

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: P1209086

Luminaire Tested: UPW-SA2-090-740-U-T4FT-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209086
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-090-740-U-T4FT-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THRC OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8470 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

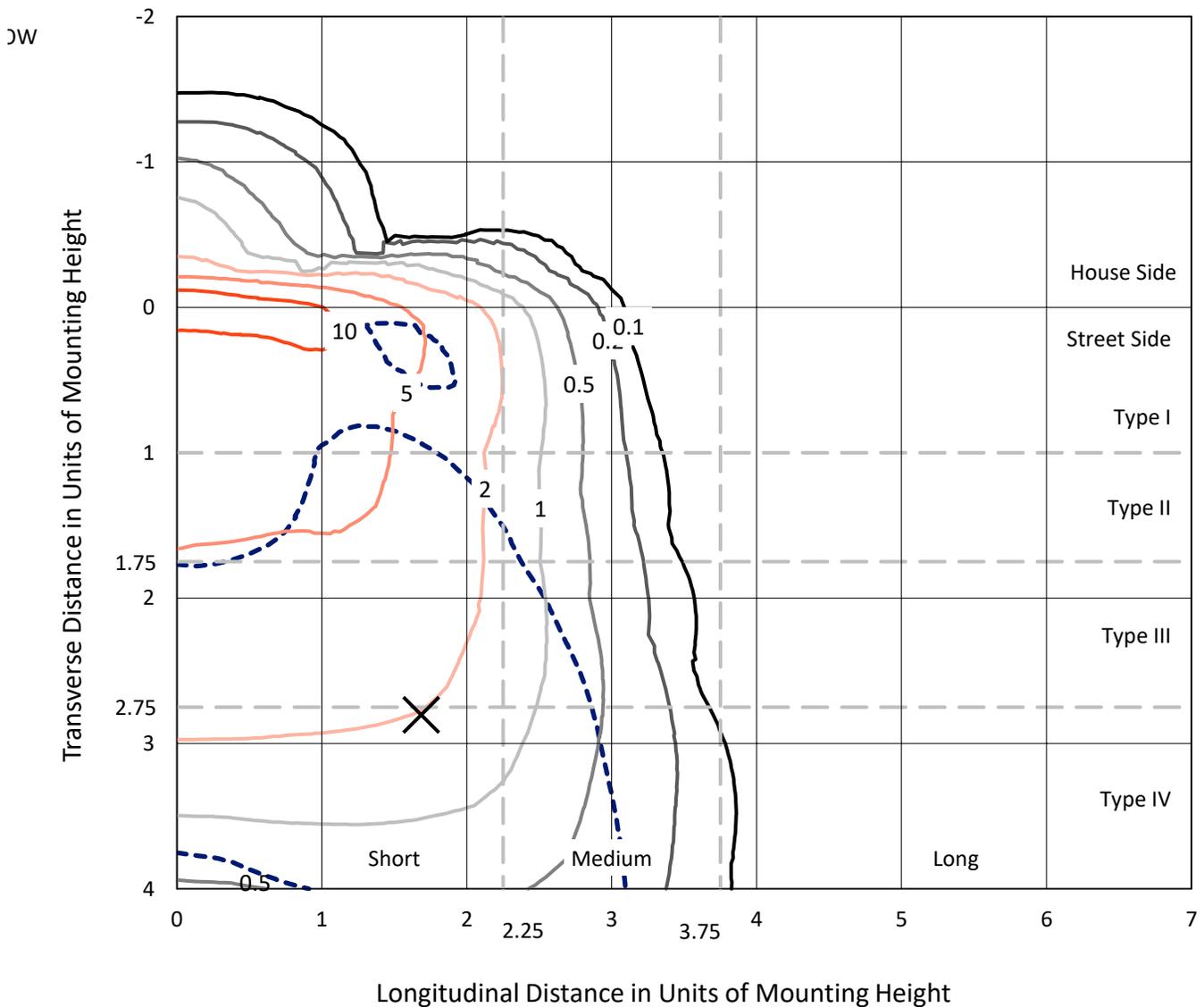
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

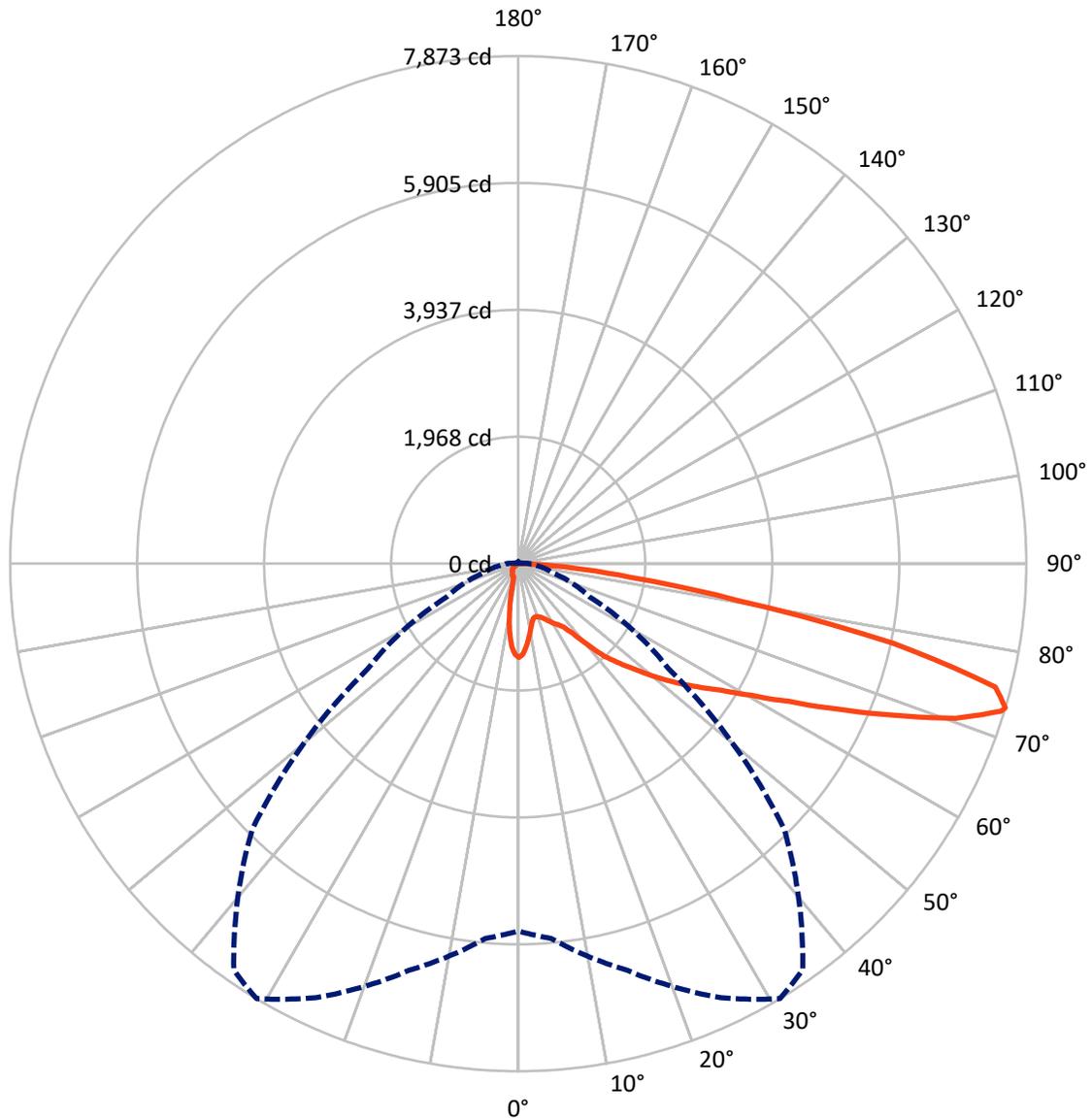
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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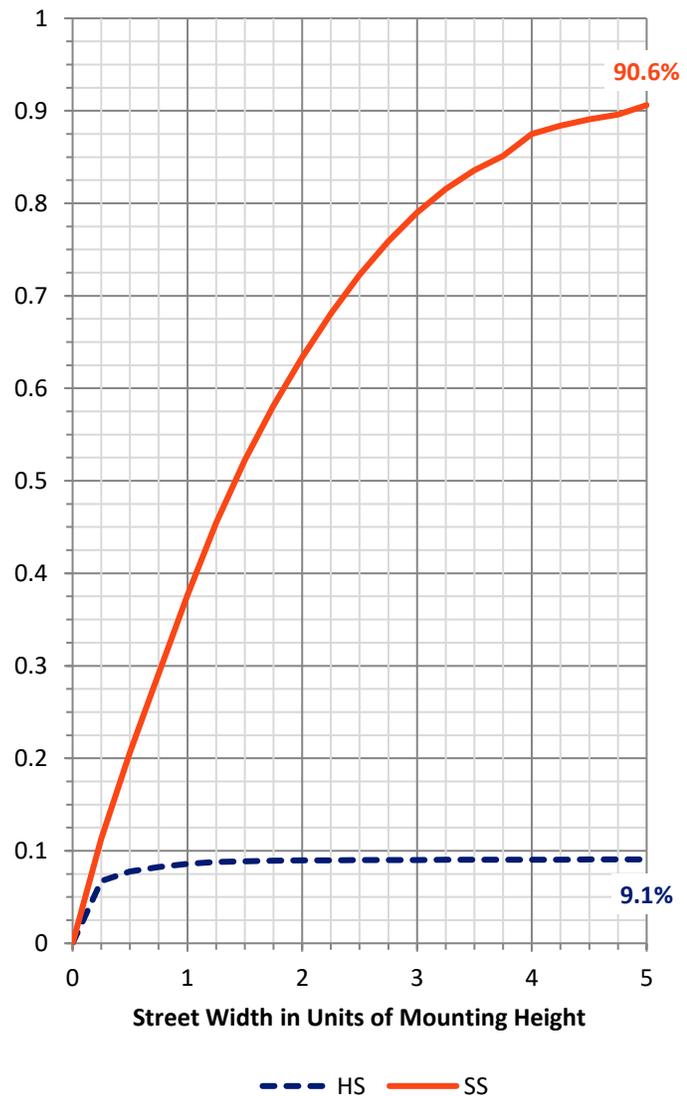
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	772.1	0.0	772.1
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	7697.9	0.0	7697.9
	% Fixture	90.9	0.0	90.9
Total	Lumens	8470.0	0.0	8470.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.8	1.4
10°-20°	262.4	3.1
20°-30°	393.1	4.6
30°-40°	625.4	7.4
40°-50°	1116.8	13.2
50°-60°	1732.9	20.5
60°-70°	2303.7	27.2
70°-80°	1732.8	20.5
80°-90°	182.1	2.1
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°	8470.0	100.0
0°-180°	8470.0	100.0



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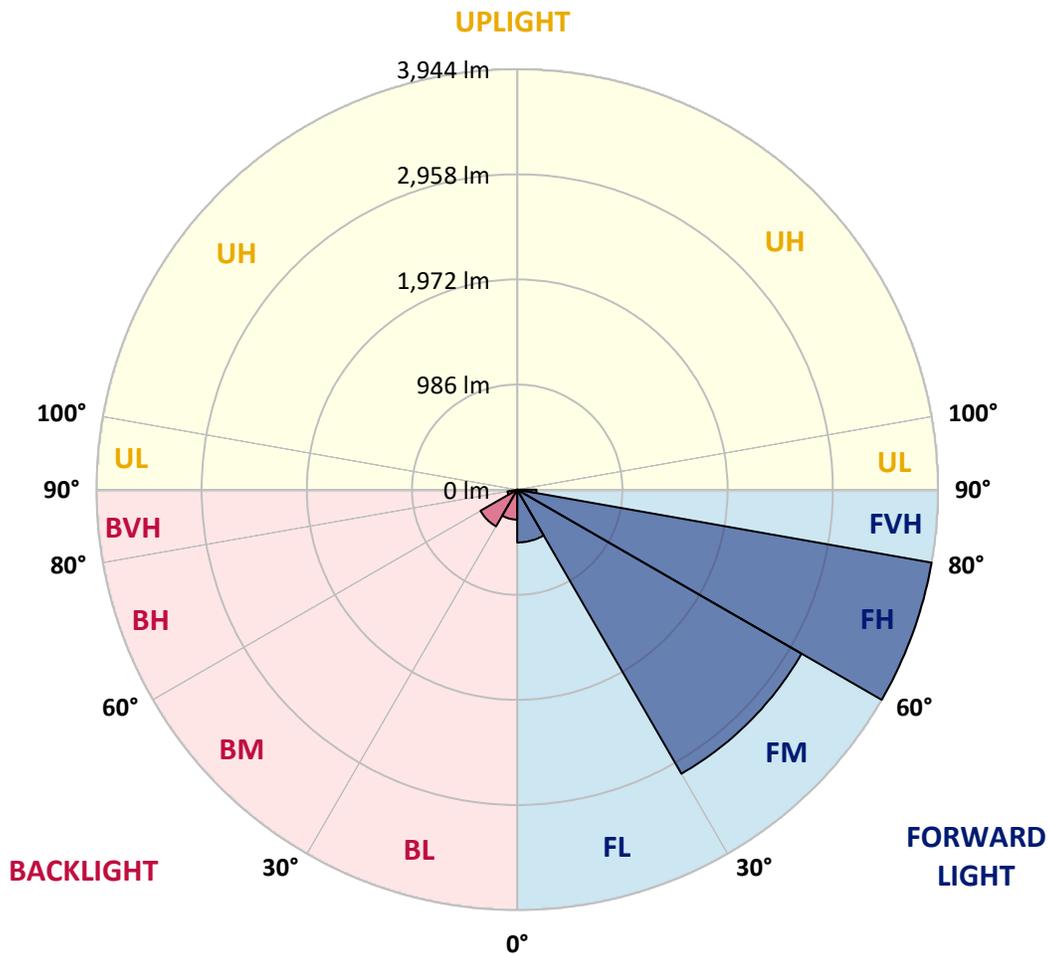
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	495.5	5.9			
FM	(30°-60°)	3077.7	36.3			
FH	(60°-80°)	3944.2	46.6			G2/5000
FVH	(80°-90°)	180.5	2.1			G2/225
BL	(0°-30°)	280.8	3.3	B1/500		
BM	(30°-60°)	397.4	4.7	B1/1000		
BH	(60°-80°)	92.4	1.1	B0/110		G0/110
BVH	(80°-90°)	1.5	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°	31°	35°	45°	55°	65°	75°	85°
0°	1457.3	1457.3	1457.3	1457.3	1457.3	1457.3	1457.3	1457.3	1457.3	1457.3	1457.3
2.5°	1381.0	1386.8	1393.0	1394.3	1404.6	1405.1	1420.0	1431.2	1442.4	1453.1	1456.9
5°	1239.3	1248.8	1260.0	1271.2	1293.2	1301.9	1338.3	1375.6	1411.3	1445.3	1461.8
7.5°	1088.0	1098.8	1114.5	1142.3	1166.7	1183.7	1241.3	1307.7	1374.0	1436.6	1472.6
10°	950.0	959.9	976.5	1005.9	1043.6	1066.8	1144.4	1236.4	1333.8	1428.7	1488.8
12.5°	862.1	867.5	876.6	908.1	942.1	968.2	1059.4	1173.4	1300.6	1428.3	1514.9
15°	845.9	847.6	840.1	854.2	880.8	906.0	998.5	1122.4	1275.3	1434.9	1548.9
17.5°	871.6	870.8	845.9	844.3	865.4	886.1	968.6	1087.2	1257.5	1450.2	1592.8
20°	910.6	907.7	864.6	856.7	879.1	898.6	966.5	1073.9	1250.9	1475.9	1646.3
22.5°	962.4	957.4	889.9	881.6	905.6	925.9	992.2	1086.7	1256.7	1510.3	1708.5
25°	1026.6	1019.2	933.4	924.3	948.7	969.0	1038.3	1123.6	1274.1	1552.2	1787.2
27.5°	1099.2	1088.4	1003.0	979.4	1007.2	1028.3	1099.6	1180.0	1301.4	1596.5	1883.8
30°	1167.6	1153.5	1076.4	1037.4	1071.4	1095.0	1165.9	1247.1	1345.4	1664.9	2016.0
32.5°	1236.4	1220.6	1141.9	1095.4	1126.1	1151.8	1234.3	1339.6	1427.9	1769.4	2191.7
35°	1394.7	1378.1	1281.5	1204.9	1204.5	1219.0	1330.0	1466.0	1536.9	1914.9	2401.4
37.5°	1661.2	1651.7	1559.7	1414.2	1375.2	1359.1	1460.6	1616.9	1693.5	2115.0	2638.1
40°	1953.0	1944.7	1841.5	1709.7	1650.4	1610.6	1647.9	1827.0	1914.9	2359.6	2879.7
42.5°	2282.5	2243.1	2059.1	2019.7	1966.7	1936.4	1902.8	2086.0	2186.8	2625.7	3119.3
45°	2581.7	2515.4	2276.7	2217.0	2205.0	2212.4	2231.1	2434.2	2492.6	2941.9	3358.0
47.5°	2760.0	2707.7	2524.5	2467.3	2464.0	2513.4	2654.3	2827.5	2797.3	3217.5	3568.2
50°	2929.5	2882.2	2730.1	2744.2	2759.5	2826.7	3134.6	3232.0	3075.4	3467.5	3760.9
52.5°	3066.7	2994.6	2915.0	2994.1	3069.6	3177.8	3630.4	3595.1	3272.7	3666.4	3925.9
55°	3145.8	3113.1	3151.6	3231.2	3373.0	3548.7	4098.3	3897.3	3416.9	3848.0	4035.7
57.5°	3436.0	3371.7	3448.4	3517.2	3702.1	3947.8	4499.1	4122.3	3520.9	3960.3	4061.0
60°	3787.0	3735.2	3780.4	3894.8	4144.3	4433.2	4873.8	4305.9	3575.2	4032.4	3995.5
62.5°	4345.7	4277.3	4249.2	4377.2	4708.0	5023.4	5158.1	4433.2	3563.2	4000.5	3770.9
65°	5094.3	5023.4	4897.4	5013.4	5434.1	5656.7	5476.0	4460.1	3480.3	3742.3	3203.0
67.5°	5861.0	5809.6	5701.9	5897.5	6277.2	6348.9	5812.1	4394.6	3213.4	3034.3	2263.0
70°	6367.5	6345.6	6415.6	6848.3	7186.9	7166.2	6120.5	4042.8	2504.6	1865.9	1119.5
72.5°	6002.4	6107.6	6624.9	7409.5	7823.1	7654.0	5962.2	3104.4	1431.6	717.9	323.7
73°	5699.8	5834.5	6530.8	7430.6	7873.3	7688.0	5829.1	2849.5	1220.2	566.6	245.4
75°	3965.2	4130.6	5406.8	6920.4	7638.7	7325.0	4858.8	1744.1	565.3	251.2	99.1
77.5°	1925.2	2047.5	2977.1	5000.2	5940.6	5723.0	3024.8	649.9	255.3	157.1	45.6
80°	718.7	799.1	1292.3	2544.9	3433.1	3523.0	1330.5	245.8	169.9	126.4	23.2
82.5°	188.2	209.7	476.6	1134.8	1759.4	1841.5	419.4	123.9	124.3	104.0	14.1
85°	60.1	68.8	148.8	509.4	828.9	727.8	109.4	60.1	90.4	77.5	7.9
87.5°	7.5	9.5	47.2	119.8	182.8	101.5	17.0	17.8	38.5	43.1	4.6
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°	1457.3	1457.3	1457.3	1457.3	1457.3	1457.3	1457.3	1457.3	1457.3	1457.3	1457.3
2.5°	1460.6	1458.5	1458.9	1448.2	1441.1	1427.0	1412.5	1405.9	1398.8	1395.9	1398.8
5°	1468.1	1464.3	1453.6	1420.4	1385.2	1339.6	1296.9	1264.6	1223.9	1212.7	1224.3
7.5°	1479.7	1472.2	1440.7	1373.1	1294.8	1207.8	1110.0	1038.7	980.2	942.5	956.2
10°	1496.7	1482.6	1419.1	1304.3	1164.2	1010.1	871.2	763.0	686.4	654.9	653.6
12.5°	1525.3	1498.7	1392.6	1214.8	1004.7	799.1	617.1	499.9	437.7	397.5	396.6
15°	1556.8	1517.8	1359.1	1107.5	819.0	572.4	397.5	308.4	268.2	255.3	253.7
17.5°	1595.3	1539.8	1315.5	975.3	624.6	379.2	259.5	233.8	232.1	230.9	230.9
20°	1643.8	1565.9	1259.6	824.0	443.1	253.2	220.5	222.2	223.0	221.3	221.7
22.5°	1700.2	1592.4	1192.8	661.5	299.7	211.8	211.0	213.0	213.9	213.0	213.5
25°	1765.6	1623.1	1111.6	491.1	216.4	201.0	203.1	206.0	208.1	208.1	208.1
27.5°	1846.9	1660.4	1013.8	342.8	186.9	189.8	195.6	201.0	203.9	204.7	204.7
30°	1952.6	1706.8	896.5	235.0	169.9	174.9	185.7	196.0	201.4	202.3	202.7
32.5°	2086.0	1759.0	760.6	173.7	155.4	159.2	170.8	188.2	198.5	200.2	200.2
35°	2239.0	1819.5	614.2	151.3	145.1	146.3	155.4	175.3	193.6	198.1	198.5
37.5°	2406.4	1879.2	467.1	141.3	136.4	136.4	143.0	160.0	181.5	195.6	197.3
40°	2562.7	1915.3	327.4	133.5	128.5	128.5	134.3	146.7	167.0	188.2	192.7
42.5°	2706.9	1927.7	228.0	126.0	121.0	122.3	127.2	137.2	152.5	173.7	177.8
45°	2855.3	1925.6	166.2	117.3	113.6	117.3	121.0	128.5	139.7	151.7	152.5
47.5°	2967.2	1908.2	131.8	109.0	106.5	111.5	114.8	119.8	126.0	125.2	125.2
50°	3072.1	1865.9	106.1	97.8	99.5	105.3	106.9	108.6	109.0	101.1	100.3
52.5°	3151.6	1800.0	85.0	85.8	92.4	98.2	96.6	94.1	89.9	80.4	78.7
55°	3178.2	1673.2	66.7	70.9	82.1	89.5	83.3	77.9	70.0	62.2	60.5
57.5°	3130.1	1509.5	54.3	55.1	69.2	75.4	68.4	62.2	53.5	46.8	45.6
60°	3028.1	1327.6	44.8	41.4	53.5	58.9	54.3	48.1	40.2	35.2	34.8
62.5°	2825.9	1133.6	36.9	32.3	40.6	45.2	42.3	37.7	31.1	27.8	27.4
65°	2400.6	906.9	29.8	26.1	31.5	35.2	32.7	29.4	24.5	22.0	21.6
67.5°	1675.7	613.0	24.5	21.6	24.9	27.8	25.7	24.0	19.5	19.1	19.5
70°	808.2	295.5	20.3	17.4	19.5	21.6	20.7	19.5	18.7	21.6	24.9
72.5°	231.7	99.1	16.2	14.5	15.7	17.0	17.8	17.4	20.3	26.1	30.3
73°	178.2	80.0	15.3	13.7	14.9	16.6	17.4	17.0	20.7	26.5	30.3
75°	76.3	38.5	11.6	11.2	12.4	14.5	15.3	15.3	20.7	26.9	29.0
77.5°	34.4	20.7	7.5	8.7	10.8	11.6	12.8	12.8	16.6	20.7	20.7
80°	19.5	11.2	5.8	6.6	7.9	7.9	7.9	7.0	7.5	8.3	9.1
82.5°	12.4	7.5	4.6	5.4	5.0	4.1	3.3	3.3	2.9	3.3	4.1
85°	7.0	4.1	4.1	3.3	2.1	1.7	2.1	1.7	0.4	0.0	0.4
87.5°	4.1	2.5	1.2	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)