

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: P939232

Luminaire Tested: **GALN-SB1D-727-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939232
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-727-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9359 lumens
Efficiency: N/A
Efficacy: 117.6 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

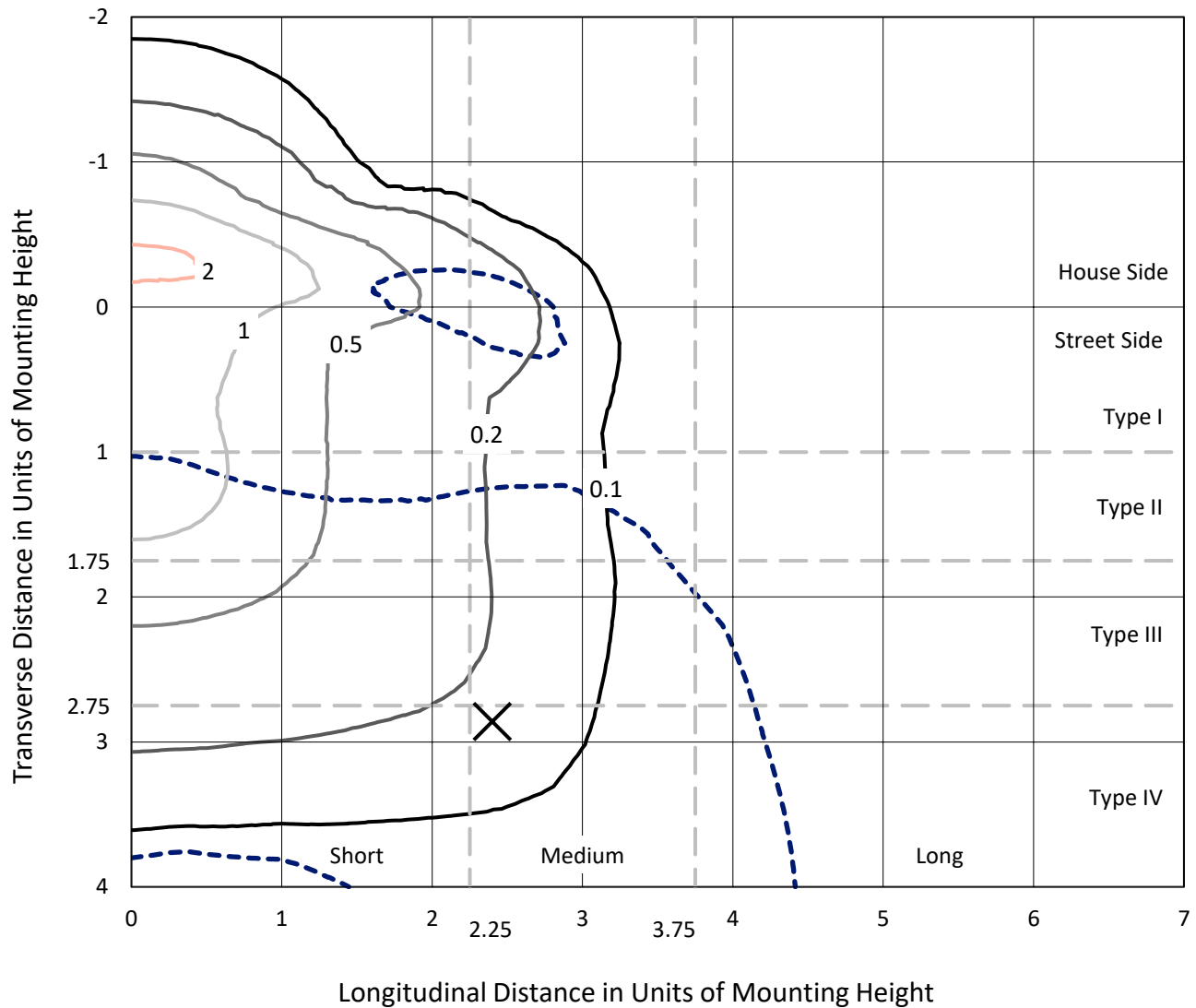


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

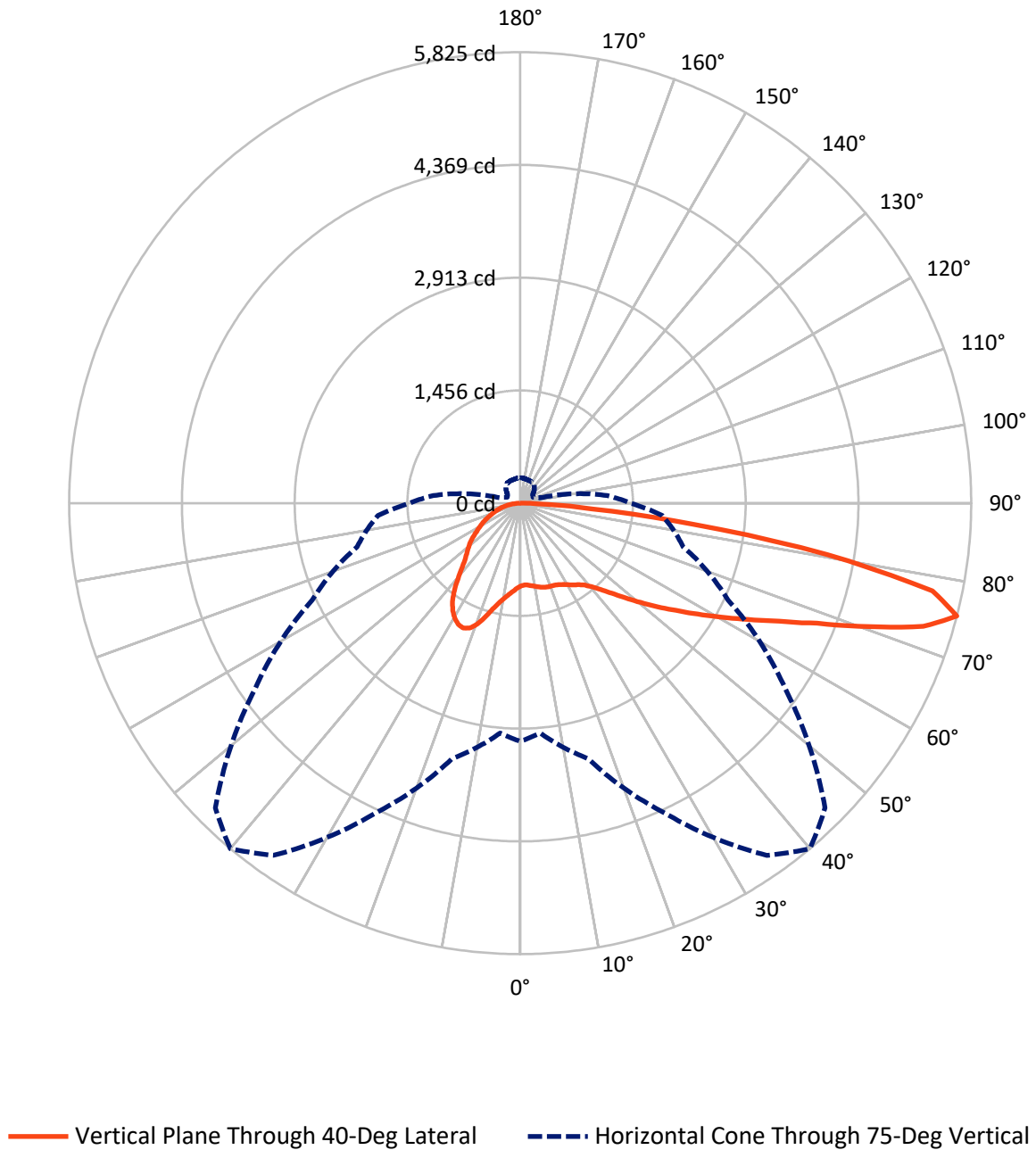


Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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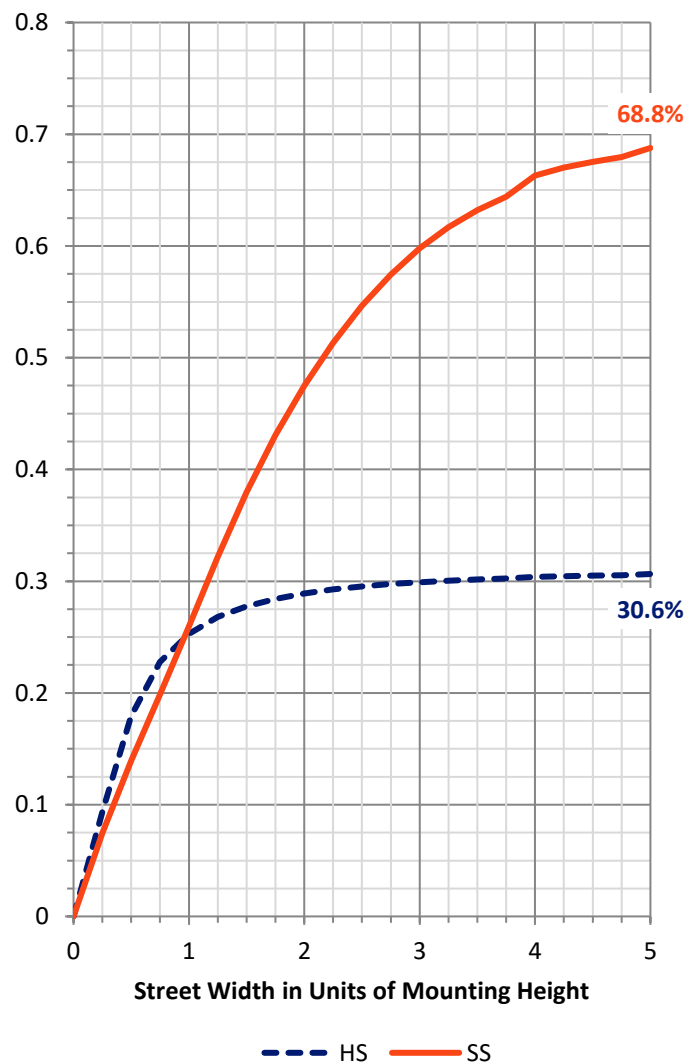
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2899.7	0.0	2899.7
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	6459.3	0.0	6459.3
	% Fixture	69.0	0.0	69.0
Total	Lumens	9359.0	0.0	9359.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.8	1.1
10°-20°	358.7	3.8
20°-30°	654.9	7.0
30°-40°	928.8	9.9
40°-50°	1254.2	13.4
50°-60°	1687.2	18.0
60°-70°	2141.5	22.9
70°-80°	1943.5	20.8
80°-90°	283.3	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°	9359.0	100.0
0°-180°	9359.0	100.0

Coefficient of Utilization



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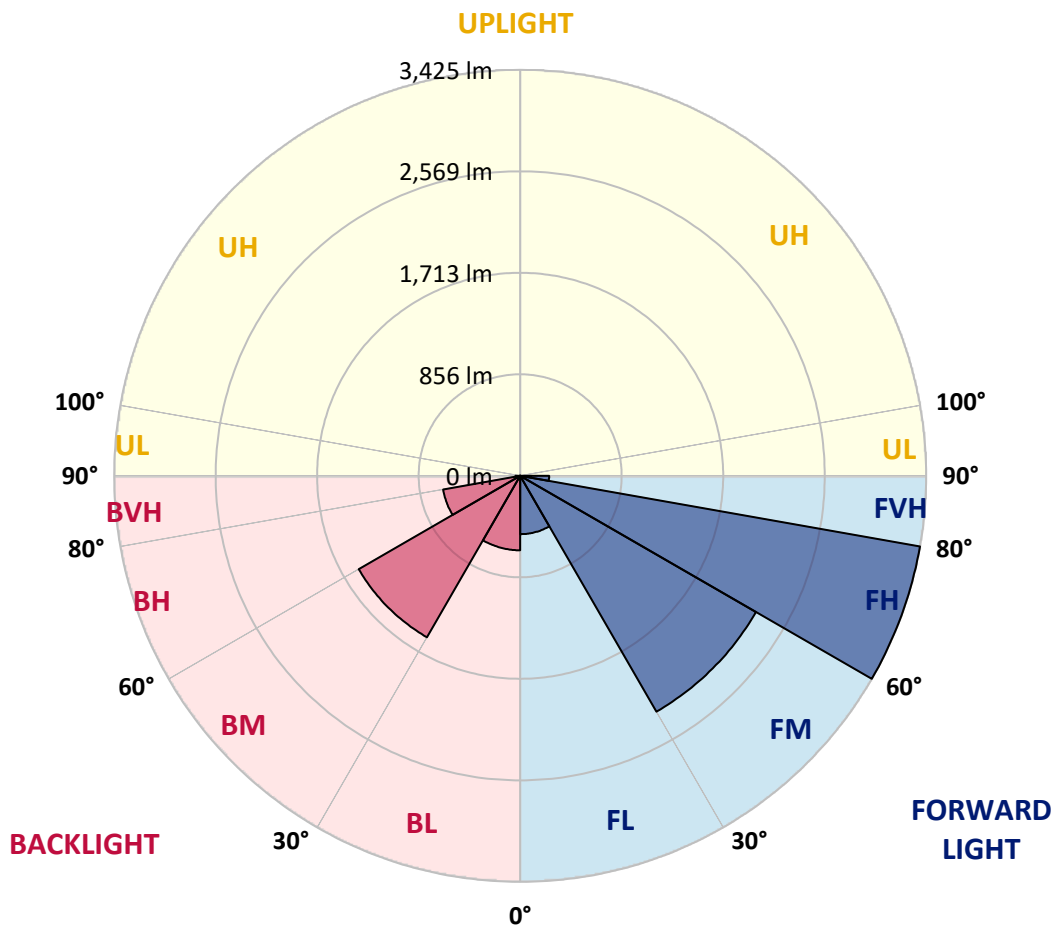
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	492.3	5.3			
FM	(30°-60°)	2297.4	24.5			
FH	(60°-80°)	3425.2	36.6			G2/5000
FVH	(80°-90°)	244.3	2.6			G3/500
BL	(0°-30°)	628.1	6.7	B2/1000		
BM	(30°-60°)	1572.8	16.8	B2/2500		
BH	(60°-80°)	659.8	7.0	B2/1000		G2/1000
BVH	(80°-90°)	39.0	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°	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2
2.5°	1053.8	1059.8	1058.3	1056.3	1056.3	1056.8	1056.3	1059.8	1063.3	1066.7	1072.2
5°	1064.8	1070.7	1067.7	1065.3	1063.3	1062.8	1061.3	1060.8	1062.8	1067.2	1074.7
7.5°	1086.1	1092.1	1087.6	1083.1	1079.1	1077.2	1075.2	1072.2	1070.7	1073.2	1083.6
10°	1109.9	1115.9	1110.4	1102.5	1096.0	1093.5	1091.6	1088.6	1086.6	1088.1	1099.5
12.5°	1133.8	1139.7	1132.3	1121.3	1112.9	1111.4	1108.9	1107.9	1107.4	1106.9	1118.4
15°	1156.1	1161.1	1151.6	1138.7	1129.8	1127.3	1124.8	1126.3	1128.8	1131.8	1144.7
17.5°	1173.5	1178.4	1164.5	1147.7	1139.2	1138.2	1136.7	1141.7	1148.6	1156.1	1172.0
20°	1189.3	1194.3	1176.4	1153.6	1143.7	1143.7	1144.2	1154.6	1164.5	1175.4	1197.3
22.5°	1211.7	1215.7	1193.8	1162.5	1148.1	1149.1	1153.1	1163.5	1175.9	1190.8	1221.1
25°	1244.9	1247.9	1221.1	1179.4	1163.0	1166.0	1169.5	1174.5	1186.4	1203.7	1244.4
27.5°	1298.6	1301.0	1265.8	1209.2	1184.4	1189.3	1194.3	1190.8	1196.3	1211.2	1263.3
30°	1374.0	1375.5	1330.8	1255.9	1220.6	1223.1	1224.1	1209.7	1199.3	1211.2	1276.7
32.5°	1463.4	1462.9	1409.7	1312.5	1261.8	1259.3	1250.9	1222.6	1198.3	1208.7	1288.6
35°	1601.8	1596.4	1527.9	1391.9	1308.5	1293.1	1273.2	1237.0	1203.2	1206.2	1299.0
37.5°	1831.2	1814.3	1719.5	1521.9	1378.0	1338.8	1309.5	1260.3	1214.2	1205.2	1311.5
40°	2089.8	2068.5	1964.2	1700.1	1482.2	1419.2	1372.0	1293.6	1232.0	1209.7	1329.8
42.5°	2396.6	2366.3	2254.1	1910.1	1614.3	1522.9	1451.9	1335.8	1258.3	1224.1	1354.6
45°	2773.3	2733.1	2574.3	2146.9	1780.5	1658.9	1564.1	1399.8	1298.6	1251.9	1391.9
47.5°	3154.1	3164.0	2938.1	2417.9	1980.1	1826.7	1704.6	1496.1	1357.1	1296.6	1451.9
50°	3558.6	3565.6	3300.0	2718.2	2206.4	2016.3	1862.5	1603.8	1438.5	1360.1	1541.8
52.5°	3874.3	3875.3	3628.6	3032.4	2442.2	2224.8	2032.7	1726.9	1532.8	1444.5	1661.4
55°	4071.9	4069.4	3858.9	3329.8	2713.3	2443.7	2221.3	1866.9	1648.0	1543.8	1811.8
57.5°	4215.3	4207.9	4017.8	3585.4	3002.2	2702.3	2434.8	2025.8	1784.0	1661.9	2009.9
60°	4269.9	4265.5	4125.5	3806.3	3305.9	2988.3	2681.0	2203.5	1938.4	1801.4	2264.5
62.5°	4290.8	4299.2	4231.2	4020.3	3631.1	3305.0	2951.5	2415.9	2112.1	1959.2	2533.1
65°	4364.2	4379.6	4365.7	4300.2	3998.4	3675.8	3310.4	2668.6	2301.8	2128.5	2813.5
67.5°	4509.7	4525.1	4531.0	4635.3	4447.1	4137.9	3758.2	2983.3	2523.6	2304.2	3024.5
70°	4506.2	4501.7	4607.0	4901.8	5009.1	4777.7	4361.8	3370.5	2788.2	2450.2	3051.3
72.5°	4101.7	4065.9	4314.6	4898.9	5476.7	5445.9	5098.9	3869.8	3016.6	2468.0	2647.7
75°	3077.1	2981.8	3421.1	4414.9	5554.6	5825.1	5567.5	4179.6	2962.4	2180.6	1842.6
77.5°	1315.9	1220.1	1737.9	3268.2	4971.3	5445.4	5137.6	3646.5	2364.8	1442.0	904.9
80°	344.5	344.0	525.2	1481.7	3380.9	4021.2	3527.8	2354.9	1351.2	515.3	249.7
82.5°	142.5	139.0	193.1	576.3	1652.0	2256.6	1841.6	1050.4	488.0	139.5	82.9
85°	53.1	52.6	93.8	199.1	582.8	930.7	673.6	268.5	121.6	68.0	37.2
87.5°	14.9	14.4	20.4	69.0	142.0	215.4	115.2	44.2	34.3	26.8	10.9
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°	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2
2.5°	1073.7	1076.2	1080.6	1084.1	1088.6	1093.5	1100.5	1105.0	1109.4	1112.4	1110.4
5°	1078.2	1083.6	1095.0	1106.5	1119.9	1132.3	1146.7	1157.1	1165.5	1168.0	1169.0
7.5°	1088.1	1097.0	1116.4	1135.7	1157.1	1177.4	1198.3	1216.2	1230.5	1236.0	1236.5
10°	1105.5	1117.4	1144.7	1172.0	1200.3	1231.5	1258.3	1284.2	1304.5	1312.9	1313.4
12.5°	1127.3	1142.2	1177.9	1215.7	1254.9	1298.1	1332.8	1364.6	1389.9	1401.3	1401.3
15°	1155.6	1175.0	1220.6	1271.3	1328.8	1388.9	1433.1	1468.3	1496.6	1510.5	1509.5
17.5°	1186.4	1212.2	1269.8	1346.2	1428.6	1507.5	1559.2	1585.0	1614.3	1627.7	1627.2
20°	1216.2	1247.9	1330.3	1441.5	1551.2	1635.1	1676.8	1683.8	1685.7	1687.2	1691.2
22.5°	1246.9	1289.6	1406.3	1561.6	1679.3	1737.4	1743.3	1713.5	1671.8	1652.5	1657.9
25°	1280.7	1337.3	1505.5	1694.2	1789.5	1796.4	1750.8	1678.3	1599.4	1563.1	1568.6
27.5°	1313.4	1392.4	1624.7	1820.8	1868.9	1807.8	1709.6	1606.8	1511.5	1473.3	1477.7
30°	1346.2	1455.4	1756.2	1931.4	1905.1	1779.6	1644.5	1529.9	1434.1	1393.9	1398.3
32.5°	1379.5	1528.9	1907.6	2011.4	1898.7	1719.5	1563.6	1443.5	1359.1	1316.9	1322.4
35°	1417.2	1619.2	2051.1	2055.0	1855.5	1631.1	1456.9	1340.2	1266.8	1233.0	1240.5
37.5°	1466.3	1733.9	2177.7	2066.0	1780.1	1501.6	1324.4	1218.1	1157.6	1142.2	1153.1
40°	1527.4	1871.9	2274.5	2048.6	1668.4	1344.2	1179.4	1094.5	1060.3	1063.8	1075.7
42.5°	1606.8	2026.3	2342.5	2003.9	1513.0	1181.9	1052.3	1014.6	1031.0	1044.9	1057.8
45°	1710.1	2186.6	2384.7	1928.0	1337.3	1044.4	977.4	986.3	998.7	1000.2	1010.2
47.5°	1842.1	2348.9	2412.4	1813.3	1158.1	947.6	929.7	931.7	929.2	918.8	926.8
50°	2006.9	2506.8	2437.3	1661.4	1005.7	887.0	863.2	856.3	822.0	788.3	792.7
52.5°	2194.5	2651.7	2447.7	1472.8	887.0	836.4	797.7	754.0	690.0	679.6	683.0
55°	2403.0	2785.7	2420.9	1241.0	787.3	771.4	712.8	660.2	653.2	644.3	645.8
57.5°	2652.2	2930.2	2366.3	982.4	685.0	695.4	638.4	644.3	631.9	618.0	615.5
60°	2924.7	3079.6	2270.5	746.6	579.3	600.6	619.0	618.5	615.0	603.6	599.6
62.5°	3169.9	3177.9	2081.9	571.8	486.5	527.2	577.3	576.8	573.8	567.4	564.9
65°	3315.9	3163.0	1767.1	450.2	410.0	466.6	520.7	524.7	525.2	524.7	524.7
67.5°	3290.1	2988.8	1335.3	358.4	347.0	405.1	464.6	470.1	474.1	475.0	476.0
70°	2998.2	2606.0	870.7	285.9	290.9	350.9	411.5	417.0	420.4	424.4	426.4
72.5°	2337.0	1916.1	498.4	231.3	241.7	304.3	358.9	365.3	367.3	374.8	377.8
75°	1424.1	1126.8	269.0	182.2	198.6	260.1	306.8	314.2	317.7	326.6	327.6
77.5°	677.1	488.0	153.4	142.0	159.8	212.5	259.1	267.6	258.1	263.1	259.1
80°	228.8	181.2	96.8	108.2	122.1	165.8	207.5	215.9	196.1	195.1	193.1
82.5°	79.9	73.5	61.6	72.0	78.9	118.6	156.9	167.8	145.9	145.4	138.5
85°	31.3	29.8	34.3	39.2	47.2	73.0	103.2	108.7	89.8	72.5	71.5
87.5°	6.5	6.9	8.4	8.9	14.4	25.3	37.2	45.7	36.2	30.8	28.3
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)