

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: P1209273

Luminaire Tested: UPW-SA2-110-730-U-T3R-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209273
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/20/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-110-730-U-T3R-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10340 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

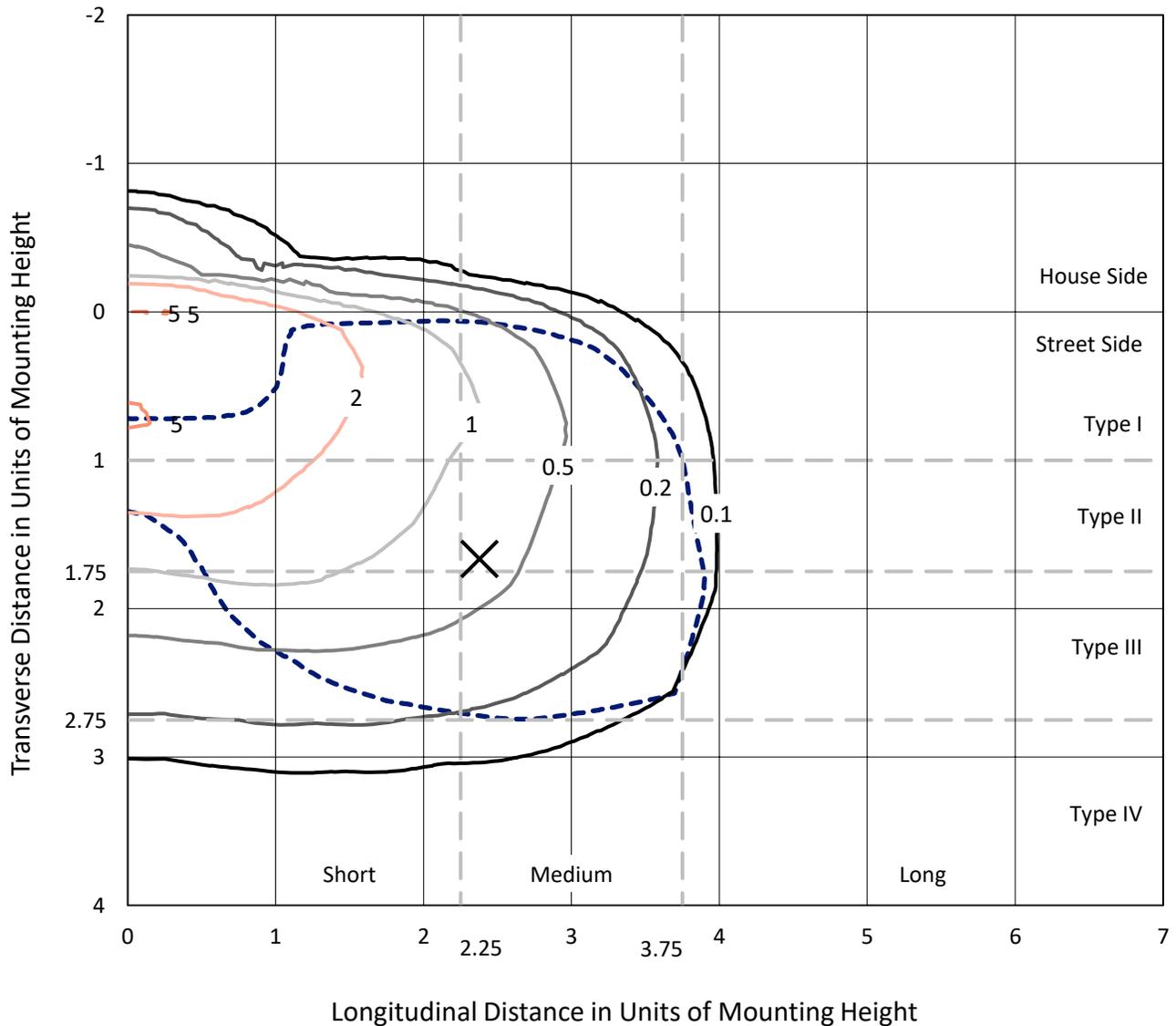
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P1209273
 CATALOG NUMBER: UPW-SA2-110-730-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

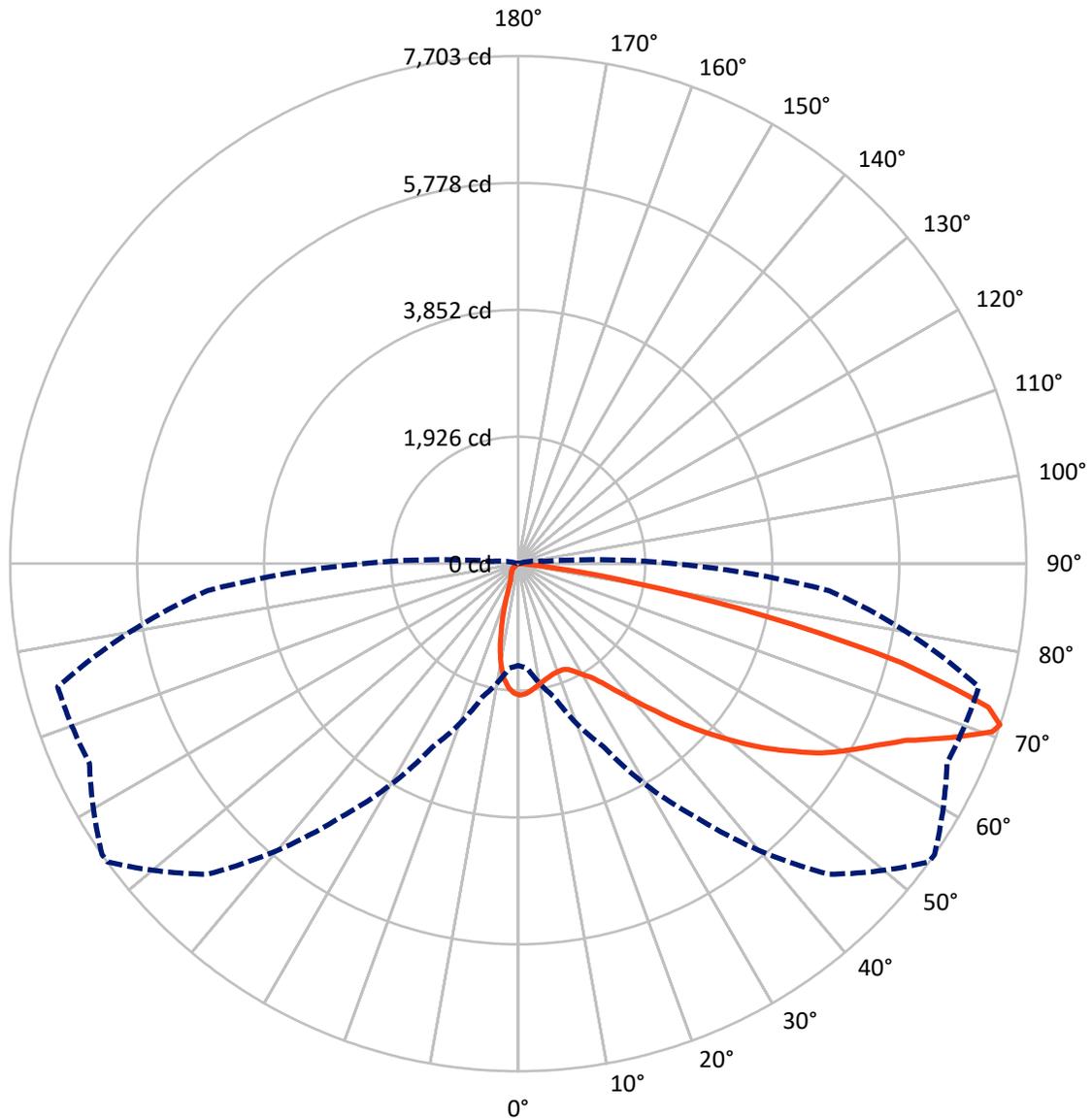
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Medium - N/A

REPORT NUMBER: P1209273
CATALOG NUMBER: UPW-SA2-110-730-U-T3R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P1209273

CATALOG NUMBER: UPW-SA2-110-730-U-T3R-HSS

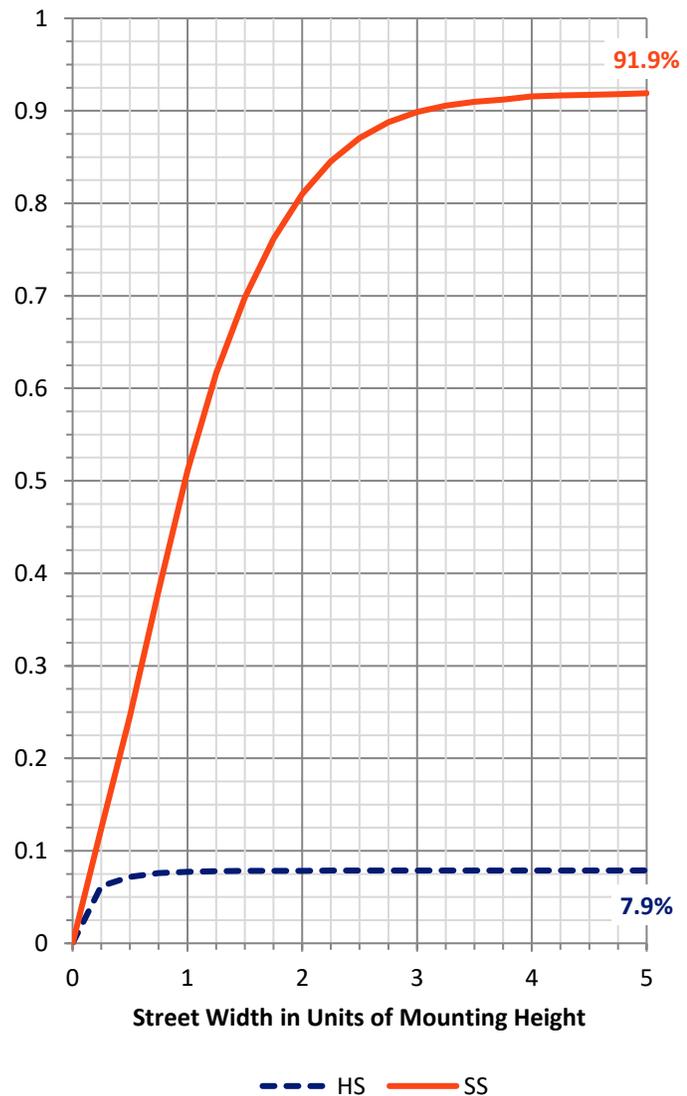
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	818.6	0.0	818.6
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	9521.4	0.0	9521.4
	% Fixture	92.1	0.0	92.1
Total	Lumens	10340.0	0.0	10340.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.0	1.6
10°-20°	383.8	3.7
20°-30°	616.8	6.0
30°-40°	1048.1	10.1
40°-50°	1626.7	15.7
50°-60°	2187.1	21.2
60°-70°	2675.5	25.9
70°-80°	1564.3	15.1
80°-90°	67.6	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°	10340.0	100.0
0°-180°	10340.0	100.0



REPORT NUMBER: P1209273

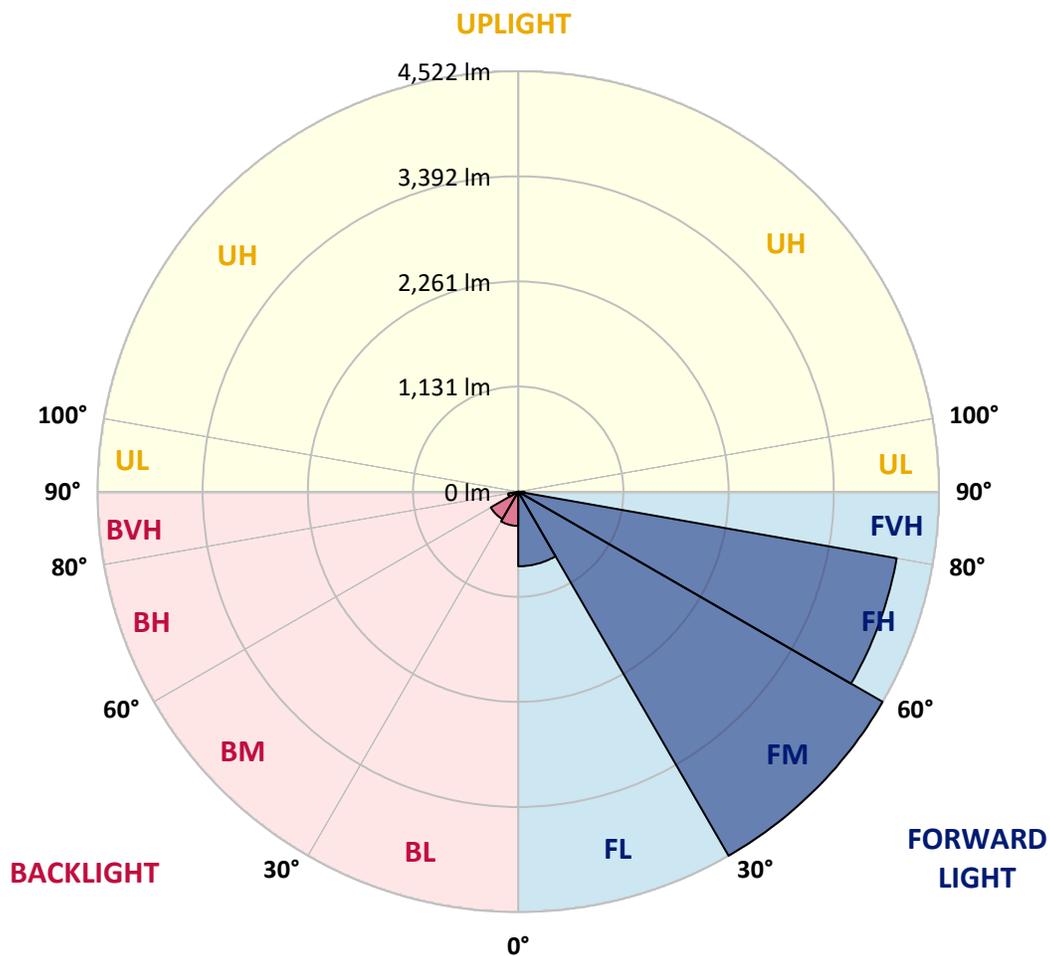
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	802.2	7.8			
FM	(30°-60°)	4522.4	43.7			
FH	(60°-80°)	4130.1	39.9			G2/5000
FVH	(80°-90°)	66.6	0.6			G1/100
BL	(0°-30°)	368.5	3.6	B1/500		
BM	(30°-60°)	339.4	3.3	B1/1000		
BH	(60°-80°)	109.7	1.1	B0/110		G0/110
BVH	(80°-90°)	1.1	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





REPORT NUMBER: P1209273

CATALOG NUMBER: UPW-SA2-110-730-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1994.1	1994.1	1994.1	1994.1	1994.1	1994.1	1994.1	1994.1	1994.1	1994.1	1994.1
2.5°	1935.6	1937.9	1946.3	1950.0	1958.8	1973.7	1981.1	1981.6	1993.6	1998.3	2002.0
5°	1798.6	1812.6	1826.5	1841.4	1868.3	1904.0	1939.3	1942.6	1981.6	2010.4	2025.7
7.5°	1680.7	1693.2	1710.0	1733.6	1771.7	1827.9	1886.9	1893.8	1967.6	2033.1	2067.5
10°	1559.5	1569.7	1593.9	1628.7	1681.2	1756.4	1835.8	1847.4	1955.1	2063.7	2124.1
12.5°	1430.0	1436.0	1465.3	1515.4	1592.5	1688.1	1792.6	1807.9	1947.2	2099.0	2191.0
15°	1331.6	1334.4	1362.2	1414.2	1502.4	1626.9	1759.2	1777.7	1949.1	2141.3	2263.9
17.5°	1306.5	1307.9	1322.7	1358.5	1436.5	1572.1	1732.7	1755.5	1954.6	2182.6	2337.2
20°	1408.2	1398.4	1383.1	1377.5	1411.0	1539.1	1716.9	1742.5	1962.1	2219.3	2403.1
22.5°	1687.2	1658.4	1594.8	1509.9	1458.3	1541.4	1721.1	1746.6	1985.7	2264.3	2479.3
25°	2101.4	2061.4	1953.2	1786.1	1625.5	1608.3	1755.9	1781.9	2031.7	2318.2	2552.2
27.5°	2572.6	2533.1	2400.8	2162.2	1888.2	1740.6	1835.8	1859.9	2100.0	2366.0	2607.9
30°	3023.9	3012.7	2856.7	2585.6	2218.8	1955.1	1938.9	1959.3	2150.6	2394.8	2652.0
32.5°	3406.5	3388.8	3263.5	2999.7	2597.2	2212.8	2060.0	2066.1	2188.6	2431.9	2709.6
35°	3761.2	3739.4	3629.3	3380.0	2985.4	2527.6	2246.7	2237.9	2271.7	2506.7	2793.1
37.5°	4070.9	4090.8	3968.7	3731.5	3333.6	2854.9	2498.3	2471.9	2401.7	2628.3	2914.3
40°	4329.9	4329.9	4266.3	4068.5	3709.6	3193.4	2782.9	2748.1	2597.2	2815.9	3068.0
42.5°	4423.2	4443.2	4466.9	4355.0	4046.2	3545.3	3100.0	3063.8	2872.5	3081.9	3262.1
45°	4428.8	4460.4	4581.6	4581.1	4350.4	3894.9	3457.5	3440.4	3225.4	3423.6	3502.6
47.5°	4350.4	4389.8	4589.5	4702.7	4591.3	4220.4	3848.5	3827.1	3640.0	3842.4	3754.2
50°	4229.2	4272.8	4505.0	4750.6	4755.2	4503.6	4260.3	4228.2	4096.4	4321.1	4014.2
52.5°	4012.4	4096.9	4429.3	4761.7	4862.9	4748.2	4652.1	4638.2	4607.1	4782.1	4221.3
55°	3548.5	3642.3	4239.4	4765.4	4962.7	4965.1	5019.4	5023.1	5085.8	5213.0	4375.4
57.5°	3329.4	3382.3	3907.9	4783.1	5110.9	5211.1	5393.6	5422.4	5519.4	5622.0	4551.4
60°	3191.5	3254.2	3744.5	4758.9	5343.5	5533.8	5740.4	5750.2	5854.2	6044.1	4789.6
62.5°	3081.5	3143.2	3641.4	4666.1	5604.9	5922.0	6079.4	6080.3	6158.3	6546.9	5060.2
65°	2809.9	2861.9	3432.9	4561.6	5777.6	6305.9	6473.1	6467.0	6530.6	7077.1	5374.6
67.5°	2417.1	2457.0	3007.2	4165.6	5712.6	6655.1	7067.4	7047.4	6970.3	7535.4	5498.1
70°	1868.7	1883.1	2370.2	3471.5	5103.4	6789.2	7641.7	7631.5	7240.1	7453.2	5045.4
71°	1544.7	1592.0	2088.8	3063.8	4695.3	6665.3	7697.4	7703.4	7172.3	7229.4	4733.9
72.5°	897.0	937.4	1514.0	2353.0	3986.4	6148.1	7408.6	7452.2	6855.6	6575.7	4043.5
75°	192.2	205.7	561.3	1138.9	2192.8	4309.0	5847.7	6003.2	5587.7	4473.4	2437.0
77.5°	133.7	144.4	240.5	516.7	724.7	2129.2	3632.6	3808.1	3338.2	1681.2	780.0
80°	105.9	117.9	187.6	255.4	195.9	686.7	1701.6	1808.9	1113.4	375.1	131.4
82.5°	59.0	70.1	146.2	137.9	75.2	130.5	476.4	538.6	222.9	75.7	31.1
85°	17.2	20.9	94.2	100.3	32.0	25.1	81.2	100.7	42.2	20.0	13.9
87.5°	0.0	0.0	45.5	38.5	9.3	3.7	7.4	8.4	8.4	8.4	9.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1209273

CATALOG NUMBER: UPW-SA2-110-730-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1994.1	1994.1	1994.1	1994.1	1994.1	1994.1	1994.1	1994.1	1994.1	1994.1	1994.1
2.5°	2002.0	2005.2	1993.6	1978.3	1962.1	1942.1	1921.2	1905.0	1904.5	1896.6	1888.7
5°	2026.6	2024.7	1992.7	1944.0	1886.4	1826.5	1769.4	1704.9	1683.5	1657.0	1648.2
7.5°	2072.1	2059.1	1991.3	1884.5	1758.2	1632.9	1503.4	1372.9	1317.2	1267.0	1258.2
10°	2129.2	2104.6	1982.5	1795.4	1563.7	1332.5	1137.0	959.7	881.7	821.8	819.0
12.5°	2188.6	2151.0	1957.9	1660.7	1308.8	983.8	758.6	584.1	519.1	477.3	481.0
15°	2250.9	2194.7	1905.0	1479.2	1018.6	667.6	466.1	363.5	337.5	326.9	329.6
17.5°	2314.5	2224.9	1831.1	1260.5	732.2	430.9	322.7	293.9	293.9	296.2	297.1
20°	2369.7	2241.1	1722.5	1015.4	496.3	313.9	282.3	278.1	280.4	284.1	284.6
22.5°	2424.5	2242.0	1580.9	767.0	347.3	274.9	268.8	267.0	268.4	272.5	273.0
25°	2469.1	2230.9	1403.5	545.5	277.2	259.1	256.3	255.4	256.3	261.4	261.4
27.5°	2487.2	2190.5	1187.2	383.5	248.4	241.4	240.5	241.4	242.8	246.5	247.0
30°	2489.0	2119.9	951.3	277.6	225.2	217.7	219.6	222.9	221.5	220.5	221.5
32.5°	2493.7	2038.2	721.5	228.4	205.7	194.1	191.7	191.7	186.2	182.9	181.1
35°	2509.0	1942.1	523.2	205.2	185.7	172.2	163.4	153.2	142.5	137.0	135.6
37.5°	2533.1	1841.4	374.7	189.9	168.1	152.7	136.0	117.9	102.6	98.4	98.4
40°	2577.2	1737.4	277.2	177.8	154.1	135.1	110.0	86.4	72.4	70.1	70.1
42.5°	2646.9	1627.8	221.0	167.1	142.1	117.0	84.0	62.7	52.5	51.1	50.6
45°	2719.3	1507.1	193.1	156.9	129.1	96.1	62.2	46.4	40.4	39.0	39.0
47.5°	2791.7	1378.5	179.7	147.2	116.5	74.7	46.4	36.7	33.9	33.9	34.4
50°	2853.0	1244.3	169.9	136.5	100.3	56.6	36.7	31.1	30.2	32.0	32.5
52.5°	2868.4	1112.4	157.9	123.0	80.3	43.2	30.2	27.4	27.4	27.4	27.4
55°	2859.1	1010.3	142.1	106.3	59.4	34.4	26.0	24.1	23.7	23.7	23.7
57.5°	2890.6	949.9	113.7	82.6	42.7	27.9	22.7	21.4	20.4	20.0	20.0
60°	2954.2	910.5	81.2	59.4	32.0	23.2	19.5	18.1	16.7	15.8	15.8
62.5°	3038.7	876.1	60.4	44.1	24.6	18.6	16.2	14.9	13.0	12.1	12.1
65°	3103.7	814.8	46.0	33.0	18.6	14.9	12.5	12.1	9.3	8.4	7.9
67.5°	3004.4	680.2	37.1	24.1	13.9	11.6	9.7	9.3	5.6	4.6	4.6
70°	2576.8	473.6	29.7	17.6	10.2	9.3	7.9	6.0	4.2	3.7	3.7
71°	2336.7	395.6	26.9	14.9	8.8	8.8	7.4	5.1	3.7	3.2	3.2
72.5°	1941.2	280.9	22.7	11.6	7.9	9.3	7.9	4.6	3.7	3.2	2.8
75°	1126.8	117.5	15.8	7.9	6.0	11.1	10.2	4.2	2.8	2.3	2.3
77.5°	338.9	43.2	8.8	5.1	4.6	9.7	11.6	3.7	1.4	0.5	0.5
80°	61.7	18.6	5.6	3.2	3.2	6.0	8.8	1.9	0.0	0.0	0.0
82.5°	21.8	9.3	3.2	1.9	1.4	2.8	4.2	0.0	0.0	0.0	0.0
85°	12.5	6.5	1.9	0.9	0.0	0.5	0.9	0.0	0.0	0.0	0.0
87.5°	8.4	1.9	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)