

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: P450808

Luminaire Tested: **GALN-SA1C-827-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450808  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1C-827-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5183 lumens  
Efficiency: N/A  
Efficacy: 90.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

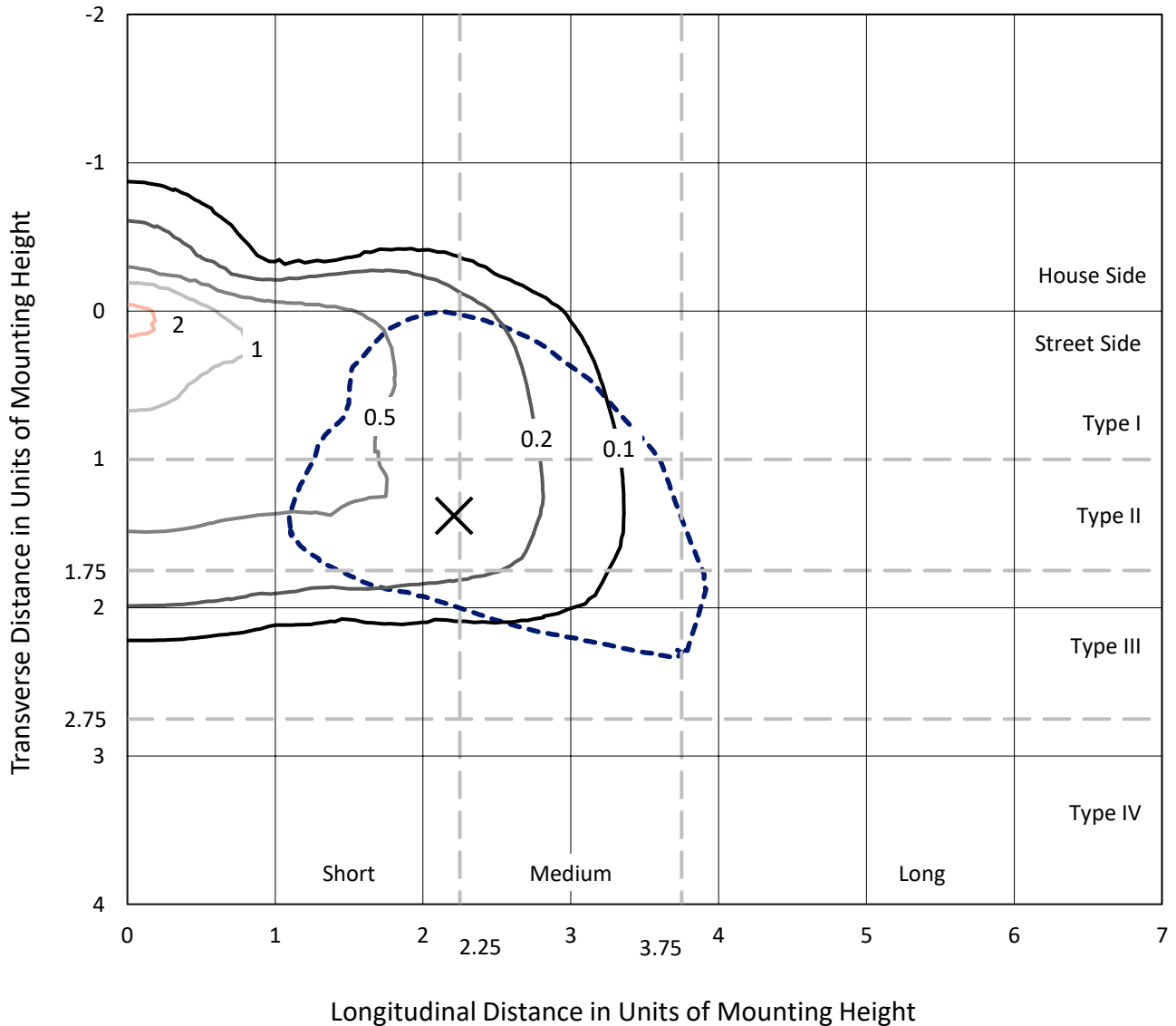
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

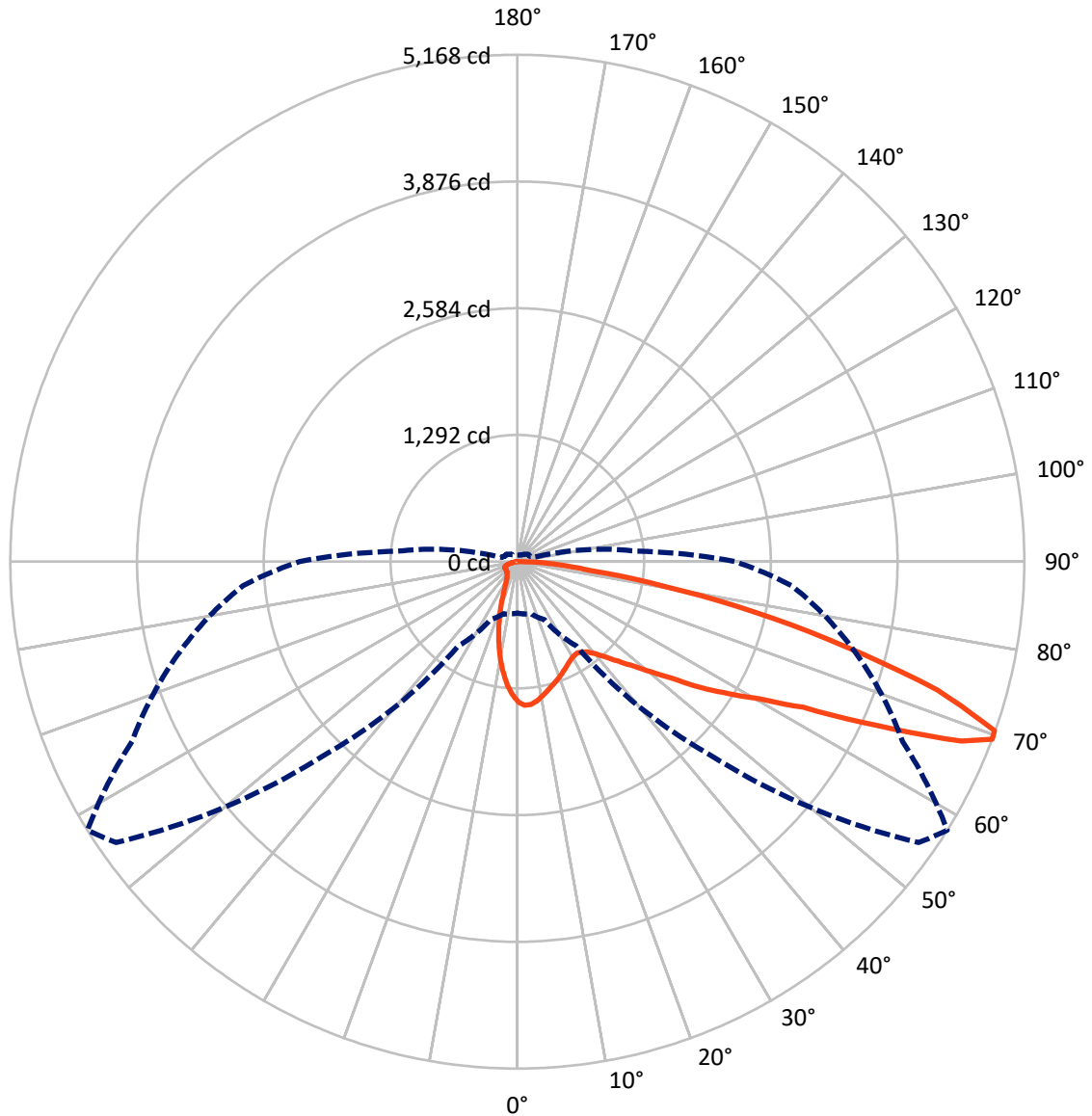
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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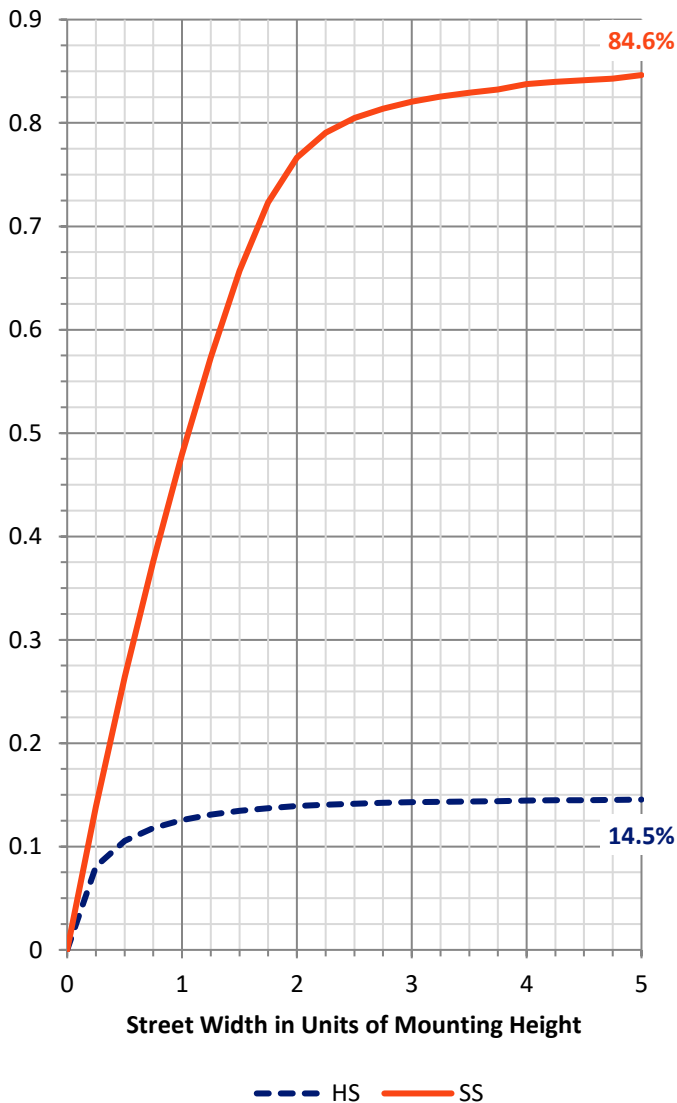
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	759.6	0.0	759.6
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	4423.4	0.0	4423.4
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	5183.0	0.0	5183.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.6	2.3
10°-20°	267.1	5.2
20°-30°	345.1	6.7
30°-40°	448.2	8.6
40°-50°	651.6	12.6
50°-60°	1039.8	20.1
60°-70°	1389.0	26.8
70°-80°	800.7	15.4
80°-90°	119.9	2.3
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°	5183.0	100.0
0°-180°	5183.0	100.0



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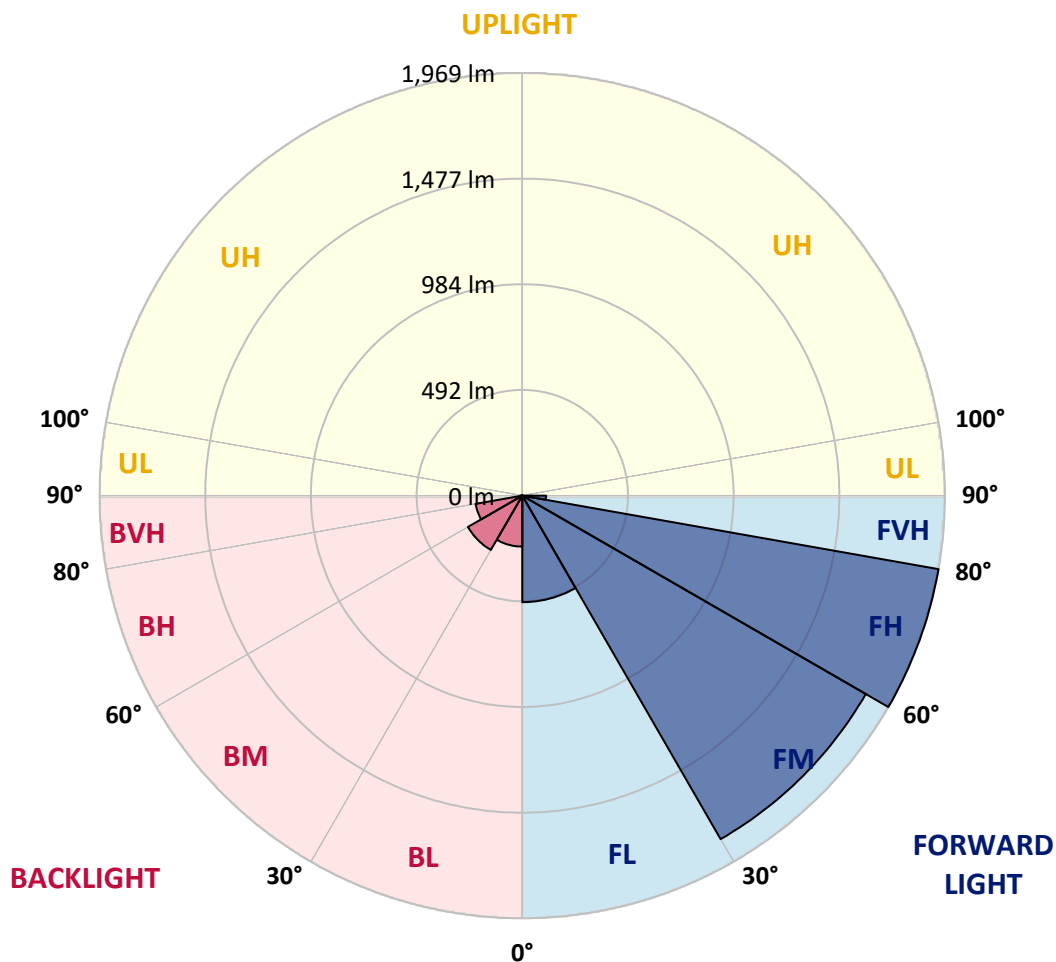
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	496.4	9.6			
FM (30°-60°)	1847.5	35.6			
FH (60°-80°)	1968.8	38.0			G2/5000
FVH (80°-90°)	110.7	2.1			G2/225
BL (0°-30°)	237.4	4.6	B1/500		
BM (30°-60°)	292.1	5.6	B1/1000		
BH (60°-80°)	220.9	4.3	B1/500		G1/500
BVH (80°-90°)	9.2	0.2			G0/10
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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1432.3	1432.3	1432.3	1432.3	1432.3	1432.3	1432.3	1432.3	1432.3	1432.3	1432.3
2.5°	1485.5	1489.5	1488.4	1486.9	1484.6	1478.2	1467.8	1466.1	1459.4	1445.3	1427.7
5°	1462.6	1466.1	1466.4	1468.4	1471.3	1470.1	1462.6	1461.8	1451.9	1432.9	1403.4
7.5°	1384.3	1388.9	1399.0	1410.3	1420.4	1430.0	1432.3	1433.7	1427.7	1405.7	1366.4
10°	1296.1	1300.8	1305.4	1322.1	1347.0	1370.7	1390.4	1393.0	1394.4	1374.2	1326.2
12.5°	1198.4	1208.0	1217.8	1242.7	1275.9	1313.2	1347.9	1353.4	1363.2	1347.9	1291.5
15°	1115.5	1125.3	1139.5	1161.7	1201.9	1255.7	1304.5	1313.5	1332.8	1325.0	1259.1
17.5°	1057.9	1061.4	1071.2	1096.7	1140.0	1196.7	1262.0	1279.9	1310.9	1308.9	1231.4
20°	1012.6	1016.9	1023.0	1038.6	1083.7	1143.5	1222.4	1245.5	1287.5	1294.4	1203.9
22.5°	993.5	996.7	995.8	1004.2	1034.8	1094.9	1182.2	1209.7	1266.6	1284.6	1178.5
25°	994.6	997.5	993.2	991.2	1009.4	1052.2	1140.3	1175.3	1249.9	1277.9	1155.4
27.5°	1014.0	1016.0	1007.9	999.8	1001.3	1025.6	1105.6	1144.4	1235.7	1280.8	1136.0
30°	1040.0	1043.8	1038.6	1028.8	1018.1	1019.2	1083.4	1121.5	1229.1	1290.9	1126.7
32.5°	1073.6	1077.0	1074.7	1066.9	1053.0	1037.7	1077.9	1113.2	1229.6	1311.5	1124.7
35°	1108.8	1115.8	1119.5	1118.9	1107.7	1081.1	1099.6	1128.8	1243.5	1345.8	1136.6
37.5°	1148.7	1154.5	1170.7	1181.1	1170.7	1139.8	1148.4	1168.7	1274.2	1395.6	1162.6
40°	1187.4	1196.1	1219.8	1252.2	1248.1	1221.0	1223.0	1236.3	1328.2	1469.6	1213.5
42.5°	1227.9	1238.3	1279.7	1327.6	1337.2	1316.1	1321.6	1333.4	1405.1	1572.2	1300.8
45°	1279.9	1292.4	1343.2	1403.1	1440.7	1427.7	1443.3	1449.0	1508.0	1705.7	1415.8
47.5°	1347.0	1361.5	1424.2	1498.8	1551.9	1563.8	1591.0	1587.5	1635.5	1863.8	1565.0
50°	1460.0	1468.1	1527.4	1603.4	1676.5	1730.0	1759.5	1765.0	1793.6	2017.6	1731.7
52.5°	1594.4	1601.7	1644.4	1710.9	1802.6	1915.9	1988.7	1970.8	1977.7	2204.9	1926.9
55°	1745.6	1757.8	1784.9	1829.2	1948.0	2114.7	2261.0	2265.3	2188.5	2384.1	2113.9
57.5°	1862.7	1883.2	1929.7	1992.8	2143.4	2335.9	2532.4	2535.3	2437.0	2575.5	2320.3
60°	1803.7	1828.0	1934.4	2087.9	2399.8	2721.8	2856.8	2840.3	2679.0	2793.4	2572.0
62.5°	1549.3	1553.7	1708.3	1948.2	2478.7	3238.0	3339.5	3269.8	3001.9	3069.8	2827.8
65°	1002.7	1031.1	1153.6	1489.8	2219.4	3524.5	4185.3	4024.3	3454.5	3383.4	3042.0
67.5°	633.0	625.8	676.7	850.7	1526.5	3272.1	4907.0	4881.6	4046.5	3581.4	2990.9
69°	524.9	533.0	550.4	652.1	1050.4	2793.7	4992.3	5168.1	4333.5	3565.8	2805.0
70°	476.1	479.8	498.0	578.1	810.5	2339.9	4852.4	5160.2	4446.3	3500.5	2670.3
72.5°	377.8	377.5	408.7	481.0	605.9	1335.7	3984.4	4480.1	4320.2	3196.4	2206.4
75°	287.0	291.7	326.1	407.0	558.2	729.9	2780.4	3450.2	3450.5	2524.6	1376.8
77.5°	207.0	209.9	250.0	341.7	525.8	591.7	1852.0	2474.6	2326.3	1156.8	432.7
80°	135.6	137.3	167.9	270.6	474.1	558.2	1098.1	1514.7	1097.3	307.0	143.1
82.5°	74.3	83.0	102.6	175.2	380.4	515.7	667.4	766.6	411.6	136.7	74.6
85°	37.3	39.6	57.8	102.3	248.6	426.6	464.8	439.7	212.5	67.9	38.7
87.5°	11.0	13.9	24.0	39.6	100.9	222.3	258.7	232.1	81.8	24.6	8.1
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°	1432.3	1432.3	1432.3	1432.3	1432.3	1432.3	1432.3	1432.3	1432.3	1432.3	1432.3
2.5°	1420.4	1415.2	1392.1	1371.3	1352.2	1332.0	1314.9	1299.9	1301.3	1301.6	1286.3
5°	1388.1	1376.2	1332.3	1291.2	1256.5	1212.6	1175.0	1150.7	1138.6	1122.4	1128.2
7.5°	1344.1	1321.3	1260.3	1192.1	1128.2	1071.2	1009.4	966.9	939.7	913.4	916.9
10°	1298.7	1262.0	1173.3	1083.1	1000.4	909.4	830.5	762.8	712.5	693.7	681.3
12.5°	1252.2	1203.9	1091.2	971.2	857.1	748.1	636.2	563.7	508.2	478.7	482.4
15°	1209.7	1151.0	1005.6	859.4	711.1	581.3	469.7	400.6	361.9	353.8	358.4
17.5°	1170.4	1093.5	925.6	750.7	577.5	435.9	352.9	313.9	298.3	294.0	293.7
20°	1129.9	1044.7	835.7	634.5	450.1	337.9	289.6	271.4	268.5	270.3	270.6
22.5°	1088.9	984.2	743.2	519.1	358.4	276.3	253.2	248.3	250.6	254.7	255.2
25°	1051.0	931.1	654.1	418.0	286.2	242.8	231.5	231.5	236.7	242.8	243.1
27.5°	1019.8	879.6	565.4	331.8	239.6	218.5	214.8	216.8	224.0	228.6	228.9
30°	994.1	831.6	481.6	265.9	210.7	199.2	198.3	201.8	207.0	211.3	211.6
32.5°	974.7	789.4	403.2	223.4	190.8	184.4	184.1	186.7	189.6	190.8	191.9
35°	967.2	754.4	331.5	196.6	177.5	173.4	173.4	173.1	174.3	174.9	175.5
37.5°	973.3	727.6	276.0	179.2	167.7	164.8	163.0	161.3	160.7	160.7	161.0
40°	999.0	713.4	234.7	167.9	160.7	156.4	153.2	151.2	149.2	149.7	150.3
42.5°	1053.6	716.0	206.7	160.4	154.6	148.6	144.0	141.6	140.2	141.9	141.6
45°	1140.6	742.0	188.8	155.2	148.6	140.8	136.4	134.1	134.1	136.7	137.6
47.5°	1262.3	791.7	179.2	151.2	144.0	134.7	130.4	128.6	129.2	133.5	133.8
50°	1410.9	878.2	177.5	149.2	141.6	130.4	125.5	123.7	125.2	129.8	130.4
52.5°	1574.8	989.4	185.9	149.4	139.6	127.8	121.4	118.8	120.2	124.0	125.2
55°	1769.0	1128.8	207.5	150.6	136.7	126.3	118.5	112.7	114.5	117.1	117.4
57.5°	1967.3	1304.5	245.7	150.9	134.4	123.7	113.6	106.1	106.1	107.8	108.7
60°	2209.6	1495.9	296.0	151.2	134.7	120.0	107.0	98.6	97.4	98.3	98.6
62.5°	2450.0	1656.0	304.4	150.3	137.6	116.2	99.7	91.1	89.0	88.7	88.2
65°	2556.1	1626.2	249.5	146.3	140.8	113.9	93.9	83.8	80.4	79.2	79.2
67.5°	2383.3	1375.6	187.6	140.8	138.7	111.6	88.5	77.8	73.7	71.4	71.4
69°	2220.8	1223.6	168.5	137.0	133.5	107.8	85.0	74.6	69.7	67.1	66.2
70°	2095.4	1118.9	160.4	133.8	128.6	103.5	82.4	72.3	66.8	63.9	63.3
72.5°	1672.2	877.9	140.5	121.7	109.6	87.0	73.1	65.0	59.8	56.7	55.8
75°	963.7	475.8	116.5	105.8	88.2	67.6	61.9	56.7	52.6	49.7	48.9
77.5°	296.6	183.8	84.4	83.5	64.7	52.3	49.4	47.4	44.5	41.3	40.8
80°	124.9	93.7	57.2	56.4	43.1	36.4	35.6	35.3	34.1	31.5	30.6
82.5°	68.5	52.9	39.9	34.7	26.0	21.1	22.0	22.3	21.4	18.8	17.1
85°	33.5	28.9	19.4	15.6	11.9	7.5	7.2	8.7	8.1	5.8	6.4
87.5°	6.6	8.1	5.2	2.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0
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)