

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: P1209084

Luminaire Tested: UPW-SA2-090-740-U-T3R-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209084
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-090-740-U-T3R-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTI
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9172 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

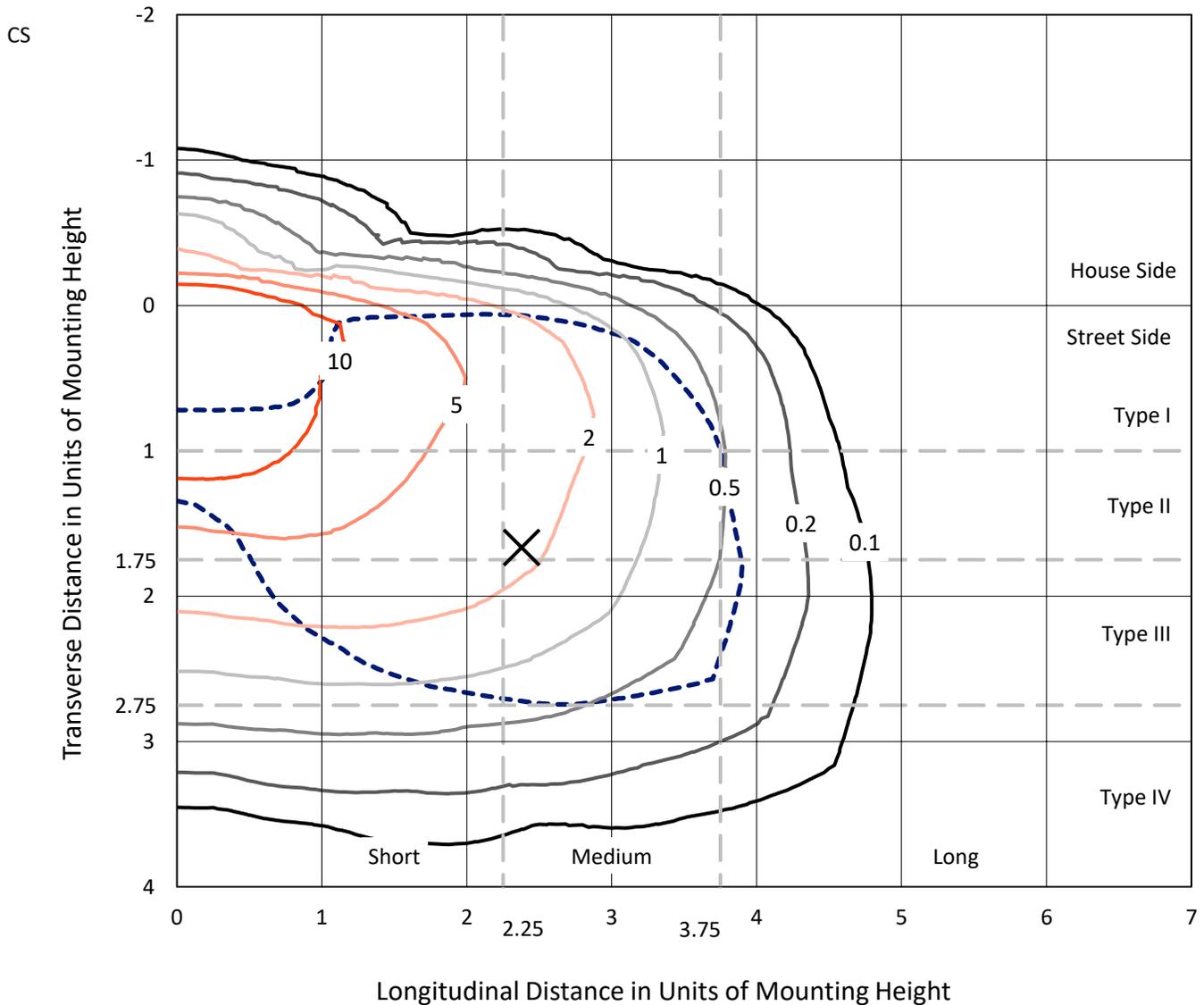
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

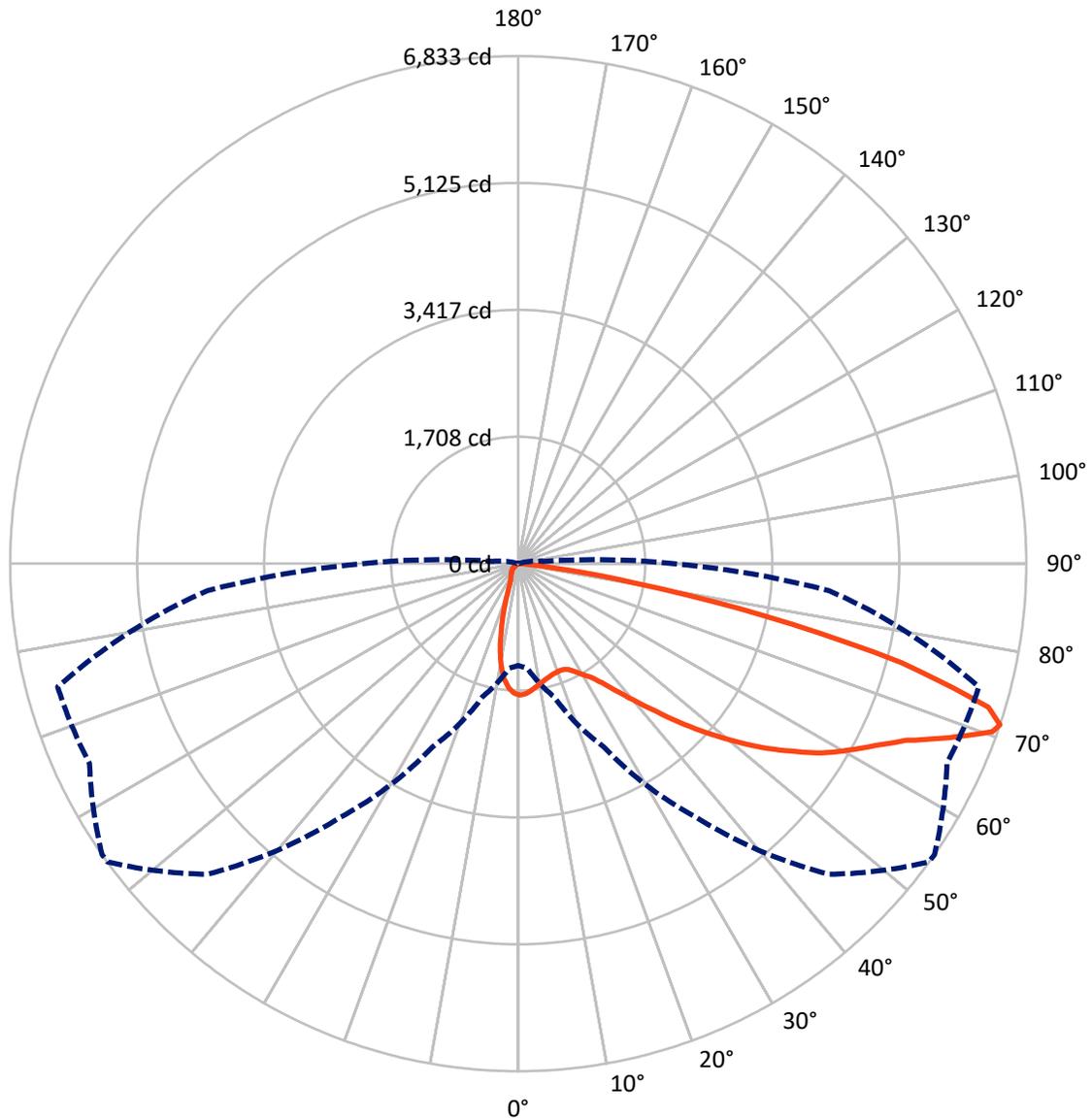
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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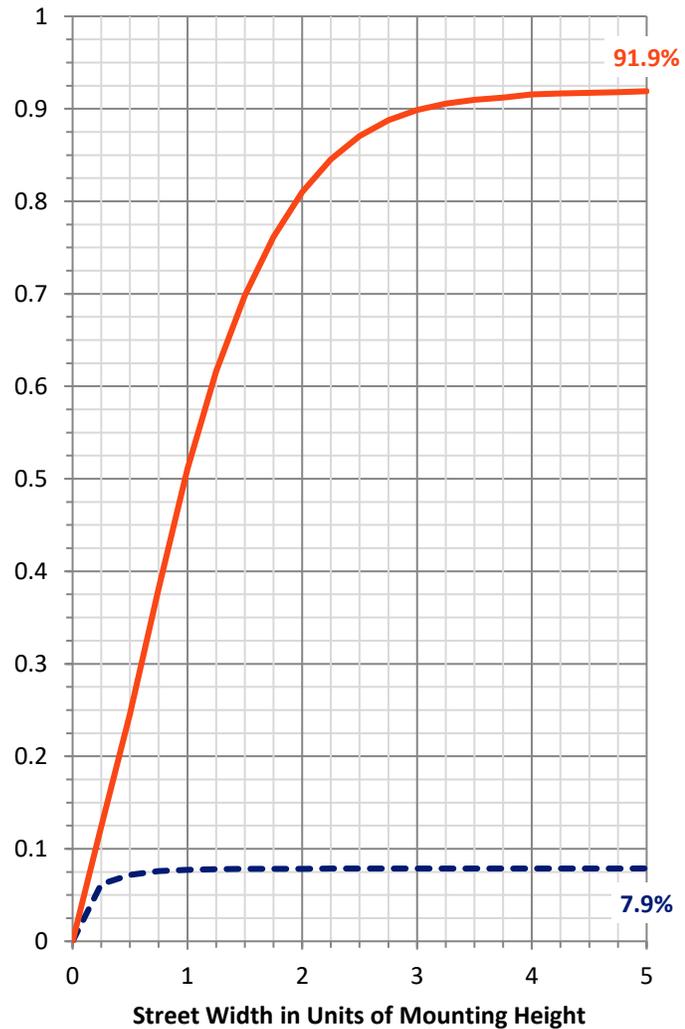
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	726.2	0.0	726.2
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	8445.8	0.0	8445.8
	% Fixture	92.1	0.0	92.1
Total	Lumens	9172.0	0.0	9172.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.8	1.6
10°-20°	340.5	3.7
20°-30°	547.2	6.0
30°-40°	929.7	10.1
40°-50°	1443.0	15.7
50°-60°	1940.0	21.2
60°-70°	2373.3	25.9
70°-80°	1387.6	15.1
80°-90°	60.0	0.7
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°	9172.0	100.0
0°-180°	9172.0	100.0



--- HS — SS

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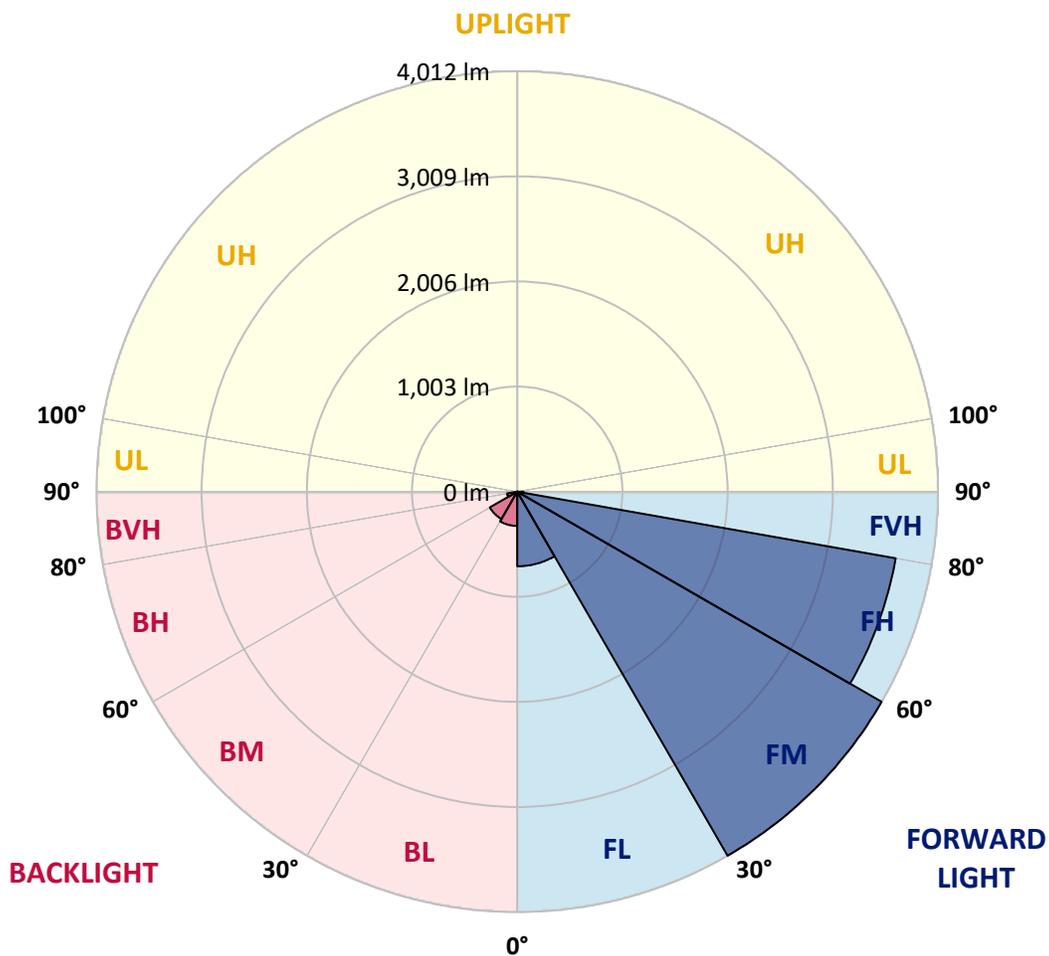
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	711.6	7.8			
FM	(30°-60°)	4011.6	43.7			
FH	(60°-80°)	3663.6	39.9			G2/5000
FVH	(80°-90°)	59.0	0.6			G1/100
BL	(0°-30°)	326.9	3.6	B1/500		
BM	(30°-60°)	301.1	3.3	B1/1000		
BH	(60°-80°)	97.3	1.1	B0/110		G0/110
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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1768.9	1768.9	1768.9	1768.9	1768.9	1768.9	1768.9	1768.9	1768.9	1768.9	1768.9
2.5°	1717.0	1719.0	1726.4	1729.7	1737.6	1750.7	1757.3	1757.7	1768.4	1772.6	1775.9
5°	1595.5	1607.8	1620.2	1633.4	1657.2	1689.0	1720.3	1723.1	1757.7	1783.3	1796.9
7.5°	1490.9	1502.0	1516.8	1537.8	1571.6	1621.4	1673.7	1679.9	1745.4	1803.4	1833.9
10°	1383.4	1392.4	1413.8	1444.7	1491.3	1558.0	1628.4	1638.7	1734.3	1830.6	1884.2
12.5°	1268.5	1273.8	1299.8	1344.2	1412.6	1497.5	1590.1	1603.7	1727.3	1861.9	1943.5
15°	1181.2	1183.6	1208.3	1254.5	1332.7	1443.1	1560.5	1576.9	1728.9	1899.4	2008.1
17.5°	1158.9	1160.2	1173.3	1205.0	1274.2	1394.5	1537.0	1557.2	1733.8	1936.1	2073.2
20°	1249.1	1240.5	1226.9	1221.9	1251.6	1365.2	1523.0	1545.6	1740.4	1968.6	2131.7
22.5°	1496.6	1471.1	1414.7	1339.3	1293.6	1367.3	1526.7	1549.3	1761.4	2008.5	2199.2
25°	1864.0	1828.6	1732.6	1584.3	1441.9	1426.6	1557.6	1580.6	1802.2	2056.3	2263.9
27.5°	2282.0	2247.0	2129.6	1917.9	1675.0	1544.0	1628.4	1649.8	1862.8	2098.7	2313.3
30°	2682.3	2672.4	2534.1	2293.5	1968.2	1734.3	1719.8	1738.0	1907.6	2124.3	2352.4
32.5°	3021.7	3006.0	2894.8	2660.9	2303.8	1962.8	1827.3	1832.7	1941.4	2157.2	2403.5
35°	3336.3	3317.0	3219.4	2998.2	2648.1	2242.1	1992.9	1985.1	2015.1	2223.5	2477.6
37.5°	3611.0	3628.7	3520.4	3310.0	2957.0	2532.4	2216.1	2192.6	2130.4	2331.4	2585.1
40°	3840.8	3840.8	3784.4	3609.0	3290.6	2832.6	2468.6	2437.7	2303.8	2497.8	2721.4
42.5°	3923.6	3941.3	3962.3	3863.1	3589.2	3144.8	2749.9	2717.7	2548.1	2733.8	2893.6
45°	3928.5	3956.5	4064.0	4063.6	3858.9	3454.9	3067.0	3051.7	2861.1	3036.9	3106.9
47.5°	3858.9	3893.9	4071.0	4171.5	4072.7	3743.6	3413.7	3394.8	3228.8	3408.4	3330.1
50°	3751.5	3790.2	3996.1	4213.9	4218.1	3994.8	3779.0	3750.6	3633.7	3833.0	3560.8
52.5°	3559.1	3634.1	3929.0	4223.8	4313.6	4211.9	4126.6	4114.3	4086.7	4242.0	3744.4
55°	3147.7	3230.9	3760.5	4227.1	4402.2	4404.2	4452.4	4455.7	4511.3	4624.1	3881.2
57.5°	2953.3	3000.3	3466.5	4242.8	4533.5	4622.5	4784.3	4809.9	4896.0	4987.0	4037.3
60°	2831.0	2886.6	3321.5	4221.4	4739.9	4908.7	5092.0	5100.6	5192.9	5361.3	4248.5
62.5°	2733.4	2788.2	3230.1	4139.0	4971.7	5253.0	5392.6	5393.5	5462.6	5807.4	4488.6
65°	2492.5	2538.6	3045.1	4046.3	5124.9	5593.6	5741.9	5736.5	5792.9	6277.7	4767.5
67.5°	2144.0	2179.5	2667.5	3695.0	5067.3	5903.3	6269.0	6251.3	6183.0	6684.2	4877.0
70°	1657.7	1670.4	2102.4	3079.3	4526.9	6022.3	6778.5	6769.4	6422.2	6611.3	4475.5
71°	1370.2	1412.2	1852.9	2717.7	4164.9	5912.4	6827.9	6833.3	6362.1	6412.8	4199.1
72.5°	795.7	831.5	1343.0	2087.2	3536.1	5453.6	6571.7	6610.4	6081.2	5832.9	3586.7
75°	170.5	182.4	497.9	1010.2	1945.1	3822.3	5187.1	5325.1	4956.5	3968.1	2161.7
77.5°	118.6	128.1	213.3	458.4	642.9	1888.7	3222.2	3377.9	2961.1	1491.3	691.9
80°	93.9	104.6	166.4	226.5	173.8	609.1	1509.4	1604.5	987.6	332.8	116.6
82.5°	52.3	62.2	129.7	122.3	66.7	115.7	422.5	477.7	197.7	67.1	27.6
85°	15.2	18.5	83.6	89.0	28.4	22.2	72.1	89.4	37.5	17.7	12.4
87.5°	0.0	0.0	40.4	34.2	8.2	3.3	6.6	7.4	7.4	7.4	8.2
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°	1768.9	1768.9	1768.9	1768.9	1768.9	1768.9	1768.9	1768.9	1768.9	1768.9	1768.9
2.5°	1775.9	1778.7	1768.4	1754.9	1740.4	1722.7	1704.2	1689.8	1689.4	1682.4	1675.4
5°	1797.7	1796.0	1767.6	1724.4	1673.3	1620.2	1569.5	1512.3	1493.3	1469.9	1462.0
7.5°	1838.0	1826.5	1766.4	1671.7	1559.6	1448.4	1333.5	1217.8	1168.4	1123.9	1116.1
10°	1888.7	1866.9	1758.6	1592.6	1387.1	1182.0	1008.6	851.3	782.1	729.0	726.5
12.5°	1941.4	1908.1	1736.7	1473.2	1161.0	872.7	672.9	518.1	460.4	423.4	426.7
15°	1996.6	1946.8	1689.8	1312.1	903.6	592.2	413.5	322.5	299.4	289.9	292.4
17.5°	2053.0	1973.5	1624.3	1118.1	649.5	382.2	286.2	260.7	260.7	262.8	263.6
20°	2102.0	1988.0	1527.9	900.7	440.3	278.4	250.4	246.7	248.8	252.0	252.5
22.5°	2150.6	1988.8	1402.3	680.4	308.1	243.8	238.5	236.8	238.0	241.8	242.2
25°	2190.2	1978.9	1245.0	483.9	245.9	229.8	227.3	226.5	227.3	231.9	231.9
27.5°	2206.2	1943.1	1053.1	340.2	220.3	214.2	213.3	214.2	215.4	218.7	219.1
30°	2207.9	1880.5	843.9	246.3	199.7	193.2	194.8	197.7	196.4	195.6	196.4
32.5°	2212.0	1808.0	640.0	202.6	182.4	172.1	170.1	170.1	165.1	162.3	160.6
35°	2225.6	1722.7	464.1	182.0	164.7	152.8	145.0	135.9	126.4	121.5	120.3
37.5°	2247.0	1633.4	332.4	168.4	149.1	135.5	120.7	104.6	91.0	87.3	87.3
40°	2286.1	1541.1	245.9	157.7	136.7	119.8	97.6	76.6	64.2	62.2	62.2
42.5°	2347.9	1443.9	196.0	148.3	126.0	103.8	74.5	55.6	46.5	45.3	44.9
45°	2412.1	1336.8	171.3	139.2	114.5	85.3	55.2	41.2	35.8	34.6	34.6
47.5°	2476.4	1222.8	159.4	130.6	103.4	66.3	41.2	32.5	30.1	30.1	30.5
50°	2530.8	1103.7	150.7	121.1	89.0	50.2	32.5	27.6	26.8	28.4	28.8
52.5°	2544.3	986.8	140.0	109.1	71.2	38.3	26.8	24.3	24.3	24.3	24.3
55°	2536.1	896.2	126.0	94.3	52.7	30.5	23.1	21.4	21.0	21.0	21.0
57.5°	2564.1	842.6	100.9	73.3	37.9	24.7	20.2	18.9	18.1	17.7	17.7
60°	2620.5	807.6	72.1	52.7	28.4	20.6	17.3	16.1	14.8	14.0	14.0
62.5°	2695.5	777.1	53.5	39.1	21.8	16.5	14.4	13.2	11.5	10.7	10.7
65°	2753.2	722.8	40.8	29.2	16.5	13.2	11.1	10.7	8.2	7.4	7.0
67.5°	2665.0	603.3	32.9	21.4	12.4	10.3	8.6	8.2	4.9	4.1	4.1
70°	2285.7	420.1	26.4	15.6	9.1	8.2	7.0	5.4	3.7	3.3	3.3
71°	2072.8	350.9	23.9	13.2	7.8	7.8	6.6	4.5	3.3	2.9	2.9
72.5°	1721.9	249.2	20.2	10.3	7.0	8.2	7.0	4.1	3.3	2.9	2.5
75°	999.5	104.2	14.0	7.0	5.4	9.9	9.1	3.7	2.5	2.1	2.1
77.5°	300.6	38.3	7.8	4.5	4.1	8.6	10.3	3.3	1.2	0.4	0.4
80°	54.8	16.5	4.9	2.9	2.9	5.4	7.8	1.6	0.0	0.0	0.0
82.5°	19.4	8.2	2.9	1.6	1.2	2.5	3.7	0.0	0.0	0.0	0.0
85°	11.1	5.8	1.6	0.8	0.0	0.4	0.8	0.0	0.0	0.0	0.0
87.5°	7.4	1.6	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)