

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: P451426

Luminaire Tested: **GALN-SA2B-740-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451426  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2B-740-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11508 lumens  
Efficiency: N/A  
Efficacy: 140.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2

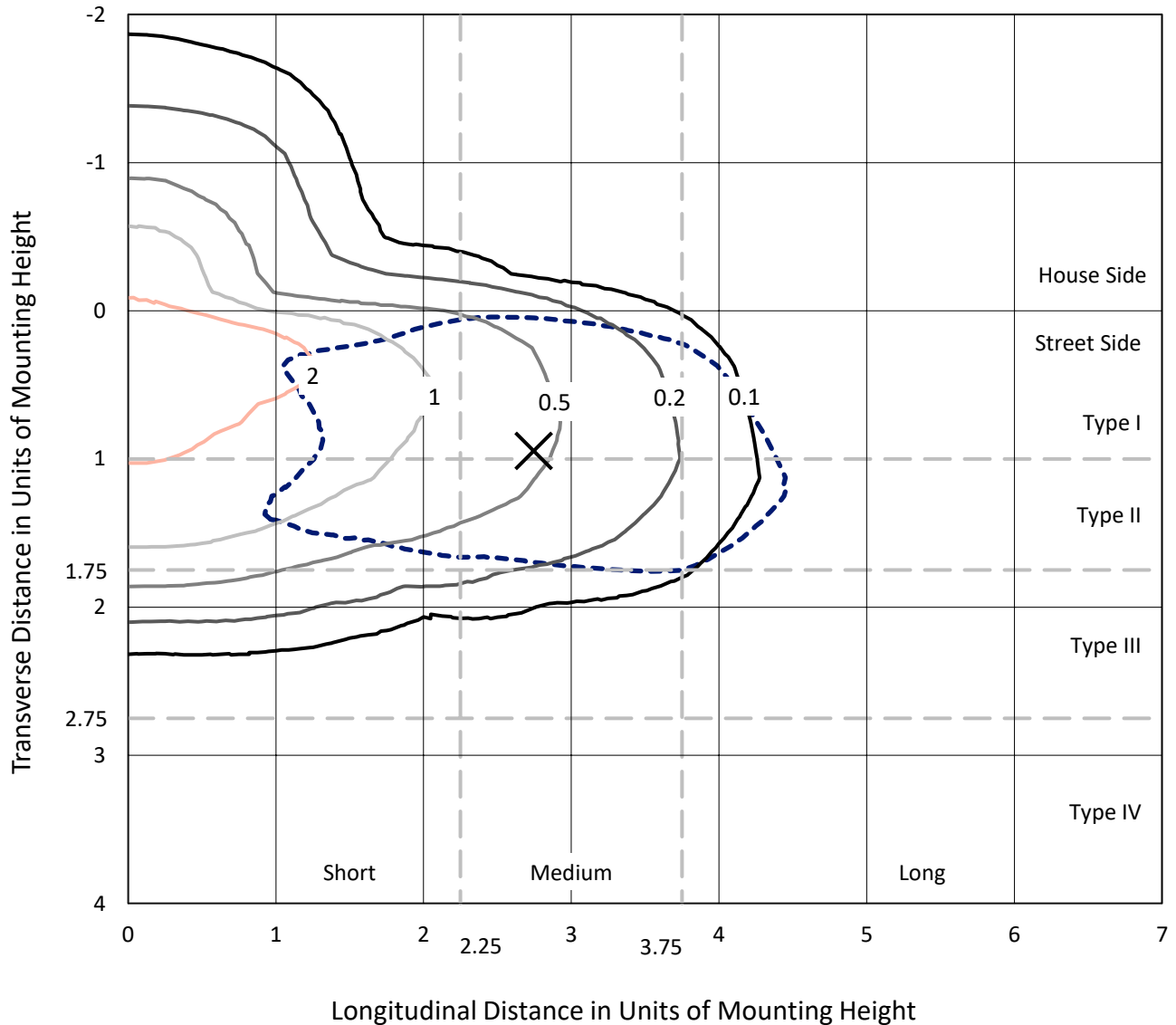
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

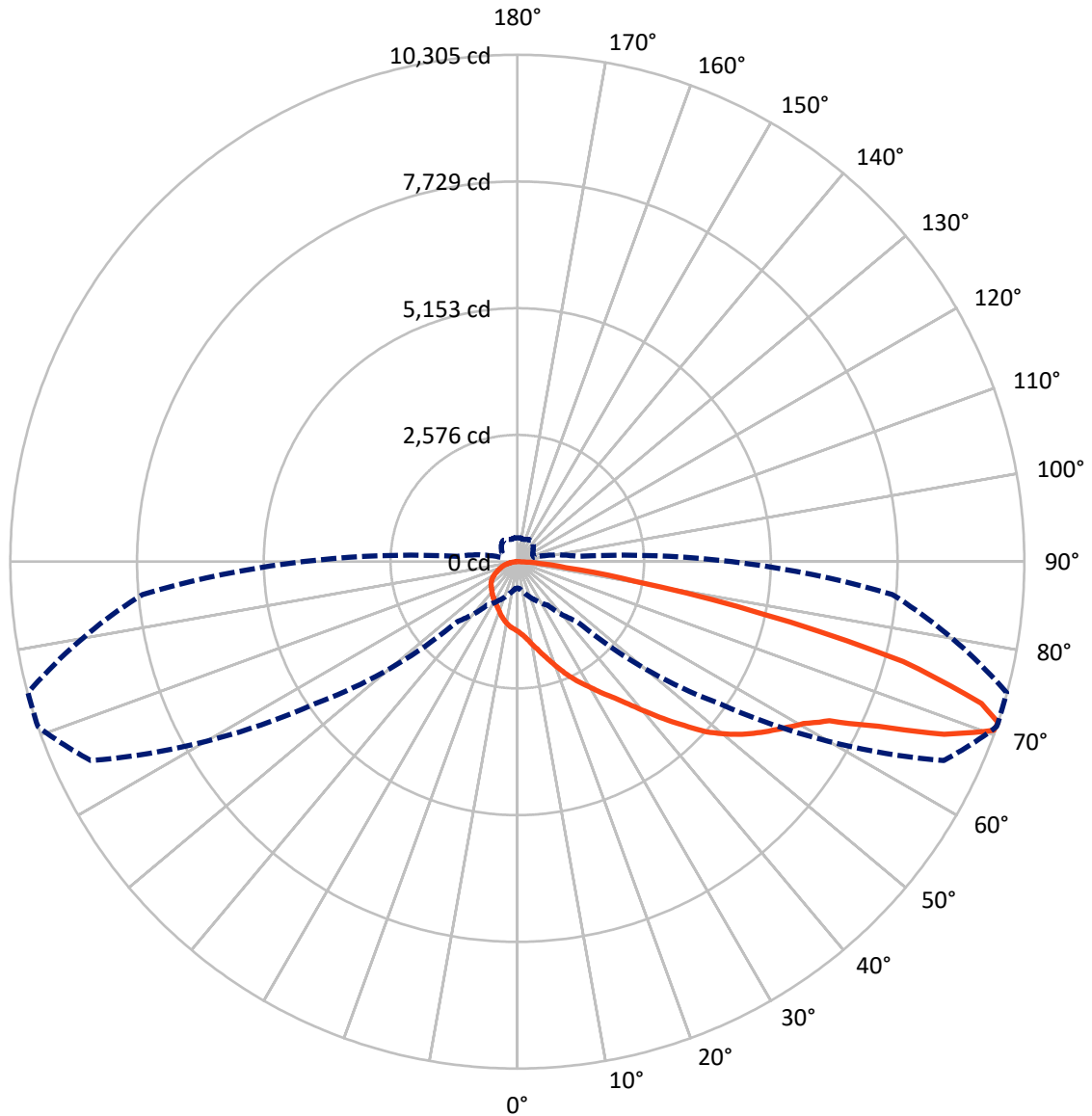
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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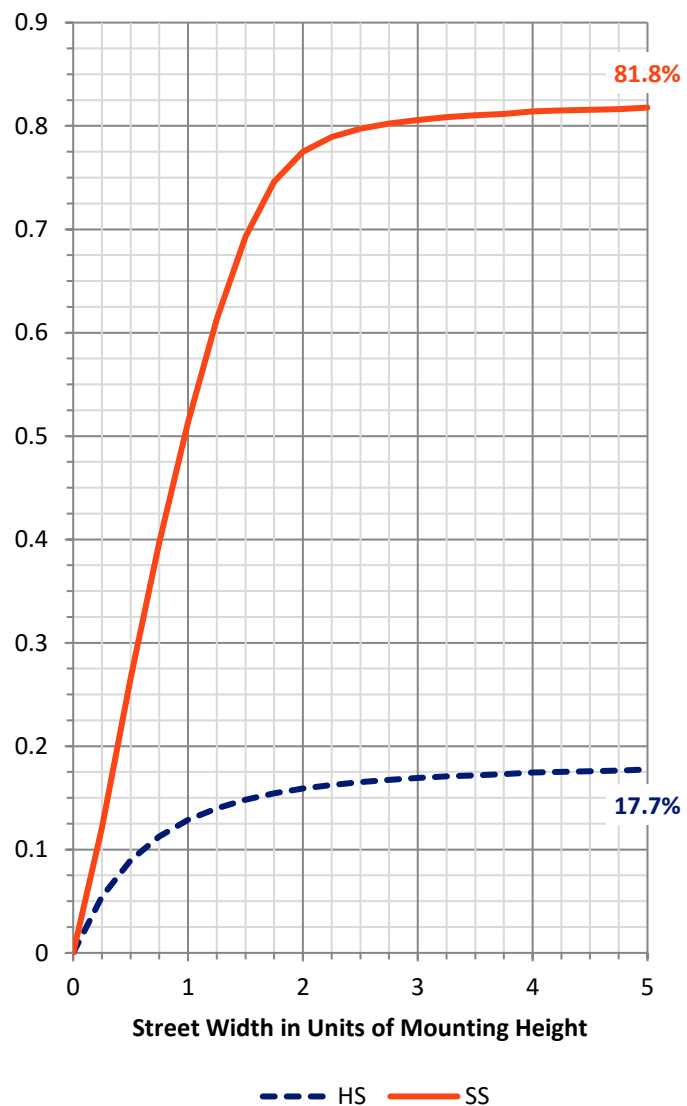
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2069.7	0.0	2069.7
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	9438.3	0.0	9438.3
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	11508.0	0.0	11508.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.8	1.2
10°-20°	460.7	4.0
20°-30°	805.2	7.0
30°-40°	1197.6	10.4
40°-50°	1764.5	15.3
50°-60°	2470.3	21.5
60°-70°	2763.0	24.0
70°-80°	1687.7	14.7
80°-90°	217.1	1.9
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°	11508.0	100.0
0°-180°	11508.0	100.0



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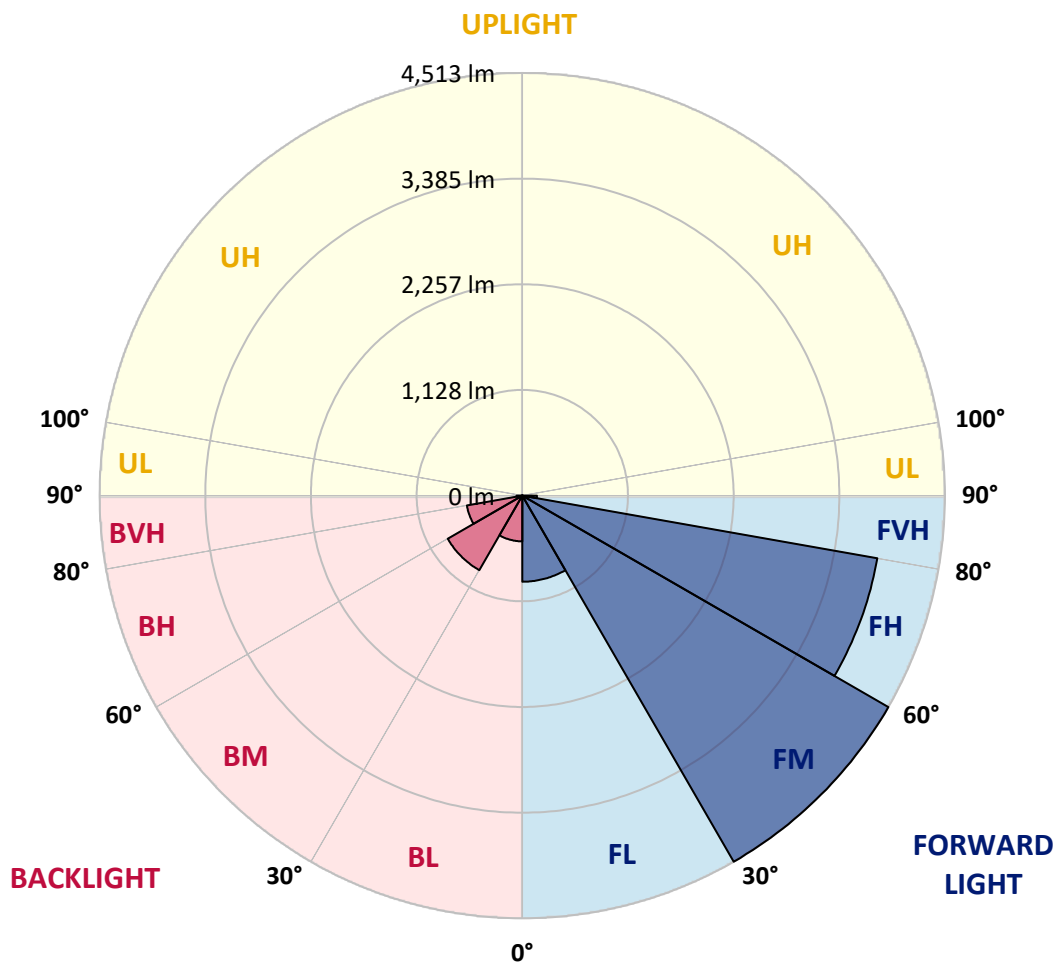
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	919.5	8.0			
FM (30°-60°)	4513.2	39.2			
FH (60°-80°)	3849.4	33.4			G2/5000
FVH (80°-90°)	156.2	1.4			G2/225
BL (0°-30°)	488.2	4.2	B1/500		
BM (30°-60°)	919.2	8.0	B1/1000		
BH (60°-80°)	601.3	5.2	B2/1000		G2/1000
BVH (80°-90°)	60.9	0.5			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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	1412.4	1412.4	1412.4	1412.4	1412.4	1412.4	1412.4	1412.4	1412.4	1412.4	1412.4
2.5°	1568.0	1560.4	1561.0	1550.3	1536.4	1521.2	1499.7	1480.7	1465.5	1456.7	1430.7
5°	1737.5	1729.9	1720.4	1697.0	1686.9	1649.6	1602.1	1559.1	1526.2	1507.9	1456.0
7.5°	1874.7	1872.8	1870.3	1857.0	1831.1	1779.2	1738.8	1664.1	1615.4	1580.6	1492.1
10°	1959.5	1962.7	1964.6	1967.1	1956.3	1929.1	1873.5	1779.2	1717.2	1673.0	1538.9
12.5°	2002.5	2005.7	2016.4	2039.8	2054.4	2051.2	2005.7	1913.3	1827.9	1769.7	1588.8
15°	2029.1	2034.1	2053.1	2084.1	2132.8	2163.8	2141.7	2056.3	1962.7	1893.7	1648.3
17.5°	2058.2	2063.9	2084.7	2129.0	2192.9	2259.9	2284.0	2210.6	2108.8	2026.5	1714.7
20°	2074.6	2082.2	2111.9	2170.1	2244.8	2342.2	2421.9	2383.3	2272.0	2180.9	1791.2
22.5°	2101.2	2107.5	2132.8	2194.8	2284.0	2406.0	2559.7	2551.5	2453.5	2335.8	1875.4
25°	2173.3	2183.4	2196.1	2233.4	2319.4	2471.2	2674.2	2731.1	2629.3	2497.8	1952.5
27.5°	2309.3	2317.5	2316.9	2321.9	2370.6	2527.5	2773.5	2908.9	2803.9	2661.6	2027.2
30°	2464.2	2467.4	2469.9	2458.5	2469.3	2585.0	2864.6	3084.7	2979.7	2829.8	2092.3
32.5°	2652.7	2659.0	2637.5	2608.4	2599.6	2670.4	2939.9	3260.6	3187.8	3000.6	2156.8
35°	2875.4	2891.8	2848.2	2796.9	2760.9	2793.1	3041.1	3440.2	3401.0	3218.8	2242.2
37.5°	3129.6	3149.9	3109.4	3008.8	2957.6	2966.4	3173.3	3662.2	3670.4	3467.4	2369.4
40°	3337.7	3364.3	3365.6	3223.2	3145.4	3155.6	3340.9	3901.3	3995.5	3774.8	2519.3
42.5°	3475.0	3500.9	3528.1	3444.6	3363.0	3420.6	3536.3	4160.6	4361.1	4148.0	2728.6
45°	3625.5	3648.9	3664.1	3626.1	3580.6	3729.9	3772.3	4436.4	4750.7	4564.8	2957.6
47.5°	3800.1	3826.0	3840.6	3804.5	3787.4	4001.2	4026.5	4693.8	5166.9	4969.6	3210.6
50°	4032.8	4052.4	4044.9	4022.1	4018.3	4209.3	4270.7	4934.8	5510.4	5405.4	3473.1
52.5°	4322.5	4345.9	4354.2	4321.9	4307.3	4357.9	4467.4	5154.3	5822.8	5779.8	3753.3
55°	4497.7	4535.0	4660.3	4710.9	4745.7	4550.2	4679.3	5396.5	6103.0	6174.5	4054.3
57.5°	4273.2	4321.3	4601.5	4854.5	5181.5	5030.9	4979.7	5649.5	6383.2	6557.2	4414.9
60°	3725.4	3736.2	4097.4	4563.5	5221.3	5648.9	5606.5	6051.8	6686.8	6943.0	4889.9
62.5°	2584.4	2607.2	3034.1	3777.9	4729.2	5871.5	6672.9	6746.3	7122.0	7520.5	5586.3
65°	1332.7	1303.0	1691.9	2374.4	3565.4	5342.8	7536.9	8023.3	8065.7	8423.7	6566.6
67.5°	820.4	833.6	1015.8	1386.4	2108.1	3882.9	7446.5	9583.7	9360.4	9532.5	7476.8
70°	616.1	632.5	757.7	948.8	1285.2	2220.1	5988.5	9961.9	10273.8	10229.5	7753.9
71°	535.7	552.8	683.1	863.4	1079.7	1713.5	5045.5	9566.0	10305.4	10297.8	7649.5
72.5°	456.7	467.4	569.3	731.2	910.2	1201.1	3790.6	8579.3	9865.8	10118.2	7277.0
75°	358.6	366.9	412.4	557.9	716.6	737.5	2034.1	6431.9	8103.0	8583.7	6058.1
77.5°	292.2	297.9	321.3	414.3	552.8	522.4	1067.0	4186.5	5076.5	5560.3	3568.6
80°	232.1	238.5	252.4	280.8	414.3	372.5	509.2	2121.4	2452.2	2447.2	1424.4
82.5°	180.3	182.2	198.6	206.2	283.4	264.4	275.8	898.2	994.9	1027.8	514.2
85°	113.9	119.5	175.8	158.1	169.5	155.0	136.0	356.7	439.6	433.3	205.6
87.5°	34.8	36.7	59.5	67.0	75.3	67.7	50.0	105.0	128.4	139.2	51.2
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°	1412.4	1412.4	1412.4	1412.4	1412.4	1412.4	1412.4	1412.4	1412.4	1412.4	1412.4
2.5°	1420.6	1413.6	1389.0	1368.7	1349.8	1328.9	1311.2	1306.1	1301.7	1299.8	1299.2
5°	1433.9	1413.0	1364.3	1324.5	1292.8	1263.7	1245.4	1237.2	1229.0	1229.0	1231.5
7.5°	1452.9	1414.9	1339.6	1280.2	1240.3	1213.1	1199.9	1198.6	1200.5	1202.4	1203.0
10°	1473.7	1413.6	1303.6	1229.6	1194.2	1181.5	1182.1	1192.9	1203.0	1210.6	1211.9
12.5°	1494.0	1406.1	1261.2	1182.1	1159.4	1161.9	1179.6	1203.7	1223.3	1234.0	1234.6
15°	1516.7	1394.0	1210.0	1137.2	1129.7	1149.3	1182.1	1218.8	1248.6	1266.3	1268.2
17.5°	1535.7	1373.8	1156.2	1093.6	1103.1	1139.1	1184.7	1232.1	1268.2	1290.3	1294.1
20°	1557.2	1347.9	1100.6	1051.9	1079.1	1127.8	1179.6	1230.9	1268.2	1289.7	1294.7
22.5°	1574.3	1311.2	1047.4	1017.7	1057.5	1113.8	1162.5	1203.7	1234.0	1245.4	1253.0
25°	1581.3	1265.0	997.5	989.9	1040.5	1091.1	1124.0	1147.4	1156.8	1155.6	1158.7
27.5°	1577.5	1211.9	954.4	967.7	1019.0	1055.6	1072.1	1070.2	1053.1	1037.3	1044.9
30°	1561.7	1148.6	918.4	945.0	991.1	1011.4	1008.8	984.2	951.9	922.2	924.1
32.5°	1533.2	1080.3	884.9	919.0	951.9	960.8	943.7	911.4	865.3	826.7	821.0
35°	1509.2	1015.2	855.1	889.3	912.7	908.3	891.8	850.1	808.3	774.2	768.5
37.5°	1505.4	959.5	826.7	855.8	869.1	862.7	842.5	807.1	791.9	766.0	762.8
40°	1525.6	920.3	797.6	820.4	826.7	821.6	799.5	779.2	793.2	786.8	786.8
42.5°	1580.6	899.4	771.7	784.9	790.0	793.8	778.0	760.9	778.0	748.9	739.4
45°	1667.9	900.1	748.3	750.1	765.3	778.6	767.9	742.6	733.7	675.5	664.1
47.5°	1796.3	921.6	729.3	717.3	744.5	766.6	751.4	714.7	675.5	636.9	630.0
50°	1946.2	960.1	712.2	683.1	716.6	751.4	740.0	697.0	656.5	633.1	628.7
52.5°	2112.6	1008.8	691.3	645.2	682.5	744.5	742.6	694.5	638.8	623.0	619.2
55°	2318.1	1056.9	665.4	600.9	652.1	738.8	735.6	673.6	635.0	623.6	622.4
57.5°	2557.2	1126.5	628.1	556.0	617.3	715.4	708.4	661.0	622.4	614.2	613.5
60°	2942.4	1234.6	574.9	514.9	581.9	674.2	683.1	639.5	602.1	600.2	599.6
62.5°	3449.0	1386.4	519.9	472.5	540.8	621.1	646.4	610.4	580.6	590.1	591.4
65°	4148.6	1514.2	463.0	436.4	495.3	569.9	611.6	583.2	556.6	574.9	574.9
67.5°	4604.6	1516.7	411.1	399.1	449.1	526.9	574.9	550.9	525.6	556.6	557.9
70°	4509.7	1328.9	368.1	359.9	404.2	480.7	534.5	515.5	486.4	514.2	504.1
71°	4356.7	1224.5	351.0	344.7	386.5	458.6	515.5	499.7	470.6	488.9	483.2
72.5°	4112.5	1063.2	323.2	324.5	359.9	430.7	488.9	472.5	443.4	453.5	451.6
75°	3476.2	928.5	276.4	282.1	309.3	383.3	435.8	423.1	393.4	393.4	391.5
77.5°	2173.3	648.9	229.6	232.8	262.5	328.3	374.4	363.7	335.2	325.7	323.2
80°	810.9	335.2	179.6	183.4	201.8	258.7	309.9	299.8	270.7	260.0	249.8
82.5°	306.8	168.2	132.2	129.0	148.6	197.3	242.9	230.9	208.1	182.2	174.6
85°	115.7	83.5	81.0	78.4	87.3	117.0	150.5	148.0	124.0	105.6	103.7
87.5°	30.4	27.2	31.6	23.4	24.7	22.1	22.8	9.5	4.4	1.9	1.3
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)