

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: P939242

Luminaire Tested: **GALN-SB1D-730-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939242
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-730-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10090 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 79.6
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



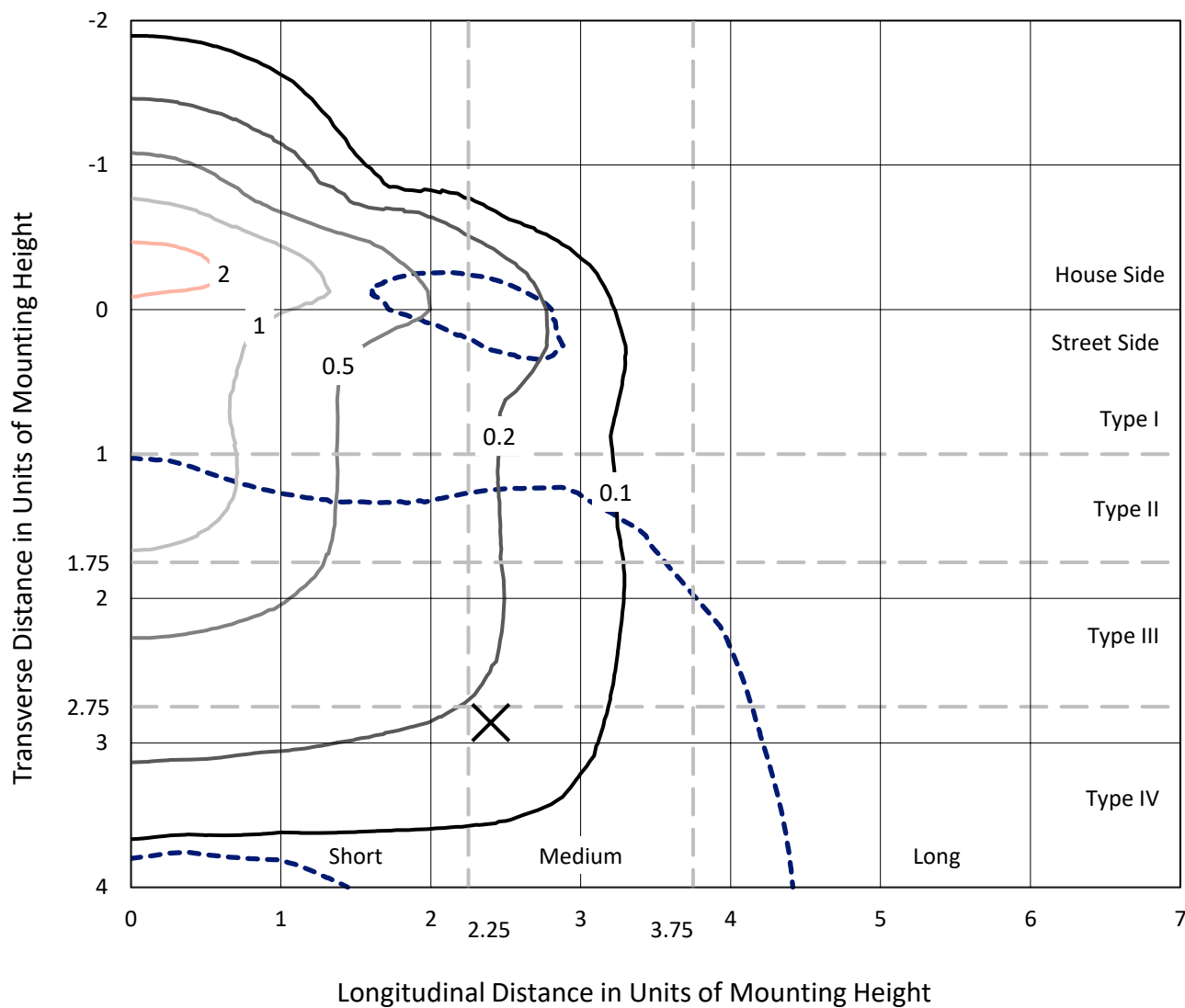
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

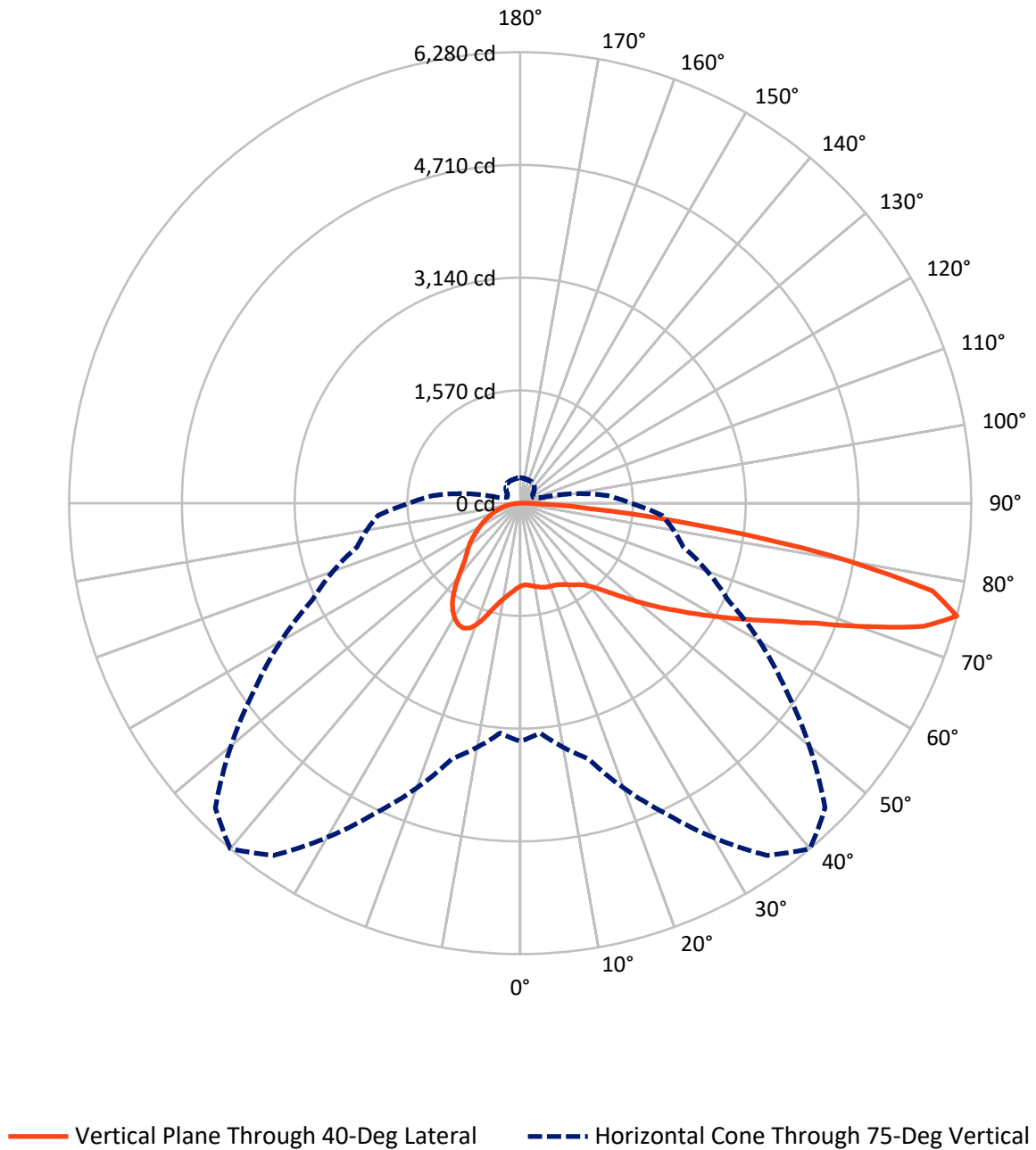


Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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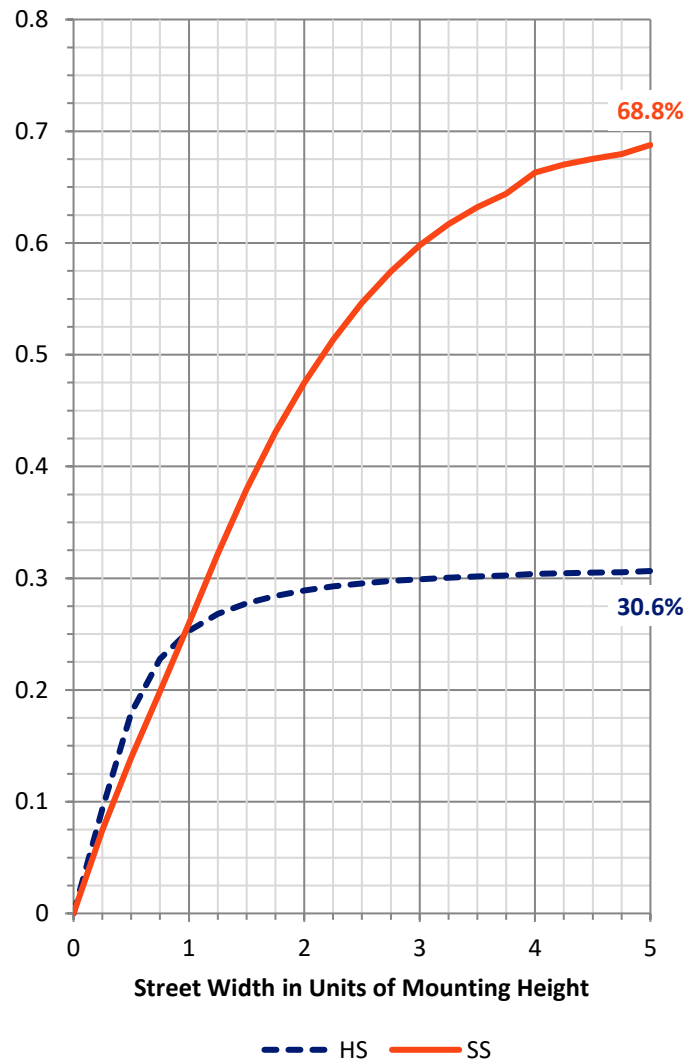
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3126.2	0.0	3126.2
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	6963.8	0.0	6963.8
	% Fixture	69.0	0.0	69.0
Total	Lumens	10090.0	0.0	10090.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.2	1.1
10°-20°	386.7	3.8
20°-30°	706.1	7.0
30°-40°	1001.4	9.9
40°-50°	1352.2	13.4
50°-60°	1819.0	18.0
60°-70°	2308.8	22.9
70°-80°	2095.3	20.8
80°-90°	305.4	3.0
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°	10090.0	100.0
0°-180°	10090.0	100.0

Coefficient of Utilization



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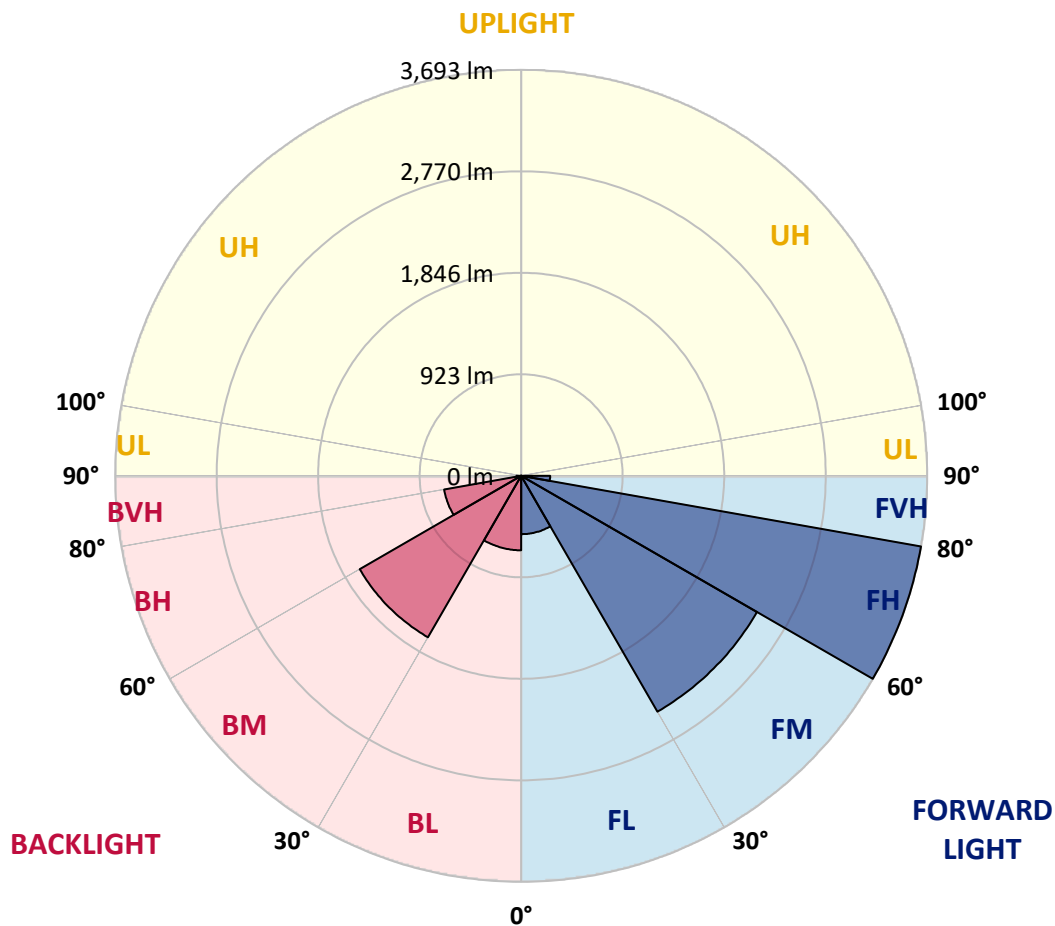
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	530.7	5.3			
FM	(30°-60°)	2476.9	24.5			
FH	(60°-80°)	3692.8	36.6			G2/5000
FVH	(80°-90°)	263.4	2.6			G3/500
BL	(0°-30°)	677.2	6.7	B2/1000		
BM	(30°-60°)	1695.7	16.8	B2/2500		
BH	(60°-80°)	711.3	7.0	B2/1000		G2/1000
BVH	(80°-90°)	42.1	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1153.8	1153.8	1153.8	1153.8	1153.8	1153.8	1153.8	1153.8	1153.8	1153.8	1153.8
2.5°	1136.1	1142.6	1141.0	1138.8	1138.8	1139.4	1138.8	1142.6	1146.3	1150.1	1155.9
5°	1147.9	1154.3	1151.1	1148.5	1146.3	1145.8	1144.2	1143.6	1145.8	1150.6	1158.6
7.5°	1170.9	1177.4	1172.5	1167.7	1163.4	1161.3	1159.2	1155.9	1154.3	1157.0	1168.3
10°	1196.6	1203.0	1197.2	1188.6	1181.6	1179.0	1176.8	1173.6	1171.5	1173.1	1185.4
12.5°	1222.3	1228.7	1220.7	1208.9	1199.8	1198.2	1195.5	1194.5	1193.9	1193.4	1205.7
15°	1246.4	1251.7	1241.6	1227.7	1218.0	1215.3	1212.7	1214.3	1217.0	1220.2	1234.1
17.5°	1265.1	1270.5	1255.5	1237.3	1228.2	1227.1	1225.5	1230.9	1238.4	1246.4	1263.5
20°	1282.2	1287.6	1268.3	1243.7	1233.0	1233.0	1233.5	1244.8	1255.5	1267.3	1290.8
22.5°	1306.3	1310.6	1287.1	1253.3	1237.8	1238.9	1243.2	1254.4	1267.8	1283.8	1316.5
25°	1342.2	1345.4	1316.5	1271.5	1253.9	1257.1	1260.8	1266.2	1279.0	1297.8	1341.6
27.5°	1400.0	1402.7	1364.7	1303.6	1276.9	1282.2	1287.6	1283.8	1289.7	1305.8	1362.0
30°	1481.3	1482.9	1434.8	1354.0	1316.0	1318.6	1319.7	1304.2	1292.9	1305.8	1376.4
32.5°	1577.7	1577.1	1519.9	1415.0	1360.4	1357.7	1348.6	1318.1	1291.9	1303.1	1389.3
35°	1727.0	1721.1	1647.2	1500.6	1410.7	1394.1	1372.7	1333.6	1297.2	1300.4	1400.5
37.5°	1974.2	1956.0	1853.8	1640.8	1485.6	1443.3	1411.8	1358.8	1309.0	1299.4	1413.9
40°	2253.0	2230.0	2117.6	1832.9	1598.0	1530.0	1479.2	1394.6	1328.3	1304.2	1433.7
42.5°	2583.8	2551.1	2430.2	2059.3	1740.3	1641.9	1565.3	1440.1	1356.6	1319.7	1460.5
45°	2989.9	2946.6	2775.3	2314.6	1919.6	1788.5	1686.3	1509.2	1400.0	1349.7	1500.6
47.5°	3400.4	3411.1	3167.6	2606.8	2134.8	1969.4	1837.7	1613.0	1463.1	1397.8	1565.3
50°	3836.6	3844.1	3557.7	2930.5	2378.8	2173.8	2007.9	1729.1	1550.9	1466.3	1662.2
52.5°	4176.9	4178.0	3912.0	3269.3	2633.0	2398.6	2191.5	1861.8	1652.6	1557.3	1791.2
55°	4389.9	4387.2	4160.3	3589.9	2925.2	2634.6	2394.8	2012.7	1776.7	1664.3	1953.3
57.5°	4544.6	4536.6	4331.6	3865.5	3236.6	2913.4	2625.0	2184.0	1923.4	1791.7	2166.9
60°	4603.4	4598.6	4447.7	4103.6	3564.2	3221.7	2890.4	2375.6	2089.8	1942.1	2441.4
62.5°	4625.9	4635.0	4561.7	4334.3	3914.7	3563.1	3182.1	2604.6	2277.1	2112.3	2730.9
65°	4705.1	4721.7	4706.7	4636.1	4310.7	3962.9	3569.0	2877.0	2481.5	2294.8	3033.3
67.5°	4861.9	4878.5	4884.9	4997.3	4794.5	4461.1	4051.7	3216.3	2720.8	2484.2	3260.7
70°	4858.2	4853.4	4966.8	5284.7	5400.3	5150.9	4702.5	3633.7	3006.0	2641.5	3289.6
72.5°	4422.0	4383.5	4651.6	5281.5	5904.4	5871.2	5497.2	4172.1	3252.2	2660.8	2854.5
75°	3317.5	3214.7	3688.3	4759.7	5988.4	6280.1	6002.4	4506.0	3193.8	2351.0	1986.5
77.5°	1418.7	1315.4	1873.6	3523.5	5359.6	5870.7	5538.9	3931.3	2549.5	1554.6	975.6
80°	371.4	370.9	566.2	1597.5	3645.0	4335.3	3803.4	2538.8	1456.7	555.5	269.2
82.5°	153.6	149.8	208.2	621.3	1781.0	2432.8	1985.4	1132.4	526.1	150.4	89.4
85°	57.3	56.7	101.1	214.6	628.3	1003.4	726.2	289.5	131.1	73.3	40.1
87.5°	16.1	15.5	21.9	74.4	153.1	232.3	124.2	47.6	36.9	28.9	11.8
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°	1153.8	1153.8	1153.8	1153.8	1153.8	1153.8	1153.8	1153.8	1153.8	1153.8	1153.8
2.5°	1157.6	1160.2	1165.0	1168.8	1173.6	1179.0	1186.4	1191.3	1196.1	1199.3	1197.2
5°	1162.4	1168.3	1180.6	1192.9	1207.3	1220.7	1236.2	1247.5	1256.6	1259.2	1260.3
7.5°	1173.1	1182.7	1203.6	1224.4	1247.5	1269.4	1291.9	1311.1	1326.7	1332.5	1333.1
10°	1191.8	1204.6	1234.1	1263.5	1294.0	1327.7	1356.6	1384.5	1406.4	1415.5	1416.0
12.5°	1215.3	1231.4	1269.9	1310.6	1352.9	1399.4	1436.9	1471.2	1498.4	1510.8	1510.8
15°	1245.9	1266.7	1316.0	1370.5	1432.6	1497.4	1545.0	1583.0	1613.5	1628.5	1627.4
17.5°	1279.0	1306.9	1368.9	1451.4	1540.2	1625.3	1680.9	1708.8	1740.3	1754.8	1754.3
20°	1311.1	1345.4	1434.2	1554.1	1672.4	1762.8	1807.8	1815.3	1817.4	1819.0	1823.3
22.5°	1344.3	1390.3	1516.1	1683.6	1810.4	1873.1	1879.5	1847.4	1802.4	1781.5	1787.4
25°	1380.7	1441.7	1623.1	1826.5	1929.3	1936.7	1887.5	1809.4	1724.3	1685.2	1691.1
27.5°	1416.0	1501.1	1751.6	1963.0	2014.9	1949.1	1843.1	1732.3	1629.6	1588.4	1593.2
30°	1451.4	1569.1	1893.4	2082.3	2053.9	1918.5	1773.0	1649.4	1546.1	1502.7	1507.5
32.5°	1487.2	1648.3	2056.6	2168.5	2047.0	1853.8	1685.8	1556.2	1465.3	1419.8	1425.7
35°	1527.9	1745.7	2211.3	2215.6	2000.4	1758.5	1570.7	1444.9	1365.7	1329.3	1337.4
37.5°	1580.9	1869.3	2347.7	2227.3	1919.1	1618.9	1427.8	1313.3	1248.0	1231.4	1243.2
40°	1646.7	2018.1	2452.1	2208.6	1798.7	1449.2	1271.5	1180.0	1143.1	1146.8	1159.7
42.5°	1732.3	2184.5	2525.4	2160.4	1631.2	1274.2	1134.5	1093.9	1111.5	1126.5	1140.4
45°	1843.6	2357.4	2570.9	2078.6	1441.7	1126.0	1053.7	1063.4	1076.7	1078.3	1089.1
47.5°	1986.0	2532.4	2600.9	1954.9	1248.5	1021.6	1002.4	1004.5	1001.8	990.6	999.1
50°	2163.7	2702.6	2627.6	1791.2	1084.2	956.3	930.6	923.2	886.2	849.8	854.7
52.5°	2365.9	2858.8	2638.9	1587.8	956.3	901.7	860.0	812.9	743.9	732.6	736.4
55°	2590.7	3003.3	2610.0	1337.9	848.8	831.6	768.5	711.8	704.3	694.6	696.2
57.5°	2859.4	3159.0	2551.1	1059.1	738.5	749.8	688.2	694.6	681.3	666.3	663.6
60°	3153.2	3320.1	2447.8	804.9	624.5	647.5	667.3	666.8	663.1	650.8	646.5
62.5°	3417.5	3426.1	2244.5	616.5	524.5	568.3	622.4	621.9	618.6	611.7	609.0
65°	3574.9	3410.0	1905.2	485.4	442.0	503.1	561.4	565.7	566.2	565.7	565.7
67.5°	3547.0	3222.2	1439.6	386.4	374.1	436.7	500.9	506.8	511.1	512.1	513.2
70°	3232.4	2809.6	938.7	308.3	313.6	378.4	443.6	449.5	453.3	457.6	459.7
72.5°	2519.5	2065.7	537.3	249.4	260.6	328.1	386.9	393.9	396.0	404.0	407.3
75°	1535.4	1214.8	290.1	196.4	214.1	280.4	330.7	338.8	342.5	352.1	353.2
77.5°	730.0	526.1	165.4	153.1	172.3	229.0	279.4	288.5	278.3	283.6	279.4
80°	246.7	195.3	104.4	116.7	131.6	178.7	223.7	232.8	211.4	210.3	208.2
82.5°	86.2	79.2	66.4	77.6	85.1	127.9	169.1	180.9	157.3	156.8	149.3
85°	33.7	32.1	36.9	42.3	50.8	78.7	111.3	117.2	96.9	78.1	77.1
87.5°	7.0	7.5	9.1	9.6	15.5	27.3	40.1	49.2	39.1	33.2	30.5
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)