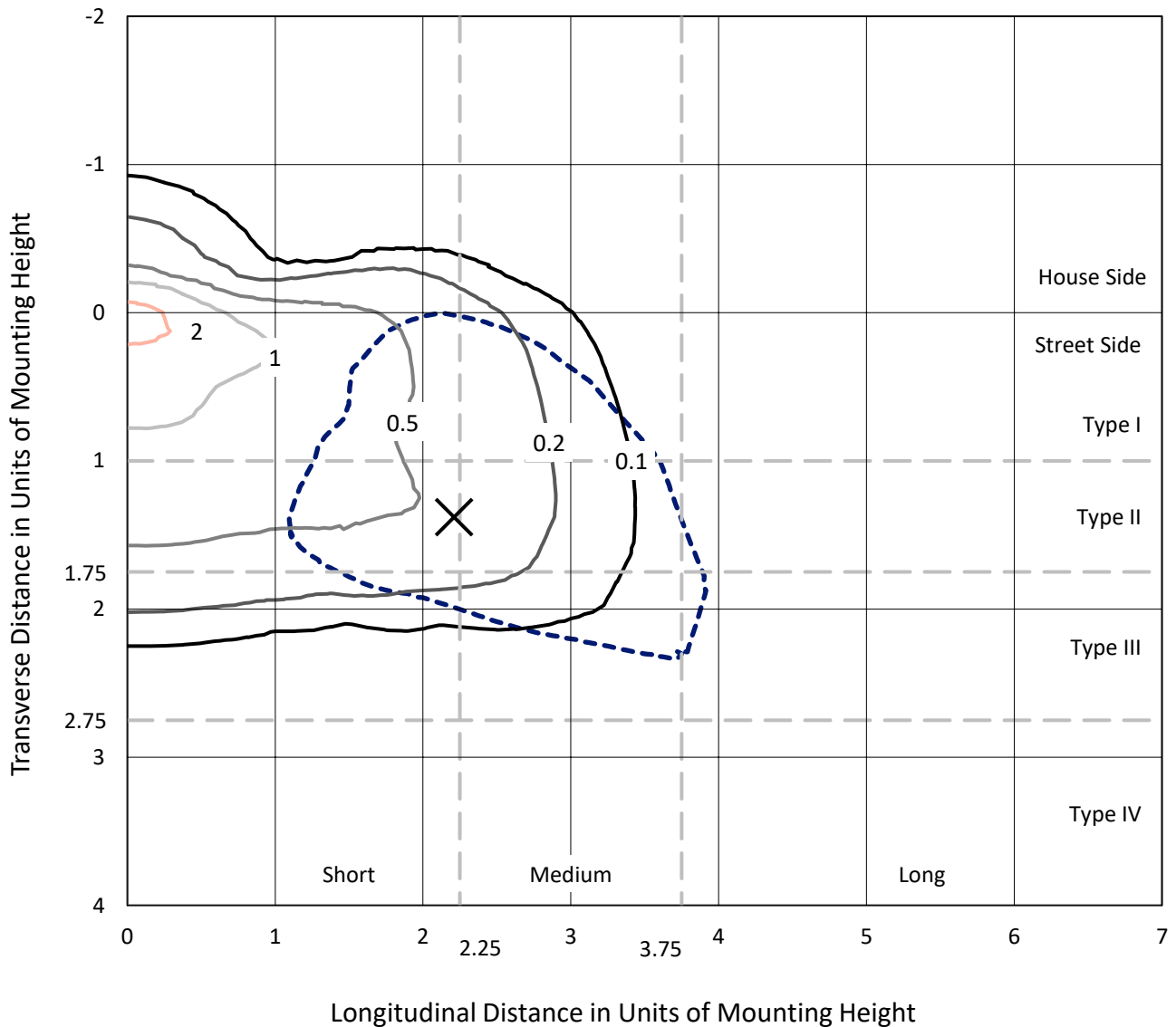
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

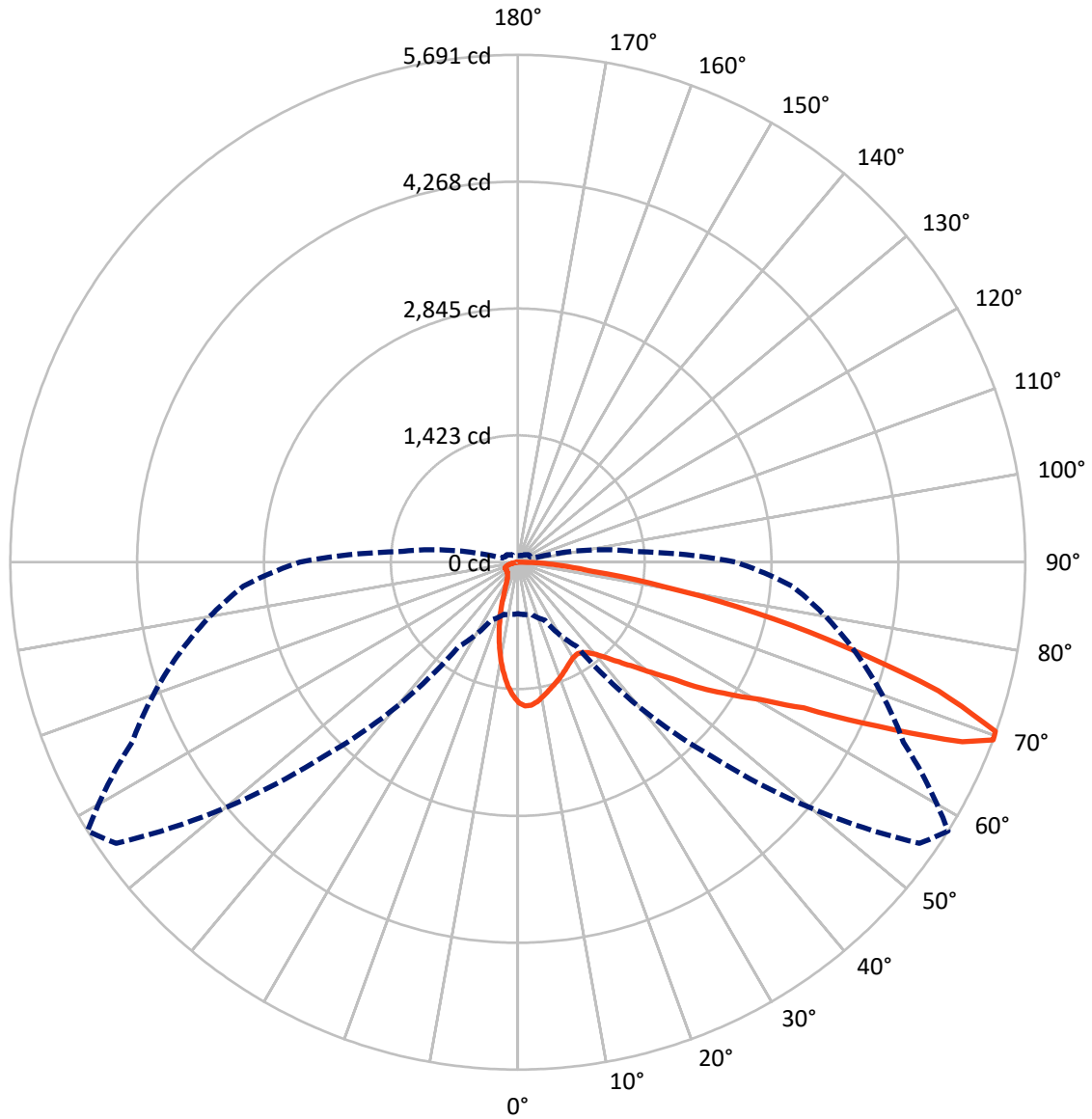
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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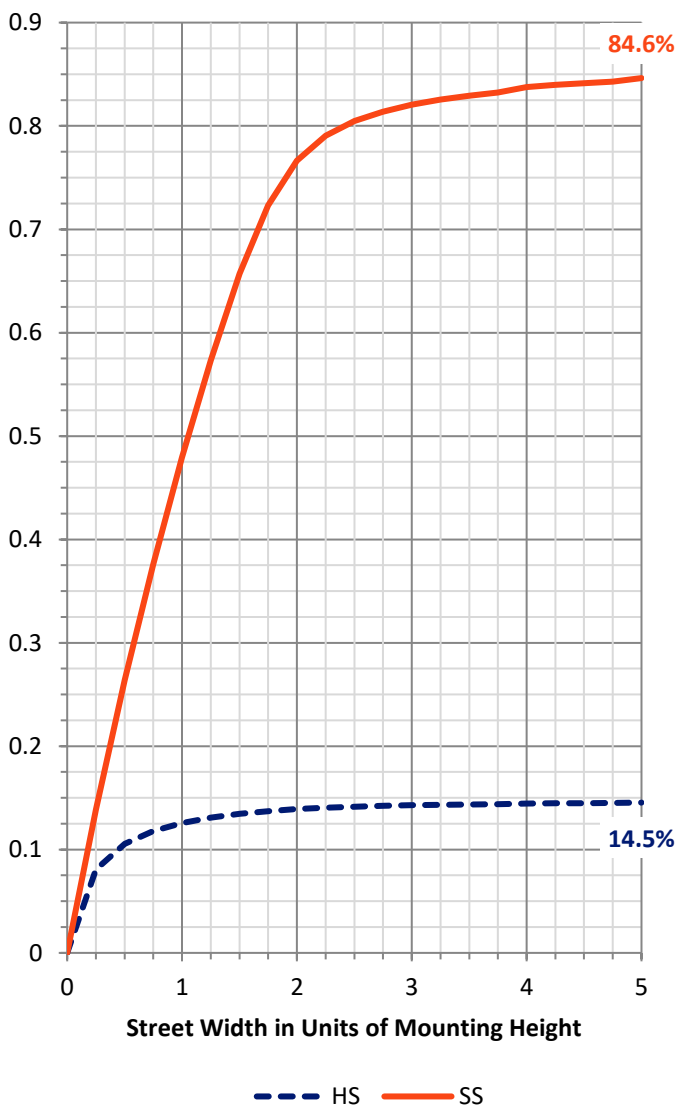
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	836.4	0.0	836.4
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	4870.6	0.0	4870.6
	% Fixture	85.3	0.0	85.3
Total	Lumens	5707.0	0.0	5707.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.9	2.3
10°-20°	294.1	5.2
20°-30°	380.0	6.7
30°-40°	493.5	8.6
40°-50°	717.5	12.6
50°-60°	1144.9	20.1
60°-70°	1529.4	26.8
70°-80°	881.6	15.4
80°-90°	132.0	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°	5707.0	100.0
0°-180°	5707.0	100.0



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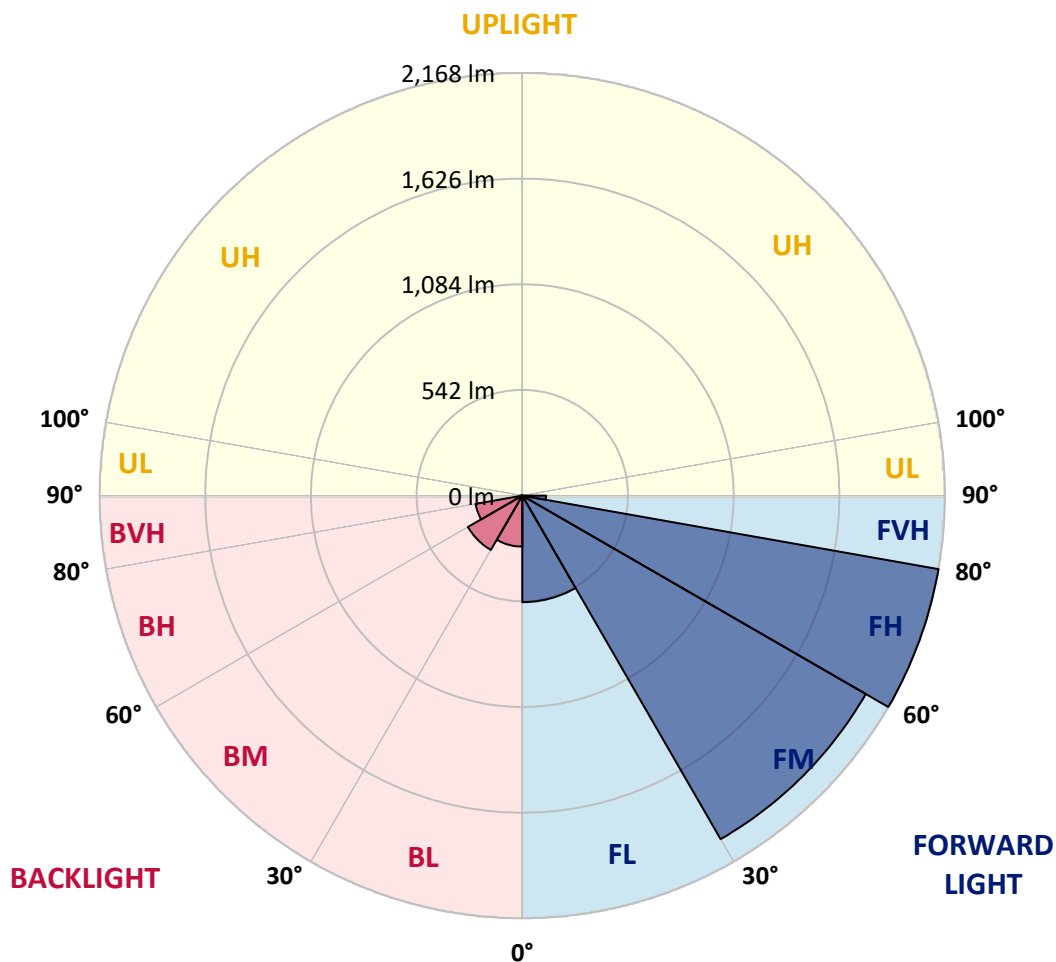
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	546.6	9.6			
FM (30°-60°)	2034.2	35.6			
FH (60°-80°)	2167.9	38.0			G2/5000
FVH (80°-90°)	121.9	2.1			G2/225
BL (0°-30°)	261.4	4.6	B1/500		
BM (30°-60°)	321.6	5.6	B1/1000		
BH (60°-80°)	243.2	4.3	B1/500		G1/500
BVH (80°-90°)	10.1	0.2			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1577.1	1577.1	1577.1	1577.1	1577.1	1577.1	1577.1	1577.1	1577.1	1577.1	1577.1
2.5°	1635.6	1640.1	1638.8	1637.2	1634.7	1627.7	1616.2	1614.3	1607.0	1591.4	1572.0
5°	1610.5	1614.3	1614.6	1616.9	1620.0	1618.8	1610.5	1609.5	1598.7	1577.7	1545.3
7.5°	1524.2	1529.3	1540.5	1552.9	1564.0	1574.5	1577.1	1578.7	1572.0	1547.8	1504.5
10°	1427.2	1432.3	1437.4	1455.8	1483.2	1509.3	1530.9	1533.8	1535.4	1513.1	1460.3
12.5°	1319.6	1330.1	1340.9	1368.3	1404.9	1445.9	1484.1	1490.2	1501.0	1484.1	1422.1
15°	1228.2	1239.1	1254.7	1279.2	1323.4	1382.6	1436.4	1446.3	1467.6	1459.0	1386.4
17.5°	1164.9	1168.7	1179.5	1207.6	1255.3	1317.7	1389.6	1409.3	1443.4	1441.2	1355.9
20°	1114.9	1119.7	1126.4	1143.6	1193.2	1259.1	1346.0	1371.5	1417.6	1425.3	1325.6
22.5°	1093.9	1097.4	1096.5	1105.7	1139.4	1205.6	1301.8	1332.0	1394.7	1414.4	1297.6
25°	1095.2	1098.4	1093.6	1091.4	1111.4	1158.5	1255.6	1294.1	1376.2	1407.1	1272.2
27.5°	1116.5	1118.8	1109.8	1100.9	1102.5	1129.3	1217.4	1260.1	1360.6	1410.3	1250.8
30°	1145.2	1149.3	1143.6	1132.8	1121.0	1122.3	1192.9	1234.9	1353.3	1421.4	1240.7
32.5°	1182.1	1185.9	1183.4	1174.8	1159.5	1142.6	1186.9	1225.7	1354.0	1444.0	1238.4
35°	1220.9	1228.6	1232.7	1232.1	1219.7	1190.4	1210.7	1242.9	1369.2	1481.9	1251.5
37.5°	1264.8	1271.2	1289.0	1300.5	1289.0	1255.0	1264.5	1286.8	1403.0	1536.7	1280.1
40°	1307.5	1317.0	1343.1	1378.8	1374.3	1344.4	1346.6	1361.3	1462.5	1618.1	1336.1
42.5°	1352.1	1363.5	1409.0	1461.9	1472.4	1449.1	1455.2	1468.2	1547.2	1731.1	1432.3
45°	1409.3	1423.0	1479.1	1544.9	1586.3	1572.0	1589.2	1595.5	1660.5	1878.2	1558.9
47.5°	1483.2	1499.1	1568.2	1650.3	1708.8	1721.9	1751.8	1748.0	1800.8	2052.3	1723.2
50°	1607.6	1616.5	1681.8	1765.5	1846.0	1904.9	1937.4	1943.4	1974.9	2221.6	1906.8
52.5°	1755.6	1763.6	1810.7	1883.9	1984.8	2109.6	2189.8	2170.0	2177.7	2427.8	2121.7
55°	1922.1	1935.5	1965.4	2014.1	2144.9	2328.5	2489.6	2494.4	2409.7	2625.2	2327.6
57.5°	2051.0	2073.6	2124.8	2194.2	2360.1	2572.0	2788.5	2791.6	2683.4	2835.9	2554.8
60°	1986.1	2012.8	2129.9	2298.9	2642.4	2996.9	3145.6	3127.4	2949.8	3075.9	2832.1
62.5°	1706.0	1710.8	1881.0	2145.2	2729.3	3565.4	3677.1	3600.4	3305.3	3380.1	3113.7
65°	1104.1	1135.3	1270.3	1640.4	2443.8	3880.8	4608.4	4431.1	3803.8	3725.5	3349.6
67.5°	697.0	689.1	745.1	936.7	1680.8	3602.9	5403.1	5375.1	4455.6	3943.5	3293.3
69°	578.0	586.9	606.0	718.0	1156.6	3076.2	5497.0	5690.5	4771.7	3926.3	3088.6
70°	524.2	528.3	548.4	636.6	892.5	2576.5	5343.0	5681.9	4895.8	3854.4	2940.3
72.5°	416.0	415.7	450.0	529.6	667.1	1470.8	4387.2	4933.0	4757.0	3519.5	2429.4
75°	316.1	321.1	359.0	448.1	614.6	803.7	3061.5	3799.0	3799.3	2779.9	1516.0
77.5°	227.9	231.1	275.3	376.2	579.0	651.5	2039.2	2724.8	2561.5	1273.8	476.5
80°	149.3	151.2	184.9	297.9	522.0	614.6	1209.1	1667.8	1208.2	338.0	157.5
82.5°	81.8	91.3	113.0	192.9	418.9	567.8	734.9	844.1	453.2	150.5	82.1
85°	41.1	43.6	63.7	112.7	273.7	469.8	511.8	484.1	233.9	74.8	42.6
87.5°	12.1	15.3	26.4	43.6	111.1	244.8	284.9	255.6	90.1	27.1	8.9
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°	1577.1	1577.1	1577.1	1577.1	1577.1	1577.1	1577.1	1577.1	1577.1	1577.1	1577.1
2.5°	1564.0	1558.3	1532.8	1509.9	1488.9	1466.6	1447.9	1431.3	1432.9	1433.2	1416.3
5°	1528.4	1515.3	1467.0	1421.8	1383.6	1335.2	1293.8	1267.1	1253.7	1235.9	1242.2
7.5°	1480.0	1454.9	1387.7	1312.6	1242.2	1179.5	1111.4	1064.6	1034.7	1005.8	1009.6
10°	1430.0	1389.6	1291.9	1192.6	1101.6	1001.3	914.4	839.9	784.6	763.9	750.2
12.5°	1378.8	1325.6	1201.5	1069.4	943.7	823.7	700.5	620.6	559.5	527.1	531.2
15°	1332.0	1267.4	1107.3	946.2	783.0	640.1	517.2	441.1	398.5	389.6	394.7
17.5°	1288.7	1204.1	1019.1	826.6	635.9	480.0	388.6	345.7	328.5	323.7	323.4
20°	1244.2	1150.3	920.1	698.6	495.6	372.1	318.9	298.9	295.7	297.6	297.9
22.5°	1199.0	1083.7	818.3	571.6	394.7	304.3	278.8	273.4	275.9	280.4	281.0
25°	1157.3	1025.2	720.3	460.2	315.1	267.4	254.9	254.9	260.7	267.4	267.7
27.5°	1122.9	968.5	622.6	365.4	263.9	240.6	236.5	238.7	246.7	251.8	252.1
30°	1094.6	915.7	530.3	292.8	232.0	219.3	218.3	222.2	227.9	232.7	233.0
32.5°	1073.2	869.2	444.0	246.0	210.1	203.1	202.7	205.6	208.8	210.1	211.3
35°	1065.0	830.7	365.1	216.4	195.4	191.0	191.0	190.7	191.9	192.6	193.2
37.5°	1071.7	801.1	304.0	197.3	184.6	181.4	179.5	177.6	177.0	177.0	177.3
40°	1100.0	785.5	258.4	184.9	177.0	172.2	168.7	166.5	164.2	164.9	165.5
42.5°	1160.1	788.4	227.6	176.6	170.3	163.6	158.5	156.0	154.4	156.3	156.0
45°	1255.9	817.0	207.8	170.9	163.6	155.0	150.2	147.7	147.7	150.5	151.5
47.5°	1389.9	871.8	197.3	166.5	158.5	148.3	143.5	141.6	142.3	147.0	147.4
50°	1553.5	966.9	195.4	164.2	156.0	143.5	138.1	136.2	137.8	142.9	143.5
52.5°	1734.0	1089.5	204.7	164.6	153.7	140.7	133.7	130.8	132.4	136.5	137.8
55°	1947.9	1242.9	228.5	165.8	150.5	139.1	130.5	124.1	126.0	128.9	129.2
57.5°	2166.2	1436.4	270.5	166.1	148.0	136.2	125.1	116.8	116.8	118.7	119.7
60°	2432.9	1647.1	325.9	166.5	148.3	132.1	117.8	108.5	107.3	108.2	108.5
62.5°	2697.7	1823.4	335.1	165.5	151.5	127.9	109.8	100.3	98.0	97.7	97.1
65°	2814.6	1790.6	274.7	161.1	155.0	125.4	103.4	92.3	88.5	87.2	87.2
67.5°	2624.2	1514.7	206.6	155.0	152.8	122.9	97.4	85.6	81.2	78.6	78.6
69°	2445.4	1347.3	185.6	150.9	147.0	118.7	93.6	82.1	76.7	73.8	72.9
70°	2307.2	1232.1	176.6	147.4	141.6	113.9	90.7	79.6	73.5	70.3	69.7
72.5°	1841.3	966.6	154.7	134.0	120.6	95.8	80.5	71.6	65.9	62.4	61.4
75°	1061.1	523.9	128.3	116.5	97.1	74.5	68.1	62.4	57.9	54.7	53.8
77.5°	326.6	202.4	92.9	92.0	71.3	57.6	54.4	52.2	49.0	45.5	44.9
80°	137.5	103.1	63.0	62.1	47.4	40.1	39.1	38.8	37.6	34.7	33.7
82.5°	75.4	58.2	43.9	38.2	28.6	23.2	24.2	24.5	23.6	20.7	18.8
85°	36.9	31.8	21.3	17.2	13.0	8.3	8.0	9.5	8.9	6.4	7.0
87.5°	7.3	8.9	5.7	2.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0
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)