

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: P594387

Luminaire Tested: **ISC-PA1F-735-U-T4W**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594387  
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-735-U-T4W  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 70 CRI, 3500K, 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: 10612 lumens  
Efficiency: N/A  
Efficacy: 112.4 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

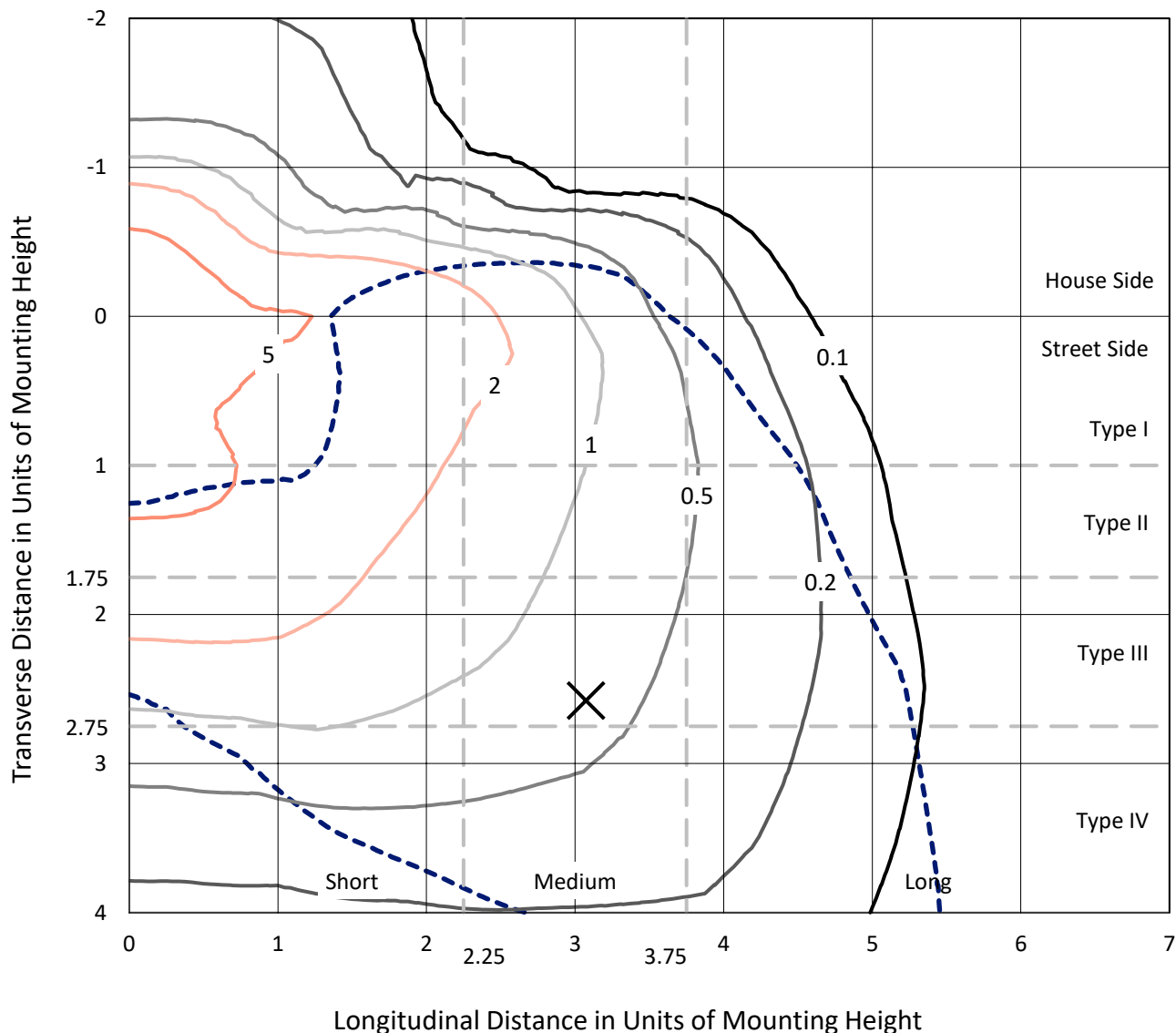
Input Watts (W): 94.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

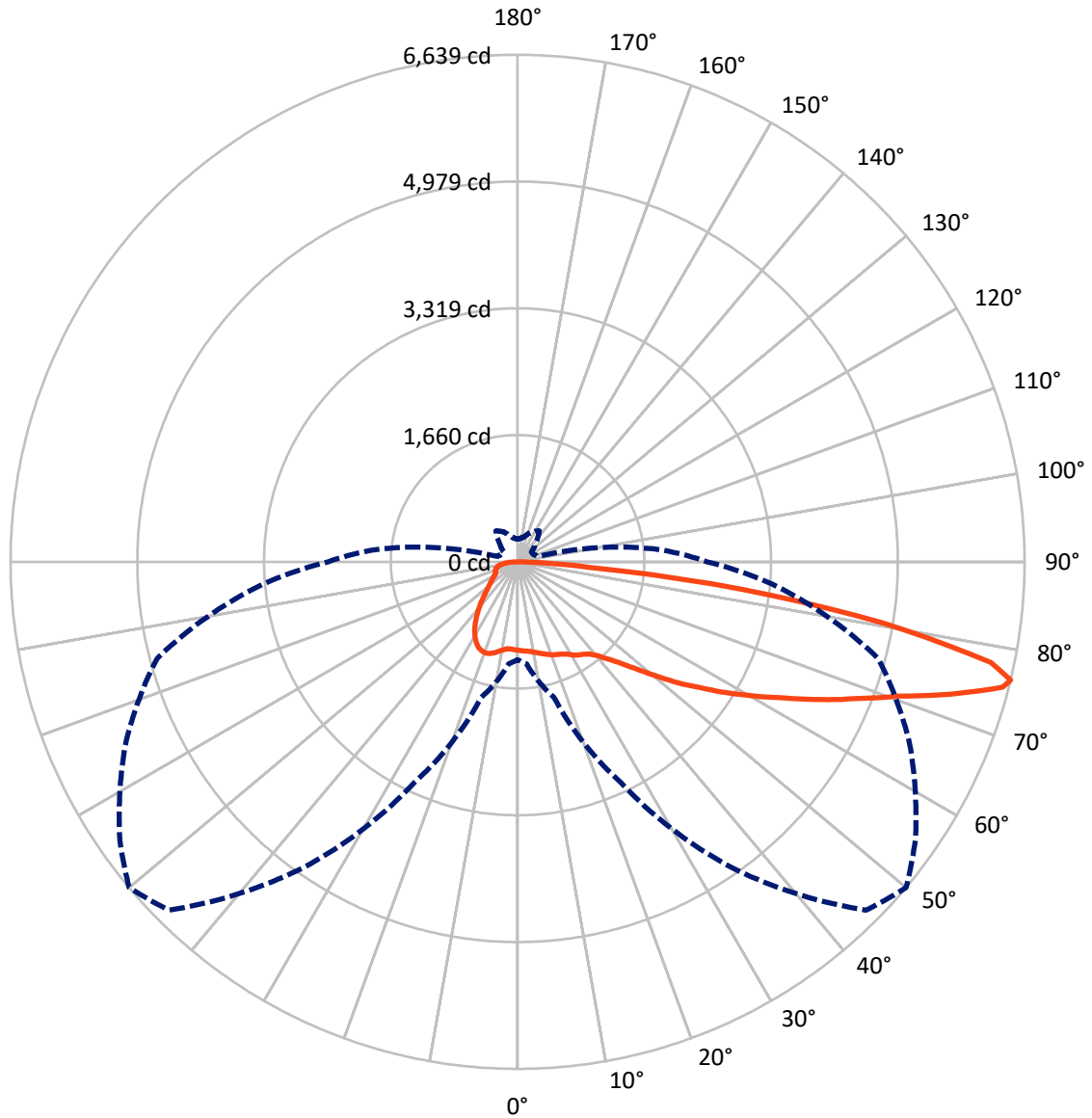
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 8.7 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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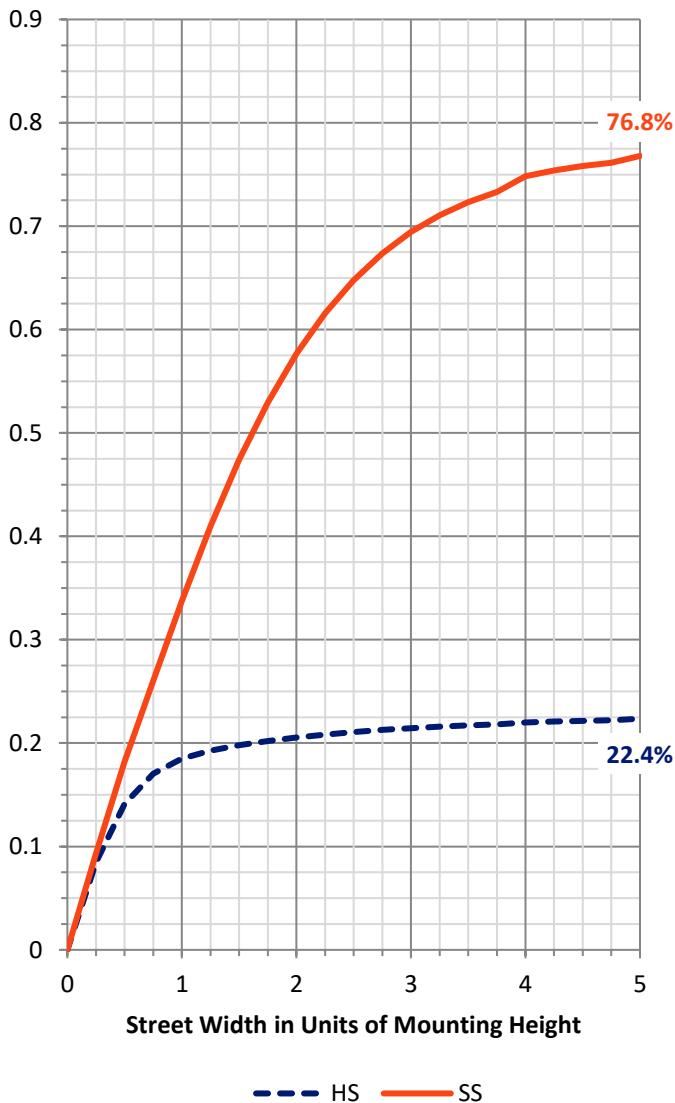
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2427.6	0.0	2427.6
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	8184.4	0.0	8184.4
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	10612.0	0.0	10612.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.3	1.1
10°-20°	353.1	3.3
20°-30°	596.5	5.6
30°-40°	817.6	7.7
40°-50°	1204.2	11.3
50°-60°	1894.3	17.9
60°-70°	2726.6	25.7
70°-80°	2479.3	23.4
80°-90°	428.0	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°	10612.0	100.0
0°-180°	10612.0	100.0

**Coefficient of Utilization**

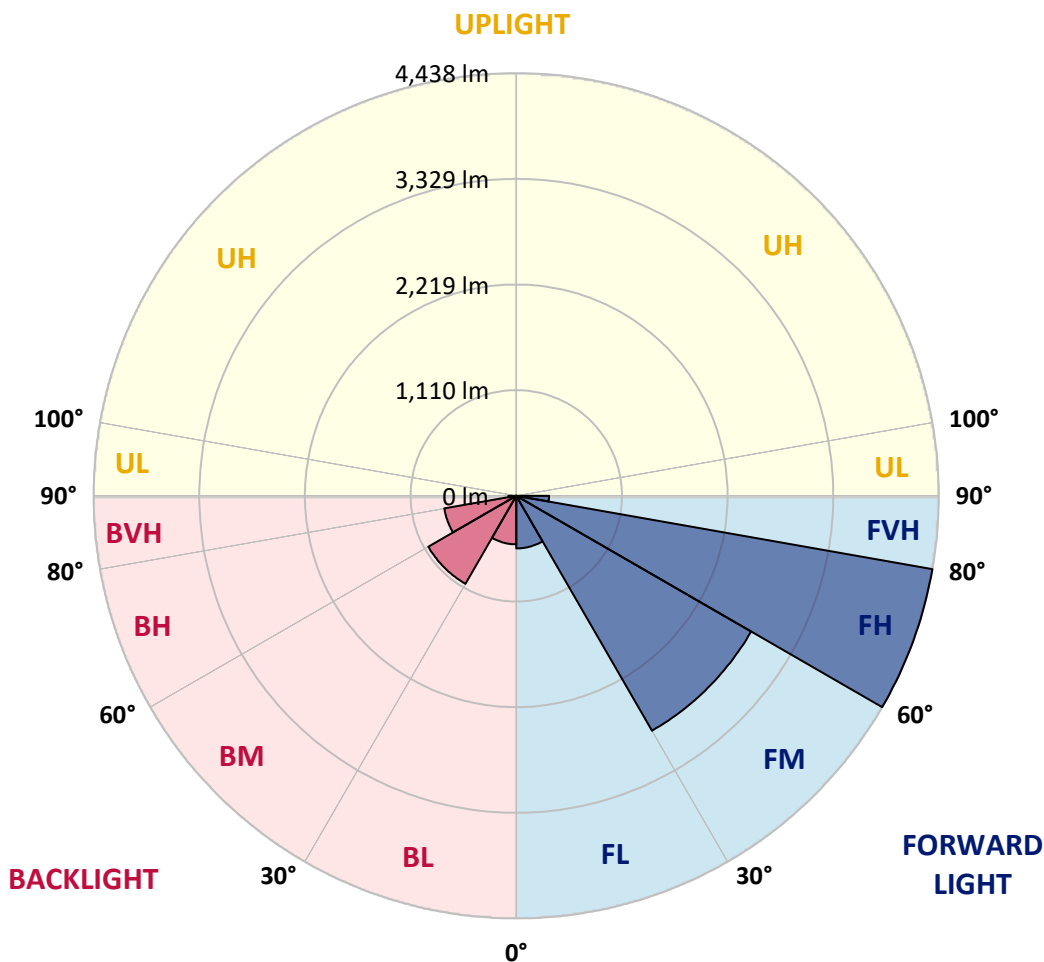


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	552.3	5.2			
FM (30°-60°)	2849.1	26.8			
FH (60°-80°)	4438.4	41.8			G2/5000
FVH (80°-90°)	344.5	3.2			G3/500
BL (0°-30°)	509.6	4.8	B2/1000		
BM (30°-60°)	1067.0	10.1	B2/2500		
BH (60°-80°)	767.5	7.2	B2/1000		G2/1000
BVH (80°-90°)	83.5	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°	1156.7	1156.7	1156.7	1156.7	1156.7	1156.7	1156.7	1156.7	1156.7	1156.7	1156.7
2.5°	1182.7	1182.7	1185.3	1180.1	1180.1	1167.1	1167.1	1164.5	1159.3	1156.7	1151.5
5°	1226.9	1226.9	1219.1	1206.1	1198.3	1182.7	1174.9	1169.7	1159.3	1146.3	1133.3
7.5°	1273.7	1268.5	1263.3	1242.5	1226.9	1198.3	1185.3	1177.5	1156.7	1138.5	1130.7
10°	1323.0	1315.2	1302.2	1276.3	1252.9	1219.1	1203.5	1193.1	1169.7	1154.1	1135.9
12.5°	1351.6	1351.6	1336.0	1304.8	1273.7	1232.1	1224.3	1211.3	1187.9	1167.1	1148.9
15°	1380.2	1382.8	1367.2	1330.8	1294.4	1263.3	1250.3	1242.5	1216.5	1185.3	1161.9
17.5°	1408.8	1406.2	1390.6	1349.0	1310.0	1281.4	1273.7	1263.3	1237.3	1208.7	1185.3
20°	1429.6	1424.4	1419.2	1367.2	1328.2	1310.0	1299.6	1291.8	1265.9	1234.7	1203.5
22.5°	1434.8	1440.0	1434.8	1372.4	1341.2	1320.4	1317.8	1310.0	1289.2	1260.7	1229.5
25°	1437.4	1440.0	1447.8	1388.0	1359.4	1343.8	1338.6	1333.4	1317.8	1294.4	1252.9
27.5°	1450.4	1453.0	1453.0	1398.4	1382.8	1372.4	1367.2	1367.2	1359.4	1330.8	1289.2
30°	1453.0	1455.6	1460.8	1424.4	1419.2	1411.4	1414.0	1411.4	1398.4	1367.2	1320.4
32.5°	1471.2	1473.8	1486.8	1440.0	1445.2	1453.0	1455.6	1453.0	1427.0	1401.0	1362.0
35°	1531.0	1528.4	1538.8	1479.0	1473.8	1476.4	1484.2	1481.6	1471.2	1447.8	1421.8
37.5°	1723.3	1723.3	1694.7	1570.0	1531.0	1525.8	1531.0	1544.0	1546.6	1525.8	1505.0
40°	2061.2	2043.0	2027.4	1757.1	1632.4	1601.2	1616.8	1624.6	1645.4	1645.4	1645.4
42.5°	2409.5	2412.1	2406.9	2048.2	1814.3	1736.3	1738.9	1757.1	1801.3	1809.1	1832.5
45°	2718.9	2737.1	2776.0	2386.1	2082.0	1907.9	1889.7	1907.9	1970.3	2022.2	2082.0
47.5°	2960.6	2939.8	3025.6	2739.7	2388.7	2141.8	2095.0	2100.2	2186.0	2269.2	2362.8
50°	3168.5	3173.7	3212.7	3101.0	2776.0	2406.9	2344.6	2334.2	2456.3	2544.7	2703.3
52.5°	3402.5	3386.9	3444.1	3418.1	3152.9	2731.9	2633.1	2601.9	2734.5	2859.2	3030.8
55°	3514.2	3529.8	3646.8	3711.8	3509.0	3023.0	2913.8	2924.2	3064.6	3197.1	3436.3
57.5°	3711.8	3727.4	3862.5	3997.7	3826.2	3332.3	3236.1	3236.1	3394.7	3542.8	3911.9
60°	3982.1	3984.7	4122.5	4356.4	4104.3	3631.2	3568.8	3566.2	3737.8	3909.3	4473.4
62.5°	4101.7	4132.9	4338.2	4642.3	4468.2	3997.7	3924.9	3945.7	4099.1	4299.2	5099.8
65°	3940.5	4008.1	4437.0	4834.7	4793.1	4379.8	4351.2	4379.8	4473.4	4689.1	5762.6
67.5°	3407.7	3498.6	4255.0	4964.6	5053.0	4821.7	4780.1	4774.9	4834.7	5076.4	6181.1
70°	3132.1	3186.7	3774.2	5014.0	5261.0	5268.8	5268.8	5235.0	5227.2	5403.9	6220.1
72.5°	2578.5	2635.7	3184.1	4738.5	5458.5	5866.6	5926.4	5801.6	5609.3	5572.9	5567.7
75°	1837.7	1879.3	2352.4	3727.4	5206.4	6441.0	6560.6	6318.9	5783.4	5203.8	4060.1
76°	1281.4	1341.2	1837.7	3184.1	4889.3	6451.4	6638.6	6357.9	5666.5	4886.7	3345.3
77.5°	649.8	670.6	1063.1	2139.2	4091.3	6155.1	6337.1	6022.6	5157.0	3948.3	2123.6
80°	246.9	254.7	379.5	779.8	2245.8	4780.1	4850.3	4426.6	3412.9	1686.9	764.2
82.5°	130.0	135.2	213.1	384.7	922.7	2627.9	2965.8	2469.3	1338.6	506.9	223.5
85°	65.0	70.2	124.8	233.9	457.5	821.4	951.3	899.4	444.5	192.3	83.2
87.5°	26.0	31.2	62.4	104.0	184.5	161.2	179.4	231.3	143.0	91.0	28.6
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°	1156.7	1156.7	1156.7	1156.7	1156.7	1156.7	1156.7	1156.7	1156.7	1156.7	1156.7
2.5°	1151.5	1148.9	1151.5	1148.9	1151.5	1151.5	1154.1	1148.9	1148.9	1154.1	1146.3
5°	1133.3	1130.7	1133.3	1138.5	1141.1	1146.3	1156.7	1154.1	1159.3	1164.5	1167.1
7.5°	1125.5	1122.9	1130.7	1133.3	1141.1	1151.5	1167.1	1177.5	1182.7	1193.1	1187.9
10°	1133.3	1133.3	1143.7	1151.5	1164.5	1177.5	1190.5	1200.9	1213.9	1221.7	1219.1
12.5°	1146.3	1143.7	1161.9	1172.3	1190.5	1203.5	1213.9	1219.1	1229.5	1239.9	1237.3
15°	1159.3	1161.9	1187.9	1208.7	1229.5	1234.7	1237.3	1232.1	1237.3	1242.5	1242.5
17.5°	1185.3	1187.9	1216.5	1239.9	1258.1	1252.9	1239.9	1226.9	1226.9	1229.5	1232.1
20°	1206.1	1211.3	1245.1	1265.9	1276.3	1255.5	1234.7	1219.1	1211.3	1213.9	1211.3
22.5°	1229.5	1239.9	1273.7	1284.0	1268.5	1242.5	1216.5	1195.7	1195.7	1198.3	1198.3
25°	1258.1	1263.3	1286.6	1281.4	1252.9	1213.9	1193.1	1185.3	1182.7	1185.3	1187.9
27.5°	1284.0	1286.6	1299.6	1263.3	1208.7	1167.1	1159.3	1161.9	1164.5	1167.1	1169.7
30°	1317.8	1323.0	1310.0	1237.3	1154.1	1107.3	1107.3	1122.9	1128.1	1135.9	1133.3
32.5°	1359.4	1364.6	1325.6	1203.5	1083.9	1037.1	1039.7	1063.1	1078.7	1083.9	1086.5
35°	1429.6	1419.2	1336.0	1156.7	1008.5	951.3	953.9	982.5	1003.3	1011.1	1005.9
37.5°	1515.4	1512.8	1351.6	1096.9	914.9	863.0	865.6	878.6	899.4	902.0	904.6
40°	1658.3	1637.6	1377.6	1018.9	821.4	772.0	766.8	774.6	772.0	777.2	779.8
42.5°	1863.7	1809.1	1411.4	930.5	738.2	686.2	681.0	668.0	652.4	636.8	629.0
45°	2105.4	2019.6	1453.0	839.6	652.4	605.6	592.6	577.0	545.9	512.1	501.7
47.5°	2417.3	2253.6	1499.8	748.6	571.8	535.5	525.1	501.7	465.3	426.3	418.5
50°	2737.1	2529.1	1546.6	673.2	506.9	486.1	475.7	452.3	405.5	369.1	361.3
52.5°	3108.8	2802.0	1596.0	605.6	449.7	449.7	441.9	405.5	361.3	327.5	322.3
55°	3537.6	3082.8	1673.9	540.7	408.1	418.5	408.1	371.7	330.1	306.7	304.1
57.5°	4049.7	3438.9	1772.7	470.5	371.7	379.5	379.5	353.5	324.9	309.3	306.7
60°	4564.4	3800.2	1835.1	418.5	343.1	350.9	366.5	353.5	335.3	327.5	324.9
62.5°	5058.2	4169.3	1728.5	374.3	314.5	337.9	376.9	379.5	361.3	363.9	363.9
65°	5427.3	4450.0	1398.4	335.3	296.3	345.7	408.1	410.7	379.5	371.7	369.1
67.5°	5554.7	4528.0	940.9	309.3	285.9	350.9	444.5	434.1	379.5	363.9	356.1
70°	5312.9	4242.0	610.8	285.9	270.3	345.7	473.1	447.1	376.9	353.5	343.1
72.5°	4455.2	3618.2	408.1	265.1	254.7	340.5	491.3	447.1	369.1	335.3	324.9
75°	3093.2	2471.9	304.1	239.1	231.3	332.7	496.5	439.3	350.9	314.5	306.7
76°	2482.3	1853.3	275.5	228.7	220.9	327.5	493.9	431.5	337.9	304.1	296.3
77.5°	1567.4	1065.7	231.3	210.5	205.3	317.1	483.5	413.3	319.7	285.9	278.1
80°	548.5	389.9	176.8	171.6	174.2	293.7	454.9	376.9	283.3	252.1	241.7
82.5°	218.3	179.4	132.6	132.6	137.8	252.1	410.7	332.7	246.9	207.9	192.3
85°	85.8	78.0	93.6	93.6	98.8	205.3	343.1	259.9	169.0	130.0	124.8
87.5°	26.0	36.4	41.6	44.2	46.8	104.0	194.9	114.4	75.4	54.6	44.2
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)