

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: P1209331

Luminaire Tested: UPW-SA2-110-740-U-T4W-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209331
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-110-740-U-T4W-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 4000K, 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: 10700 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

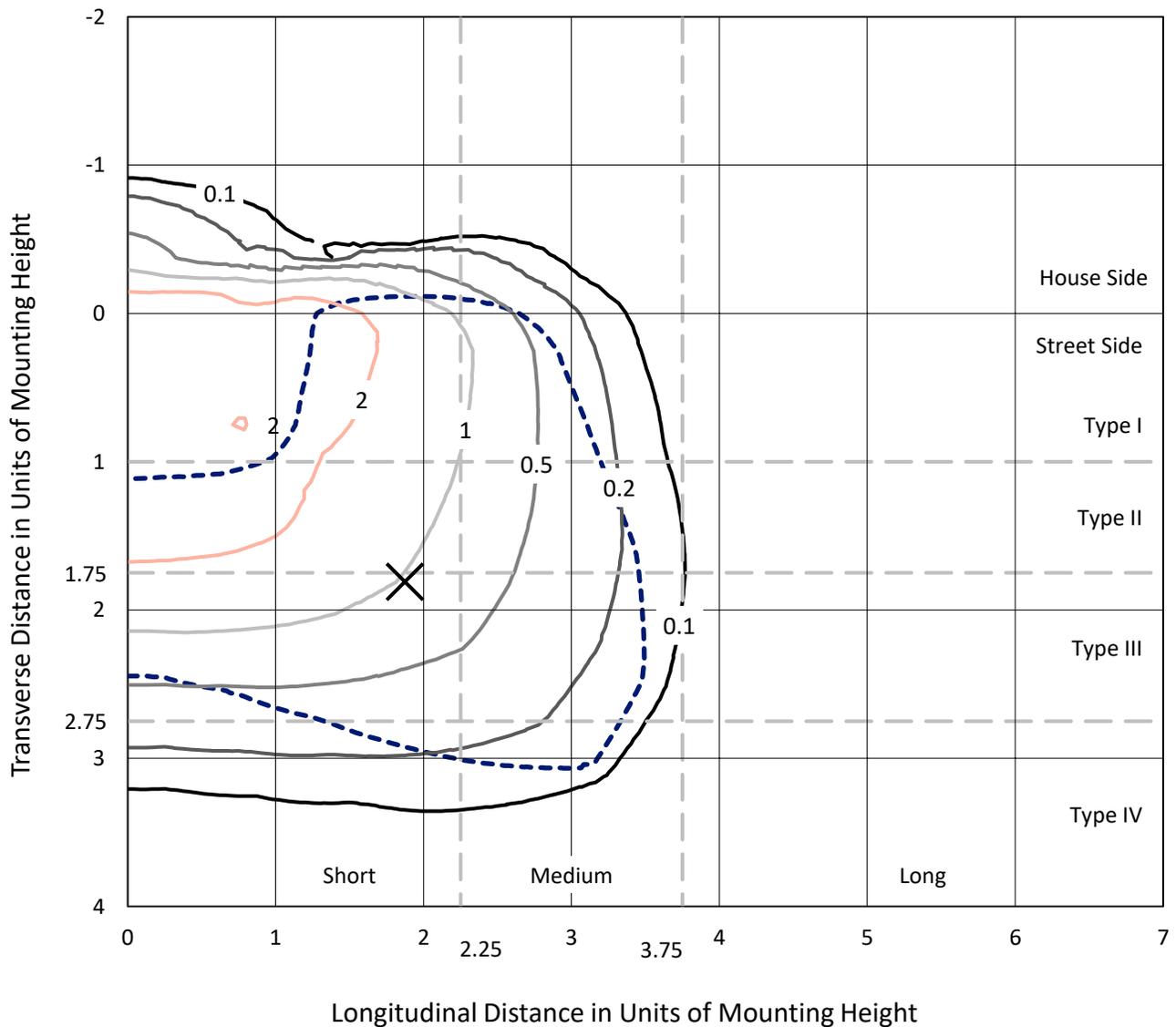
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

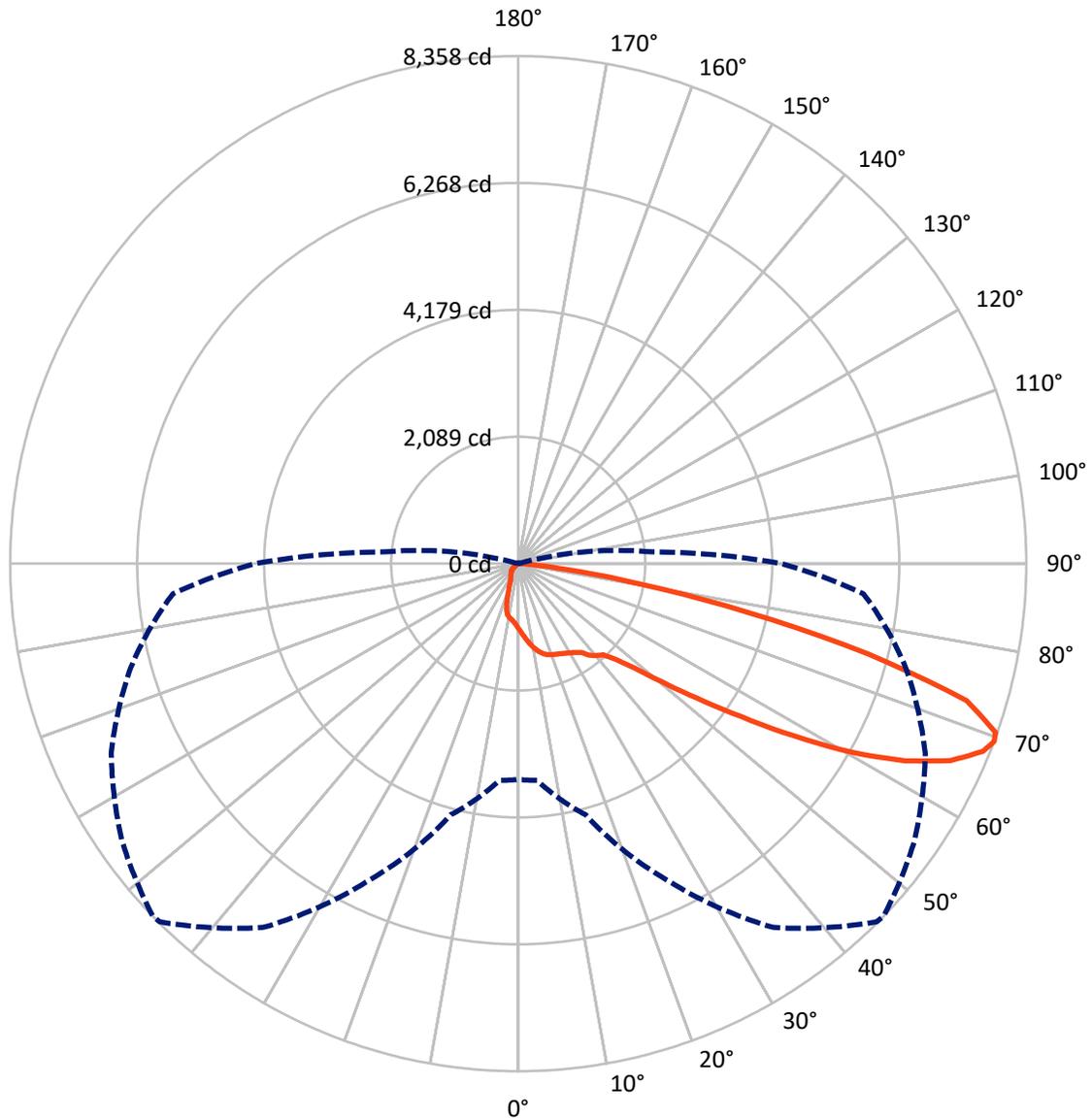
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.9 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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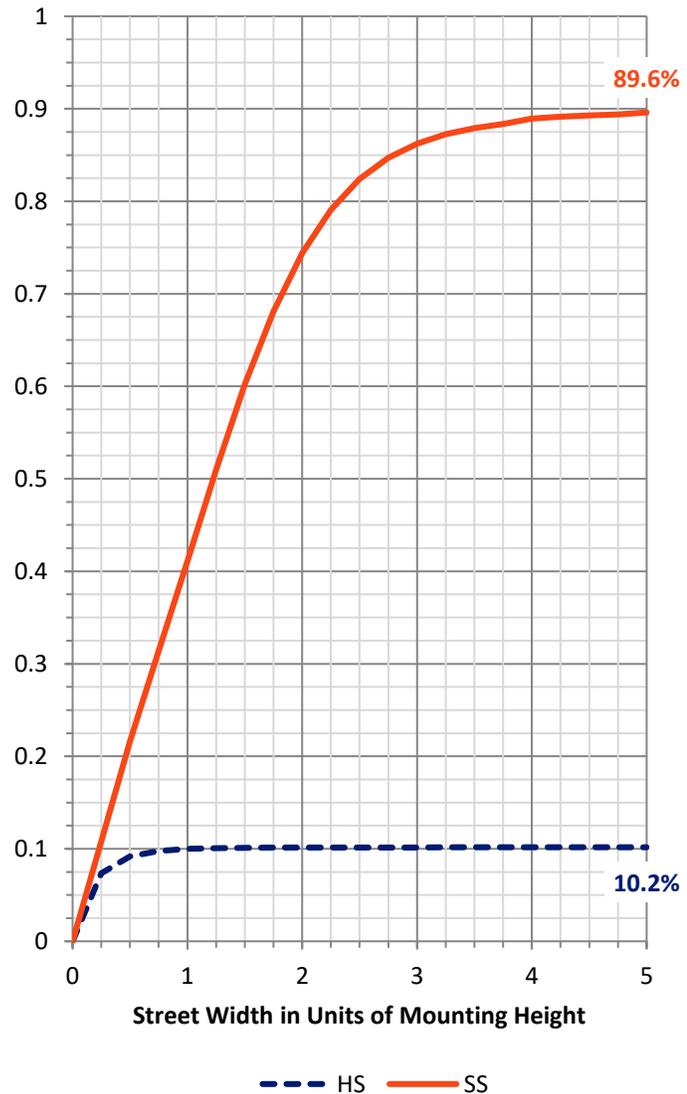
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1098.1	0.0	1098.1
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	9601.9	0.0	9601.9
	% Fixture	89.7	0.0	89.7
Total	Lumens	10700.0	0.0	10700.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.7	1.0
10°-20°	323.7	3.0
20°-30°	509.1	4.8
30°-40°	730.1	6.8
40°-50°	1261.9	11.8
50°-60°	2492.9	23.3
60°-70°	3484.1	32.6
70°-80°	1683.2	15.7
80°-90°	108.2	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°	10700.0	100.0
0°-180°	10700.0	100.0



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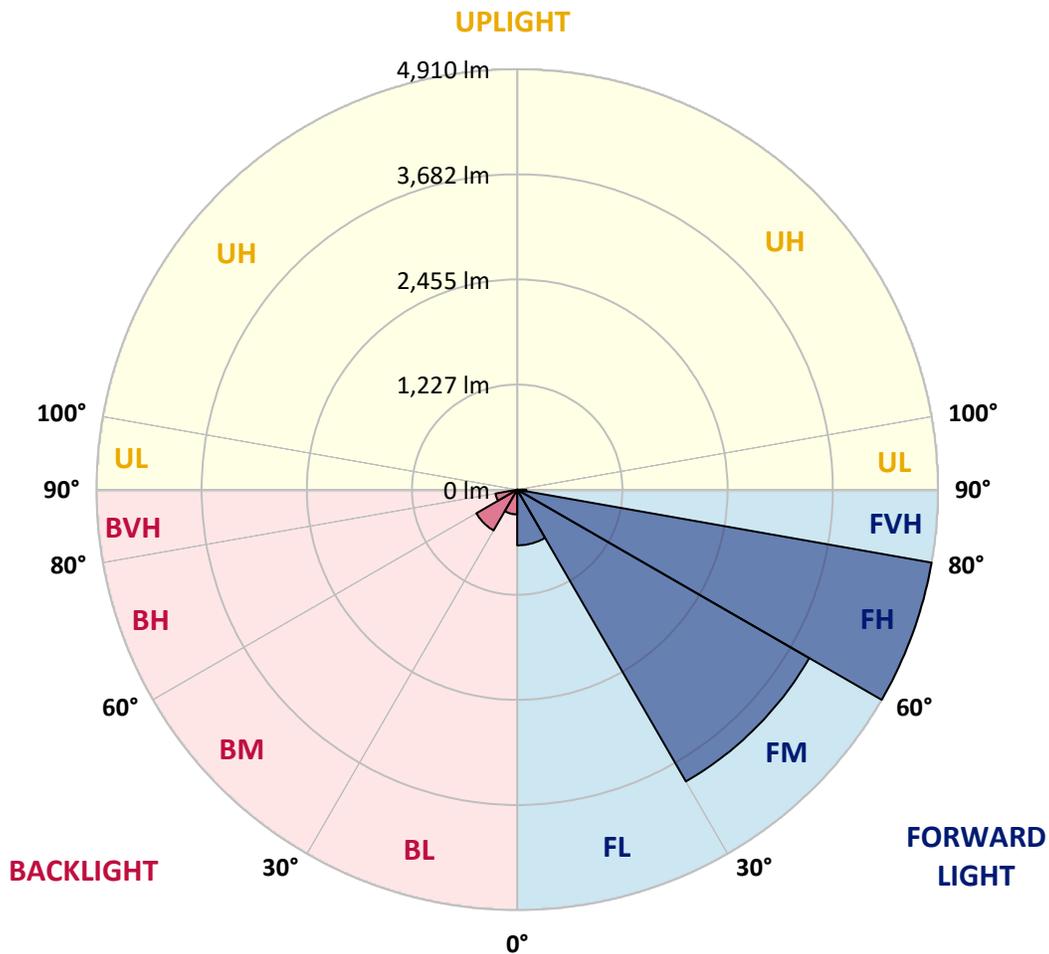
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	650.2	6.1			
FM	(30°-60°)	3934.6	36.8			
FH	(60°-80°)	4909.8	45.9			G2/5000
FVH	(80°-90°)	107.3	1.0			G2/225
BL	(0°-30°)	289.4	2.7	B1/500		
BM	(30°-60°)	550.3	5.1	B1/1000		
BH	(60°-80°)	257.5	2.4	B1/500		G1/500
BVH	(80°-90°)	0.9	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°	1072.1	1072.1	1072.1	1072.1	1072.1	1072.1	1072.1	1072.1	1072.1	1072.1	1072.1
2.5°	1191.0	1189.5	1182.5	1179.5	1162.4	1152.4	1148.4	1135.8	1117.8	1099.7	1079.6
5°	1326.5	1326.0	1312.9	1300.4	1268.3	1238.2	1232.6	1203.5	1162.9	1124.8	1086.6
7.5°	1464.9	1458.4	1445.4	1421.3	1374.6	1326.5	1321.9	1280.8	1223.1	1167.9	1113.2
10°	1582.3	1578.3	1561.2	1524.6	1469.9	1415.3	1409.7	1359.1	1293.8	1226.1	1156.4
12.5°	1673.6	1670.6	1648.0	1602.4	1544.2	1487.5	1480.0	1434.8	1365.1	1289.3	1207.1
15°	1729.3	1727.8	1700.2	1651.5	1594.4	1545.2	1538.7	1499.0	1434.3	1355.1	1262.2
17.5°	1742.4	1742.9	1714.3	1665.1	1617.9	1582.8	1577.8	1547.7	1493.5	1414.8	1317.4
20°	1713.3	1719.3	1693.7	1651.0	1621.9	1603.4	1599.4	1581.3	1535.7	1461.4	1361.6
22.5°	1672.1	1675.1	1657.6	1629.0	1616.9	1620.4	1618.4	1608.4	1569.8	1501.5	1405.2
25°	1647.0	1647.0	1636.5	1612.4	1620.4	1642.0	1642.5	1640.5	1609.9	1550.7	1458.4
27.5°	1646.0	1643.0	1631.0	1612.9	1635.0	1668.1	1670.1	1683.7	1664.6	1610.4	1524.6
30°	1686.2	1682.7	1657.1	1633.5	1661.6	1697.2	1702.2	1731.8	1722.3	1675.1	1598.4
32.5°	1780.0	1767.4	1710.7	1672.1	1693.2	1735.8	1742.4	1789.5	1804.6	1754.9	1669.6
35°	1908.4	1868.8	1787.0	1745.4	1747.4	1792.0	1798.0	1867.3	1911.9	1828.1	1724.8
37.5°	2085.5	2065.9	1933.0	1821.6	1830.6	1898.4	1915.9	1991.2	1978.6	1868.3	1787.5
40°	2473.8	2443.2	2301.7	2035.3	1910.4	1984.7	1990.2	2030.3	2031.3	1959.1	1917.9
42.5°	3002.6	2990.0	2841.0	2423.1	2067.4	2042.4	2052.4	2120.1	2195.9	2150.7	2148.7
45°	3588.0	3581.5	3423.5	2937.9	2385.0	2231.5	2244.0	2334.8	2479.8	2489.9	2553.6
47.5°	4059.1	4056.1	3965.3	3512.3	2871.1	2552.1	2556.1	2652.4	2907.3	3033.2	3135.0
50°	4488.6	4503.1	4431.4	4133.9	3533.4	3054.3	3044.7	3108.9	3518.3	3724.5	3850.9
52.5°	5085.6	5106.1	4905.0	4713.8	4228.2	3677.3	3669.8	3737.0	4252.8	4407.3	4429.9
55°	5612.8	5577.7	5418.7	5363.5	5075.5	4446.9	4444.9	4504.1	4963.2	5028.9	5070.5
57.5°	5845.6	5832.1	5908.8	6035.3	5963.0	5356.5	5352.0	5306.8	5598.8	5605.8	5733.8
60°	5992.6	6009.2	6244.5	6634.3	6814.4	6335.3	6306.2	6030.8	6205.8	6190.3	6327.2
62.5°	5882.3	5914.9	6338.3	6988.0	7451.5	7189.6	7148.5	6694.0	6724.6	6670.9	6798.3
65°	5296.3	5347.0	6040.8	6921.2	7767.6	7857.4	7815.7	7279.4	7136.5	7048.2	6977.4
67.5°	4300.4	4330.5	5055.0	6340.8	7625.1	8255.7	8247.2	7792.7	7447.5	6984.5	6435.6
69°	3553.9	3583.5	4280.9	5729.7	7311.6	8341.0	8357.6	7957.2	7388.3	6597.2	5702.1
70°	3010.1	3041.7	3691.4	5206.0	6947.8	8301.4	8331.0	7941.7	7218.7	6148.6	5058.5
72.5°	1578.8	1605.9	2272.6	3586.5	5664.0	7622.6	7712.4	7270.4	6119.0	4465.5	2991.0
75°	496.2	511.7	887.5	1874.8	3878.0	5926.9	5947.5	5703.2	4345.1	2456.2	1245.7
77.5°	189.1	184.6	295.5	690.8	1960.6	3732.0	3858.0	3564.0	2280.2	868.4	287.5
80°	101.8	102.3	153.5	286.0	838.8	1917.9	2024.3	1727.3	810.2	270.9	66.2
82.5°	44.1	46.2	86.3	151.5	385.3	707.4	760.6	633.1	309.5	182.1	24.6
85°	9.5	10.5	41.6	82.3	157.0	198.7	208.2	205.2	197.2	141.5	9.5
87.5°	0.0	0.0	18.6	29.6	39.6	45.2	39.6	51.7	108.9	95.3	5.0
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°	1072.1	1072.1	1072.1	1072.1	1072.1	1072.1	1072.1	1072.1	1072.1	1072.1	1072.1
2.5°	1073.1	1064.1	1048.5	1031.5	1019.4	1006.9	996.8	992.3	987.3	983.8	988.3
5°	1071.1	1053.5	1023.4	994.3	973.3	956.2	942.2	936.6	931.1	927.1	926.6
7.5°	1088.7	1064.1	1017.9	975.3	942.7	919.6	900.5	892.5	886.0	883.0	880.5
10°	1122.3	1090.7	1029.0	973.3	931.1	892.0	850.9	819.3	798.7	789.1	785.6
12.5°	1165.9	1126.3	1050.0	983.8	922.6	847.3	760.1	684.8	636.1	620.1	610.6
15°	1217.1	1167.9	1077.6	997.3	891.5	754.0	606.0	507.7	462.6	453.5	443.5
17.5°	1266.3	1212.1	1110.7	999.9	823.3	602.5	444.0	377.3	359.7	365.7	367.2
20°	1309.4	1255.7	1143.3	977.8	699.3	452.0	343.7	327.1	333.6	345.2	347.2
22.5°	1353.0	1297.9	1173.4	919.6	540.8	343.2	309.5	313.6	320.1	331.6	333.6
25°	1406.2	1349.0	1201.5	812.7	405.9	292.0	294.0	300.0	306.5	317.1	318.1
27.5°	1467.4	1413.7	1220.1	673.8	301.0	268.4	274.9	284.0	290.5	300.5	302.5
30°	1548.7	1499.0	1226.1	529.8	252.3	247.3	250.3	261.4	270.9	279.9	281.4
32.5°	1625.0	1583.3	1206.0	399.8	233.8	227.8	227.8	234.3	245.3	253.9	255.9
35°	1695.2	1668.1	1141.8	292.5	219.7	209.7	204.7	204.7	211.7	218.7	220.7
37.5°	1788.0	1787.0	1038.0	233.3	206.2	194.7	184.1	176.1	173.6	175.1	176.1
40°	1947.0	1948.5	902.5	209.2	194.7	179.1	163.0	148.5	135.0	130.4	129.9
42.5°	2195.4	2172.8	760.6	197.7	184.6	163.0	139.0	119.4	98.3	91.8	91.3
45°	2589.7	2455.7	610.0	187.1	174.1	145.0	114.9	88.3	71.2	66.2	66.2
47.5°	3164.1	2827.5	472.6	175.6	160.0	124.4	86.8	63.7	52.2	49.7	50.2
50°	3758.1	3191.7	362.2	161.0	143.0	102.8	64.2	46.2	39.6	39.6	40.1
52.5°	4284.9	3458.6	282.4	145.5	121.9	80.8	48.7	36.1	33.1	32.6	33.1
55°	4778.0	3630.7	216.2	127.4	96.8	60.2	37.1	29.6	27.6	26.6	26.1
57.5°	5253.6	3716.0	162.0	102.8	70.2	43.6	29.6	25.1	23.1	21.6	21.1
60°	5570.2	3646.7	111.4	75.8	48.7	31.6	24.6	21.6	19.1	17.6	17.1
62.5°	5748.8	3457.6	71.7	54.7	34.6	23.6	19.6	18.1	14.5	13.0	13.0
65°	5676.6	3145.6	50.2	39.1	25.1	17.6	14.5	14.5	10.5	8.5	8.0
67.5°	5030.4	2657.4	38.1	29.1	18.1	13.0	11.0	12.5	6.5	4.0	4.0
69°	4328.0	2202.4	32.6	24.1	15.1	10.5	9.5	11.5	4.5	3.0	2.5
70°	3761.6	1899.9	29.6	21.1	12.5	9.0	8.5	11.0	4.5	2.5	2.0
72.5°	2250.6	1059.6	22.6	15.1	8.0	7.0	7.0	12.5	4.5	2.5	2.0
75°	909.6	373.3	16.6	10.5	6.0	6.0	8.5	16.1	4.0	2.0	1.5
77.5°	206.2	81.8	9.5	6.5	4.0	6.0	10.0	12.5	2.5	1.0	0.0
80°	50.2	20.1	6.0	4.0	2.5	4.5	7.5	7.0	0.5	0.0	0.0
82.5°	16.6	7.0	2.5	2.0	0.5	1.5	3.5	2.0	0.0	0.0	0.0
85°	7.0	4.0	1.0	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.0
87.5°	4.5	1.5	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)