

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: P1209250

Luminaire Tested: UPW-SA2-110-727-U-T4W-HSS

Issue Date: 11/4/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1209250  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 2/19/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: UPW-SA2-110-727-U-T4W-HSS  
Description: UNDERPASS WALL MOUNT LUMINAIRE  
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8947 lumens  
Efficiency: N/A  
Efficacy: 79.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

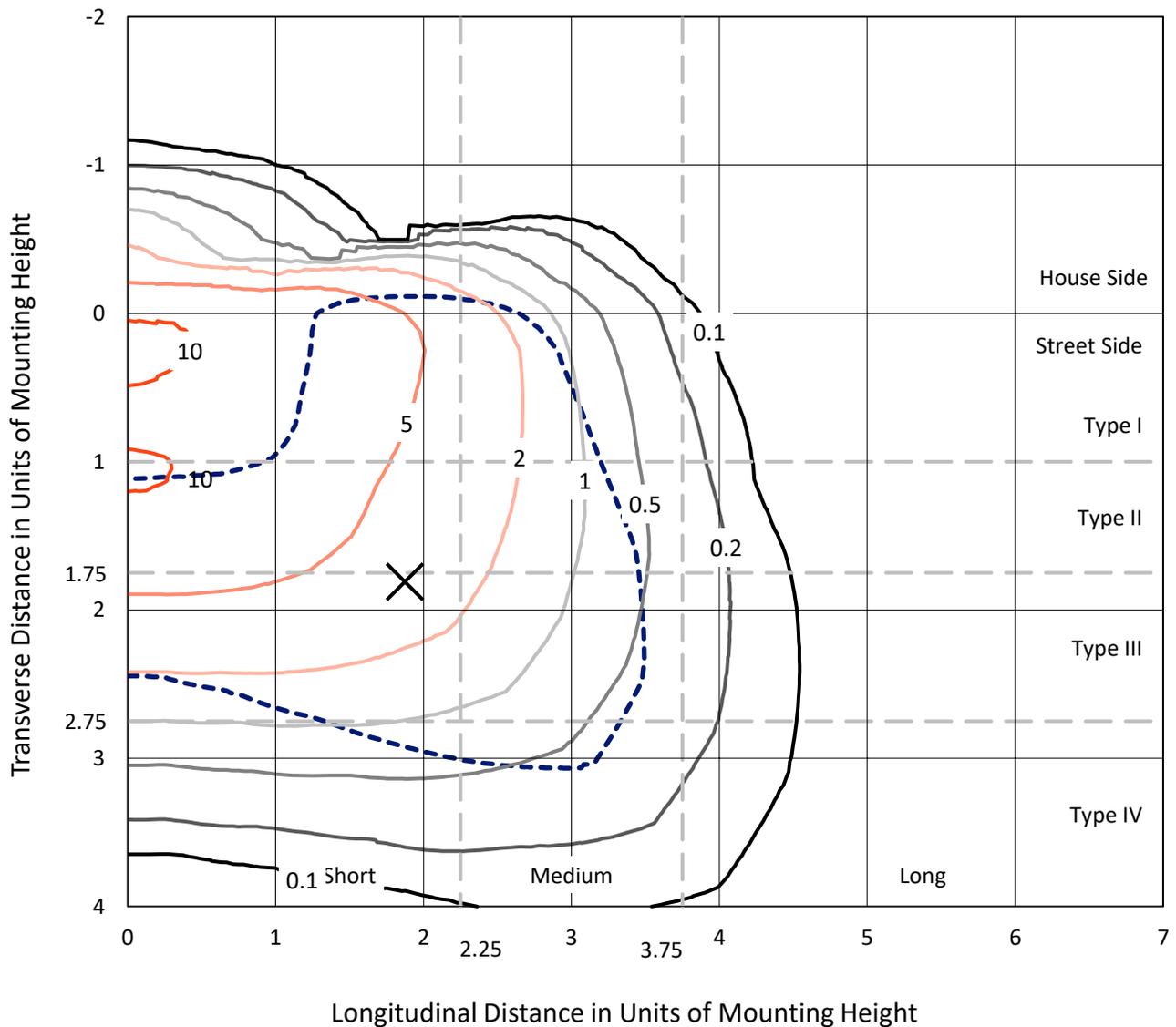
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

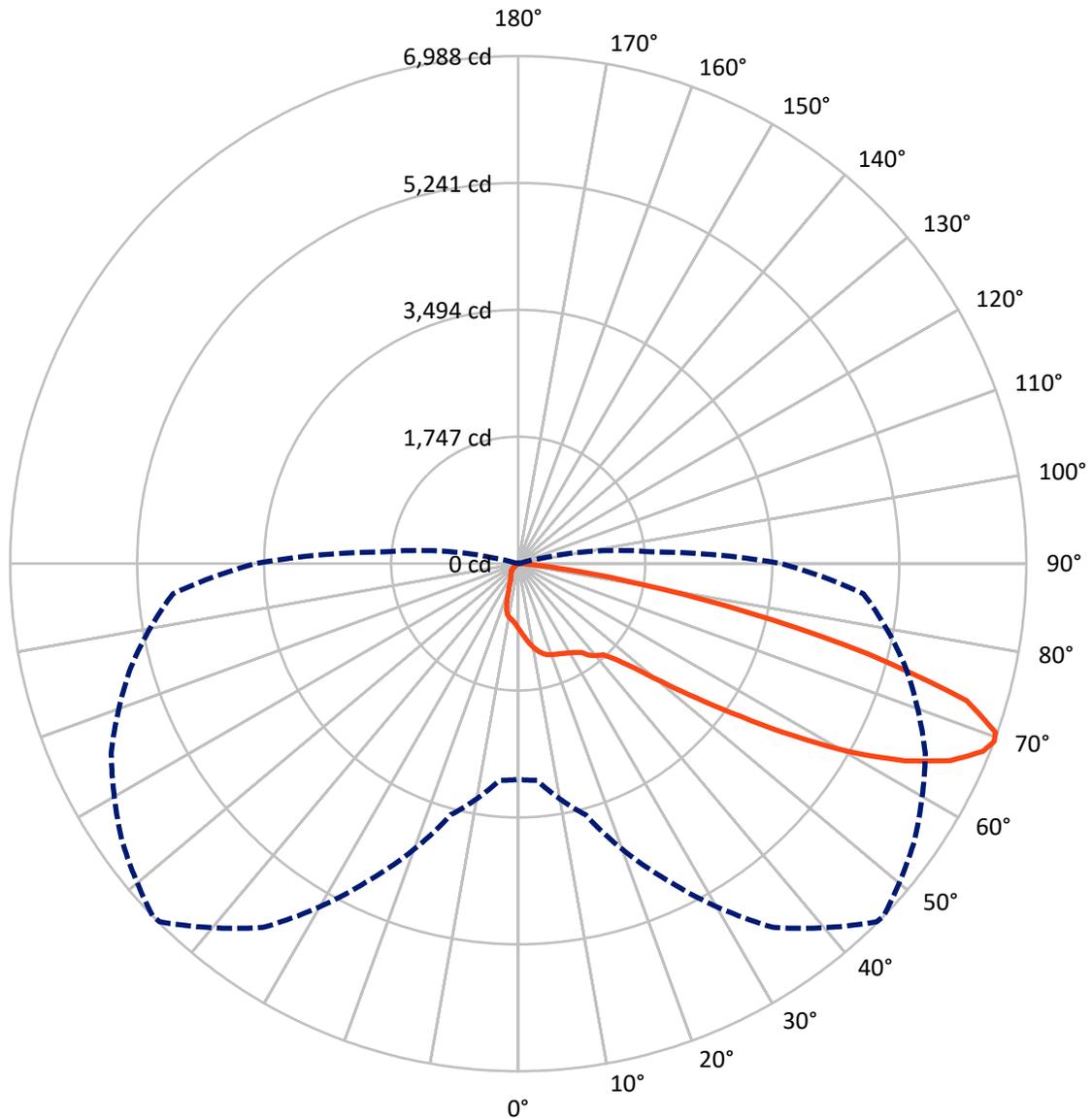
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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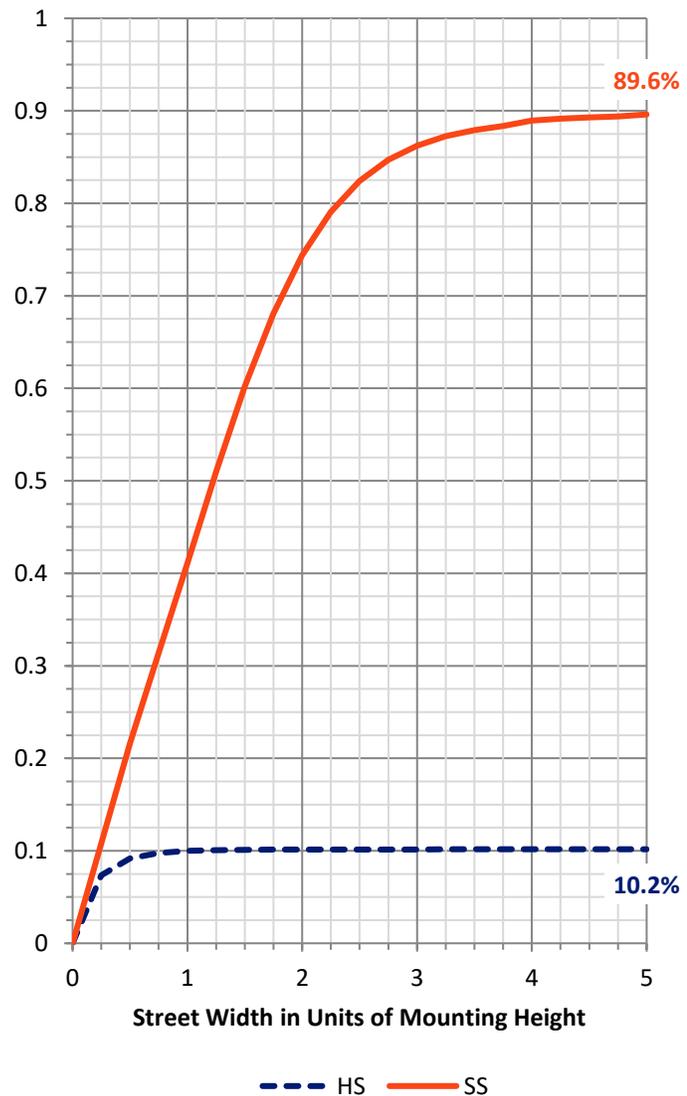
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	918.2	0.0	918.2
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	8028.8	0.0	8028.8
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	8947.0	0.0	8947.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.2	1.0
10°-20°	270.7	3.0
20°-30°	425.7	4.8
30°-40°	610.5	6.8
40°-50°	1055.1	11.8
50°-60°	2084.5	23.3
60°-70°	2913.3	32.6
70°-80°	1407.4	15.7
80°-90°	90.5	1.0
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°	8947.0	100.0
0°-180°	8947.0	100.0



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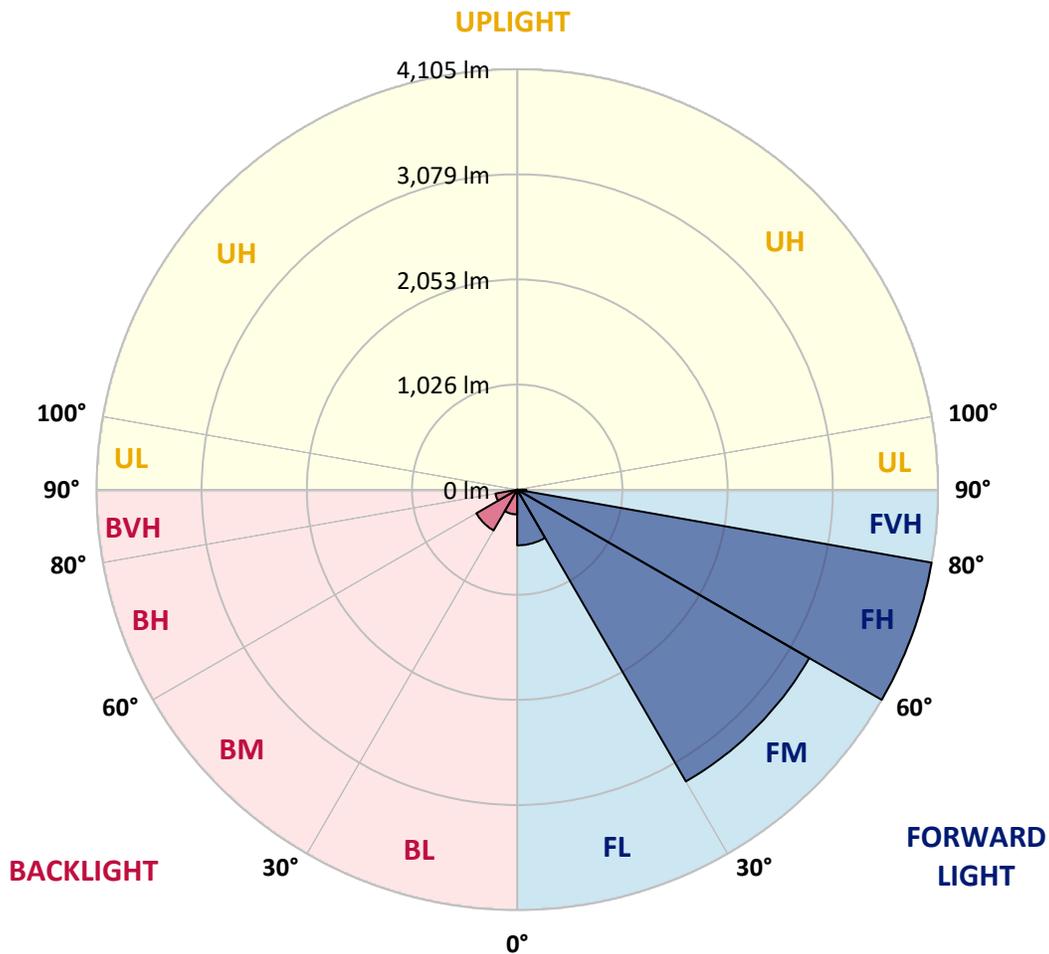
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	543.6	6.1			
FM	(30°-60°)	3290.0	36.8			
FH	(60°-80°)	4105.5	45.9			G2/5000
FVH	(80°-90°)	89.7	1.0			G1/100
BL	(0°-30°)	242.0	2.7	B1/500		
BM	(30°-60°)	460.1	5.1	B1/1000		
BH	(60°-80°)	215.3	2.4	B1/500		G1/500
BVH	(80°-90°)	0.8	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°	45°	46°	55°	65°	75°	85°
0°	896.5	896.5	896.5	896.5	896.5	896.5	896.5	896.5	896.5	896.5	896.5
2.5°	995.9	994.6	988.7	986.2	972.0	963.6	960.2	949.7	934.6	919.5	902.7
5°	1109.1	1108.7	1097.8	1087.3	1060.5	1035.3	1030.7	1006.4	972.4	940.5	908.6
7.5°	1224.9	1219.5	1208.6	1188.4	1149.4	1109.1	1105.4	1071.0	1022.7	976.6	930.9
10°	1323.1	1319.7	1305.5	1274.8	1229.1	1183.4	1178.8	1136.4	1081.9	1025.2	966.9
12.5°	1399.4	1396.9	1378.0	1339.9	1291.2	1243.8	1237.5	1199.7	1141.4	1078.1	1009.3
15°	1446.0	1444.7	1421.7	1381.0	1333.1	1292.0	1286.6	1253.4	1199.3	1133.0	1055.4
17.5°	1456.9	1457.3	1433.4	1392.3	1352.9	1323.5	1319.3	1294.1	1248.8	1183.0	1101.6
20°	1432.6	1437.6	1416.2	1380.6	1356.2	1340.7	1337.3	1322.2	1284.1	1222.0	1138.5
22.5°	1398.2	1400.7	1386.0	1362.1	1352.0	1355.0	1353.3	1344.9	1312.6	1255.5	1175.0
25°	1377.2	1377.2	1368.4	1348.2	1355.0	1373.0	1373.4	1371.7	1346.2	1296.7	1219.5
27.5°	1376.4	1373.8	1363.8	1348.7	1367.1	1394.8	1396.5	1407.8	1391.9	1346.6	1274.8
30°	1409.9	1407.0	1385.6	1365.9	1389.4	1419.1	1423.3	1448.1	1440.1	1400.7	1336.5
32.5°	1488.4	1477.9	1430.5	1398.2	1415.8	1451.4	1456.9	1496.3	1508.9	1467.4	1396.1
35°	1595.8	1562.6	1494.2	1459.4	1461.1	1498.4	1503.5	1561.4	1598.7	1528.6	1442.2
37.5°	1743.8	1727.5	1616.3	1523.2	1530.7	1587.4	1602.0	1665.0	1654.5	1562.2	1494.7
40°	2068.5	2042.9	1924.6	1701.9	1597.4	1659.5	1664.1	1697.7	1698.5	1638.1	1603.7
42.5°	2510.7	2500.2	2375.6	2026.1	1728.7	1707.8	1716.1	1772.8	1836.1	1798.4	1796.7
45°	3000.2	2994.8	2862.6	2456.5	1994.3	1865.9	1876.4	1952.3	2073.6	2081.9	2135.2
47.5°	3394.1	3391.6	3315.7	2936.9	2400.8	2134.0	2137.3	2217.9	2431.0	2536.3	2621.4
50°	3753.2	3765.4	3705.4	3456.6	2954.5	2553.9	2545.9	2599.6	2941.9	3114.3	3220.0
52.5°	4252.4	4269.6	4101.4	3941.6	3535.5	3074.9	3068.6	3124.8	3556.0	3685.2	3704.1
55°	4693.3	4663.9	4530.9	4484.8	4244.0	3718.4	3716.7	3766.2	4150.0	4205.0	4239.8
57.5°	4887.9	4876.6	4940.8	5046.5	4986.1	4478.9	4475.1	4437.4	4681.5	4687.4	4794.4
60°	5010.8	5024.7	5221.4	5547.4	5698.0	5297.4	5273.0	5042.7	5189.1	5176.1	5290.6
62.5°	4918.6	4945.8	5299.9	5843.1	6230.7	6011.8	5977.4	5597.3	5622.9	5578.0	5684.5
65°	4428.6	4471.0	5051.1	5787.3	6495.0	6570.1	6535.3	6086.8	5967.3	5893.5	5834.3
67.5°	3595.9	3621.1	4226.8	5302.0	6375.9	6903.2	6896.0	6516.0	6227.4	5840.2	5381.3
69°	2971.7	2996.4	3579.5	4791.0	6113.7	6974.5	6988.3	6653.6	6177.9	5516.3	4768.0
70°	2517.0	2543.4	3086.6	4353.1	5809.6	6941.3	6966.1	6640.6	6036.1	5141.3	4229.7
72.5°	1320.1	1342.8	1900.3	2999.0	4736.1	6373.8	6448.9	6079.3	5116.6	3733.9	2501.0
75°	414.9	427.9	742.1	1567.6	3242.7	4955.9	4973.1	4768.8	3633.2	2053.8	1041.6
77.5°	158.1	154.4	247.1	577.6	1639.4	3120.6	3225.9	2980.1	1906.6	726.1	240.4
80°	85.2	85.6	128.4	239.1	701.4	1603.7	1692.7	1444.3	677.5	226.5	55.4
82.5°	36.9	38.6	72.2	126.7	322.2	591.5	636.0	529.4	258.8	152.3	20.6
85°	8.0	8.8	34.8	68.8	131.3	166.1	174.1	171.6	164.9	118.3	8.0
87.5°	0.0	0.0	15.5	24.8	33.1	37.8	33.1	43.2	91.0	79.7	4.2
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°	896.5	896.5	896.5	896.5	896.5	896.5	896.5	896.5	896.5	896.5	896.5
2.5°	897.3	889.7	876.7	862.5	852.4	841.9	833.5	829.8	825.6	822.6	826.4
5°	895.6	880.9	855.8	831.4	813.8	799.6	787.8	783.2	778.6	775.2	774.8
7.5°	910.3	889.7	851.2	815.5	788.2	768.9	753.0	746.3	740.8	738.3	736.2
10°	938.4	912.0	860.4	813.8	778.6	745.9	711.5	685.0	667.8	659.9	656.9
12.5°	974.9	941.8	878.0	822.6	771.4	708.5	635.5	572.6	531.9	518.5	510.5
15°	1017.7	976.6	901.1	834.0	745.4	630.5	506.7	424.5	386.8	379.2	370.8
17.5°	1058.8	1013.5	928.8	836.0	688.4	503.8	371.3	315.5	300.8	305.8	307.1
20°	1094.9	1050.0	956.0	817.6	584.8	378.0	287.4	273.5	279.0	288.6	290.3
22.5°	1131.4	1085.2	981.2	768.9	452.2	286.9	258.8	262.2	267.6	277.3	279.0
25°	1175.8	1128.0	1004.7	679.6	339.4	244.1	245.8	250.9	256.3	265.1	266.0
27.5°	1227.0	1182.1	1020.2	563.4	251.7	224.4	229.9	237.4	242.9	251.3	253.0
30°	1295.0	1253.4	1025.2	443.0	211.0	206.8	209.3	218.6	226.5	234.1	235.3
32.5°	1358.7	1323.9	1008.5	334.3	195.5	190.4	190.4	195.9	205.1	212.3	213.9
35°	1417.5	1394.8	954.8	244.6	183.7	175.3	171.2	171.2	177.0	182.9	184.6
37.5°	1495.1	1494.2	867.9	195.1	172.4	162.8	154.0	147.2	145.1	146.4	147.2
40°	1628.1	1629.3	754.7	174.9	162.8	149.8	136.3	124.2	112.8	109.1	108.6
42.5°	1835.7	1816.8	636.0	165.3	154.4	136.3	116.2	99.8	82.2	76.8	76.3
45°	2165.4	2053.4	510.1	156.5	145.6	121.2	96.1	73.8	59.6	55.4	55.4
47.5°	2645.7	2364.3	395.2	146.8	133.8	104.0	72.6	53.3	43.6	41.5	41.9
50°	3142.4	2668.8	302.9	134.7	119.6	86.0	53.7	38.6	33.1	33.1	33.6
52.5°	3582.9	2892.0	236.2	121.7	101.9	67.5	40.7	30.2	27.7	27.3	27.7
55°	3995.2	3035.9	180.8	106.6	81.0	50.3	31.0	24.8	23.1	22.2	21.8
57.5°	4392.9	3107.2	135.5	86.0	58.7	36.5	24.8	21.0	19.3	18.0	17.6
60°	4657.6	3049.3	93.1	63.3	40.7	26.4	20.6	18.0	15.9	14.7	14.3
62.5°	4807.0	2891.1	60.0	45.7	28.9	19.7	16.4	15.1	12.2	10.9	10.9
65°	4746.6	2630.2	41.9	32.7	21.0	14.7	12.2	12.2	8.8	7.1	6.7
67.5°	4206.3	2222.1	31.9	24.3	15.1	10.9	9.2	10.5	5.5	3.4	3.4
69°	3619.0	1841.6	27.3	20.1	12.6	8.8	8.0	9.6	3.8	2.5	2.1
70°	3145.4	1588.6	24.8	17.6	10.5	7.6	7.1	9.2	3.8	2.1	1.7
72.5°	1881.8	886.0	18.9	12.6	6.7	5.9	5.9	10.5	3.8	2.1	1.7
75°	760.5	312.1	13.8	8.8	5.0	5.0	7.1	13.4	3.4	1.7	1.3
77.5°	172.4	68.4	8.0	5.5	3.4	5.0	8.4	10.5	2.1	0.8	0.0
80°	41.9	16.8	5.0	3.4	2.1	3.8	6.3	5.9	0.4	0.0	0.0
82.5°	13.8	5.9	2.1	1.7	0.4	1.3	2.9	1.7	0.0	0.0	0.0
85°	5.9	3.4	0.8	0.4	0.0	0.0	0.4	0.0	0.0	0.0	0.0
87.5°	3.8	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)