

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: P1209358

Luminaire Tested: UPW-SA2-110-750-U-T4W-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209358
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-SA2-110-750-U-T4W-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 5000K, 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: 10699 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

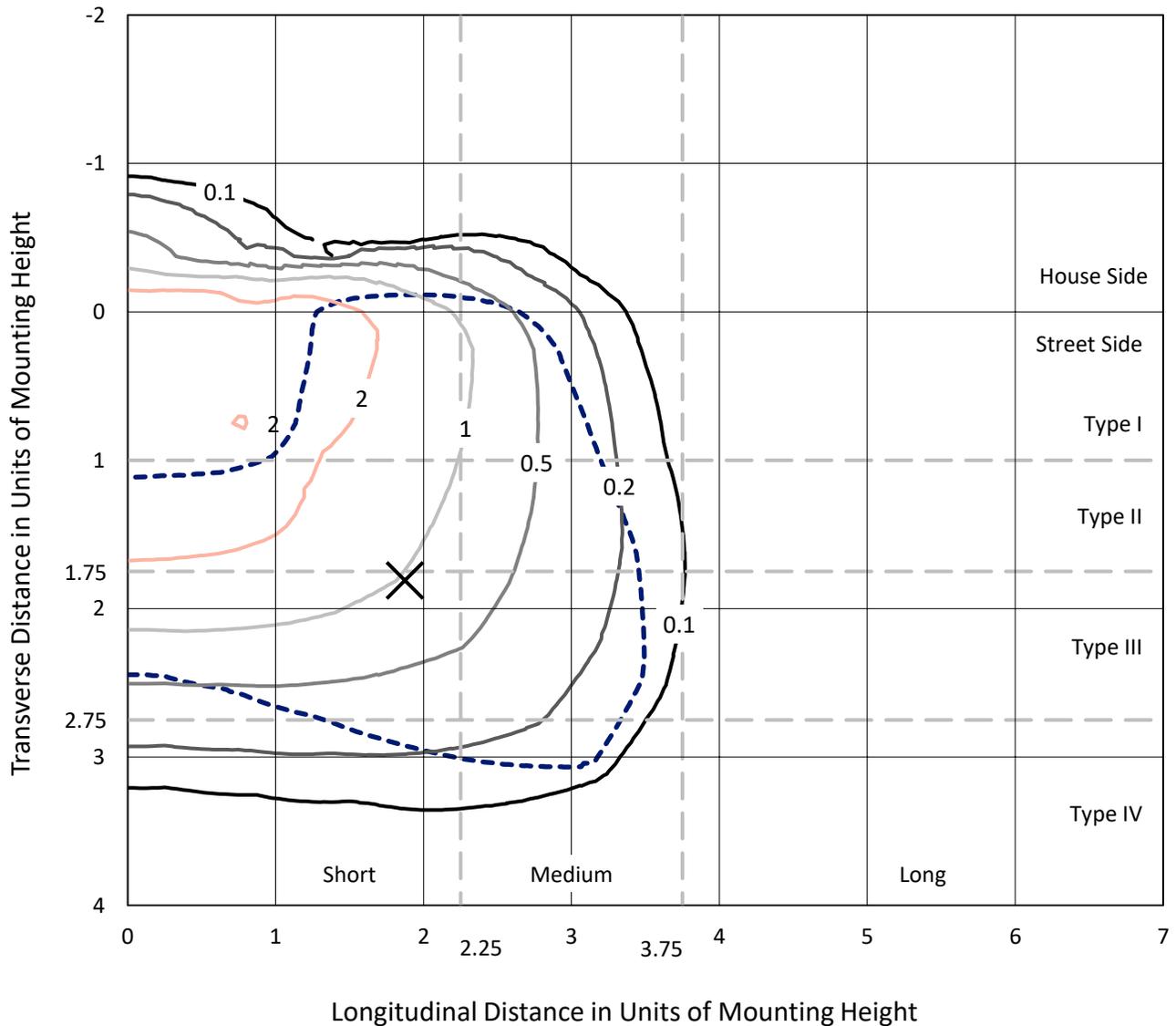
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

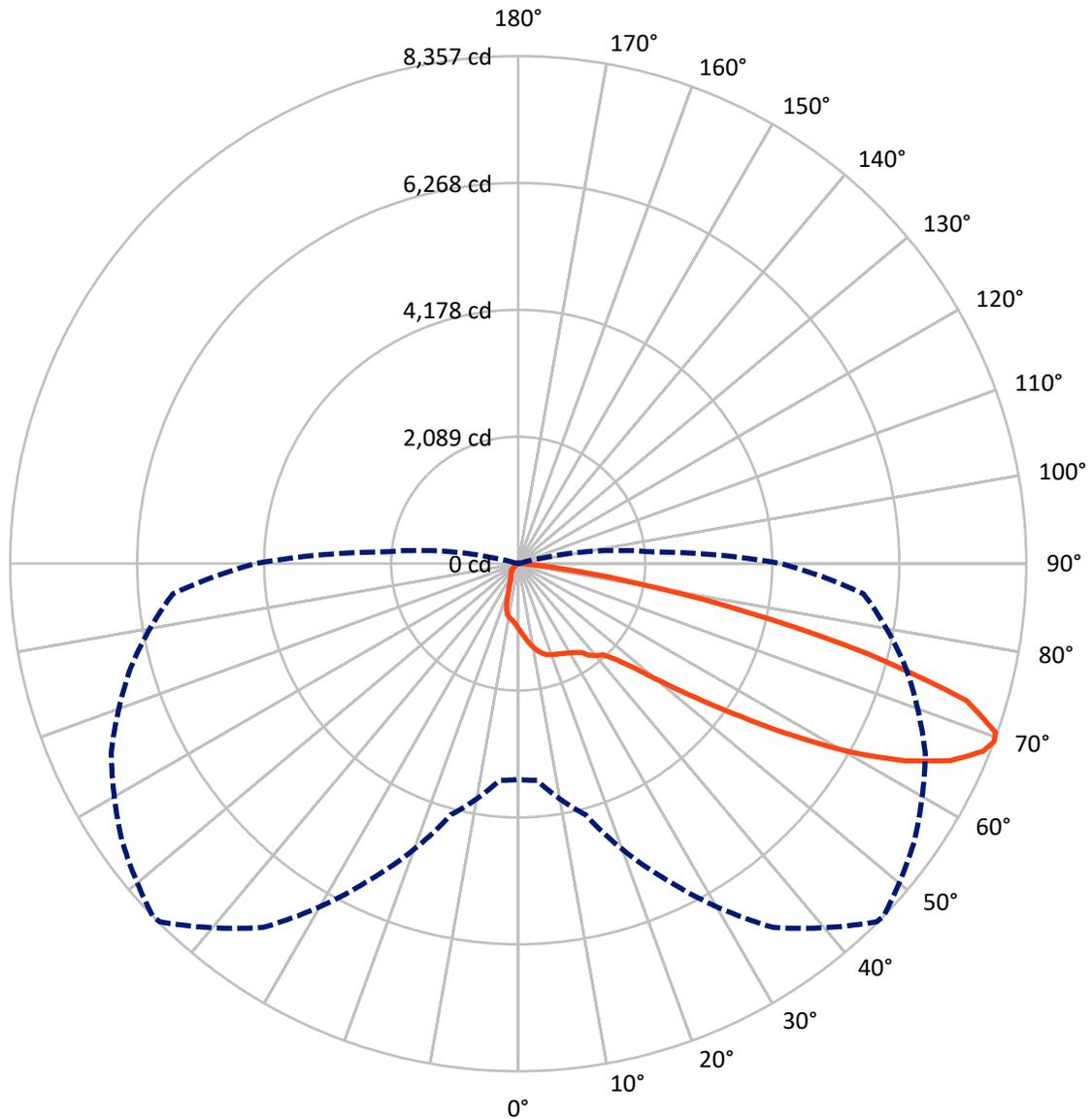
× Max cd
 - - - 1/2 Max cd



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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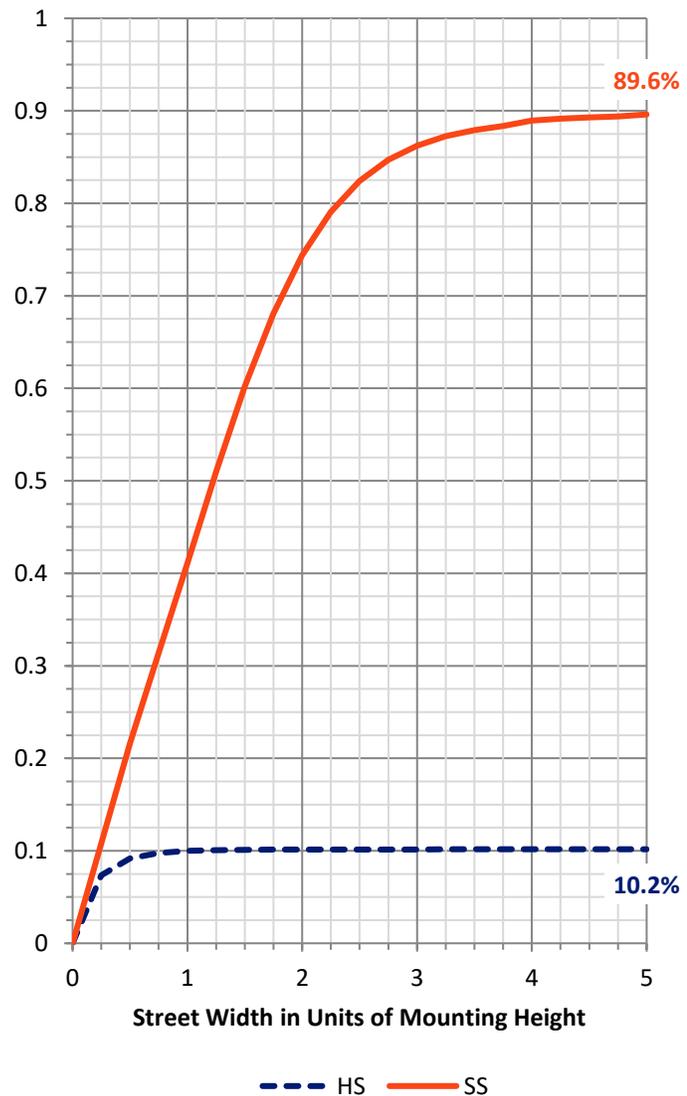
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1098.0	0.0	1098.0
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	9601.0	0.0	9601.0
	% Fixture	89.7	0.0	89.7
Total	Lumens	10699.0	0.0	10699.0
	% Fixture	100.0	0.0	100.0

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°	730.0	6.8
40°-50°	1261.8	11.8
50°-60°	2492.7	23.3
60°-70°	3483.8	32.6
70°-80°	1683.0	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°	10699.0	100.0
0°-180°	10699.0	100.0

Coefficient of Utilization



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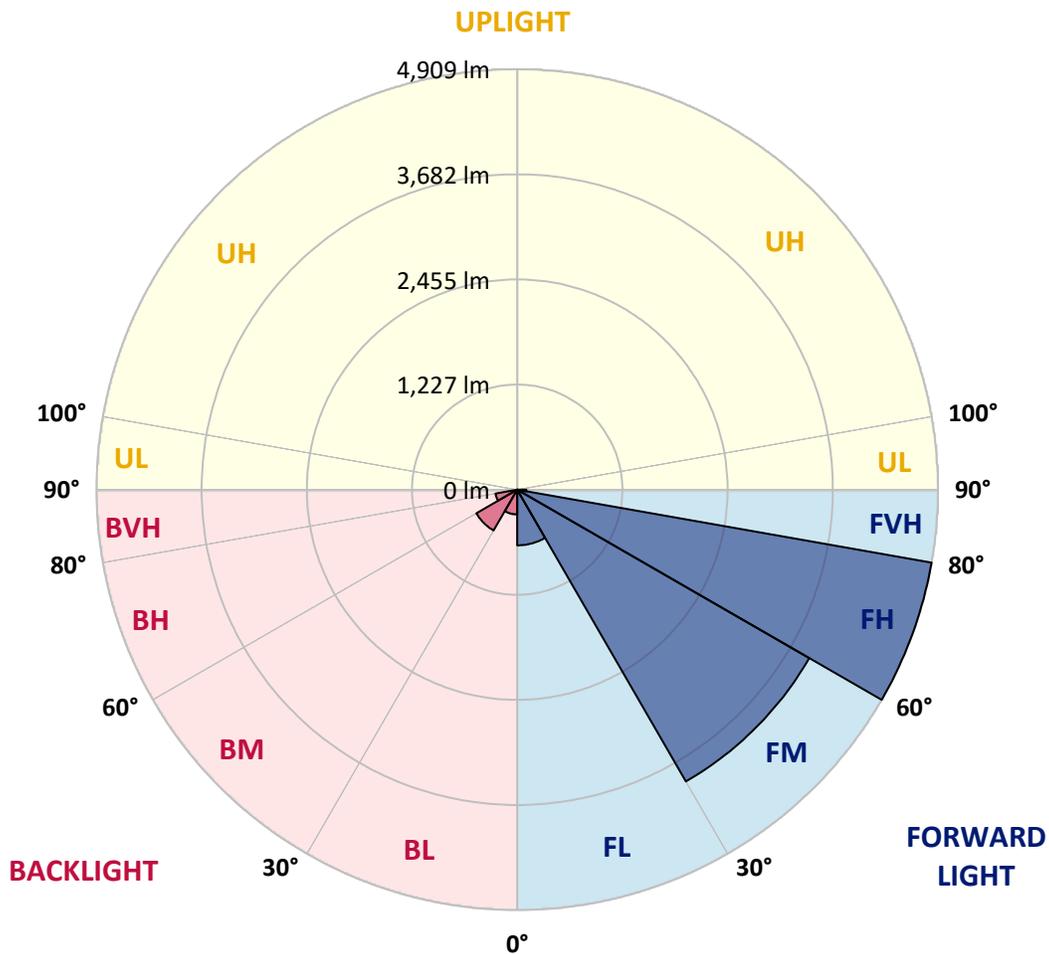
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	650.1	6.1			
FM	(30°-60°)	3934.3	36.8			
FH	(60°-80°)	4909.4	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°)	550.2	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°	1072.0	1072.0	1072.0	1072.0	1072.0	1072.0	1072.0	1072.0	1072.0	1072.0	1072.0
2.5°	1190.9	1189.4	1182.4	1179.4	1162.3	1152.3	1148.2	1135.7	1117.6	1099.6	1079.5
5°	1326.3	1325.8	1312.8	1300.2	1268.1	1238.0	1232.5	1203.4	1162.8	1124.7	1086.5
7.5°	1464.8	1458.3	1445.2	1421.1	1374.5	1326.3	1321.8	1280.7	1223.0	1167.8	1113.1
10°	1582.2	1578.2	1561.1	1524.5	1469.8	1415.1	1409.6	1358.9	1293.7	1226.0	1156.3
12.5°	1673.5	1670.5	1647.9	1602.2	1544.0	1487.4	1479.8	1434.7	1365.0	1289.2	1206.9
15°	1729.1	1727.6	1700.1	1651.4	1594.2	1545.0	1538.5	1498.9	1434.2	1354.9	1262.1
17.5°	1742.2	1742.7	1714.1	1664.9	1617.8	1582.7	1577.7	1547.6	1493.4	1414.6	1317.3
20°	1713.1	1719.1	1693.5	1650.9	1621.8	1603.2	1599.2	1581.2	1535.5	1461.3	1361.4
22.5°	1672.0	1675.0	1657.4	1628.8	1616.8	1620.3	1618.3	1608.3	1569.6	1501.4	1405.1
25°	1646.9	1646.9	1636.3	1612.3	1620.3	1641.9	1642.4	1640.4	1609.8	1550.6	1458.3
27.5°	1645.9	1642.9	1630.8	1612.8	1634.8	1667.9	1670.0	1683.5	1664.4	1610.3	1524.5
30°	1686.0	1682.5	1656.9	1633.3	1661.4	1697.0	1702.1	1731.7	1722.1	1675.0	1598.2
32.5°	1779.8	1767.3	1710.6	1672.0	1693.0	1735.7	1742.2	1789.3	1804.4	1754.7	1669.5
35°	1908.2	1868.6	1786.8	1745.2	1747.2	1791.8	1797.9	1867.1	1911.7	1828.0	1724.6
37.5°	2085.3	2065.7	1932.8	1821.4	1830.5	1898.2	1915.8	1991.0	1978.5	1868.1	1787.3
40°	2473.6	2443.0	2301.5	2035.1	1910.2	1984.5	1990.0	2030.1	2031.1	1958.9	1917.8
42.5°	3002.3	2989.8	2840.8	2422.9	2067.2	2042.2	2052.2	2119.9	2195.7	2150.5	2148.5
45°	3587.7	3581.2	3423.2	2937.6	2384.8	2231.3	2243.8	2334.6	2479.6	2489.6	2553.3
47.5°	4058.8	4055.7	3964.9	3512.0	2870.9	2551.8	2555.8	2652.2	2907.0	3032.9	3134.7
50°	4488.2	4502.7	4431.0	4133.5	3533.0	3054.0	3044.4	3108.6	3518.0	3724.2	3850.6
52.5°	5085.1	5105.7	4904.5	4713.4	4227.8	3677.0	3669.5	3736.7	4252.4	4406.9	4429.5
55°	5612.3	5577.2	5418.2	5363.0	5075.1	4446.5	4444.5	4503.7	4962.7	5028.4	5070.1
57.5°	5845.1	5831.5	5908.3	6034.7	5962.5	5356.0	5351.5	5306.3	5598.3	5605.3	5733.2
60°	5992.1	6008.6	6243.9	6633.7	6813.7	6334.7	6305.6	6030.2	6205.3	6189.7	6326.7
62.5°	5881.7	5914.3	6337.7	6987.3	7450.8	7189.0	7147.8	6693.4	6724.0	6670.3	6797.7
65°	5295.8	5346.5	6040.2	6920.6	7766.9	7856.6	7815.0	7278.8	7135.8	7047.5	6976.8
67.5°	4300.0	4330.1	5054.5	6340.2	7624.4	8255.0	8246.4	7791.9	7446.8	6983.8	6435.0
69°	3553.6	3583.2	4280.5	5729.2	7310.9	8340.2	8356.8	7956.5	7387.6	6596.5	5701.6
70°	3009.8	3041.4	3691.1	5205.5	6947.2	8300.6	8330.2	7940.9	7218.1	6148.1	5058.0
72.5°	1578.7	1605.7	2272.4	3586.2	5663.5	7621.9	7711.7	7269.7	6118.5	4465.1	2990.8
75°	496.1	511.7	887.4	1874.6	3877.7	5926.3	5946.9	5702.6	4344.7	2456.0	1245.6
77.5°	189.1	184.6	295.5	690.8	1960.4	3731.7	3857.6	3563.6	2279.9	868.3	287.4
80°	101.8	102.3	153.5	285.9	838.7	1917.8	2024.1	1727.1	810.1	270.9	66.2
82.5°	44.1	46.2	86.3	151.5	385.3	707.3	760.5	633.1	309.5	182.1	24.6
85°	9.5	10.5	41.6	82.3	157.0	198.6	208.2	205.2	197.1	141.5	9.5
87.5°	0.0	0.0	18.6	29.6	39.6	45.1	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°	1072.0	1072.0	1072.0	1072.0	1072.0	1072.0	1072.0	1072.0	1072.0	1072.0	1072.0
2.5°	1073.0	1064.0	1048.4	1031.4	1019.3	1006.8	996.8	992.2	987.2	983.7	988.2
5°	1071.0	1053.4	1023.3	994.2	973.2	956.1	942.1	936.6	931.0	927.0	926.5
7.5°	1088.6	1064.0	1017.8	975.2	942.6	919.5	900.4	892.4	885.9	882.9	880.4
10°	1122.2	1090.6	1028.9	973.2	931.0	891.9	850.8	819.2	798.6	789.1	785.6
12.5°	1165.8	1126.2	1049.9	983.7	922.5	847.3	760.0	684.7	636.1	620.0	610.5
15°	1217.0	1167.8	1077.5	997.3	891.4	754.0	606.0	507.7	462.5	453.5	443.4
17.5°	1266.1	1212.0	1110.6	999.8	823.2	602.5	443.9	377.2	359.7	365.7	367.2
20°	1309.3	1255.6	1143.2	977.7	699.3	452.0	343.6	327.1	333.6	345.1	347.1
22.5°	1352.9	1297.7	1173.3	919.5	540.8	343.1	309.5	313.5	320.0	331.6	333.6
25°	1406.1	1348.9	1201.4	812.7	405.8	292.0	294.0	300.0	306.5	317.0	318.0
27.5°	1467.3	1413.6	1220.0	673.7	301.0	268.4	274.9	283.9	290.4	300.5	302.5
30°	1548.6	1498.9	1226.0	529.7	252.3	247.3	250.3	261.4	270.9	279.9	281.4
32.5°	1624.8	1583.2	1205.9	399.8	233.8	227.7	227.7	234.3	245.3	253.8	255.8
35°	1695.0	1667.9	1141.7	292.5	219.7	209.7	204.7	204.7	211.7	218.7	220.7
37.5°	1787.8	1786.8	1037.9	233.3	206.2	194.6	184.1	176.1	173.6	175.1	176.1
40°	1946.9	1948.4	902.4	209.2	194.6	179.1	163.0	148.5	134.9	130.4	129.9
42.5°	2195.2	2172.6	760.5	197.6	184.6	163.0	139.0	119.4	98.3	91.8	91.3
45°	2589.5	2455.5	610.0	187.1	174.1	145.0	114.9	88.3	71.2	66.2	66.2
47.5°	3163.8	2827.2	472.5	175.6	160.0	124.4	86.8	63.7	52.2	49.7	50.2
50°	3757.8	3191.4	362.2	161.0	143.0	102.8	64.2	46.2	39.6	39.6	40.1
52.5°	4284.5	3458.3	282.4	145.5	121.9	80.8	48.7	36.1	33.1	32.6	33.1
55°	4777.6	3630.4	216.2	127.4	96.8	60.2	37.1	29.6	27.6	26.6	26.1
57.5°	5253.2	3715.6	162.0	102.8	70.2	43.6	29.6	25.1	23.1	21.6	21.1
60°	5569.7	3646.4	111.4	75.7	48.7	31.6	24.6	21.6	19.1	17.6	17.1
62.5°	5748.3	3457.3	71.7	54.7	34.6	23.6	19.6	18.1	14.5	13.0	13.0
65°	5676.0	3145.3	50.2	39.1	25.1	17.6	14.5	14.5	10.5	8.5	8.0
67.5°	5029.9	2657.2	38.1	29.1	18.1	13.0	11.0	12.5	6.5	4.0	4.0
69°	4327.6	2202.2	32.6	24.1	15.0	10.5	9.5	11.5	4.5	3.0	2.5
70°	3761.3	1899.7	29.6	21.1	12.5	9.0	8.5	11.0	4.5	2.5	2.0
72.5°	2250.3	1059.5	22.6	15.0	8.0	7.0	7.0	12.5	4.5	2.5	2.0
75°	909.5	373.2	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)