

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: P647245

Luminaire Tested: **GALN-SA1D-835-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647245  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1D-835-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5350.3 lumens  
Efficiency: N/A  
Efficacy: 82.3 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

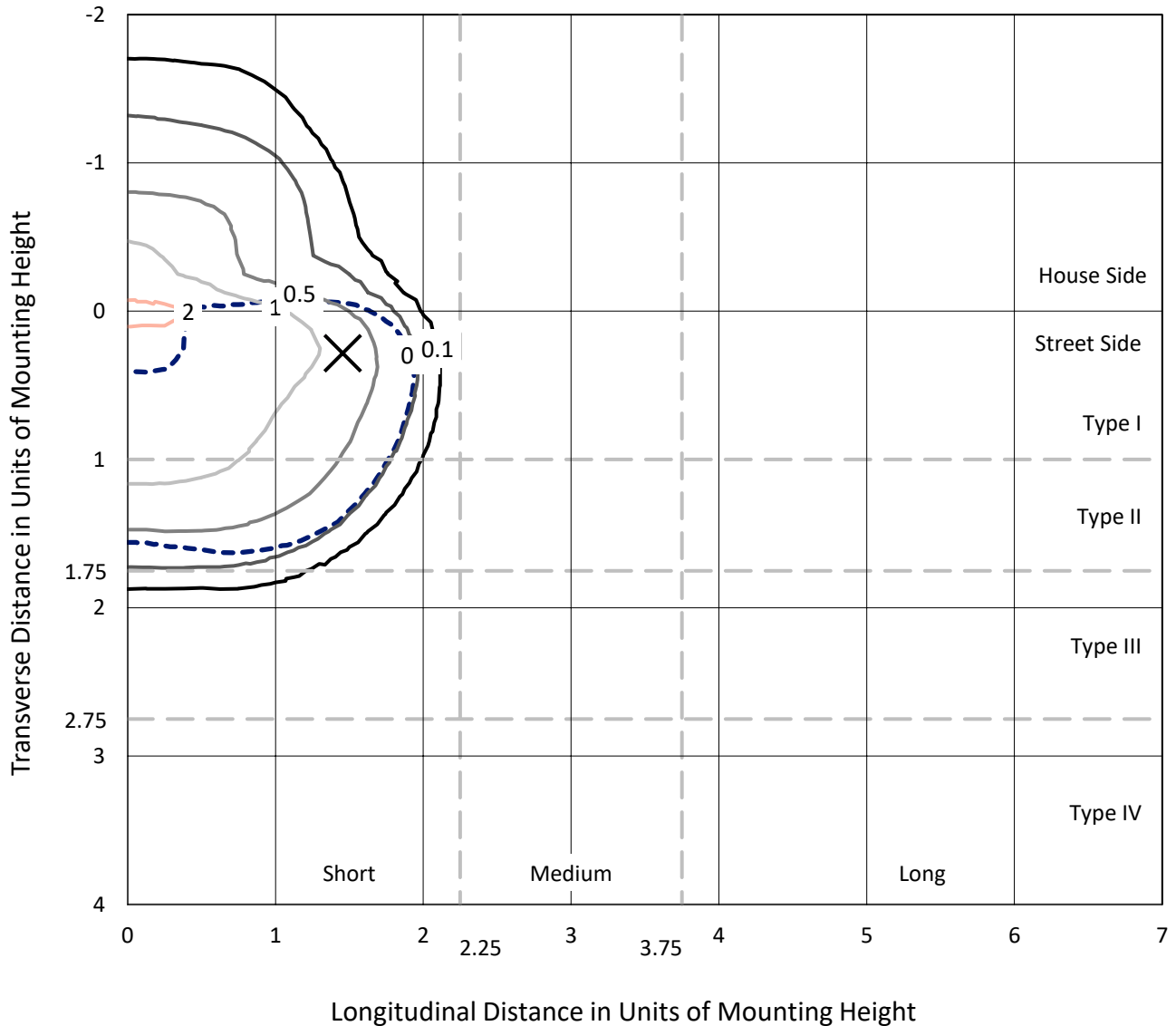
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P647245  
 CATALOG NUMBER: GALN-SA1D-835-U-T3R-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

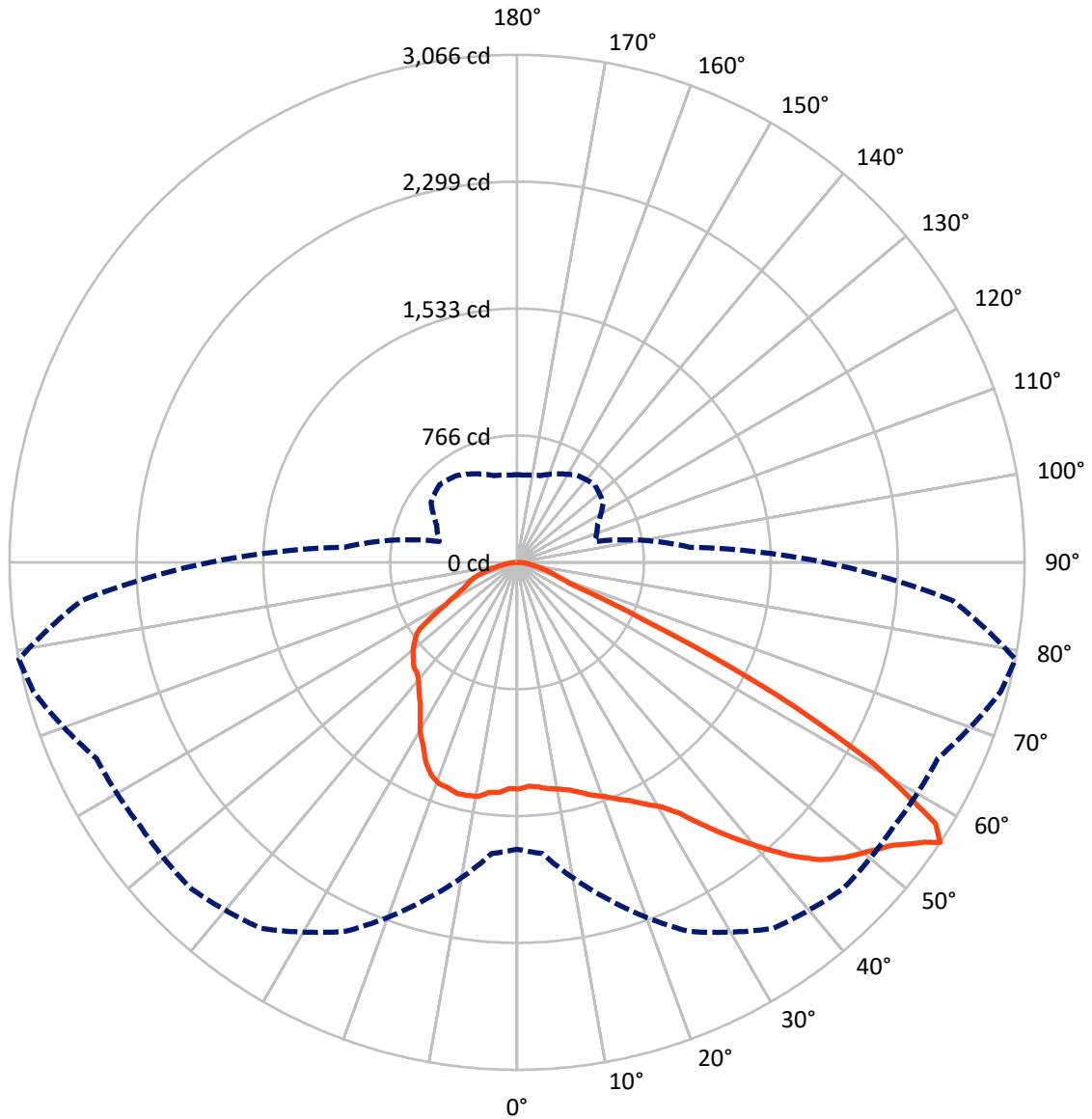
✕ Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P647245  
CATALOG NUMBER: GALN-SA1D-835-U-T3R-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P647245  
 CATALOG NUMBER: GALN-SA1D-835-U-T3R-GRSWH

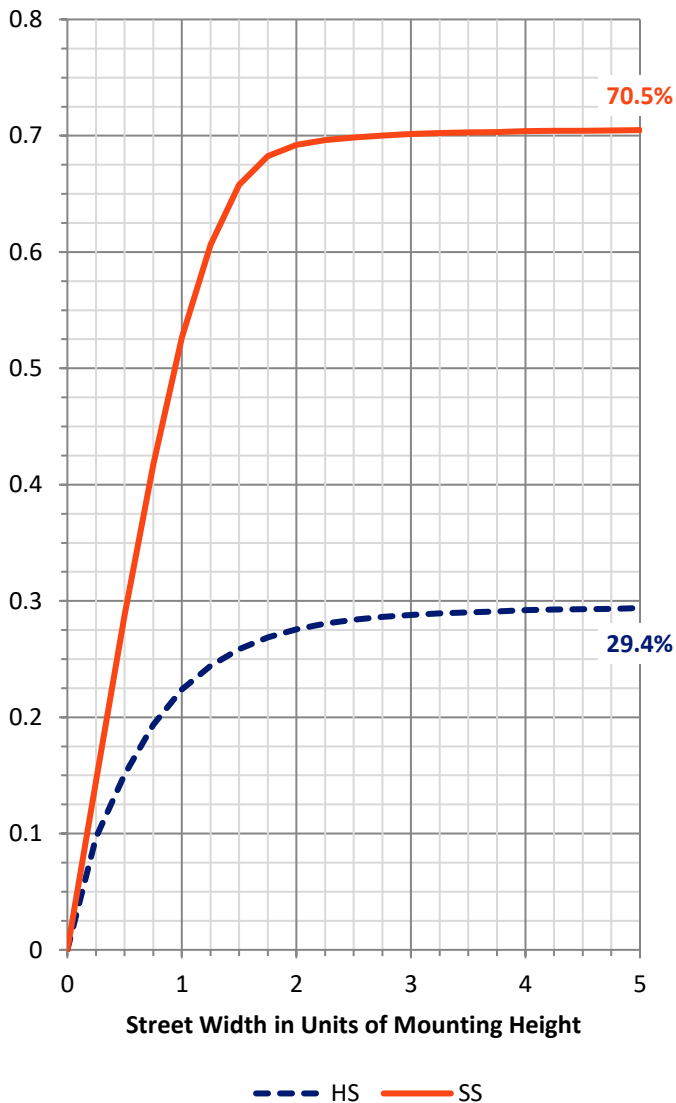
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1580.1	0.0	1580.1
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	3770.2	0.0	3770.2
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	5350.3	0.0	5350.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.5	2.3
10°-20°	340.6	6.4
20°-30°	582.7	10.9
30°-40°	893.1	16.7
40°-50°	1207.0	22.6
50°-60°	1386.3	25.9
60°-70°	631.9	11.8
70°-80°	155.8	2.9
80°-90°	28.3	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°	5350.3	100.0
0°-180°	5350.3	100.0

**Coefficient of Utilization**

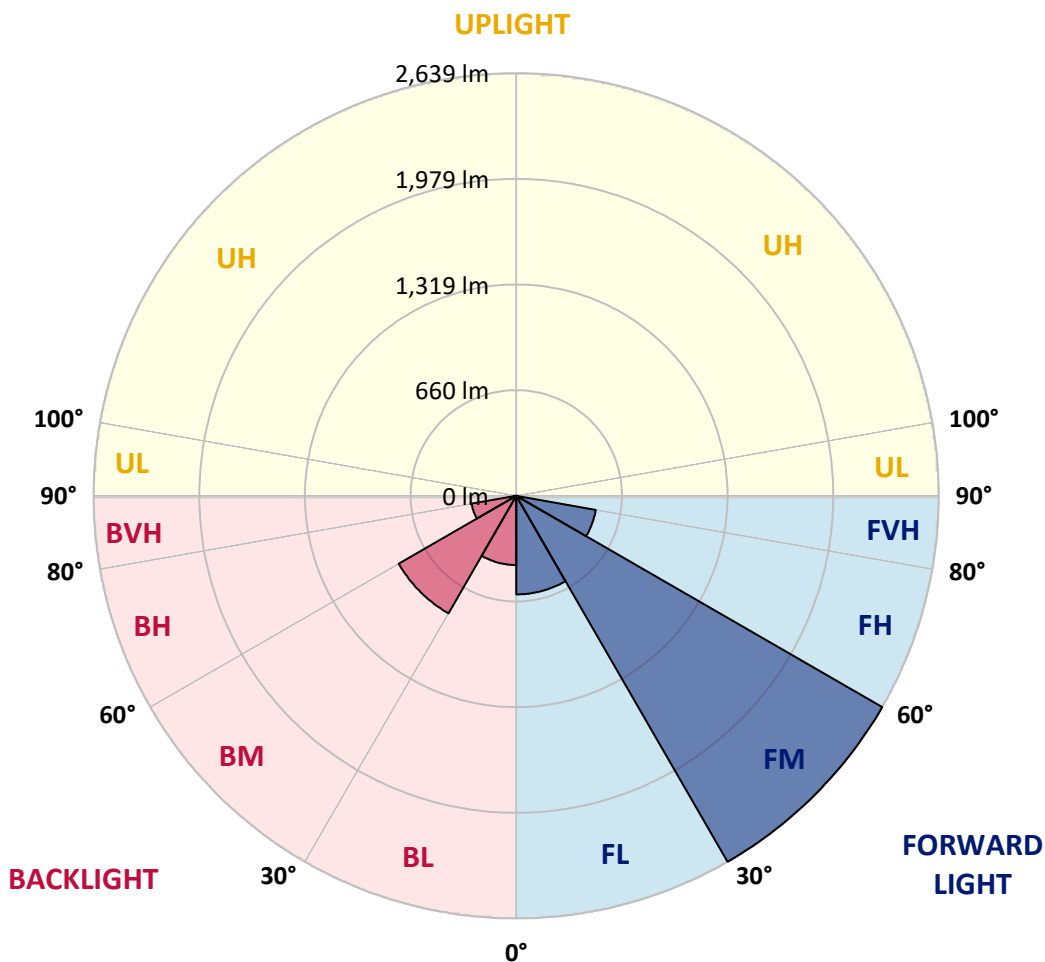


REPORT NUMBER: P647245  
 CATALOG NUMBER: GALN-SA1D-835-U-T3R-GRSWH

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	615.6	11.5			
FM (30°-60°)	2638.9	49.3			
FH (60°-80°)	504.4	9.4			G0/660
FVH (80°-90°)	11.3	0.2			G1/100
BL (0°-30°)	432.2	8.1	B1/500		
BM (30°-60°)	847.5	15.8	B1/1000		
BH (60°-80°)	283.3	5.3	B1/500		G1/500
BVH (80°-90°)	17.0	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: P647245

CATALOG NUMBER: GALN-SA1D-835-U-T3R-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1368.9	1368.9	1368.9	1368.9	1368.9	1368.9	1368.9	1368.9	1368.9	1368.9	1368.9
2.5°	1302.3	1298.9	1306.9	1312.9	1320.3	1329.6	1334.2	1336.9	1360.2	1354.3	1372.2
5°	1274.3	1265.6	1271.6	1276.3	1289.0	1300.2	1312.9	1332.9	1354.3	1363.6	1385.6
7.5°	1249.6	1245.0	1243.6	1246.9	1264.3	1279.0	1301.0	1330.2	1364.9	1380.3	1392.9
10°	1209.0	1202.3	1212.3	1234.3	1238.9	1269.6	1294.9	1336.9	1366.9	1393.6	1430.9
12.5°	1190.9	1184.3	1186.3	1198.9	1231.7	1260.9	1290.9	1338.2	1401.6	1412.2	1462.3
15°	1219.6	1212.9	1215.0	1211.6	1242.9	1258.3	1305.6	1364.9	1425.5	1443.5	1496.9
17.5°	1284.9	1285.6	1276.9	1269.6	1262.3	1294.9	1327.6	1380.9	1434.9	1480.2	1520.2
20°	1409.6	1387.6	1370.2	1328.9	1317.6	1331.6	1372.9	1424.2	1472.9	1510.2	1555.5
22.5°	1505.6	1507.5	1482.8	1414.9	1390.2	1396.2	1431.6	1473.5	1526.9	1553.6	1605.5
25°	1644.8	1630.8	1604.2	1550.2	1494.9	1499.5	1525.5	1563.5	1578.2	1596.9	1653.5
27.5°	1772.1	1776.2	1723.5	1672.8	1604.2	1590.8	1637.5	1644.1	1619.5	1654.8	1674.1
30°	1901.4	1898.1	1863.5	1804.1	1736.8	1739.4	1760.1	1727.5	1693.5	1712.8	1726.1
32.5°	2035.4	1997.4	1996.0	1942.7	1891.4	1866.8	1841.5	1857.4	1804.8	1808.8	1796.1
35°	2142.7	2148.0	2117.4	2079.3	2054.0	2010.7	1941.4	1970.0	1960.1	1955.4	1900.7
37.5°	2220.7	2200.0	2215.3	2202.7	2178.7	2124.7	2052.7	2080.0	2084.7	2107.4	2044.0
40°	2284.6	2275.9	2316.7	2323.3	2306.6	2190.0	2060.7	2142.0	2212.0	2261.3	2186.0
42.5°	2315.3	2334.0	2376.6	2427.9	2390.6	2266.0	2102.0	2189.3	2345.3	2423.2	2320.7
45°	2356.6	2332.6	2395.9	2489.9	2490.6	2330.0	2142.0	2253.3	2449.2	2562.5	2412.6
47.5°	2314.6	2326.6	2391.9	2511.2	2541.9	2397.2	2250.0	2343.9	2563.9	2664.5	2497.9
50°	2220.7	2244.6	2364.0	2487.9	2580.5	2468.6	2374.0	2441.9	2669.9	2746.5	2511.9
52.5°	2122.7	2136.0	2322.6	2505.9	2597.8	2560.6	2539.9	2577.2	2799.1	2839.2	2529.2
55°	1856.1	1919.4	2186.0	2497.9	2682.5	2726.5	2710.5	2765.2	2945.8	2985.7	2623.8
56°	1732.8	1766.1	2104.0	2460.6	2699.2	2787.2	2779.2	2803.8	3023.7	3065.8	2638.6
57.5°	1504.8	1507.5	1794.1	2295.3	2636.5	2805.2	2797.1	2816.5	3008.4	2979.8	2509.9
60°	941.7	983.1	1220.9	1765.4	2242.0	2602.5	2647.9	2492.6	2536.5	2475.9	1952.7
62.5°	487.9	481.9	639.8	1032.4	1488.2	1863.5	1905.4	1898.1	1830.1	1741.5	1275.6
65°	243.3	244.6	334.6	511.1	762.4	975.7	1093.0	1105.7	925.0	851.0	605.2
67.5°	176.6	183.3	240.6	312.6	359.2	401.9	492.5	483.2	365.9	347.9	322.6
70°	137.3	143.3	195.3	238.6	216.6	216.6	235.9	243.9	260.6	267.9	276.6
72.5°	100.0	104.6	149.3	164.6	142.0	152.6	176.6	195.3	212.6	215.2	225.3
75°	68.7	72.7	98.0	90.7	85.3	105.3	129.3	146.7	159.3	165.9	171.9
77.5°	44.6	46.0	56.0	47.3	54.7	68.0	83.9	98.7	111.3	116.7	118.0
80°	20.0	22.0	24.0	30.0	38.0	48.6	60.0	72.0	79.9	82.0	86.0
82.5°	11.4	11.4	14.6	21.3	28.0	35.3	43.3	52.0	61.3	63.3	62.6
85°	6.0	6.0	8.7	12.7	17.3	20.7	20.0	20.7	22.0	25.3	24.7
87.5°	2.0	2.0	2.7	2.7	3.4	4.0	3.4	4.7	6.0	6.0	6.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P647245

CATALOG NUMBER: GALN-SA1D-835-U-T3R-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1368.9	1368.9	1368.9	1368.9	1368.9	1368.9	1368.9	1368.9	1368.9	1368.9	1368.9
2.5°	1366.9	1372.9	1364.9	1382.2	1382.2	1378.9	1362.3	1367.6	1371.6	1371.6	1374.9
5°	1392.9	1390.9	1396.2	1375.6	1362.9	1358.3	1330.9	1317.6	1306.3	1305.6	1295.6
7.5°	1407.6	1402.3	1400.2	1384.9	1328.9	1294.9	1236.3	1202.3	1194.9	1168.9	1179.0
10°	1430.9	1440.9	1430.9	1347.6	1269.6	1191.6	1134.3	1081.6	1061.0	1044.4	1034.3
12.5°	1478.9	1474.2	1416.2	1303.6	1194.3	1101.7	1016.3	961.1	940.4	925.7	924.4
15°	1519.6	1496.2	1407.6	1234.3	1077.0	978.4	908.4	869.1	859.7	861.1	867.1
17.5°	1533.5	1517.5	1362.3	1162.3	989.7	873.7	841.1	835.1	843.8	853.7	856.4
20°	1555.5	1530.2	1343.5	1064.3	881.7	808.4	806.4	827.7	843.8	858.4	860.4
22.5°	1601.5	1537.5	1282.9	971.7	807.7	789.1	808.4	826.4	851.0	863.1	852.4
25°	1614.9	1521.5	1197.6	860.4	761.1	777.1	797.7	822.4	839.8	846.4	851.0
27.5°	1626.1	1496.9	1082.3	786.4	746.4	776.4	797.7	818.4	827.7	833.7	839.1
30°	1658.2	1489.6	982.4	737.1	737.1	763.1	790.4	795.8	808.4	815.7	825.0
32.5°	1674.1	1438.9	879.7	705.8	727.8	769.8	771.7	781.7	782.5	788.4	778.5
35°	1716.2	1402.9	784.4	683.1	731.8	763.1	773.1	767.1	734.5	718.5	721.8
37.5°	1746.8	1384.9	715.8	680.4	732.4	770.4	775.8	730.5	696.5	669.8	676.4
40°	1829.4	1340.3	663.8	675.8	738.4	778.5	763.7	714.4	653.1	625.8	621.2
42.5°	1892.7	1308.2	631.2	670.5	743.1	789.7	757.8	682.5	619.8	594.5	601.2
45°	1966.0	1301.0	613.8	671.8	751.1	795.8	750.4	657.8	591.2	581.1	579.2
47.5°	1992.0	1248.3	595.2	660.5	749.1	793.7	725.8	639.2	580.5	581.8	587.2
50°	1948.7	1194.3	581.1	637.1	735.8	775.8	687.2	614.5	574.5	591.2	600.5
52.5°	1893.5	1139.0	552.5	605.8	708.5	747.8	669.2	613.2	568.5	563.1	565.2
55°	1910.1	1093.7	512.5	563.1	664.5	695.8	649.1	600.5	553.8	533.8	540.5
56°	1856.1	1047.0	486.6	536.5	634.5	662.5	639.2	589.1	541.8	528.5	528.5
57.5°	1703.5	890.4	452.5	493.8	571.1	604.5	619.8	582.5	528.5	505.2	505.8
60°	1256.2	633.1	405.9	435.2	473.2	499.9	571.1	563.8	495.2	479.2	473.2
62.5°	774.5	462.5	372.6	383.9	403.2	425.2	498.5	510.5	459.9	442.6	438.6
65°	433.9	353.9	347.3	351.9	361.2	372.6	413.9	440.5	405.9	379.2	377.9
67.5°	317.3	316.6	321.9	325.9	329.9	329.9	339.9	350.5	345.9	324.6	322.6
70°	281.9	283.9	287.9	288.6	289.9	285.2	277.3	273.9	279.2	265.9	263.2
72.5°	232.6	239.3	243.9	244.6	237.2	231.3	220.6	209.3	205.3	202.6	201.9
75°	178.6	183.3	185.3	184.6	182.0	173.3	160.6	149.3	142.0	134.0	138.0
77.5°	120.7	127.3	130.6	130.6	126.6	113.3	107.3	98.7	91.3	82.6	83.9
80°	84.6	89.3	94.7	94.0	87.3	80.6	72.0	64.0	58.0	51.3	50.7
82.5°	63.3	66.0	68.7	67.3	62.6	56.0	50.0	42.7	36.0	31.3	31.3
85°	22.6	24.7	30.0	31.3	34.0	34.0	28.7	24.0	19.3	16.0	16.0
87.5°	6.7	6.7	7.4	7.4	6.7	7.4	6.0	6.7	7.4	4.7	4.7
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)