

Scaled data based on original data using  
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P1209233

Luminaire Tested: UPW-SA2-110-727-U-SL4-HSS

Issue Date: 11/4/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1209233  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2308-136-6)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 2/19/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: UPW-SA2-110-727-U-SL4-HSS  
Description: UNDERPASS WALL MOUNT LUMINAIRE  
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT  
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8995 lumens  
Efficiency: N/A  
Efficacy: 79.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

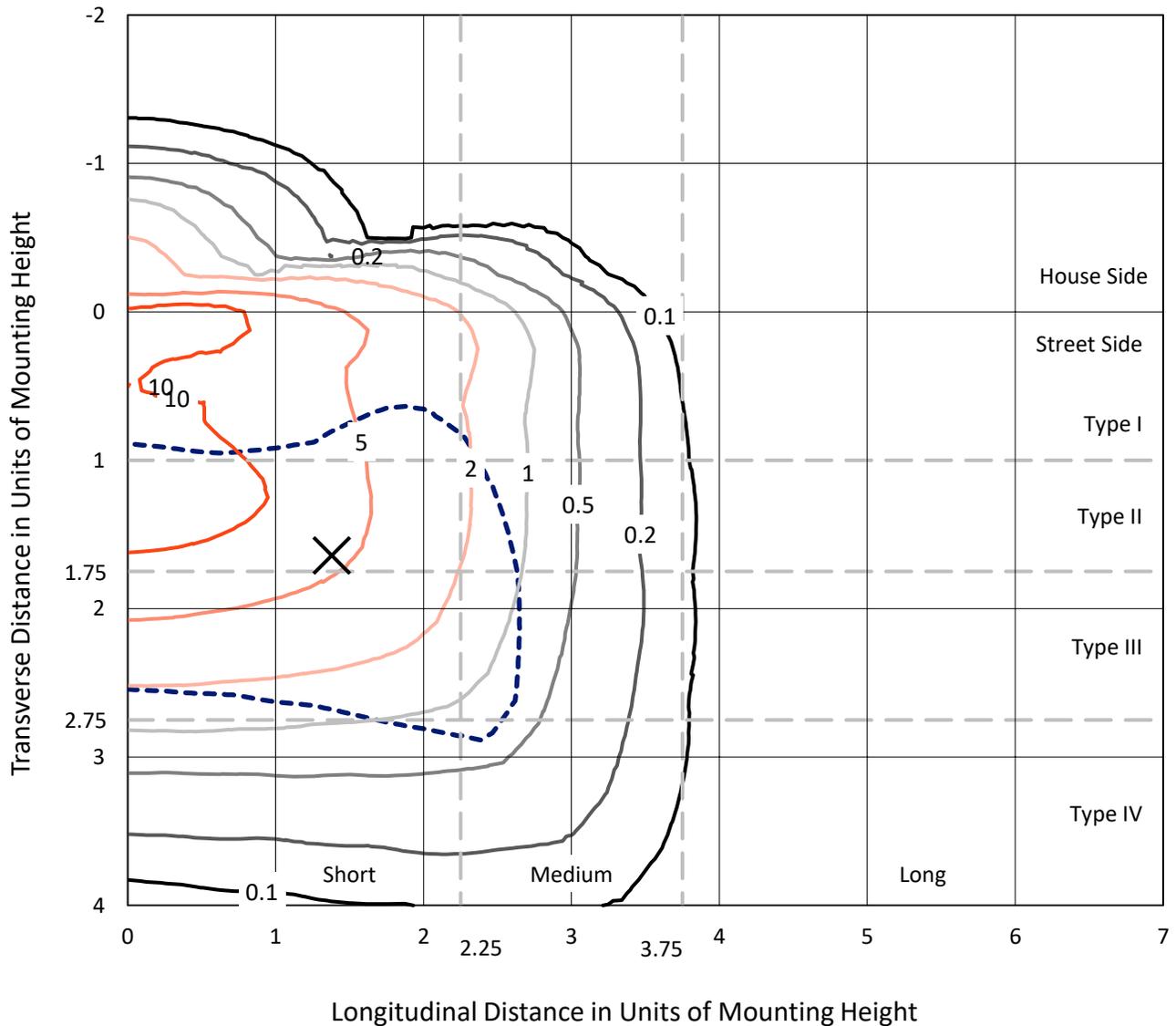
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

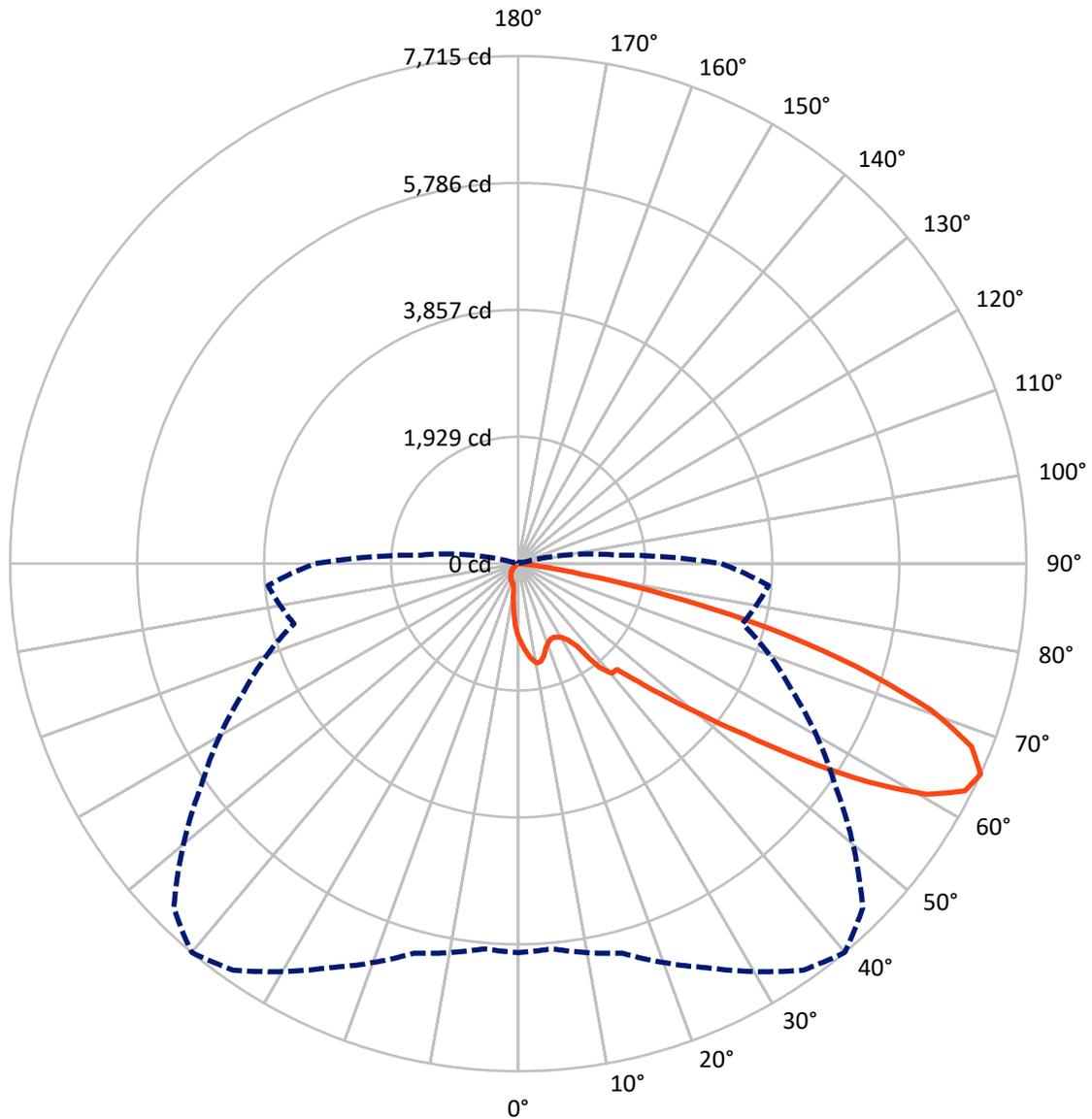
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.8 fc  
 Type IV - Short - N/A

REPORT NUMBER: P1209233  
CATALOG NUMBER: UPW-SA2-110-727-U-SL4-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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CATALOG NUMBER: UPW-SA2-110-727-U-SL4-HSS

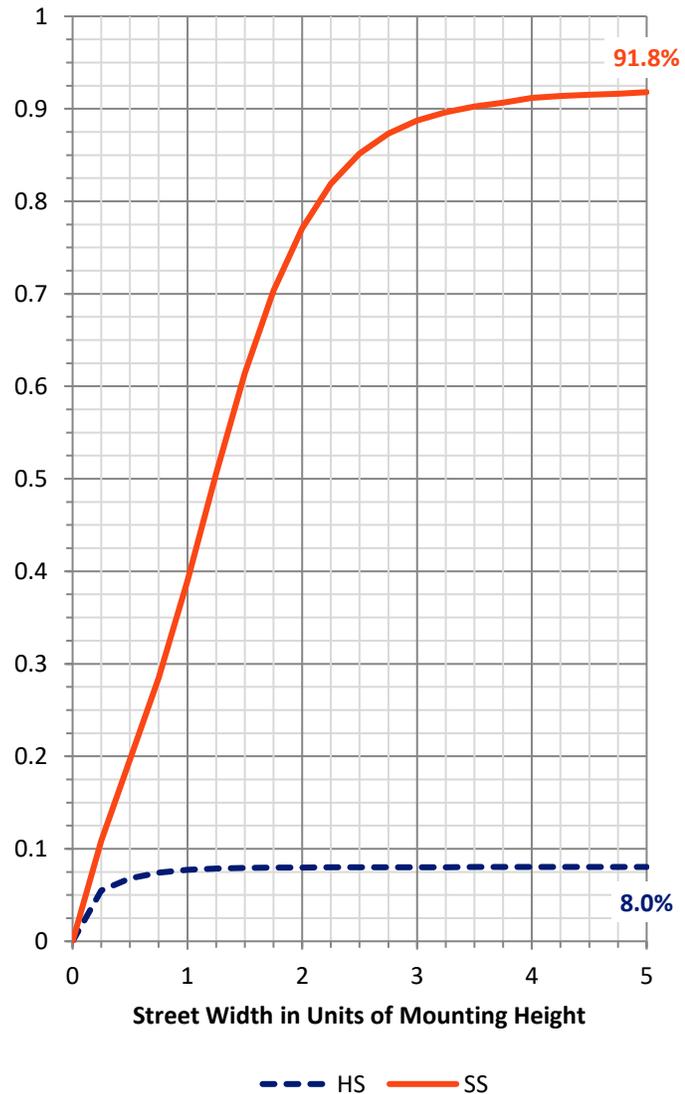
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	728.0	0.0	728.0
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	8267.0	0.0	8267.0
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	8995.0	0.0	8995.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.1	1.1
10°-20°	289.7	3.2
20°-30°	452.2	5.0
30°-40°	749.3	8.3
40°-50°	1270.6	14.1
50°-60°	2238.1	24.9
60°-70°	2787.6	31.0
70°-80°	1047.6	11.6
80°-90°	56.7	0.6
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°	8995.0	100.0
0°-180°	8995.0	100.0



REPORT NUMBER: P1209233

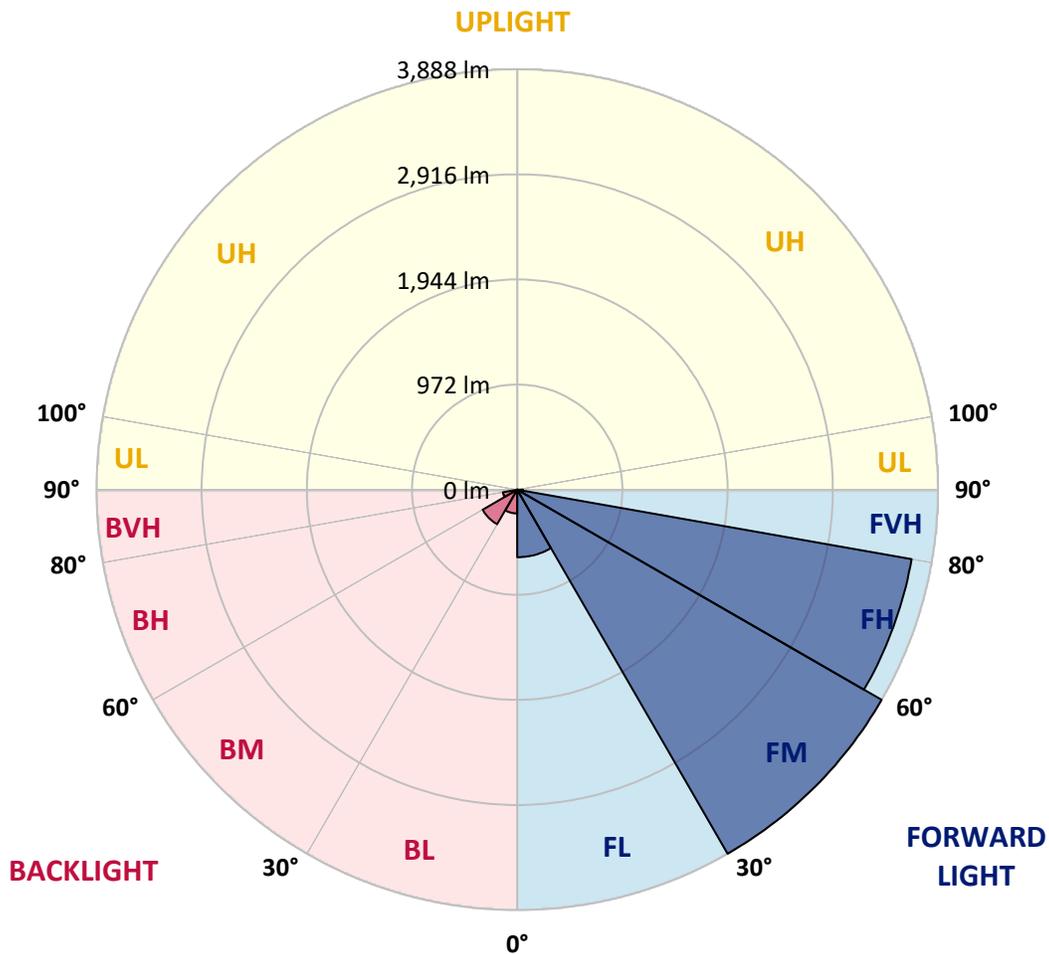
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	624.7	6.9			
FM	(30°-60°)	3888.4	43.2			
FH	(60°-80°)	3700.9	41.1			G2/5000
FVH	(80°-90°)	53.0	0.6			G1/100
BL	(0°-30°)	220.3	2.4	B1/500		
BM	(30°-60°)	369.6	4.1	B1/1000		
BH	(60°-80°)	134.3	1.5	B1/500		G1/500
BVH	(80°-90°)	3.7	0.0			G0/10
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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1123.3	1123.3	1123.3	1123.3	1123.3	1123.3	1123.3	1123.3	1123.3	1123.3	1123.3
2.5°	1271.7	1261.1	1258.4	1253.1	1239.9	1238.6	1235.9	1212.1	1194.8	1177.6	1151.1
5°	1394.9	1386.9	1380.3	1379.0	1369.7	1357.8	1355.1	1322.0	1290.2	1254.4	1198.8
7.5°	1484.9	1477.0	1477.0	1477.0	1466.4	1462.4	1462.4	1428.0	1397.5	1343.2	1267.7
10°	1503.5	1498.2	1503.5	1516.7	1530.0	1535.3	1540.6	1532.6	1507.5	1447.8	1356.4
12.5°	1457.1	1451.8	1457.1	1477.0	1502.2	1527.3	1560.4	1602.8	1612.1	1571.0	1451.8
15°	1410.8	1404.1	1393.5	1389.6	1416.1	1454.5	1499.5	1614.8	1699.5	1687.6	1561.8
17.5°	1381.6	1380.3	1355.1	1320.7	1323.3	1352.5	1410.8	1567.1	1741.9	1792.3	1663.8
20°	1353.8	1349.8	1322.0	1273.0	1262.4	1288.9	1337.9	1500.8	1734.0	1889.0	1769.7
22.5°	1339.2	1333.9	1296.8	1238.6	1228.0	1251.8	1295.5	1429.3	1694.2	1945.9	1870.4
25°	1356.4	1352.5	1299.5	1231.9	1222.7	1242.5	1280.9	1390.9	1642.6	1967.1	1951.2
27.5°	1414.7	1406.8	1336.6	1255.8	1243.9	1262.4	1294.2	1377.6	1597.5	1959.2	2016.1
30°	1613.4	1583.0	1478.3	1327.3	1290.2	1302.1	1327.3	1394.9	1568.4	1948.6	2089.0
32.5°	1998.9	1983.0	1808.2	1533.9	1393.5	1382.9	1400.2	1447.8	1588.3	2004.2	2224.1
35°	2669.2	2649.3	2401.6	1965.8	1602.8	1544.5	1533.9	1575.0	1739.3	2018.8	2246.6
37.5°	3191.1	3172.5	2964.6	2637.4	2189.7	2000.2	1877.0	1859.8	1748.5	1951.2	2274.4
40°	3445.4	3413.6	3109.0	2667.9	2334.0	2192.3	2055.9	1777.7	1653.2	1911.5	2346.0
42.5°	4060.1	3972.6	3613.7	3061.3	2458.6	2198.9	1957.8	1663.8	1687.6	1952.5	2457.2
45°	4743.6	4748.9	4314.4	3580.5	2866.6	2556.6	2254.6	1800.2	1810.8	2057.2	2604.3
47.5°	5531.8	5440.4	4980.7	4238.9	3376.5	3025.5	2687.7	2037.3	1985.7	2225.4	2801.6
50°	6105.3	6047.0	5689.4	4990.0	4005.8	3607.0	3163.3	2393.7	2271.8	2418.8	3001.7
52.5°	6421.9	6408.7	6229.8	5669.5	4784.7	4321.0	3740.8	2810.9	2621.5	2632.1	3150.0
55°	6671.0	6635.2	6627.2	6353.0	5665.5	5257.6	4502.5	3377.9	3065.3	2840.1	3298.4
57.5°	6921.3	6880.3	6914.7	6865.7	6612.7	6261.6	5416.5	3993.8	3452.0	3061.3	3475.9
60°	6925.3	6884.2	6980.9	7187.6	7300.2	7118.7	6343.8	4666.8	3878.6	3287.8	3717.0
62.5°	6606.1	6565.0	6730.6	7161.1	7631.3	7608.8	7063.1	5311.9	4303.8	3514.3	3917.0
65°	5910.6	5877.5	6130.5	6775.6	7542.6	7714.8	7398.2	5872.2	4592.6	3524.9	3813.7
67.5°	4507.8	4567.4	4996.6	5886.8	7081.6	7427.3	7350.5	6019.2	4450.8	3204.3	3420.3
70°	2908.9	3017.6	3497.1	4547.5	6025.9	6643.1	6682.9	5343.7	3724.9	2605.6	2569.8
72.5°	1548.5	1568.4	2010.8	2942.1	4582.0	5392.7	5452.3	4023.0	2548.6	1731.3	1402.8
75°	678.2	732.5	984.2	1654.5	3053.3	3951.4	3773.9	2410.9	1315.4	792.1	543.1
77.5°	243.7	263.6	382.8	809.4	1723.4	2312.8	2155.2	1145.8	531.2	351.0	159.0
80°	117.9	119.2	153.7	308.6	720.6	974.9	847.8	405.3	242.4	197.4	62.3
82.5°	39.7	49.0	87.4	121.9	267.6	332.5	245.1	151.0	144.4	149.7	43.7
85°	0.0	1.3	43.7	66.2	68.9	78.2	62.3	66.2	88.8	90.1	14.6
87.5°	0.0	0.0	0.0	13.2	14.6	14.6	7.9	15.9	37.1	43.7	2.6
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: P1209233

CATALOG NUMBER: UPW-SA2-110-727-U-SL4-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1123.3	1123.3	1123.3	1123.3	1123.3	1123.3	1123.3	1123.3	1123.3	1123.3	1123.3
2.5°	1135.2	1119.3	1087.5	1061.0	1025.3	1000.1	973.6	961.7	953.8	920.6	918.0
5°	1168.3	1132.6	1059.7	980.2	902.1	825.3	752.4	711.3	675.6	661.0	643.8
7.5°	1217.4	1163.0	1034.6	898.1	751.1	631.9	551.1	506.0	468.9	462.3	457.0
10°	1284.9	1202.8	1013.4	792.1	585.5	472.9	406.7	377.5	365.6	363.0	359.0
12.5°	1359.1	1253.1	989.5	669.0	458.3	363.0	335.1	335.1	341.8	344.4	344.4
15°	1454.5	1311.4	944.5	559.0	368.3	317.9	316.6	321.9	328.5	331.2	332.5
17.5°	1537.9	1372.3	887.5	458.3	316.6	302.0	304.7	308.6	315.3	320.6	320.6
20°	1628.0	1428.0	829.2	377.5	291.4	287.5	290.1	295.4	303.3	307.3	308.6
22.5°	1707.5	1471.7	761.7	324.5	274.2	274.2	278.2	283.5	292.7	299.4	299.4
25°	1773.7	1506.1	688.8	288.8	258.3	259.6	263.6	271.6	280.8	287.5	288.8
27.5°	1825.4	1523.4	605.4	259.6	242.4	242.4	249.0	258.3	270.2	278.2	278.2
30°	1891.6	1549.8	541.8	238.4	225.2	225.2	230.5	242.4	258.3	268.9	268.9
32.5°	1991.0	1596.2	474.2	219.9	209.3	209.3	214.6	225.2	241.1	254.3	257.0
35°	2006.9	1575.0	405.3	205.3	194.7	193.4	196.0	205.3	218.6	227.8	231.8
37.5°	2032.0	1575.0	340.4	189.4	180.2	178.8	180.2	184.1	189.4	192.1	190.8
40°	2087.7	1585.6	286.1	176.2	166.9	164.3	162.9	161.6	156.3	149.7	148.4
42.5°	2175.1	1613.4	239.8	161.6	152.3	149.7	145.7	136.4	124.5	115.2	115.2
45°	2279.7	1638.6	201.3	149.7	139.1	136.4	124.5	109.9	95.4	88.8	88.8
47.5°	2408.2	1669.1	170.9	139.1	128.5	121.9	102.0	84.8	72.9	70.2	70.2
50°	2556.6	1687.6	144.4	127.2	117.9	106.0	80.8	66.2	57.0	55.6	55.6
52.5°	2659.9	1686.3	123.2	116.6	107.3	88.8	64.9	53.0	46.4	43.7	43.7
55°	2759.3	1667.7	103.3	103.3	92.7	71.5	53.0	43.7	37.1	34.4	33.1
57.5°	2879.8	1658.5	88.8	86.1	75.5	58.3	43.7	35.8	29.1	23.8	22.5
60°	3071.9	1674.4	74.2	68.9	59.6	46.4	35.8	27.8	21.2	14.6	13.2
62.5°	3200.4	1658.5	60.9	55.6	47.7	37.1	26.5	19.9	11.9	7.9	6.6
65°	3081.1	1481.0	51.7	45.0	38.4	29.1	19.9	13.2	5.3	1.3	0.0
67.5°	2663.9	1182.9	43.7	37.1	30.5	22.5	14.6	7.9	1.3	0.0	0.0
70°	1936.6	797.4	38.4	30.5	23.8	18.5	10.6	4.0	0.0	0.0	0.0
72.5°	1013.4	374.9	34.4	27.8	21.2	14.6	7.9	2.6	0.0	0.0	0.0
75°	355.0	135.1	31.8	26.5	18.5	11.9	6.6	2.6	0.0	0.0	0.0
77.5°	111.3	60.9	31.8	27.8	19.9	11.9	6.6	2.6	0.0	0.0	0.0
80°	50.3	39.7	29.1	26.5	18.5	11.9	6.6	1.3	0.0	0.0	0.0
82.5°	35.8	31.8	27.8	23.8	17.2	10.6	5.3	1.3	0.0	0.0	0.0
85°	13.2	10.6	10.6	13.2	11.9	6.6	2.6	0.0	0.0	0.0	0.0
87.5°	1.3	1.3	0.0	0.0	0.0	0.0	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)