

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: P594369

Luminaire Tested: **ISC-PA1F-727-U-T4W**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594369  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: ISC-PA1F-727-U-T4W  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 70 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9527 lumens  
Efficiency: N/A  
Efficacy: 100.9 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3

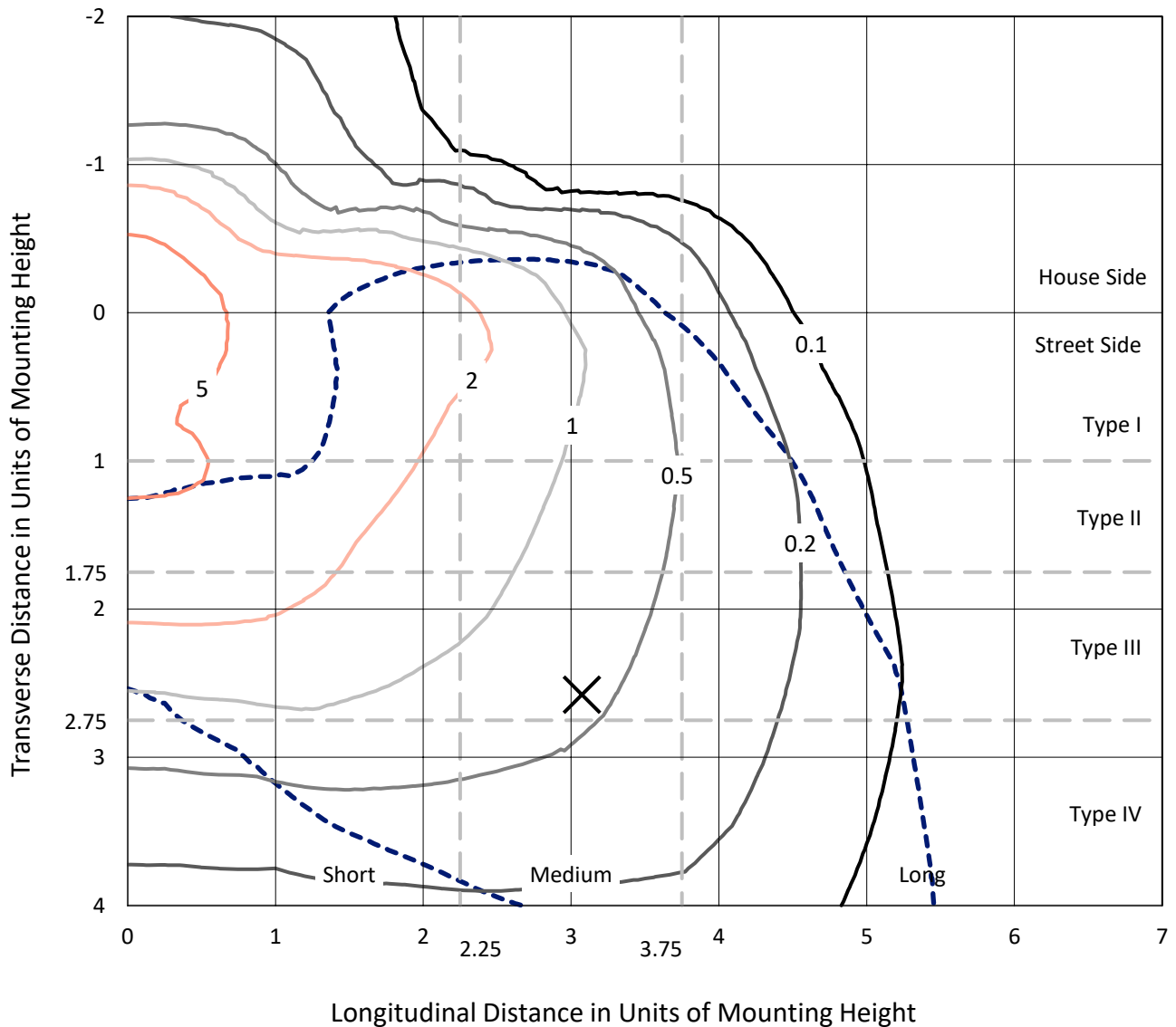
Input Watts (W): 94.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

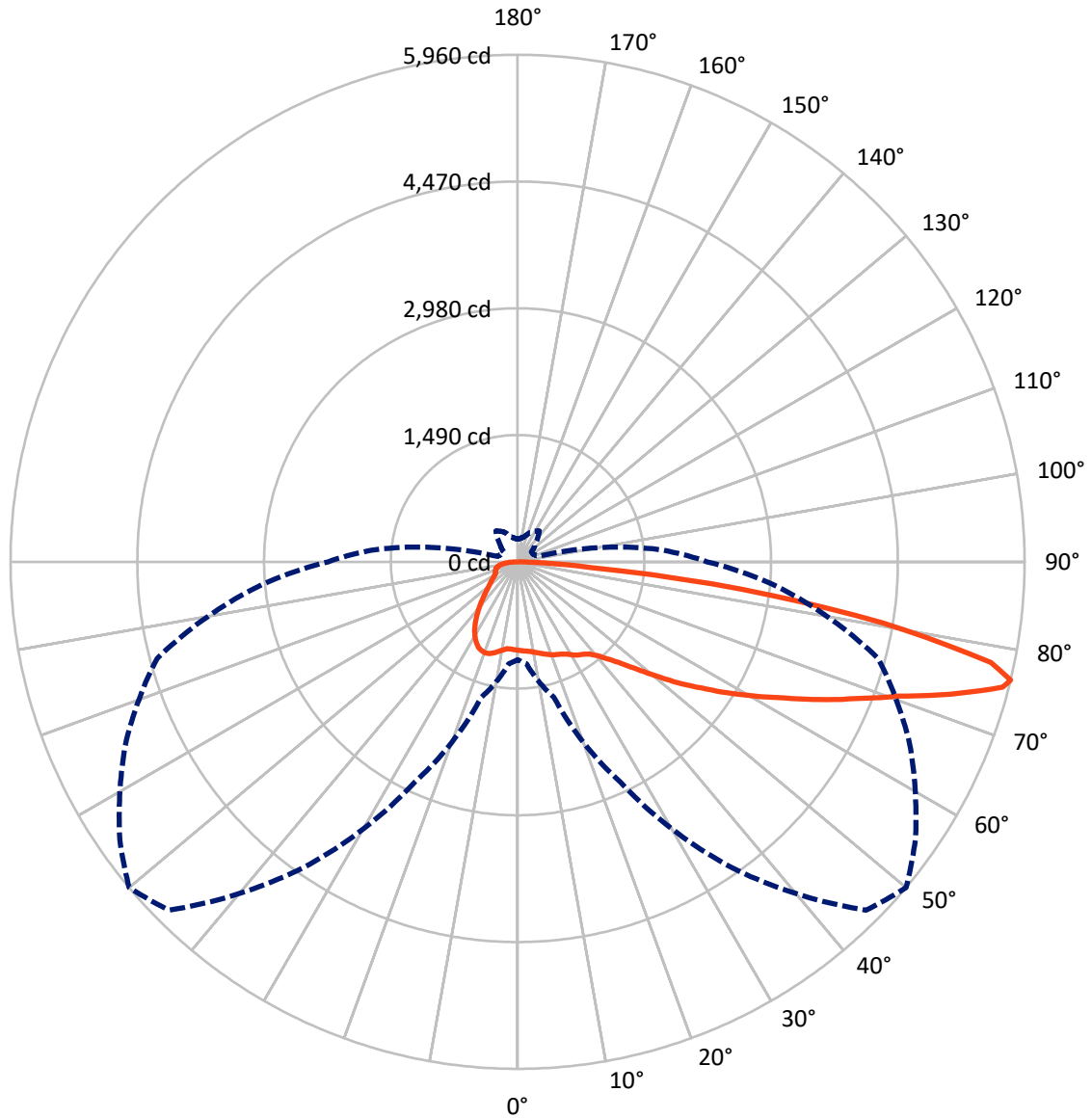
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.8 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral      - - - Horizontal Cone Through 76-Deg Vertical

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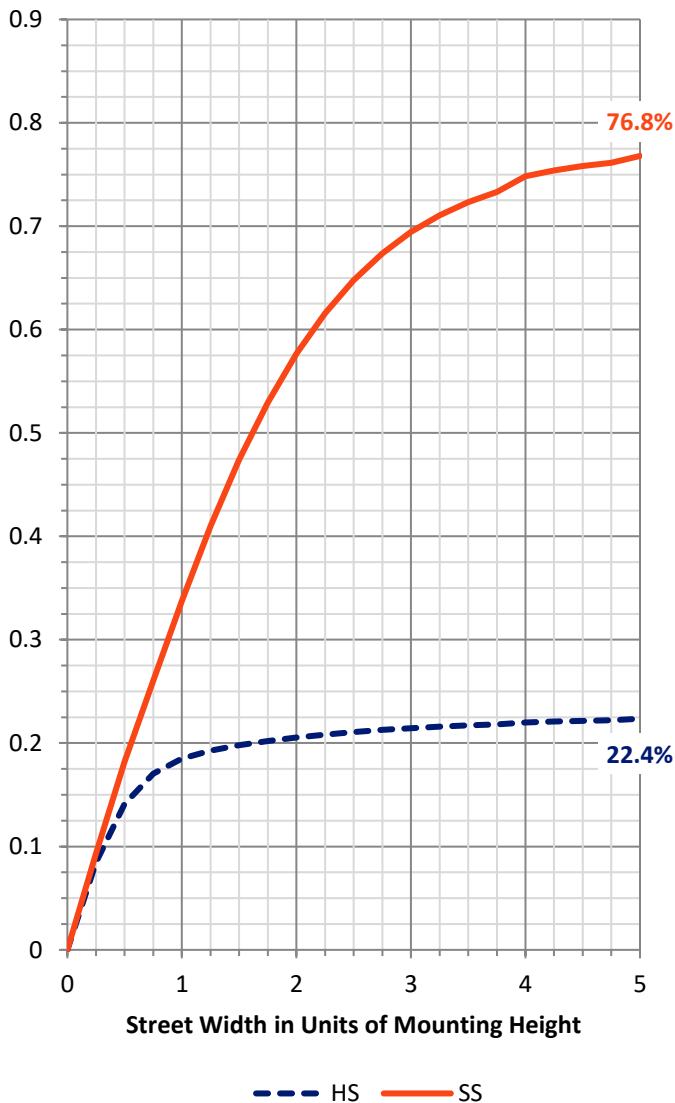
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2179.4	0.0	2179.4
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	7347.6	0.0	7347.6
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	9527.0	0.0	9527.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.8	1.1
10°-20°	317.0	3.3
20°-30°	535.5	5.6
30°-40°	734.0	7.7
40°-50°	1081.1	11.3
50°-60°	1700.6	17.9
60°-70°	2447.9	25.7
70°-80°	2225.8	23.4
80°-90°	384.3	4.0
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°	9527.0	100.0
0°-180°	9527.0	100.0

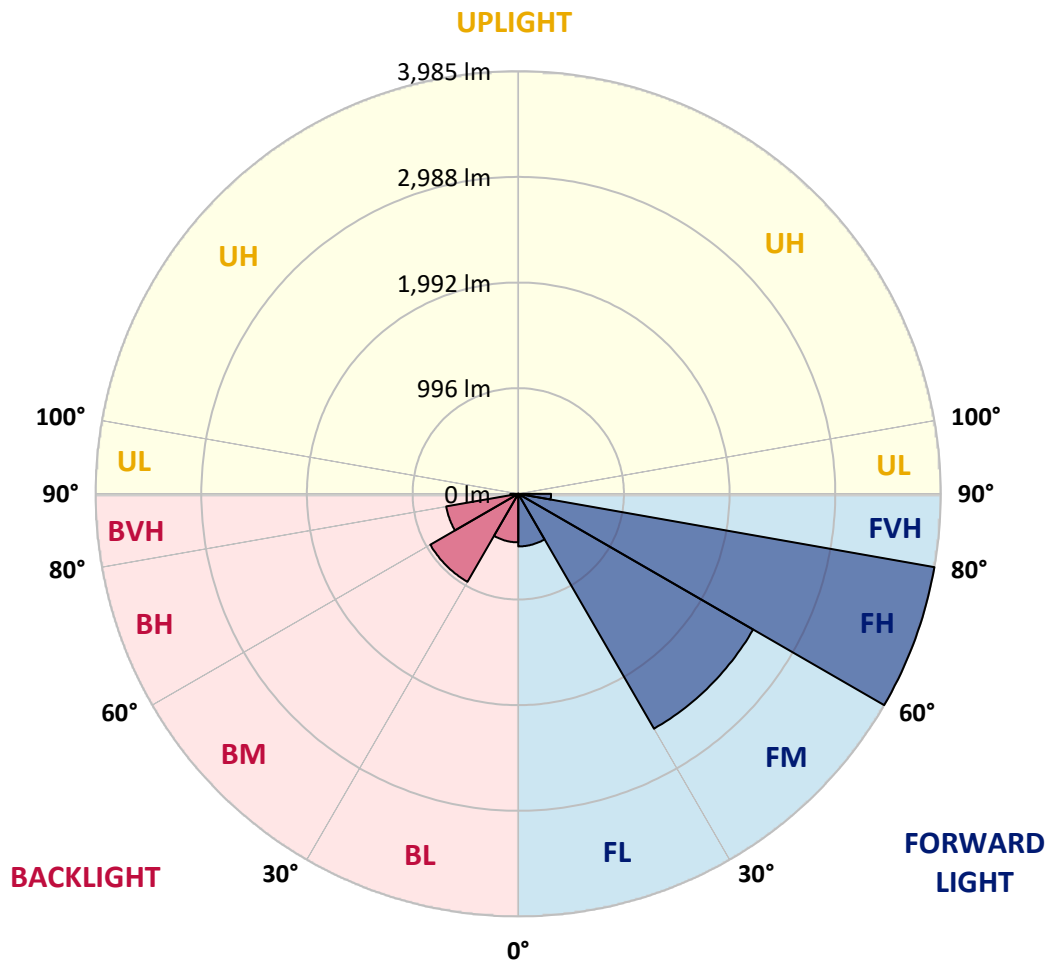


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	495.8	5.2			
FM (30°-60°)	2557.8	26.8			
FH (60°-80°)	3984.6	41.8			G2/5000
FVH (80°-90°)	309.3	3.2			G3/500
BL (0°-30°)	457.5	4.8	B1/500		
BM (30°-60°)	957.9	10.1	B1/1000		
BH (60°-80°)	689.1	7.2	B2/1000		G2/1000
BVH (80°-90°)	75.0	0.8			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°	45°	50°	55°	65°	75°	85°
0°	1038.4	1038.4	1038.4	1038.4	1038.4	1038.4	1038.4	1038.4	1038.4	1038.4	1038.4
2.5°	1061.8	1061.8	1064.1	1059.4	1059.4	1047.8	1047.8	1045.4	1040.8	1038.4	1033.8
5°	1101.4	1101.4	1094.4	1082.8	1075.8	1061.8	1054.8	1050.1	1040.8	1029.1	1017.4
7.5°	1143.4	1138.8	1134.1	1115.4	1101.4	1075.8	1064.1	1057.1	1038.4	1022.1	1015.1
10°	1187.8	1180.8	1169.1	1145.8	1124.8	1094.4	1080.4	1071.1	1050.1	1036.1	1019.8
12.5°	1213.4	1213.4	1199.4	1171.4	1143.4	1106.1	1099.1	1087.4	1066.4	1047.8	1031.4
15°	1239.1	1241.4	1227.4	1194.8	1162.1	1134.1	1122.4	1115.4	1092.1	1064.1	1043.1
17.5°	1264.8	1262.4	1248.4	1211.1	1176.1	1150.4	1143.4	1134.1	1110.8	1085.1	1064.1
20°	1283.4	1278.8	1274.1	1227.4	1192.4	1176.1	1166.8	1159.8	1136.4	1108.4	1080.4
22.5°	1288.1	1292.8	1288.1	1232.1	1204.1	1185.4	1183.1	1176.1	1157.4	1131.8	1103.8
25°	1290.4	1292.8	1299.8	1246.1	1220.4	1206.4	1201.8	1197.1	1183.1	1162.1	1124.8
27.5°	1302.1	1304.4	1304.4	1255.4	1241.4	1232.1	1227.4	1227.4	1220.4	1194.8	1157.4
30°	1304.4	1306.8	1311.4	1278.8	1274.1	1267.1	1269.4	1267.1	1255.4	1227.4	1185.4
32.5°	1320.8	1323.1	1334.8	1292.8	1297.4	1304.4	1306.8	1304.4	1281.1	1257.8	1222.8
35°	1374.4	1372.1	1381.5	1327.8	1323.1	1325.4	1332.4	1330.1	1320.8	1299.8	1276.4
37.5°	1547.1	1547.1	1521.5	1409.5	1374.4	1369.8	1374.4	1386.1	1388.5	1369.8	1351.1
40°	1850.5	1834.2	1820.2	1577.5	1465.5	1437.5	1451.5	1458.5	1477.1	1477.1	1477.1
42.5°	2163.2	2165.5	2160.8	1838.8	1628.8	1558.8	1561.1	1577.5	1617.1	1624.1	1645.1
45°	2440.9	2457.2	2492.2	2142.2	1869.2	1712.8	1696.5	1712.8	1768.8	1815.5	1869.2
47.5°	2657.9	2639.2	2716.2	2459.5	2144.5	1922.8	1880.8	1885.5	1962.5	2037.2	2121.2
50°	2844.6	2849.2	2884.2	2783.9	2492.2	2160.8	2104.8	2095.5	2205.2	2284.5	2426.9
52.5°	3054.6	3040.6	3091.9	3068.6	2830.6	2452.5	2363.9	2335.9	2454.9	2566.9	2720.9
55°	3154.9	3168.9	3273.9	3332.3	3150.3	2713.9	2615.9	2625.2	2751.2	2870.2	3084.9
57.5°	3332.3	3346.3	3467.6	3589.0	3435.0	2991.6	2905.2	2905.2	3047.6	3180.6	3512.0
60°	3575.0	3577.3	3701.0	3911.0	3684.6	3259.9	3203.9	3201.6	3355.6	3509.6	4016.0
62.5°	3682.3	3710.3	3894.7	4167.7	4011.3	3589.0	3523.6	3542.3	3680.0	3859.7	4578.4
65°	3537.6	3598.3	3983.3	4340.4	4303.0	3932.0	3906.3	3932.0	4016.0	4209.7	5173.4
67.5°	3059.3	3140.9	3820.0	4457.0	4536.4	4328.7	4291.4	4286.7	4340.4	4557.4	5549.1
70°	2811.9	2860.9	3388.3	4501.4	4723.1	4730.1	4730.1	4699.7	4692.7	4851.4	5584.1
72.5°	2314.9	2366.2	2858.6	4254.0	4900.4	5266.8	5320.5	5208.4	5035.8	5003.1	4998.4
75°	1649.8	1687.1	2111.8	3346.3	4674.1	5782.5	5889.8	5672.8	5192.1	4671.7	3645.0
76°	1150.4	1204.1	1649.8	2858.6	4389.4	5791.8	5959.8	5707.8	5087.1	4387.0	3003.3
77.5°	583.4	602.1	954.4	1920.5	3673.0	5525.8	5689.1	5406.8	4629.7	3544.6	1906.5
80°	221.7	228.7	340.7	700.1	2016.2	4291.4	4354.4	3974.0	3063.9	1514.5	686.1
82.5°	116.7	121.3	191.3	345.4	828.4	2359.2	2662.6	2216.9	1201.8	455.0	200.7
85°	58.3	63.0	112.0	210.0	410.7	737.4	854.1	807.4	399.0	172.7	74.7
87.5°	23.3	28.0	56.0	93.3	165.7	144.7	161.0	207.7	128.3	81.7	25.7
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°	1038.4	1038.4	1038.4	1038.4	1038.4	1038.4	1038.4	1038.4	1038.4	1038.4	1038.4
2.5°	1033.8	1031.4	1033.8	1031.4	1033.8	1033.8	1036.1	1031.4	1031.4	1036.1	1029.1
5°	1017.4	1015.1	1017.4	1022.1	1024.4	1029.1	1038.4	1036.1	1040.8	1045.4	1047.8
7.5°	1010.4	1008.1	1015.1	1017.4	1024.4	1033.8	1047.8	1057.1	1061.8	1071.1	1066.4
10°	1017.4	1017.4	1026.8	1033.8	1045.4	1057.1	1068.8	1078.1	1089.8	1096.8	1094.4
12.5°	1029.1	1026.8	1043.1	1052.4	1068.8	1080.4	1089.8	1094.4	1103.8	1113.1	1110.8
15°	1040.8	1043.1	1066.4	1085.1	1103.8	1108.4	1110.8	1106.1	1110.8	1115.4	1115.4
17.5°	1064.1	1066.4	1092.1	1113.1	1129.4	1124.8	1113.1	1101.4	1101.4	1103.8	1106.1
20°	1082.8	1087.4	1117.8	1136.4	1145.8	1127.1	1108.4	1094.4	1087.4	1089.8	1087.4
22.5°	1103.8	1113.1	1143.4	1152.8	1138.8	1115.4	1092.1	1073.4	1073.4	1075.8	1075.8
25°	1129.4	1134.1	1155.1	1150.4	1124.8	1089.8	1071.1	1064.1	1061.8	1064.1	1066.4
27.5°	1152.8	1155.1	1166.8	1134.1	1085.1	1047.8	1040.8	1043.1	1045.4	1047.8	1050.1
30°	1183.1	1187.8	1176.1	1110.8	1036.1	994.1	994.1	1008.1	1012.8	1019.8	1017.4
32.5°	1220.4	1225.1	1190.1	1080.4	973.1	931.1	933.4	954.4	968.4	973.1	975.4
35°	1283.4	1274.1	1199.4	1038.4	905.4	854.1	856.4	882.1	900.7	907.7	903.1
37.5°	1360.4	1358.1	1213.4	984.8	821.4	774.7	777.1	788.7	807.4	809.7	812.1
40°	1488.8	1470.1	1236.8	914.7	737.4	693.1	688.4	695.4	693.1	697.7	700.1
42.5°	1673.1	1624.1	1267.1	835.4	662.7	616.1	611.4	599.7	585.7	571.7	564.7
45°	1890.2	1813.2	1304.4	753.7	585.7	543.7	532.0	518.0	490.0	459.7	450.4
47.5°	2170.2	2023.2	1346.4	672.1	513.4	480.7	471.4	450.4	417.7	382.7	375.7
50°	2457.2	2270.5	1388.5	604.4	455.0	436.4	427.0	406.0	364.0	331.4	324.4
52.5°	2790.9	2515.5	1432.8	543.7	403.7	403.7	396.7	364.0	324.4	294.0	289.4
55°	3175.9	2767.6	1502.8	485.4	366.4	375.7	366.4	333.7	296.4	275.4	273.0
57.5°	3635.6	3087.3	1591.5	422.4	333.7	340.7	340.7	317.4	291.7	277.7	275.4
60°	4097.7	3411.6	1647.5	375.7	308.0	315.0	329.0	317.4	301.0	294.0	291.7
62.5°	4541.1	3743.0	1551.8	336.0	282.4	303.4	338.4	340.7	324.4	326.7	326.7
65°	4872.4	3995.0	1255.4	301.0	266.0	310.4	366.4	368.7	340.7	333.7	331.4
67.5°	4986.8	4065.0	844.7	277.7	256.7	315.0	399.0	389.7	340.7	326.7	319.7
70°	4769.7	3808.3	548.4	256.7	242.7	310.4	424.7	401.4	338.4	317.4	308.0
72.5°	3999.7	3248.3	366.4	238.0	228.7	305.7	441.0	401.4	331.4	301.0	291.7
75°	2776.9	2219.2	273.0	214.7	207.7	298.7	445.7	394.4	315.0	282.4	275.4
76°	2228.5	1663.8	247.4	205.4	198.4	294.0	443.4	387.4	303.4	273.0	266.0
77.5°	1407.1	956.7	207.7	189.0	184.3	284.7	434.0	371.0	287.0	256.7	249.7
80°	492.4	350.0	158.7	154.0	156.3	263.7	408.4	338.4	254.4	226.4	217.0
82.5°	196.0	161.0	119.0	119.0	123.7	226.4	368.7	298.7	221.7	186.7	172.7
85°	77.0	70.0	84.0	84.0	88.7	184.3	308.0	233.4	151.7	116.7	112.0
87.5°	23.3	32.7	37.3	39.7	42.0	93.3	175.0	102.7	67.7	49.0	39.7
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)