

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: INVUE

Report Number: P675736

Luminaire Tested: **CCW-SA-1F-827-U-SL4**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675736
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-827-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/
SL4 distribution lens
Light Source: (16) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

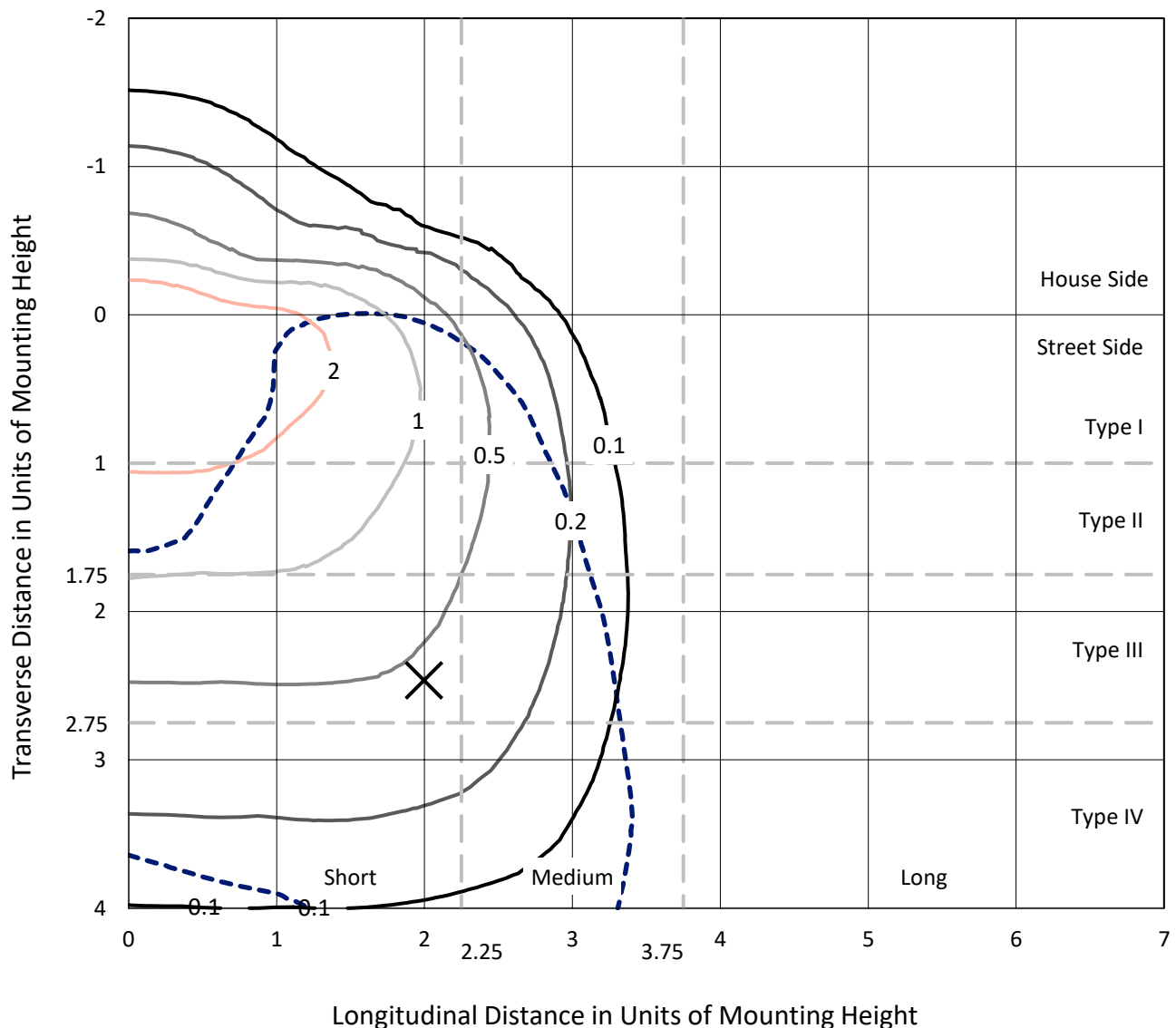
Lumens per Lamp: N/A
Luminaire Lumens: 5400.9 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
Input Voltage (V): 120
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: 25 FT

REPORT NUMBER: P675736
 CATALOG NUMBER: CCW-SA-1F-827-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

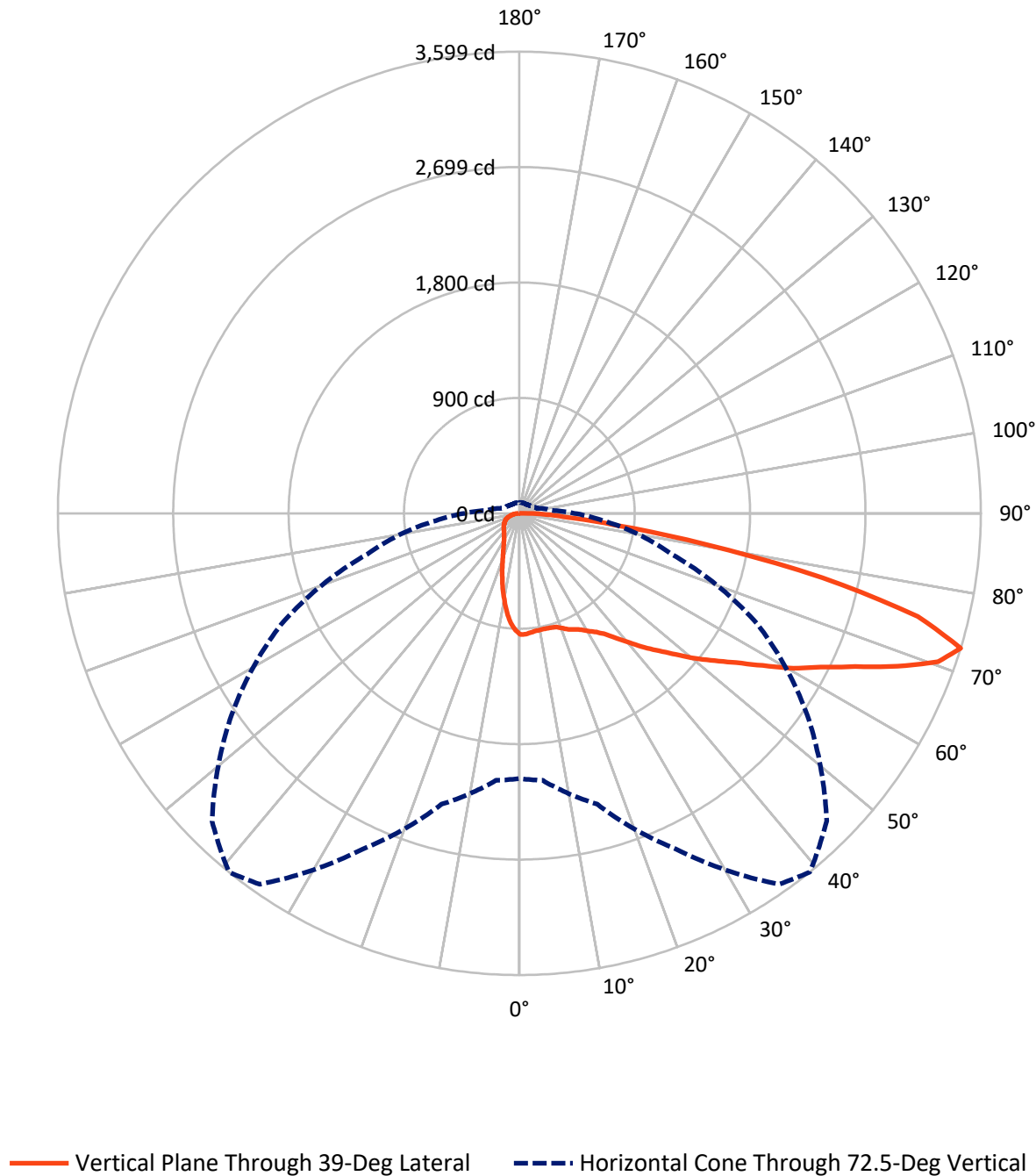
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P675736
CATALOG NUMBER: CCW-SA-1F-827-U-SL4

Luminous Intensity Polar Plot



REPORT NUMBER: P675736

CATALOG NUMBER: CCW-SA-1F-827-U-SL4

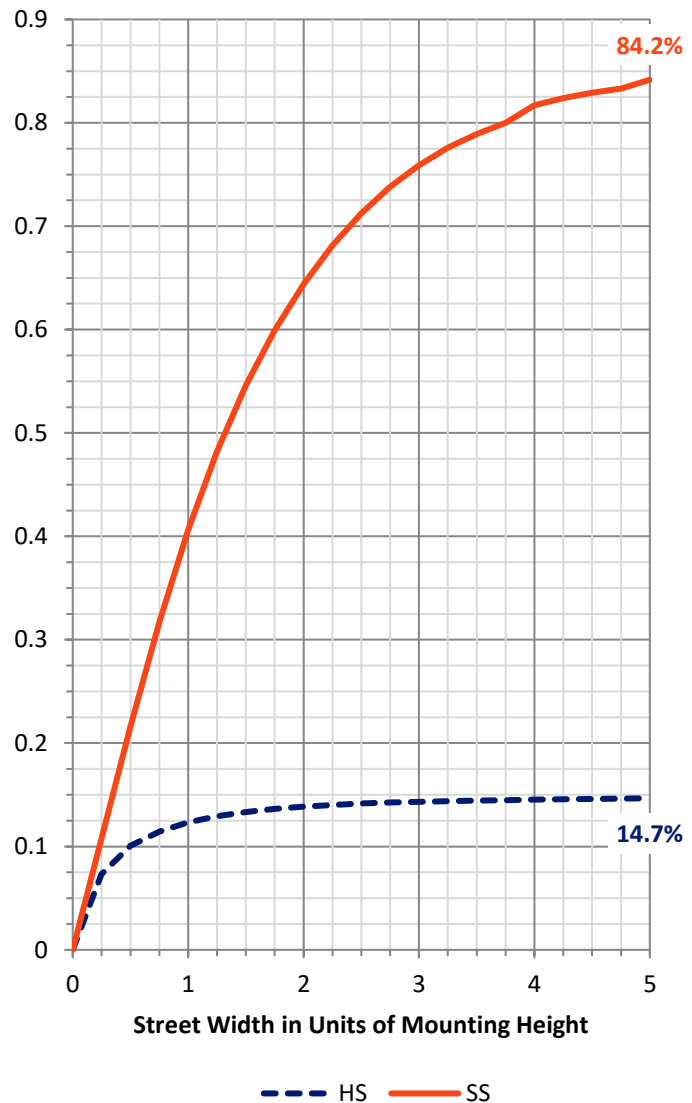
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	802.7	0.0	802.7
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	4598.2	0.0	4598.2
	% Fixture	85.1	0.0	85.1
Total	Lumens	5400.9	0.0	5400.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.5	1.5
10°-20°	213.2	3.9
20°-30°	324.8	6.0
30°-40°	475.2	8.8
40°-50°	727.5	13.5
50°-60°	1066.9	19.8
60°-70°	1360.7	25.2
70°-80°	983.1	18.2
80°-90°	165.8	3.1
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°	5400.9	100.0
0°-180°	5400.9	100.0

Coefficient of Utilization



REPORT NUMBER: P675736

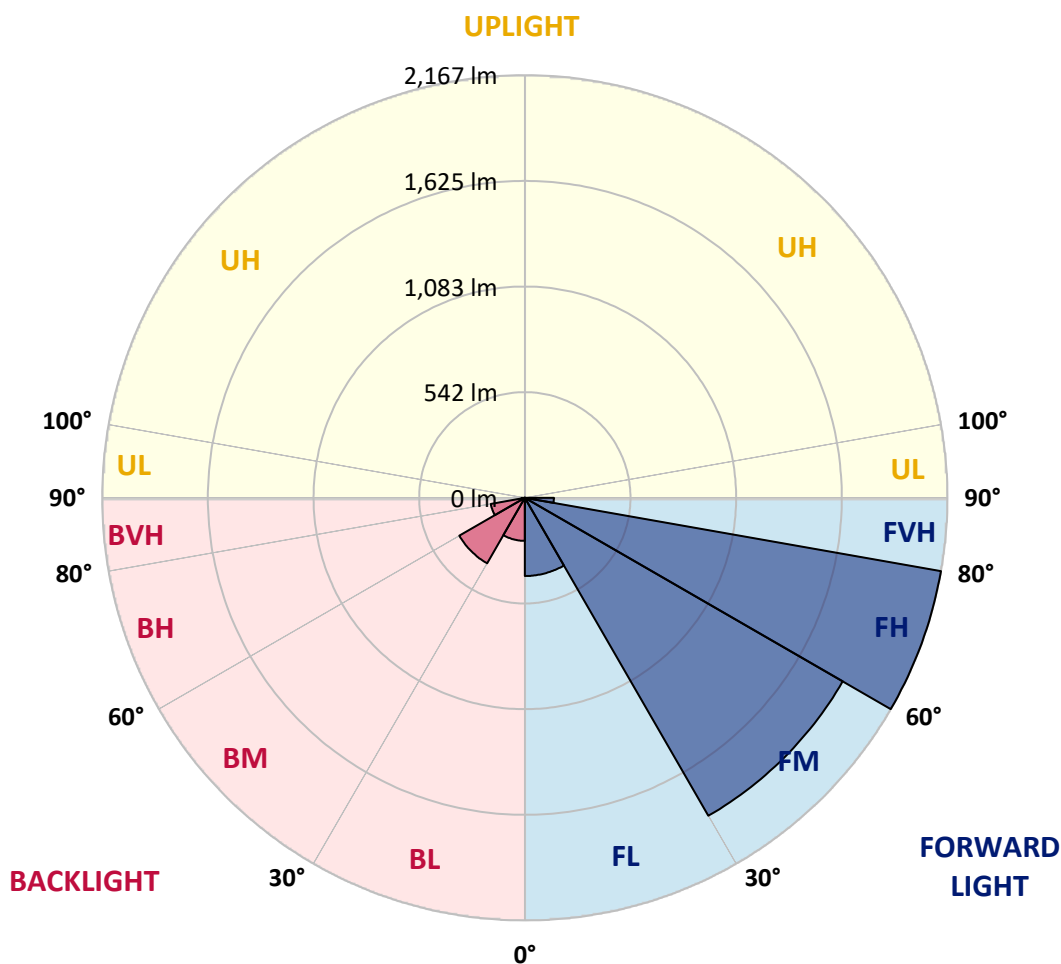
CATALOG NUMBER: CCW-SA-1F-827-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	400.8	7.4			
FM	(30°-60°)	1881.8	34.8			
FH	(60°-80°)	2166.5	40.1			G2/5000
FVH	(80°-90°)	149.0	2.8			G2/225
BL	(0°-30°)	220.7	4.1	B1/500		
BM	(30°-60°)	387.8	7.2	B1/1000		
BH	(60°-80°)	177.4	3.3	B1/500		G1/500
BVH	(80°-90°)	16.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





REPORT NUMBER: P675736

CATALOG NUMBER: CCW-SA-1F-827-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	945.4	945.4	945.4	945.4	945.4	945.4	945.4	945.4	945.4	945.4	945.4
2.5°	959.6	961.6	957.6	953.5	951.5	943.4	951.5	947.4	943.4	943.4	943.4
5°	947.4	949.4	949.4	945.4	947.4	933.2	931.2	933.2	927.1	923.1	921.0
7.5°	929.2	933.2	941.3	939.3	931.2	925.1	927.1	925.1	915.0	908.9	892.6
10°	915.0	919.0	923.1	927.1	925.1	923.1	921.0	912.9	910.9	896.7	880.5
12.5°	900.8	900.8	902.8	919.0	921.0	921.0	908.9	908.9	902.8	900.8	876.4
15°	886.6	892.6	908.9	912.9	921.0	925.1	919.0	919.0	908.9	894.7	876.4
17.5°	890.6	900.8	917.0	927.1	931.2	931.2	939.3	933.2	919.0	910.9	892.6
20°	910.9	912.9	933.2	951.5	955.5	955.5	947.4	941.3	931.2	917.0	892.6
22.5°	923.1	937.3	961.6	971.8	983.9	983.9	973.8	959.6	945.4	931.2	904.8
25°	975.8	977.9	988.0	1004.2	1010.3	1002.2	992.1	975.8	957.6	943.4	919.0
27.5°	1012.3	1022.5	1034.7	1042.8	1032.6	1026.5	1018.4	1000.2	986.0	973.8	939.3
30°	1079.3	1067.1	1075.2	1079.3	1061.0	1065.1	1042.8	1026.5	1010.3	1010.3	971.8
32.5°	1119.9	1130.0	1121.9	1119.9	1105.7	1103.6	1089.4	1071.2	1061.0	1073.2	1020.5
35°	1190.9	1184.8	1184.8	1182.8	1166.5	1156.4	1156.4	1123.9	1134.1	1160.4	1095.5
37.5°	1227.4	1225.4	1237.5	1247.7	1231.4	1237.5	1231.4	1217.2	1221.3	1268.0	1188.8
40°	1263.9	1278.1	1302.5	1306.5	1316.7	1324.8	1320.7	1318.7	1334.9	1410.0	1314.6
42.5°	1298.4	1310.6	1347.1	1379.5	1403.9	1430.3	1432.3	1432.3	1485.0	1592.6	1466.8
45°	1343.0	1353.2	1403.9	1468.8	1509.4	1527.6	1543.9	1562.1	1633.1	1760.9	1629.1
47.5°	1403.9	1412.0	1472.9	1554.0	1633.1	1643.3	1675.7	1696.0	1803.5	1933.4	1795.4
50°	1491.1	1485.0	1533.7	1651.4	1728.5	1777.2	1823.8	1860.4	1965.8	2107.9	1925.3
52.5°	1562.1	1562.1	1598.6	1754.9	1860.4	1907.0	1955.7	2006.4	2128.1	2282.3	2030.8
55°	1683.9	1671.7	1694.0	1856.3	2008.5	2053.1	2146.4	2189.0	2306.7	2412.2	2120.0
57.5°	1767.0	1773.1	1799.5	1990.2	2182.9	2237.7	2331.0	2361.5	2464.9	2548.1	2185.0
60°	1876.6	1856.3	1913.1	2138.3	2375.7	2452.7	2529.8	2548.1	2625.2	2635.3	2215.4
62.5°	1982.1	1978.0	2026.7	2286.4	2582.6	2637.4	2716.5	2736.8	2769.2	2704.3	2172.8
65°	2047.0	2073.4	2164.7	2448.7	2817.9	2878.8	2957.9	2917.3	2880.8	2643.4	1963.8
67.5°	2136.3	2148.4	2288.4	2625.2	3089.8	3181.1	3250.0	3089.8	2817.9	2393.9	1653.4
70°	2156.5	2189.0	2371.6	2809.8	3369.7	3463.1	3467.1	3030.9	2588.7	1947.6	1199.0
72.5°	2067.3	2089.6	2347.3	2886.9	3530.0	3599.0	3390.0	2740.8	2051.1	1227.4	653.3
75°	1738.6	1801.5	2042.9	2649.5	3235.8	3209.5	2872.7	2091.6	1231.4	543.7	275.9
77.5°	1211.2	1213.2	1464.7	1927.3	2422.3	2416.2	2049.0	1213.2	527.5	219.1	162.3
80°	537.6	576.2	728.3	1038.7	1470.8	1470.8	1194.9	602.5	263.7	142.0	111.6
82.5°	316.5	328.7	389.5	484.9	716.1	754.7	572.1	401.7	180.6	89.3	69.0
85°	233.3	253.6	290.1	292.1	338.8	344.9	316.5	348.9	123.8	48.7	56.8
87.5°	174.5	186.6	231.3	192.7	180.6	170.4	194.8	357.1	46.7	24.3	18.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P675736

CATALOG NUMBER: CCW-SA-1F-827-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	945.4	945.4	945.4	945.4	945.4	945.4	945.4	945.4	945.4	945.4	945.4
2.5°	935.2	935.2	931.2	923.1	923.1	906.8	910.9	915.0	904.8	904.8	906.8
5°	921.0	912.9	902.8	890.6	882.5	860.2	856.1	841.9	839.9	835.8	829.8
7.5°	892.6	880.5	862.2	844.0	817.6	797.3	772.9	752.7	744.5	738.5	736.4
10°	866.3	864.2	833.8	797.3	756.7	718.2	681.7	655.3	639.1	628.9	626.9
12.5°	866.3	850.0	807.4	756.7	697.9	641.1	594.4	557.9	535.6	519.4	513.3
15°	862.2	846.0	789.2	712.1	645.1	568.0	503.1	464.6	432.1	415.9	417.9
17.5°	866.3	841.9	762.8	679.6	586.3	503.1	426.0	379.4	346.9	334.7	332.7
20°	868.3	837.9	742.5	635.0	525.4	432.1	359.1	314.5	290.1	282.0	282.0
22.5°	864.2	825.7	712.1	582.2	472.7	373.3	312.4	273.9	257.6	247.5	251.6
25°	882.5	823.7	683.7	537.6	411.8	324.6	277.9	249.5	239.4	233.3	235.3
27.5°	886.6	823.7	661.4	486.9	359.1	288.1	251.6	233.3	225.2	221.1	219.1
30°	902.8	827.7	635.0	436.2	316.5	259.7	231.3	221.1	215.0	213.0	213.0
32.5°	947.4	839.9	606.6	393.6	280.0	235.3	217.1	209.0	204.9	202.9	204.9
35°	1000.2	872.4	576.2	348.9	253.6	219.1	204.9	198.8	196.8	196.8	196.8
37.5°	1081.3	921.0	549.8	312.4	231.3	202.9	192.7	190.7	188.7	190.7	190.7
40°	1174.6	973.8	525.4	284.0	215.0	192.7	182.6	182.6	180.6	182.6	184.6
42.5°	1282.2	1038.7	501.1	255.6	200.8	184.6	176.5	174.5	172.4	176.5	178.5
45°	1430.3	1128.0	484.9	239.4	190.7	176.5	168.4	168.4	166.4	166.4	170.4
47.5°	1554.0	1213.2	484.9	223.2	184.6	170.4	162.3	162.3	158.2	160.3	160.3
50°	1657.5	1286.2	495.0	219.1	176.5	164.3	158.2	154.2	152.2	152.2	152.2
52.5°	1726.5	1330.9	503.1	215.0	172.4	156.2	152.2	150.1	146.1	144.0	146.1
55°	1795.4	1361.3	505.2	215.0	166.4	148.1	144.0	144.0	140.0	138.0	138.0
57.5°	1821.8	1349.1	476.8	211.0	162.3	142.0	138.0	135.9	133.9	131.9	131.9
60°	1809.6	1304.5	413.9	200.8	158.2	138.0	129.8	129.8	129.8	125.8	127.8
62.5°	1726.5	1152.3	332.7	184.6	152.2	129.8	121.7	125.8	125.8	123.8	123.8
65°	1507.4	951.5	269.8	170.4	144.0	123.8	115.6	121.7	123.8	121.7	119.7
67.5°	1205.1	732.4	223.2	154.2	133.9	113.6	107.5	113.6	115.6	113.6	113.6
70°	827.7	472.7	180.6	138.0	119.7	103.5	97.4	101.4	101.4	103.5	103.5
72.5°	428.1	255.6	148.1	117.7	103.5	93.3	87.2	87.2	85.2	85.2	85.2
75°	213.0	174.5	123.8	99.4	87.2	79.1	75.1	71.0	71.0	71.0	71.0
77.5°	148.1	133.9	101.4	79.1	71.0	64.9	64.9	58.8	58.8	58.8	58.8
80°	111.6	105.5	77.1	60.9	54.8	50.7	50.7	48.7	48.7	46.7	46.7
82.5°	79.1	85.2	58.8	44.6	40.6	38.5	38.5	36.5	36.5	32.5	32.5
85°	62.9	71.0	44.6	32.5	30.4	26.4	26.4	24.3	24.3	22.3	20.3
87.5°	18.3	38.5	18.3	12.2	12.2	12.2	12.2	10.1	10.1	8.1	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

(END OF REPORT)