

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: P527642

Luminaire Tested: **GALN-SA2C-830-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527642
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-830-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9424 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

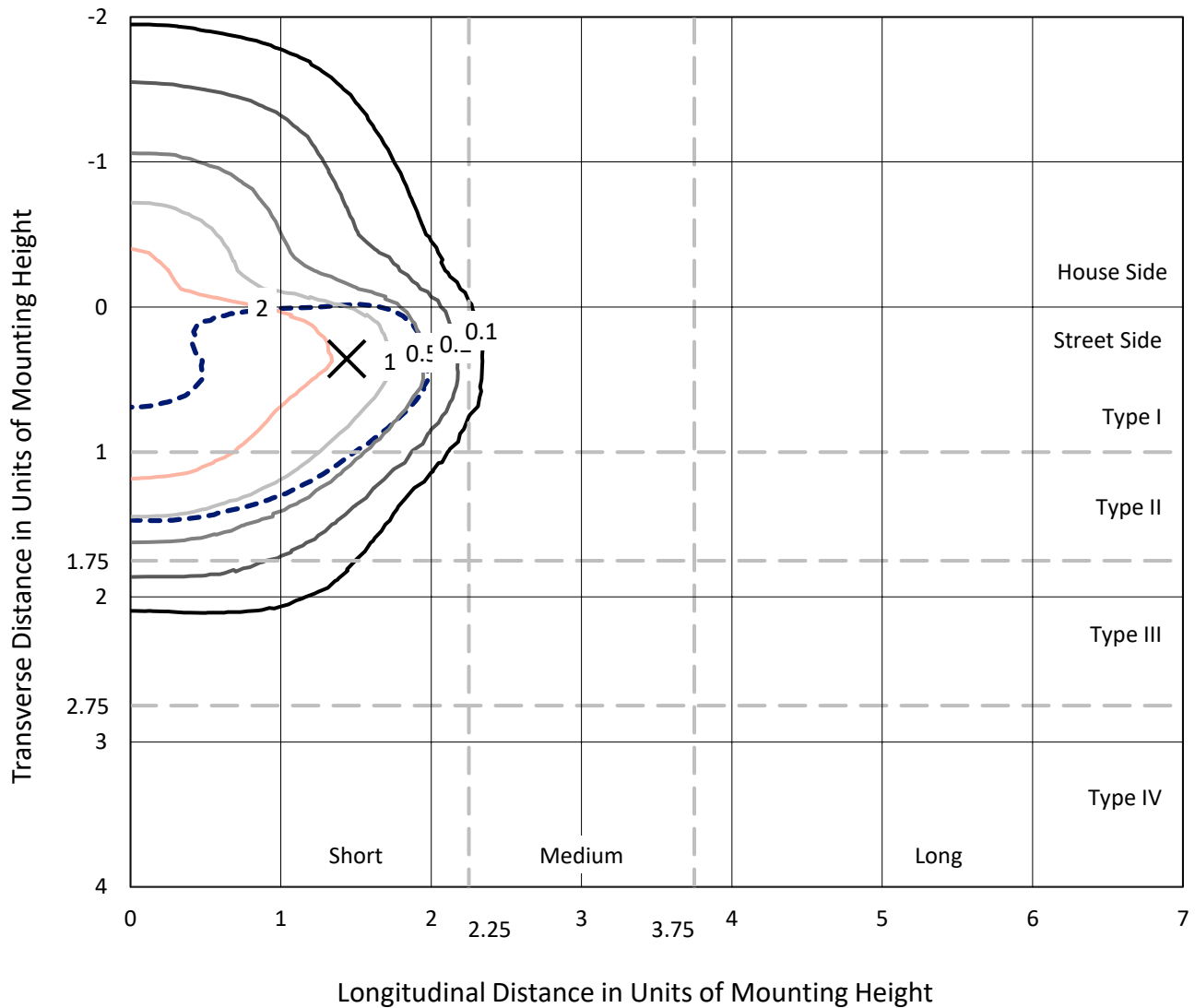
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P527642
 CATALOG NUMBER: GALN-SA2C-830-U-T2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

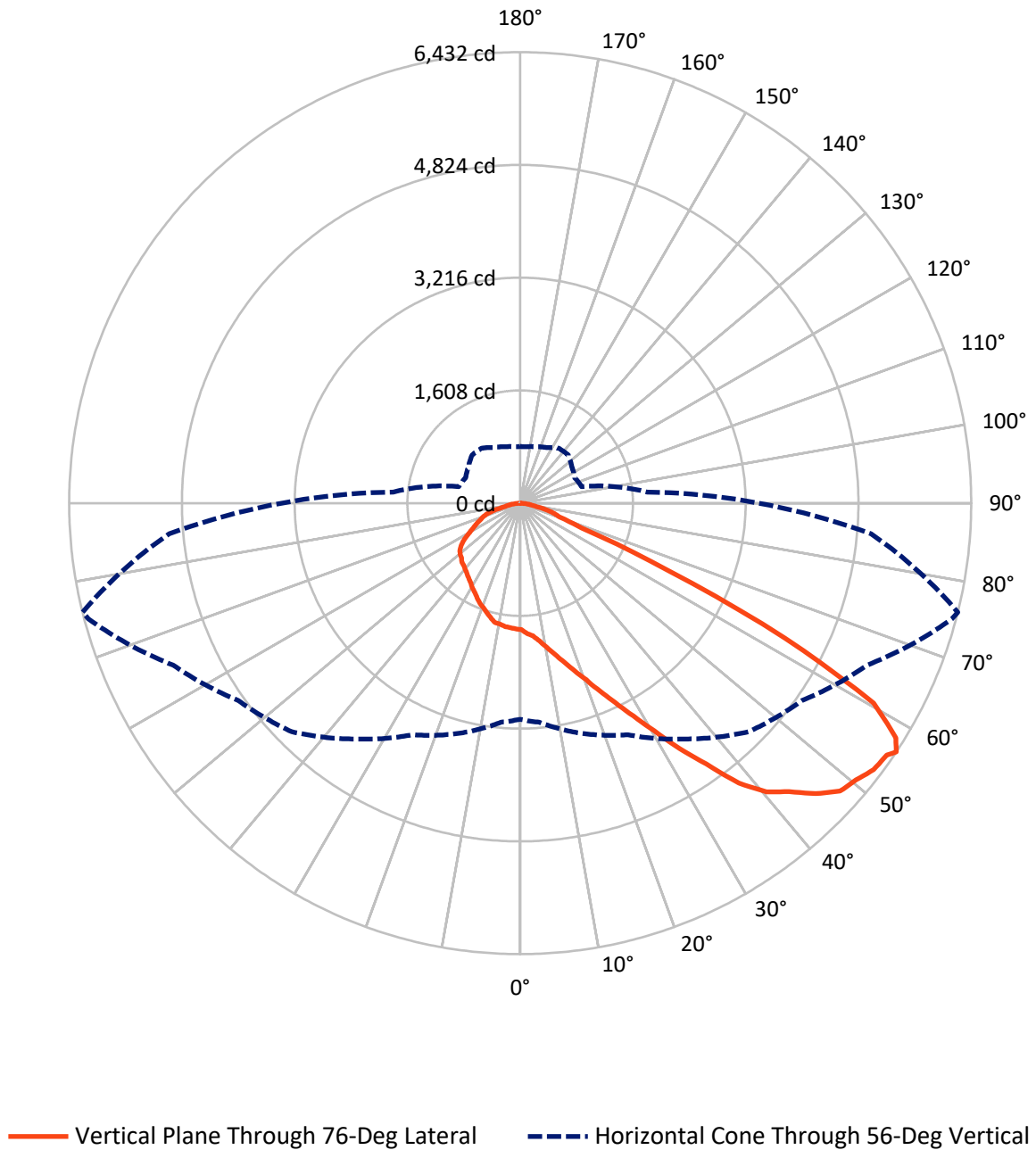
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type II - Short - N/A

REPORT NUMBER: P527642
CATALOG NUMBER: GALN-SA2C-830-U-T2-GRSWH

Luminous Intensity Polar Plot



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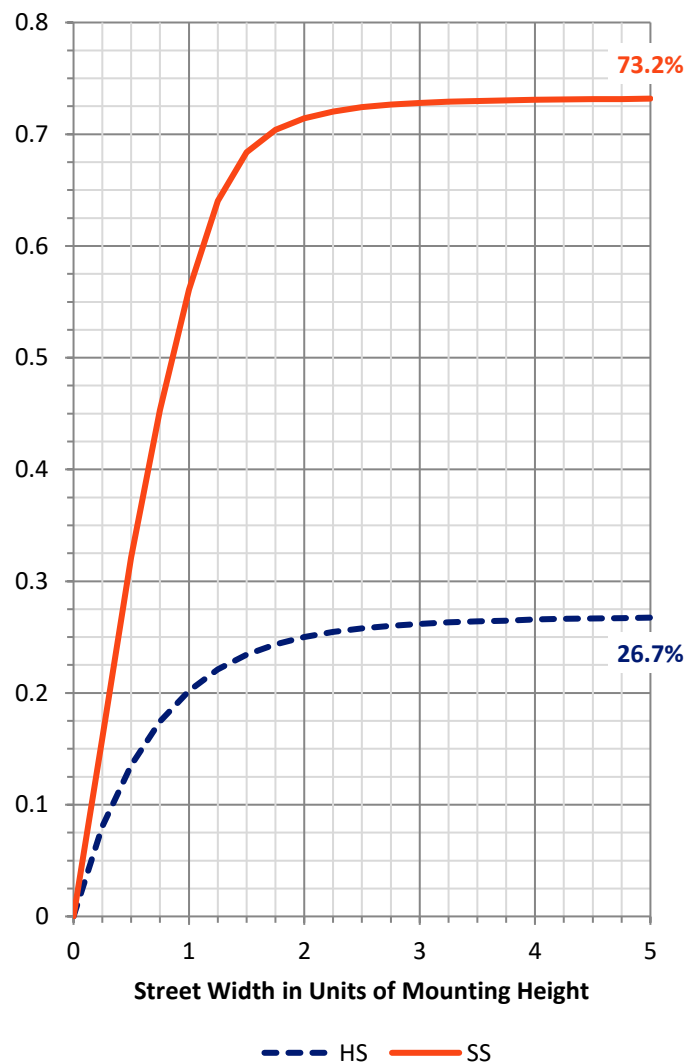
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2533.8	0.0	2533.8
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	6890.2	0.0	6890.2
	% Fixture	73.1	0.0	73.1
Total	Lumens	9424.0	0.0	9424.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.8	1.9
10°-20°	561.7	6.0
20°-30°	982.4	10.4
30°-40°	1538.1	16.3
40°-50°	2237.6	23.7
50°-60°	2459.2	26.1
60°-70°	1097.7	11.6
70°-80°	317.1	3.4
80°-90°	51.4	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°	9424.0	100.0
0°-180°	9424.0	100.0

Coefficient of Utilization



REPORT NUMBER: P527642

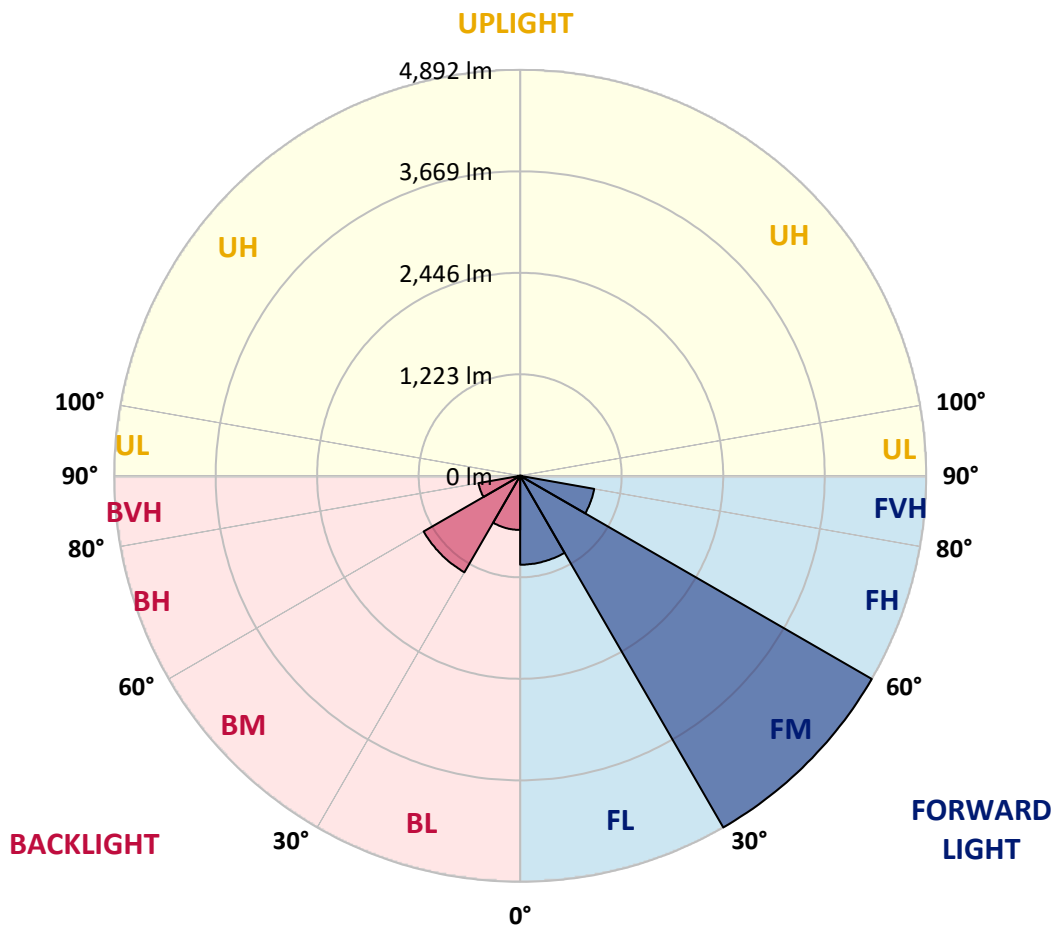
CATALOG NUMBER: GALN-SA2C-830-U-T2-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1070.9	11.4			
FM	(30°-60°)	4892.2	51.9			
FH	(60°-80°)	904.9	9.6			G1/1800
FVH	(80°-90°)	22.1	0.2			G1/100
BL	(0°-30°)	652.0	6.9	B2/1000		
BM	(30°-60°)	1342.7	14.2	B2/2500		
BH	(60°-80°)	509.8	5.4	B2/1000		G2/1000
BVH	(80°-90°)	29.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



REPORT NUMBER: P527642

CATALOG NUMBER: GALN-SA2C-830-U-T2-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1803.2	1803.2	1803.2	1803.2	1803.2	1803.2	1803.2	1803.2	1803.2	1803.2	1803.2
2.5°	1986.4	1954.6	1952.2	1943.7	1948.5	1926.5	1903.3	1872.8	1841.0	1860.6	1814.2
5°	2125.7	2082.9	2100.0	2070.7	2074.4	2045.0	1997.4	1962.0	1922.9	1899.7	1866.7
7.5°	2174.5	2178.2	2190.4	2185.5	2161.1	2161.1	2129.3	2067.0	1998.6	1985.2	1930.2
10°	2240.5	2241.7	2228.3	2232.0	2266.2	2250.3	2222.2	2195.3	2107.4	2091.5	1993.7
12.5°	2263.7	2241.7	2263.7	2283.3	2323.6	2345.6	2339.5	2319.9	2225.9	2214.9	2071.9
15°	2267.4	2254.0	2272.3	2316.3	2351.7	2444.5	2491.0	2477.5	2352.9	2354.1	2159.9
17.5°	2250.3	2268.6	2275.9	2313.8	2395.7	2482.4	2616.8	2635.1	2532.5	2516.6	2271.1
20°	2273.5	2260.1	2269.8	2304.0	2412.8	2548.4	2724.3	2845.2	2701.1	2690.1	2385.9
22.5°	2362.7	2344.4	2341.9	2363.9	2442.1	2582.6	2837.9	3055.4	2906.3	2912.4	2528.8
25°	2432.3	2442.1	2433.5	2432.3	2481.2	2633.9	2988.2	3305.8	3184.9	3149.4	2697.4
27.5°	2552.0	2575.2	2558.1	2581.4	2570.4	2710.9	3095.7	3583.1	3485.4	3437.7	2850.1
30°	2718.2	2730.4	2714.5	2714.5	2681.5	2818.4	3193.4	3872.6	3832.3	3767.6	3029.7
32.5°	2936.9	2955.2	2923.4	2905.1	2900.2	2978.4	3369.3	4158.5	4226.9	4171.9	3267.9
35°	3226.4	3215.4	3177.5	3160.4	3094.4	3223.9	3630.8	4487.1	4666.7	4569.0	3556.2
37.5°	3481.7	3464.6	3462.2	3366.9	3382.8	3489.0	3853.1	4736.4	5093.1	5065.0	3860.4
40°	3719.9	3735.8	3761.5	3707.7	3683.3	3800.6	4112.1	4926.9	5424.1	5413.1	4095.0
42.5°	3975.3	3960.6	4005.8	3960.6	3924.0	4090.1	4393.1	5058.9	5714.9	5624.5	4340.5
45°	4345.4	4299.0	4314.9	4318.5	4291.7	4352.8	4509.1	5154.2	5918.9	5909.1	4520.1
47.5°	4654.5	4655.7	4628.8	4608.1	4526.2	4587.3	4638.6	5214.0	6153.5	6137.6	4589.8
50°	4769.3	4753.5	4831.6	4876.8	4881.7	4757.1	4740.0	5247.0	6276.9	6207.2	4659.4
52.5°	4356.4	4371.1	4494.5	4763.2	4918.4	4931.8	4858.5	5315.4	6326.9	6312.3	4715.6
55°	3506.1	3577.0	3779.8	4090.1	4457.8	4862.2	4986.8	5386.3	6353.8	6341.6	4964.8
56°	3082.2	3137.2	3401.1	3644.2	4106.0	4609.3	4906.2	5462.0	6374.6	6432.0	5023.4
57.5°	2481.2	2544.7	2734.1	3010.2	3555.0	4128.0	4683.8	5369.2	6294.0	6316.0	5066.2
60°	1551.5	1557.6	1784.8	1966.9	2350.5	2910.0	3574.6	4671.6	5824.8	5793.1	4550.7
62.5°	1017.6	1018.9	1225.3	1374.4	1549.1	1677.3	2103.7	3098.1	4297.8	4241.6	3239.8
65°	714.7	730.5	890.6	1089.7	1160.6	1093.4	1079.9	1633.4	2400.6	2319.9	1740.9
67.5°	522.9	524.1	665.8	879.6	982.2	831.9	675.6	797.7	950.4	948.0	806.3
70°	345.7	360.4	469.1	657.2	774.5	668.2	552.2	570.5	604.7	604.7	599.8
72.5°	201.6	215.0	287.1	416.6	434.9	417.8	437.4	488.7	510.7	509.4	503.3
75°	114.8	120.9	136.8	173.5	216.2	255.3	321.3	370.2	392.2	405.6	389.7
77.5°	67.2	70.9	80.6	99.0	112.4	138.0	174.7	208.9	238.2	234.6	237.0
80°	35.4	35.4	45.2	58.6	78.2	97.7	116.1	135.6	151.5	155.2	158.8
82.5°	20.8	22.0	29.3	42.8	56.2	69.6	89.2	102.6	117.3	118.5	120.9
85°	11.0	12.2	18.3	28.1	37.9	42.8	44.0	41.5	45.2	42.8	48.9
87.5°	3.7	3.7	6.1	4.9	4.9	6.1	7.3	7.3	9.8	9.8	9.8
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: P527642

CATALOG NUMBER: GALN-SA2C-830-U-T2-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1803.2	1803.2	1803.2	1803.2	1803.2	1803.2	1803.2	1803.2	1803.2	1803.2	1803.2
2.5°	1812.9	1812.9	1792.2	1753.1	1747.0	1731.1	1716.4	1715.2	1704.2	1694.4	1689.5
5°	1847.1	1809.3	1778.7	1743.3	1701.8	1682.2	1660.2	1635.8	1626.0	1635.8	1634.6
7.5°	1886.2	1854.5	1762.8	1696.9	1649.2	1629.7	1605.3	1579.6	1582.0	1582.0	1564.9
10°	1924.1	1881.3	1734.7	1650.5	1580.8	1566.2	1552.7	1562.5	1574.7	1577.2	1566.2
12.5°	1987.6	1891.1	1721.3	1604.0	1560.1	1528.3	1536.8	1563.7	1589.4	1582.0	1590.6
15°	2035.3	1899.7	1660.2	1556.4	1501.4	1516.1	1546.6	1564.9	1607.7	1602.8	1611.4
17.5°	2081.7	1904.6	1600.4	1492.9	1469.6	1510.0	1533.2	1585.7	1599.1	1628.5	1639.5
20°	2177.0	1914.3	1539.3	1453.8	1446.4	1492.9	1533.2	1557.6	1586.9	1612.6	1612.6
22.5°	2225.9	1909.4	1499.0	1402.5	1425.7	1455.0	1491.6	1533.2	1533.2	1557.6	1558.8
25°	2286.9	1889.9	1435.4	1378.0	1395.1	1423.2	1464.8	1450.1	1466.0	1466.0	1485.5
27.5°	2356.6	1848.4	1380.5	1334.0	1368.3	1398.8	1404.9	1395.1	1376.8	1374.4	1367.0
30°	2412.8	1797.1	1340.2	1319.4	1347.5	1364.6	1345.0	1324.3	1292.5	1290.1	1273.0
32.5°	2489.7	1733.5	1290.1	1282.7	1314.5	1315.7	1309.6	1277.9	1231.4	1211.9	1192.3
35°	2619.2	1696.9	1252.2	1263.2	1273.0	1269.3	1258.3	1224.1	1177.7	1169.1	1161.8
37.5°	2714.5	1670.0	1213.1	1226.5	1235.1	1240.0	1207.0	1169.1	1170.3	1153.2	1148.4
40°	2822.0	1652.9	1181.3	1187.4	1188.7	1204.6	1164.2	1145.9	1154.5	1143.5	1150.8
42.5°	2960.1	1657.8	1148.4	1143.5	1166.7	1160.6	1141.0	1116.6	1121.5	1088.5	1093.4
45°	3033.4	1690.8	1128.8	1106.8	1132.5	1131.3	1105.6	1082.4	1053.1	989.5	992.0
47.5°	3082.2	1699.3	1082.4	1067.7	1094.6	1110.5	1081.2	1027.4	985.9	940.7	929.7
50°	3132.3	1715.2	1060.4	1029.9	1040.8	1078.7	1042.1	990.8	950.4	910.1	916.2
52.5°	3176.3	1745.7	1017.6	972.4	992.0	1033.5	1014.0	951.7	907.7	874.7	864.9
55°	3371.8	1814.2	945.6	886.9	933.3	985.9	974.9	899.1	851.5	834.4	831.9
56°	3402.3	1816.6	907.7	857.6	900.4	970.0	956.6	875.9	833.2	806.3	807.5
57.5°	3407.2	1787.3	853.9	830.7	867.4	946.8	929.7	857.6	799.0	774.5	767.2
60°	2997.9	1395.1	786.7	772.1	814.8	875.9	869.8	807.5	741.5	713.4	726.9
62.5°	2043.8	1022.5	734.2	731.8	753.8	813.6	797.7	741.5	686.6	668.2	659.7
65°	1189.9	775.8	682.9	673.1	691.5	723.2	734.2	675.6	618.2	605.9	602.3
67.5°	702.5	641.4	616.9	601.1	594.9	614.5	623.0	588.8	531.4	514.3	529.0
70°	587.6	570.5	571.7	544.9	530.2	516.8	509.4	478.9	431.2	409.3	403.1
72.5°	507.0	499.7	494.8	470.3	456.9	426.4	394.6	364.1	328.6	310.3	311.5
75°	387.3	384.8	387.3	375.0	351.8	327.4	298.1	259.0	232.1	208.9	213.8
77.5°	230.9	238.2	241.9	237.0	227.2	205.2	186.9	161.3	135.6	117.3	114.8
80°	158.8	164.9	171.0	164.9	155.2	139.3	119.7	100.2	81.9	72.1	69.6
82.5°	120.9	127.1	130.7	124.6	112.4	95.3	81.9	68.4	53.8	44.0	41.5
85°	44.0	50.1	48.9	58.6	63.5	61.1	52.5	40.3	30.5	22.0	20.8
87.5°	12.2	11.0	12.2	12.2	12.2	11.0	9.8	9.8	9.8	6.1	4.9
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)