

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: P450893

Luminaire Tested: **GALN-SA1D-727-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450893
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-SA1D-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6534 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

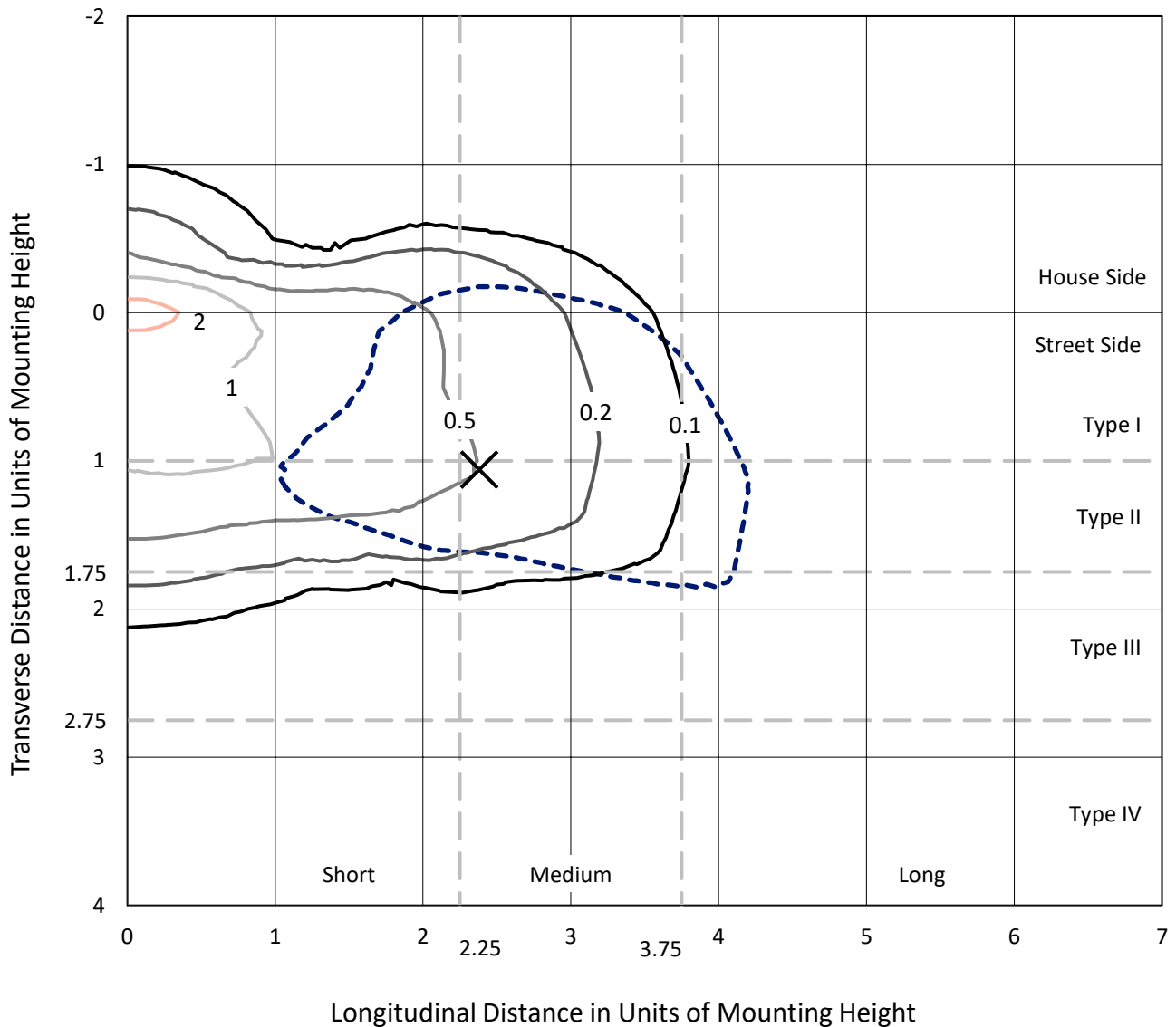
Input Watts (W): 65
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

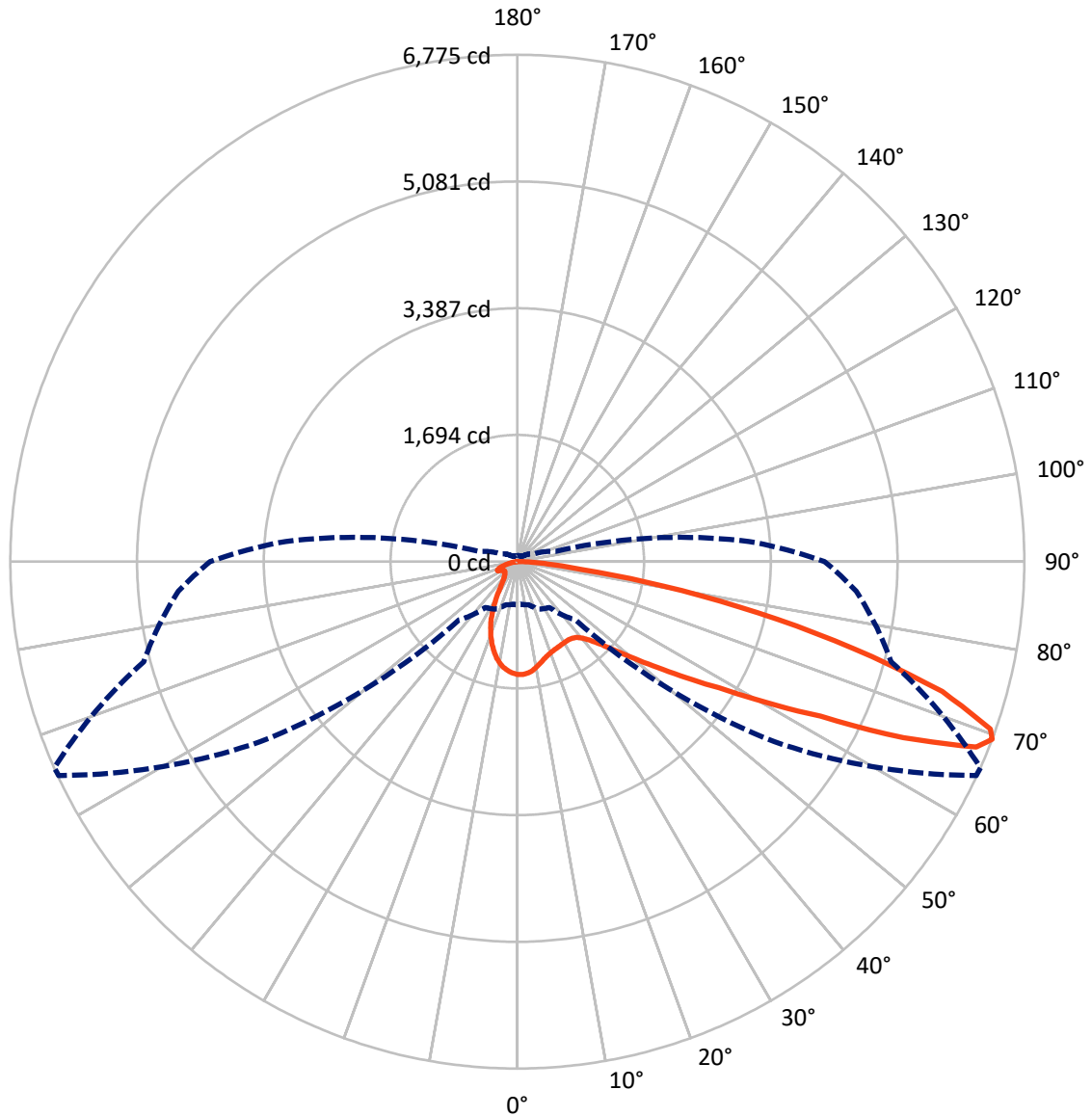
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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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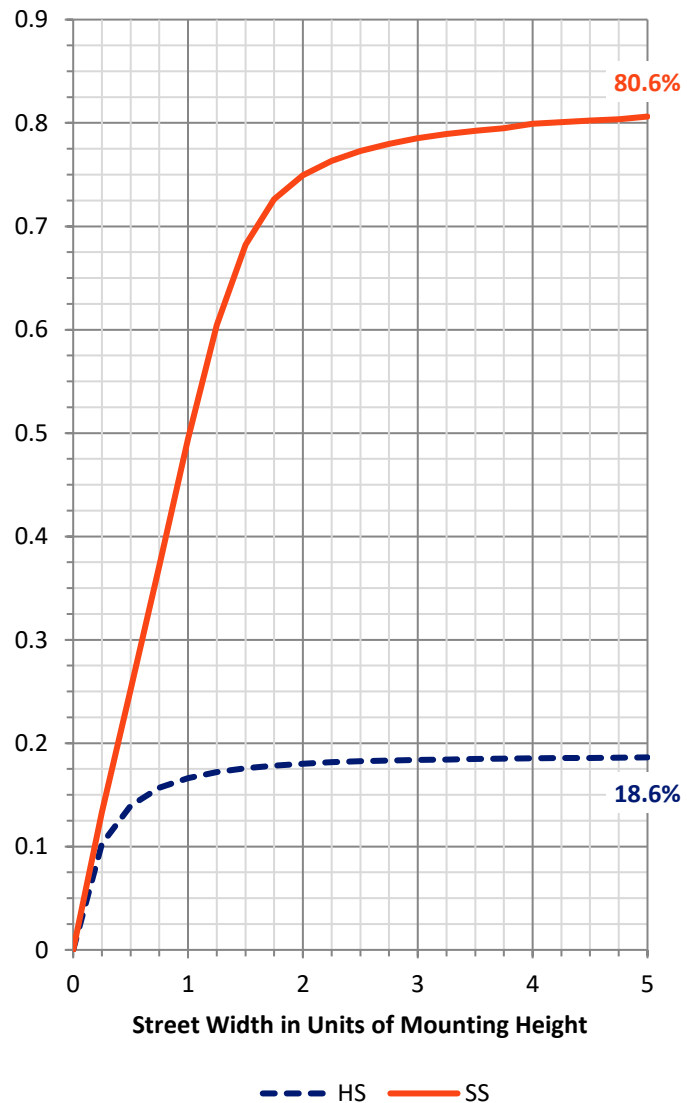
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1228.8	0.0	1228.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	5305.2	0.0	5305.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	6534.0	0.0	6534.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.0	2.0
10°-20°	310.8	4.8
20°-30°	423.1	6.5
30°-40°	568.6	8.7
40°-50°	849.0	13.0
50°-60°	1350.4	20.7
60°-70°	1660.9	25.4
70°-80°	1080.7	16.5
80°-90°	159.6	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°	6534.0	100.0
0°-180°	6534.0	100.0



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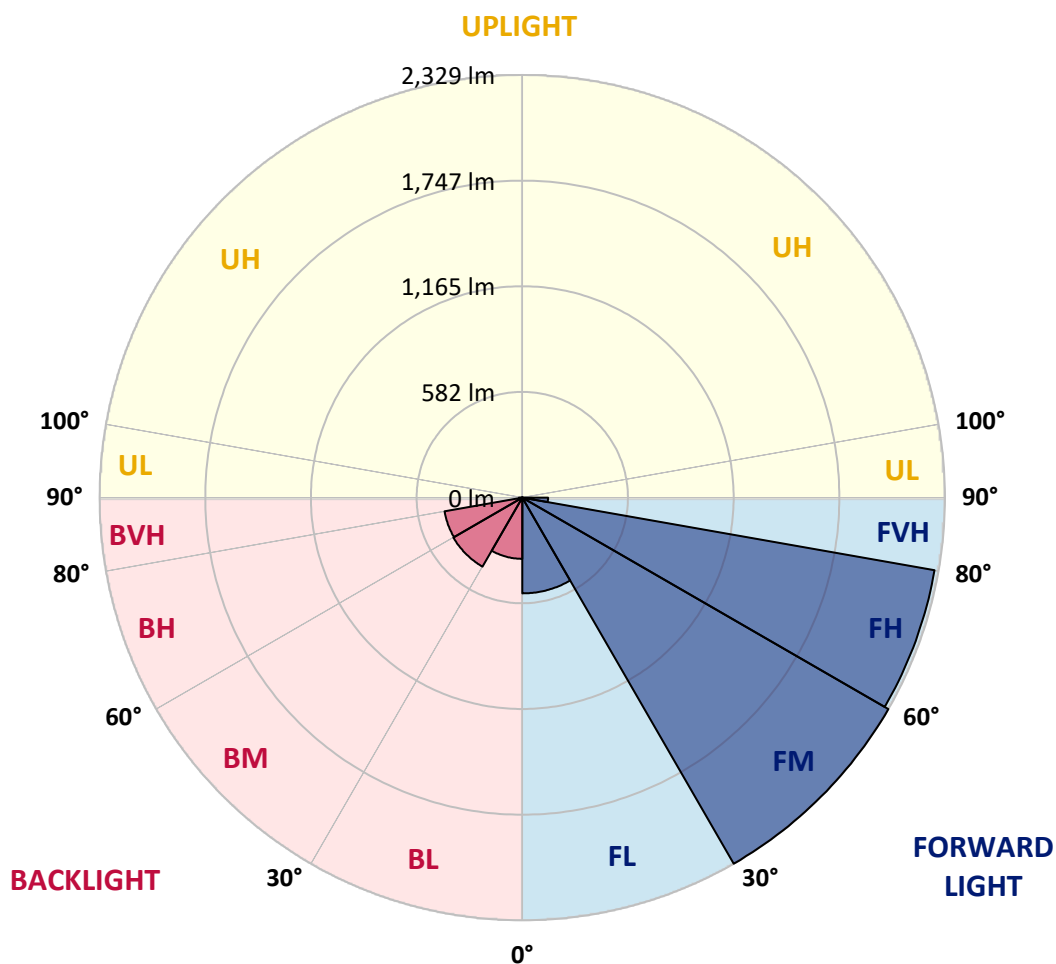
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	527.6	8.1			
FM (30°-60°)	2329.2	35.6			
FH (60°-80°)	2306.5	35.3			G2/5000
FVH (80°-90°)	141.9	2.2			G2/225
BL (0°-30°)	337.3	5.2	B1/500		
BM (30°-60°)	438.7	6.7	B1/1000		
BH (60°-80°)	435.1	6.7	B1/500		G1/500
BVH (80°-90°)	17.7	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°	1508.9	1508.9	1508.9	1508.9	1508.9	1508.9	1508.9	1508.9	1508.9	1508.9	1508.9
2.5°	1456.1	1461.8	1468.4	1475.6	1489.3	1496.9	1502.4	1508.5	1509.2	1512.5	1510.0
5°	1348.6	1355.5	1365.2	1379.0	1399.6	1431.8	1465.1	1492.2	1495.5	1510.7	1515.0
7.5°	1258.8	1262.8	1270.8	1292.9	1322.2	1358.0	1406.5	1461.5	1469.4	1505.6	1518.3
10°	1185.8	1189.7	1199.1	1221.9	1250.9	1295.8	1348.9	1421.3	1427.8	1490.1	1519.0
12.5°	1131.1	1134.7	1144.9	1167.3	1200.6	1242.6	1301.2	1377.9	1387.3	1469.4	1512.1
15°	1089.5	1096.4	1104.7	1123.2	1158.3	1198.8	1255.6	1338.1	1345.7	1447.7	1507.4
17.5°	1071.8	1075.0	1080.8	1097.8	1123.5	1163.3	1220.5	1307.0	1316.0	1432.5	1506.3
20°	1072.5	1075.8	1076.8	1086.3	1104.7	1139.1	1195.5	1282.4	1293.2	1419.1	1508.2
22.5°	1097.1	1097.5	1093.5	1090.2	1097.5	1126.1	1177.8	1263.9	1276.6	1413.4	1509.6
25°	1135.1	1141.6	1135.8	1120.6	1107.2	1121.0	1170.9	1253.8	1265.7	1405.0	1507.8
27.5°	1196.6	1197.7	1193.0	1172.4	1137.6	1127.5	1168.0	1246.2	1256.3	1398.9	1498.8
30°	1279.1	1275.9	1271.5	1248.7	1194.1	1152.5	1174.2	1239.3	1249.8	1389.8	1487.9
32.5°	1362.7	1372.8	1368.8	1342.1	1271.2	1201.0	1194.1	1238.6	1247.3	1383.0	1476.0
35°	1451.3	1456.1	1474.9	1461.1	1388.4	1279.5	1231.3	1249.8	1256.7	1383.3	1467.6
37.5°	1520.8	1533.5	1577.6	1589.6	1521.2	1383.3	1291.8	1281.6	1284.5	1401.1	1470.9
40°	1604.8	1626.5	1683.3	1732.1	1687.3	1518.3	1394.5	1340.6	1344.2	1443.8	1492.2
42.5°	1711.2	1726.3	1802.7	1868.9	1861.7	1696.7	1519.0	1437.2	1439.0	1528.8	1551.9
45°	1835.6	1857.3	1943.1	2042.6	2059.6	1898.6	1698.8	1583.4	1582.3	1660.9	1663.4
47.5°	1994.8	2008.2	2093.3	2201.8	2270.6	2152.2	1917.0	1793.3	1781.7	1853.4	1832.7
50°	2141.4	2162.4	2226.8	2345.5	2516.6	2449.3	2204.0	2065.4	2038.3	2105.2	2070.5
52.5°	2202.9	2225.0	2279.2	2426.5	2727.6	2833.6	2568.4	2390.0	2344.7	2396.1	2383.5
55°	2096.2	2124.7	2175.4	2354.5	2820.2	3276.8	3059.7	2765.2	2732.3	2710.2	2713.8
57.5°	1809.2	1836.3	1904.7	2102.3	2709.5	3598.5	3761.4	3247.5	3177.0	3075.3	3092.7
60°	1377.2	1394.2	1429.6	1648.6	2381.3	3682.1	4558.1	3857.2	3812.4	3438.9	3451.3
62.5°	978.1	997.2	1021.8	1131.1	1743.4	3446.5	5181.9	4708.7	4548.4	3815.6	3803.7
65°	794.2	781.2	810.9	861.9	1022.9	2671.1	5322.3	5890.4	5669.7	4311.7	4146.0
67.5°	653.1	639.4	668.7	759.5	778.0	1550.5	4816.5	6657.5	6613.4	4851.2	4493.7
69°	578.2	571.0	596.7	700.2	746.8	1101.1	4195.9	6764.3	6774.8	5169.3	4547.3
70°	521.1	523.9	548.9	670.1	732.7	907.9	3586.2	6617.0	6706.0	5328.1	4489.4
72.5°	383.6	389.7	424.4	555.1	719.3	770.4	2134.1	5779.7	5937.1	5337.5	4106.9
75°	268.1	265.2	296.0	417.9	679.5	763.5	1253.4	4469.8	4648.2	4613.5	3450.9
77.5°	175.5	180.2	204.8	295.3	571.7	757.7	817.0	3171.2	3287.0	3085.4	2041.2
80°	123.8	123.4	137.1	201.5	424.1	728.0	669.0	1998.8	1969.5	1212.5	605.4
82.5°	70.9	76.0	91.9	141.8	283.7	640.8	615.5	956.0	872.8	345.6	204.4
85°	39.4	41.3	54.6	85.8	165.7	482.7	537.3	434.9	410.3	144.4	87.9
87.5°	12.7	13.8	22.8	43.4	75.3	228.0	304.3	200.8	185.3	52.1	35.5
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°	1508.9	1508.9	1508.9	1508.9	1508.9	1508.9	1508.9	1508.9	1508.9	1508.9	1508.9
2.5°	1511.1	1515.4	1503.8	1492.6	1482.5	1468.4	1455.7	1445.2	1438.0	1436.9	1433.3
5°	1516.1	1516.5	1494.4	1464.7	1435.8	1403.9	1371.0	1347.5	1325.4	1313.1	1307.0
7.5°	1519.7	1516.5	1476.7	1428.6	1372.8	1314.9	1257.0	1210.7	1174.9	1160.8	1166.2
10°	1518.3	1508.2	1449.9	1372.8	1291.8	1205.3	1122.1	1056.9	997.2	966.5	967.2
12.5°	1510.3	1493.7	1410.1	1310.2	1191.2	1075.4	948.0	860.1	791.0	750.1	737.4
15°	1503.5	1474.5	1363.4	1225.2	1077.2	911.8	756.6	648.1	590.2	558.0	557.6
17.5°	1496.2	1456.1	1312.4	1135.1	946.2	733.5	570.6	487.8	460.6	463.9	458.5
20°	1488.6	1434.3	1259.2	1034.9	786.6	547.1	427.3	393.7	401.3	416.1	418.3
22.5°	1479.9	1411.2	1202.0	924.5	618.8	411.8	346.6	341.6	361.1	384.3	387.5
25°	1466.5	1382.2	1130.0	809.1	477.3	331.8	303.6	307.2	326.4	345.9	348.1
27.5°	1447.7	1346.4	1057.3	665.1	358.6	284.8	277.5	282.2	291.6	303.6	306.5
30°	1422.4	1305.9	973.7	540.6	287.3	261.3	258.4	260.9	266.3	271.4	272.8
32.5°	1397.1	1266.8	889.4	413.9	256.2	245.7	242.8	242.8	242.8	243.5	243.9
35°	1373.6	1229.9	798.9	322.4	239.9	233.4	229.4	225.1	224.3	221.8	221.8
37.5°	1360.5	1196.3	702.7	269.9	228.0	223.3	217.8	210.6	206.6	207.0	206.3
40°	1363.1	1174.2	615.1	240.3	218.2	213.1	204.8	196.5	193.9	193.9	193.2
42.5°	1391.6	1166.9	531.2	224.7	208.8	203.0	192.5	184.9	183.5	183.1	183.8
45°	1457.5	1184.7	455.9	214.6	200.8	192.1	181.6	174.8	173.3	173.3	173.0
47.5°	1586.0	1242.2	402.0	208.1	195.0	183.8	173.0	166.1	163.6	162.8	162.8
50°	1785.7	1367.0	361.8	202.3	187.8	176.2	165.0	157.0	153.1	152.7	152.3
52.5°	2063.2	1561.7	346.3	197.9	179.8	168.3	156.0	148.4	143.3	142.2	141.5
55°	2387.8	1833.5	367.6	194.7	171.5	159.2	146.5	138.6	133.9	131.7	131.3
57.5°	2763.8	2159.8	448.7	190.3	163.9	149.4	137.1	129.2	124.1	121.6	120.9
60°	3101.3	2495.3	590.2	187.8	157.4	138.9	126.3	119.0	114.3	111.8	111.4
62.5°	3472.2	2815.1	759.1	194.7	154.5	128.8	116.2	109.6	105.7	103.1	103.1
65°	3868.5	3135.4	871.0	217.8	158.8	120.9	105.3	99.9	96.3	94.4	94.1
67.5°	4135.5	3246.1	717.5	241.7	169.7	112.2	94.8	90.5	88.3	86.5	86.5
69°	4106.5	3106.1	529.4	247.9	173.0	107.8	89.0	85.8	82.9	82.1	81.4
70°	4015.0	2946.5	443.6	243.9	170.4	103.8	85.4	81.4	78.9	78.2	77.8
72.5°	3576.1	2555.3	330.4	212.0	145.1	90.1	75.6	72.0	69.8	68.8	68.8
75°	2971.1	2088.6	258.0	168.6	113.6	76.0	64.8	61.9	60.1	59.3	59.0
77.5°	1665.2	1166.2	185.3	132.1	86.1	61.5	54.3	51.7	49.9	49.2	49.2
80°	463.9	333.3	108.9	87.2	58.6	46.7	43.1	41.3	38.7	36.9	38.0
82.5°	174.8	144.4	62.2	52.5	37.3	31.1	30.0	28.6	27.5	25.0	25.0
85°	85.0	70.2	39.8	27.9	20.6	16.3	15.6	14.8	14.1	12.3	12.7
87.5°	29.3	31.1	17.4	10.1	6.2	4.0	3.3	1.8	1.8	1.8	1.8
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)