

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: P#

Luminaire Tested: **ARCH4-110-AMB-U-T3-PFS**

Issue Date: 12/16/2024

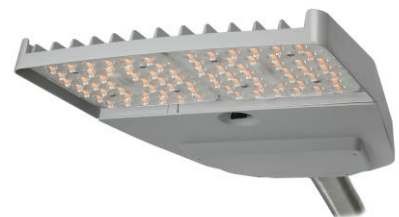
Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-129-9)
Test Lab: INNOVATION CENTER
Issue Date: 12/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ARCH4-110-AMB-U-T3-PFS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) NARROW BAND AMBER, 600mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
OPTICS WITH REAR PERIMETER FENCE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4615 lumens
Efficiency: N/A
Efficacy: 41.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

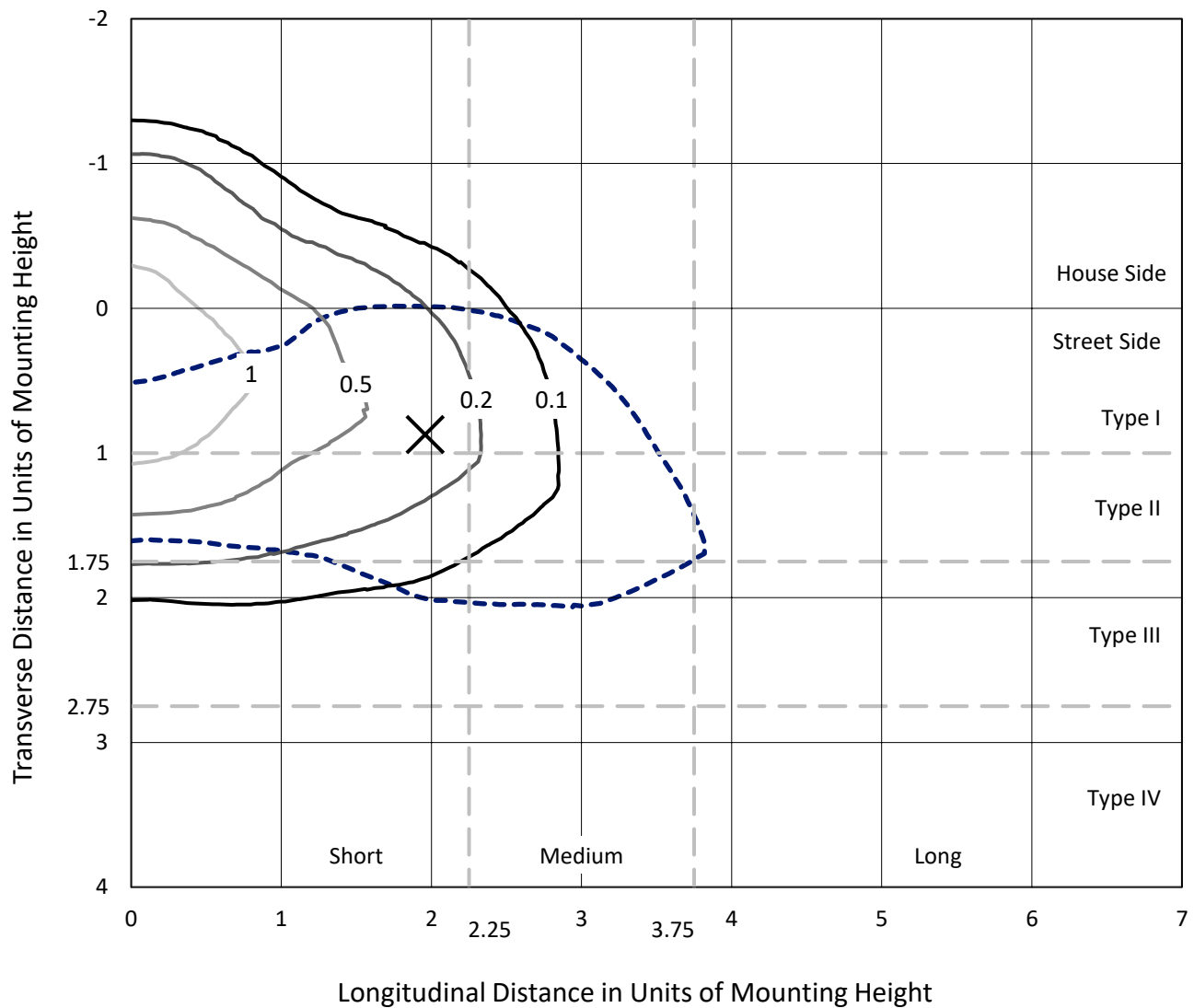
Input Watts (W): 112.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

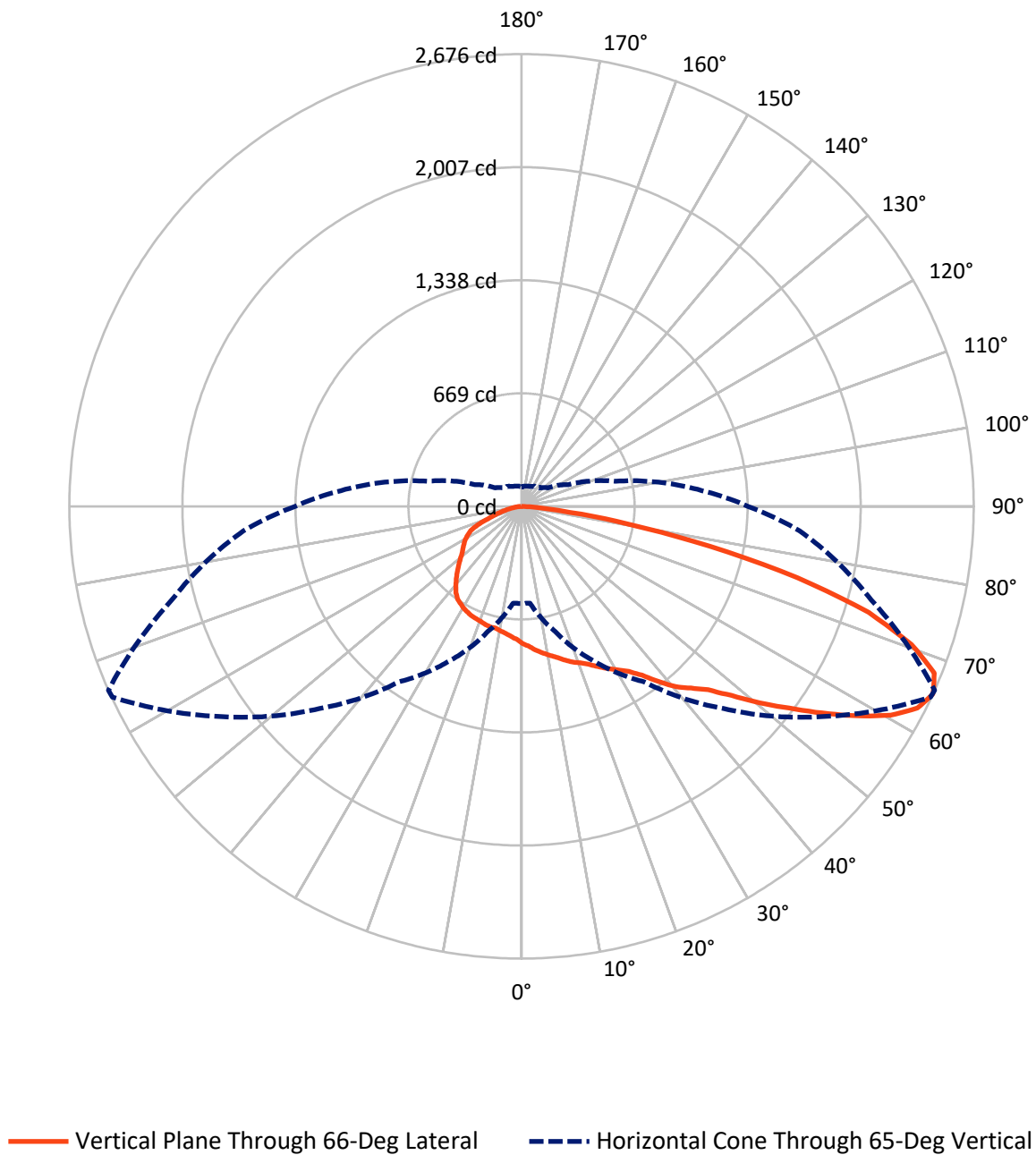
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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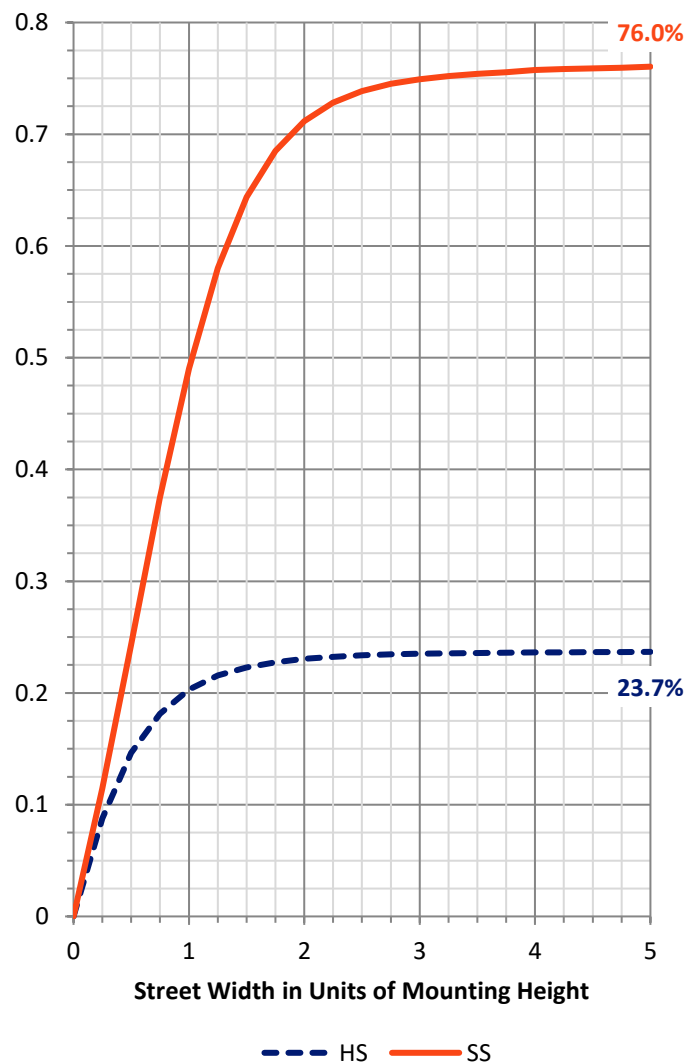
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1100.2	0.0	1100.2
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	3514.8	0.0	3514.8
	% Fixture	76.2	0.0	76.2
Total	Lumens	4615.0	0.0	4615.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.6	1.7
10°-20°	247.6	5.4
20°-30°	418.7	9.1
30°-40°	628.3	13.6
40°-50°	843.1	18.3
50°-60°	985.5	21.4
60°-70°	904.0	19.6
70°-80°	452.9	9.8
80°-90°	55.4	1.2
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°	4615.0	100.0
0°-180°	4615.0	100.0

Coefficient of Utilization



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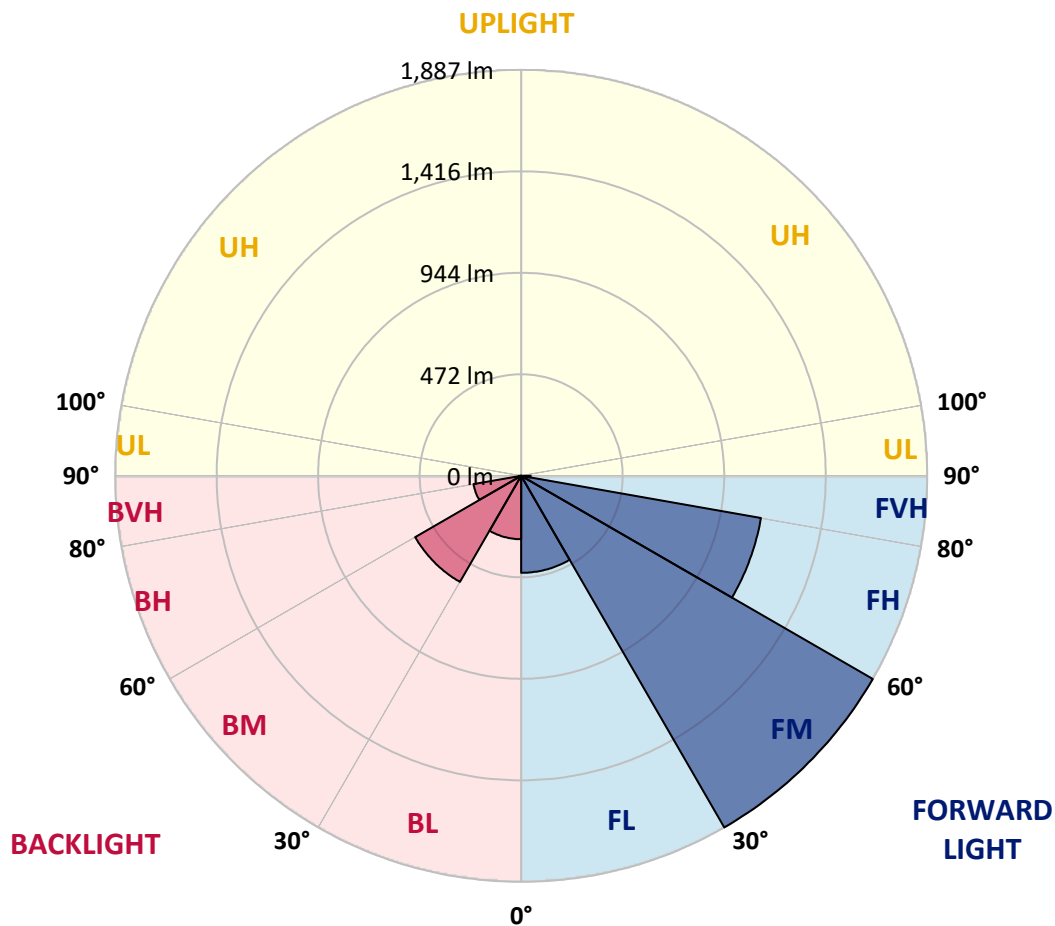
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	451.1	9.8			
FM	(30°-60°)	1887.5	40.9			
FH	(60°-80°)	1132.1	24.5			G1/1800
FVH	(80°-90°)	44.1	1.0			G1/100
BL	(0°-30°)	294.7	6.4	B1/500		
BM	(30°-60°)	569.4	12.3	B1/1000		
BH	(60°-80°)	224.9	4.9	B1/500		G1/500
BVH	(80°-90°)	11.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	812.5	812.5	812.5	812.5	812.5	812.5	812.5	812.5	812.5	812.5	812.5
2.5°	864.3	869.4	869.4	864.3	859.1	848.7	838.4	828.0	828.0	817.7	812.5
5°	926.4	936.7	931.5	921.2	910.8	895.3	874.6	853.9	853.9	833.2	817.7
7.5°	993.6	998.8	998.8	983.3	962.6	936.7	910.8	879.8	874.6	848.7	817.7
10°	1050.6	1055.7	1050.6	1035.0	1009.2	972.9	936.7	895.3	895.3	853.9	817.7
12.5°	1086.8	1092.0	1092.0	1076.4	1050.6	1014.3	967.8	916.0	916.0	869.4	822.9
15°	1107.5	1107.5	1117.8	1107.5	1092.0	1060.9	1009.2	947.1	941.9	885.0	828.0
17.5°	1107.5	1112.7	1123.0	1128.2	1128.2	1102.3	1045.4	972.9	967.8	895.3	833.2
20°	1107.5	1107.5	1123.0	1138.5	1148.9	1133.4	1081.6	998.8	988.5	910.8	838.4
22.5°	1128.2	1128.2	1138.5	1148.9	1164.4	1164.4	1117.8	1024.7	1014.3	926.4	848.7
25°	1211.0	1216.2	1211.0	1190.3	1200.6	1200.6	1154.1	1055.7	1050.6	947.1	864.3
27.5°	1355.9	1355.9	1345.6	1299.0	1278.3	1252.4	1195.5	1097.1	1086.8	972.9	879.8
30°	1490.5	1495.6	1490.5	1433.5	1381.8	1314.5	1242.1	1133.4	1123.0	993.6	905.7
32.5°	1599.1	1604.3	1609.5	1568.1	1495.6	1387.0	1314.5	1174.8	1164.4	1029.9	936.7
35°	1656.1	1661.2	1676.8	1650.9	1568.1	1469.8	1397.3	1236.9	1226.5	1081.6	988.5
37.5°	1687.1	1692.3	1713.0	1687.1	1599.1	1542.2	1485.3	1324.9	1314.5	1133.4	1029.9
40°	1816.5	1806.1	1816.5	1738.9	1619.8	1594.0	1578.4	1418.0	1402.5	1190.3	1086.8
42.5°	1925.2	1925.2	1920.0	1795.8	1671.6	1656.1	1661.2	1490.5	1469.8	1221.3	1102.3
45°	1966.6	1945.9	1925.2	1832.0	1775.1	1692.3	1728.5	1568.1	1547.4	1293.8	1159.2
47.5°	1992.5	1966.6	1945.9	1878.6	1847.5	1754.4	1806.1	1692.3	1671.6	1376.6	1226.5
50°	1961.4	1930.4	1940.7	1904.5	1899.3	1801.0	1883.8	1847.5	1826.8	1474.9	1324.9
52.5°	1847.5	1837.2	1873.4	1894.1	1868.3	1821.7	1966.6	2013.2	1982.1	1578.4	1407.7
55°	1635.4	1635.4	1733.7	1816.5	1837.2	1837.2	2054.6	2183.9	2158.1	1697.5	1480.1
57.5°	1407.7	1397.3	1490.5	1687.1	1769.9	1852.7	2132.2	2365.1	2339.2	1816.5	1537.0
60°	1102.3	1102.3	1221.3	1454.2	1666.4	1852.7	2199.5	2535.9	2510.0	1940.7	1583.6
62.5°	822.9	822.9	998.8	1195.5	1474.9	1801.0	2220.2	2639.4	2629.0	2049.4	1619.8
65°	574.4	574.4	765.9	1009.2	1267.9	1692.3	2168.4	2670.4	2675.6	2142.5	1650.9
67.5°	320.9	326.0	527.9	781.5	1076.4	1562.9	2033.9	2603.1	2634.2	2158.1	1583.6
70°	191.5	191.5	336.4	543.4	817.7	1418.0	1847.5	2411.6	2447.9	1976.9	1433.5
72.5°	144.9	144.9	238.1	362.3	533.0	1097.1	1588.8	2085.6	2147.7	1661.2	1143.7
75°	113.9	113.9	155.3	238.1	331.2	626.2	1262.8	1635.4	1687.1	1231.7	864.3
77.5°	88.0	93.2	103.5	144.9	186.3	305.3	740.1	1081.6	1138.5	848.7	626.2
80°	62.1	62.1	67.3	88.0	103.5	139.7	331.2	595.1	641.7	522.7	414.0
82.5°	31.1	31.1	36.2	46.6	51.8	72.5	144.9	274.3	289.8	284.6	253.6
85°	15.5	15.5	15.5	15.5	20.7	31.1	62.1	93.2	98.3	124.2	103.5
87.5°	5.2	5.2	5.2	5.2	5.2	5.2	10.4	15.5	15.5	15.5	15.5
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°	812.5	812.5	812.5	812.5	812.5	812.5	812.5	812.5	812.5	812.5	812.5
2.5°	807.3	802.2	797.0	786.6	786.6	781.5	771.1	771.1	771.1	771.1	765.9
5°	812.5	802.2	786.6	771.1	765.9	760.8	750.4	750.4	750.4	750.4	750.4
7.5°	807.3	791.8	776.3	755.6	750.4	745.2	740.1	734.9	740.1	740.1	734.9
10°	802.2	786.6	765.9	745.2	734.9	729.7	724.5	724.5	724.5	729.7	729.7
12.5°	802.2	781.5	755.6	734.9	729.7	724.5	719.4	719.4	719.4	724.5	724.5
15°	802.2	781.5	750.4	734.9	724.5	719.4	719.4	714.2	719.4	729.7	724.5
17.5°	802.2	776.3	745.2	729.7	719.4	719.4	714.2	709.0	709.0	719.4	719.4
20°	807.3	776.3	745.2	719.4	714.2	709.0	703.8	688.3	688.3	693.5	698.7
22.5°	812.5	776.3	740.1	714.2	703.8	688.3	678.0	662.4	646.9	652.1	652.1
25°	822.9	786.6	740.1	709.0	683.1	667.6	641.7	626.2	605.5	600.3	605.5
27.5°	838.4	797.0	740.1	698.7	662.4	636.6	605.5	574.4	564.1	553.7	558.9
30°	859.1	807.3	740.1	688.3	636.6	590.0	553.7	533.0	522.7	527.9	527.9
32.5°	890.1	828.0	740.1	672.8	600.3	543.4	517.5	507.2	502.0	502.0	507.2
35°	926.4	859.1	745.2	657.3	564.1	502.0	486.5	491.6	486.5	481.3	486.5
37.5°	972.9	900.5	755.6	631.4	527.9	465.8	460.6	470.9	476.1	476.1	476.1
40°	1024.7	941.9	755.6	595.1	486.5	439.9	434.7	460.6	465.8	460.6	460.6
42.5°	1029.9	921.2	734.9	558.9	450.2	414.0	408.8	439.9	445.1	439.9	439.9
45°	1071.3	947.1	719.4	522.7	414.0	388.1	377.8	408.8	429.5	424.4	419.2
47.5°	1133.4	983.3	703.8	486.5	388.1	357.1	351.9	377.8	383.0	383.0	372.6
50°	1195.5	1014.3	688.3	450.2	357.1	331.2	320.9	326.0	331.2	326.0	320.9
52.5°	1262.8	1045.4	678.0	419.2	331.2	300.2	279.5	279.5	274.3	263.9	263.9
55°	1309.3	1060.9	662.4	398.5	305.3	263.9	248.4	232.9	232.9	227.7	232.9
57.5°	1345.6	1071.3	652.1	377.8	279.5	232.9	212.2	201.8	207.0	207.0	207.0
60°	1355.9	1076.4	636.6	357.1	253.6	201.8	186.3	176.0	181.1	181.1	181.1
62.5°	1350.7	1076.4	610.7	331.2	222.5	176.0	165.6	150.1	150.1	150.1	150.1
65°	1340.4	1071.3	574.4	305.3	191.5	155.3	144.9	129.4	124.2	119.0	113.9
67.5°	1267.9	1004.0	502.0	258.8	165.6	139.7	119.0	98.3	93.2	88.0	88.0
70°	1128.2	874.6	372.6	196.7	144.9	113.9	93.2	77.6	67.3	56.9	56.9
72.5°	947.1	703.8	279.5	150.1	108.7	88.0	67.3	51.8	36.2	31.1	31.1
75°	765.9	517.5	207.0	119.0	82.8	56.9	46.6	36.2	25.9	20.7	20.7
77.5°	584.8	357.1	139.7	82.8	51.8	36.2	31.1	25.9	15.5	10.4	10.4
80°	372.6	217.4	93.2	56.9	36.2	25.9	15.5	10.4	5.2	0.0	0.0
82.5°	207.0	124.2	56.9	36.2	20.7	15.5	10.4	10.4	5.2	0.0	0.0
85°	88.0	62.1	36.2	15.5	10.4	5.2	5.2	5.2	5.2	0.0	0.0
87.5°	20.7	15.5	10.4	5.2	5.2	5.2	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)