

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: P1208986

Luminaire Tested: UPW-SA2-090-727-U-SL2-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1208986
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2308-136-2)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/19/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-090-727-U-SL2-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7000 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

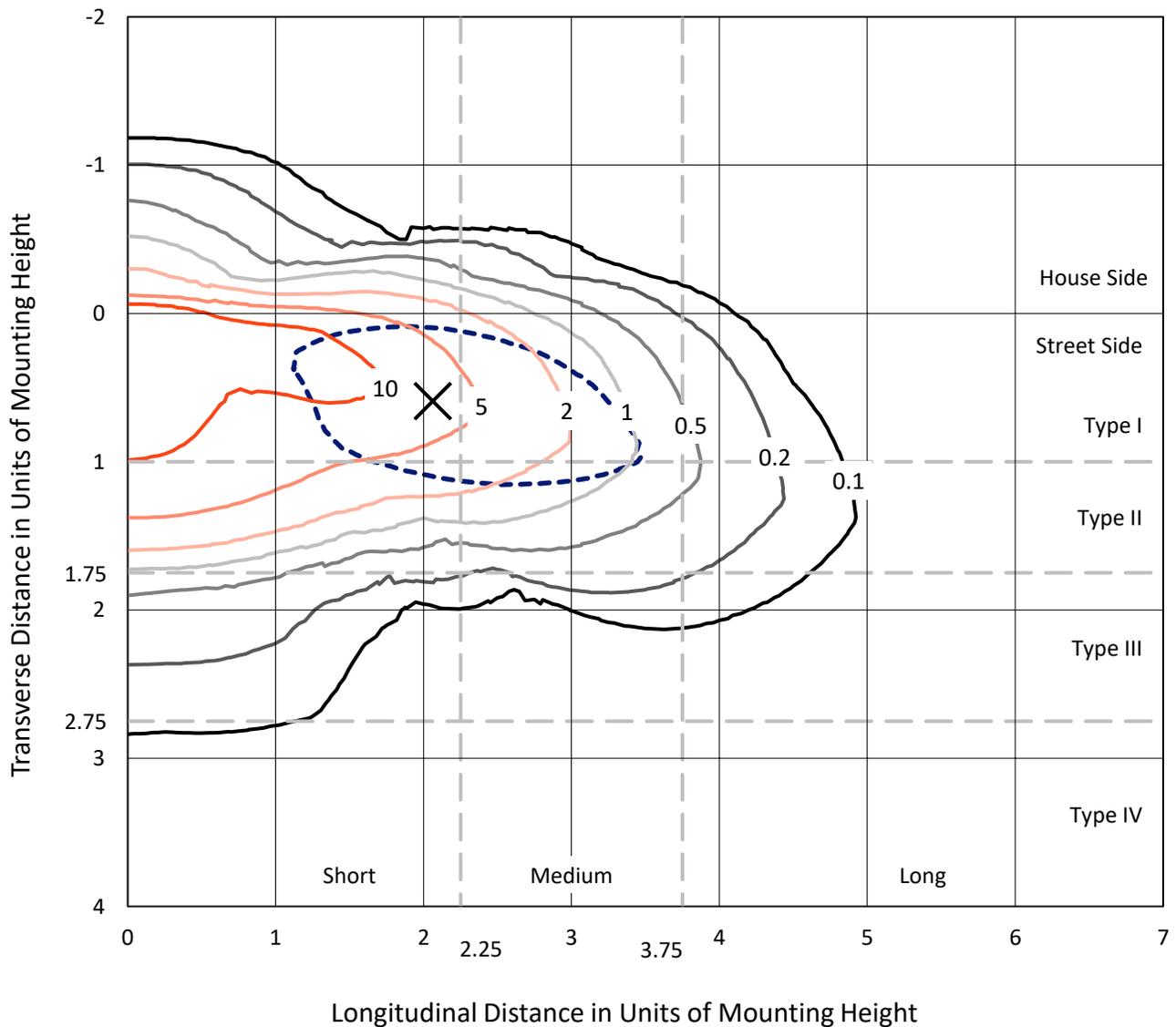
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P1208986
 CATALOG NUMBER: UPW-SA2-090-727-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

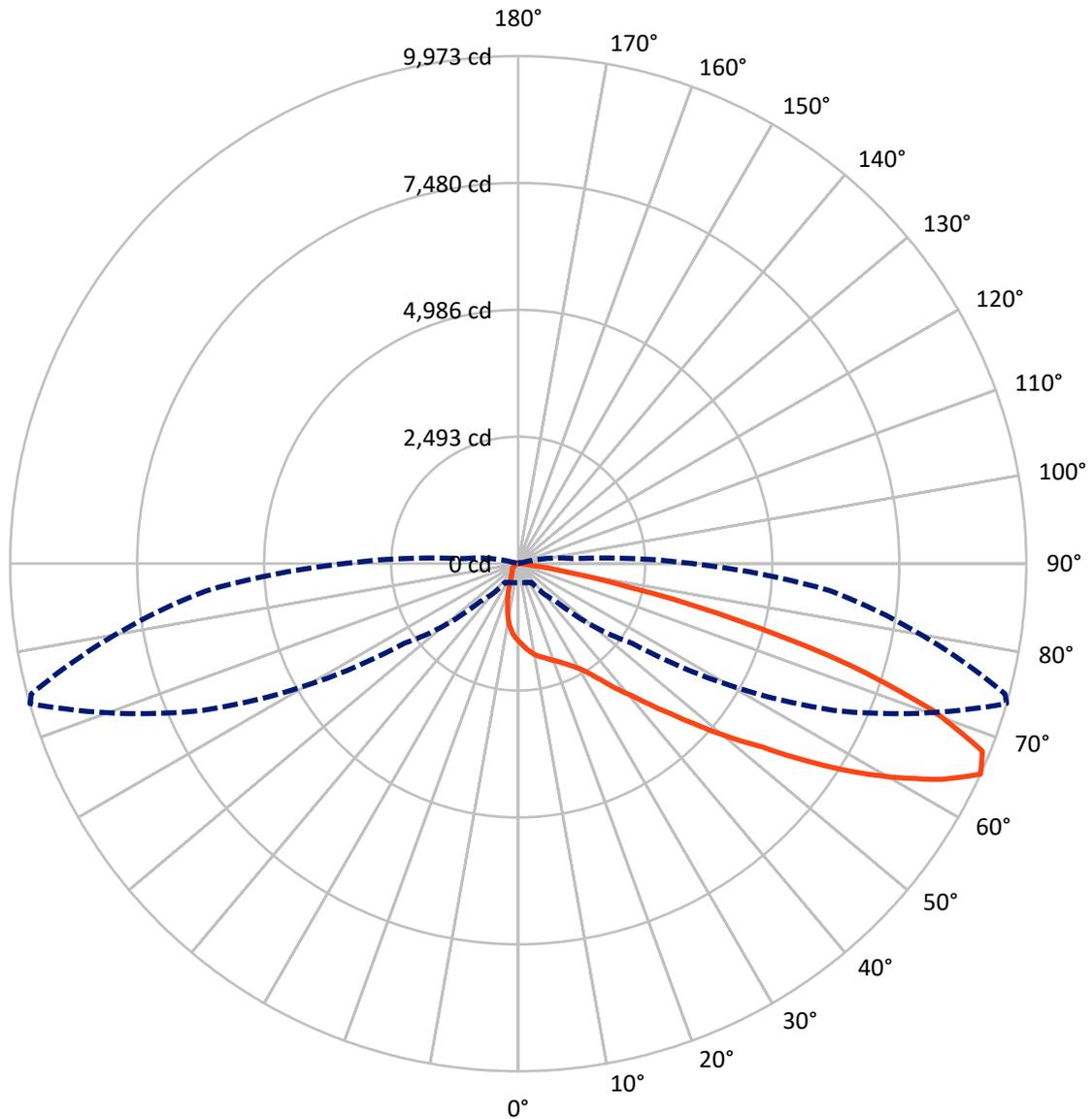
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.5 fc
 Type II - Short - N/A

REPORT NUMBER: P1208986
CATALOG NUMBER: UPW-SA2-090-727-U-SL2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P1208986

CATALOG NUMBER: UPW-SA2-090-727-U-SL2-HSS

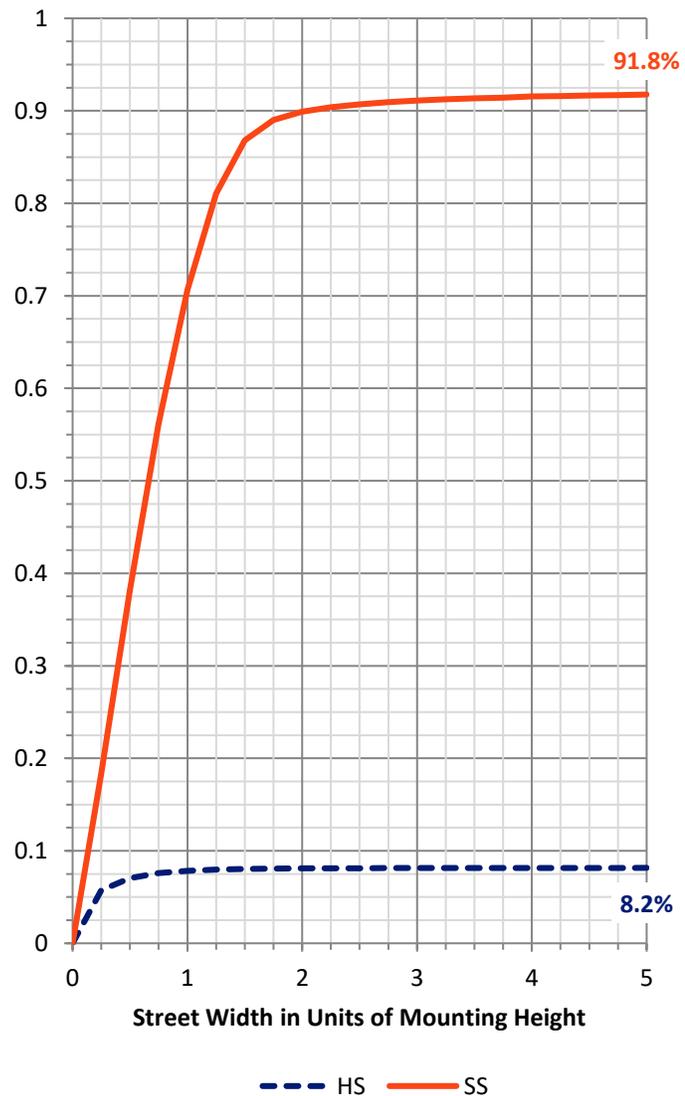
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	575.4	0.0	575.4
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	6424.6	0.0	6424.6
	% Fixture	91.8	0.0	91.8
Total	Lumens	7000.0	0.0	7000.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.2	1.9
10°-20°	319.0	4.6
20°-30°	497.4	7.1
30°-40°	785.1	11.2
40°-50°	1221.2	17.4
50°-60°	1765.2	25.2
60°-70°	1595.6	22.8
70°-80°	641.3	9.2
80°-90°	45.0	0.6
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°	7000.0	100.0
0°-180°	7000.0	100.0



REPORT NUMBER: P1208986

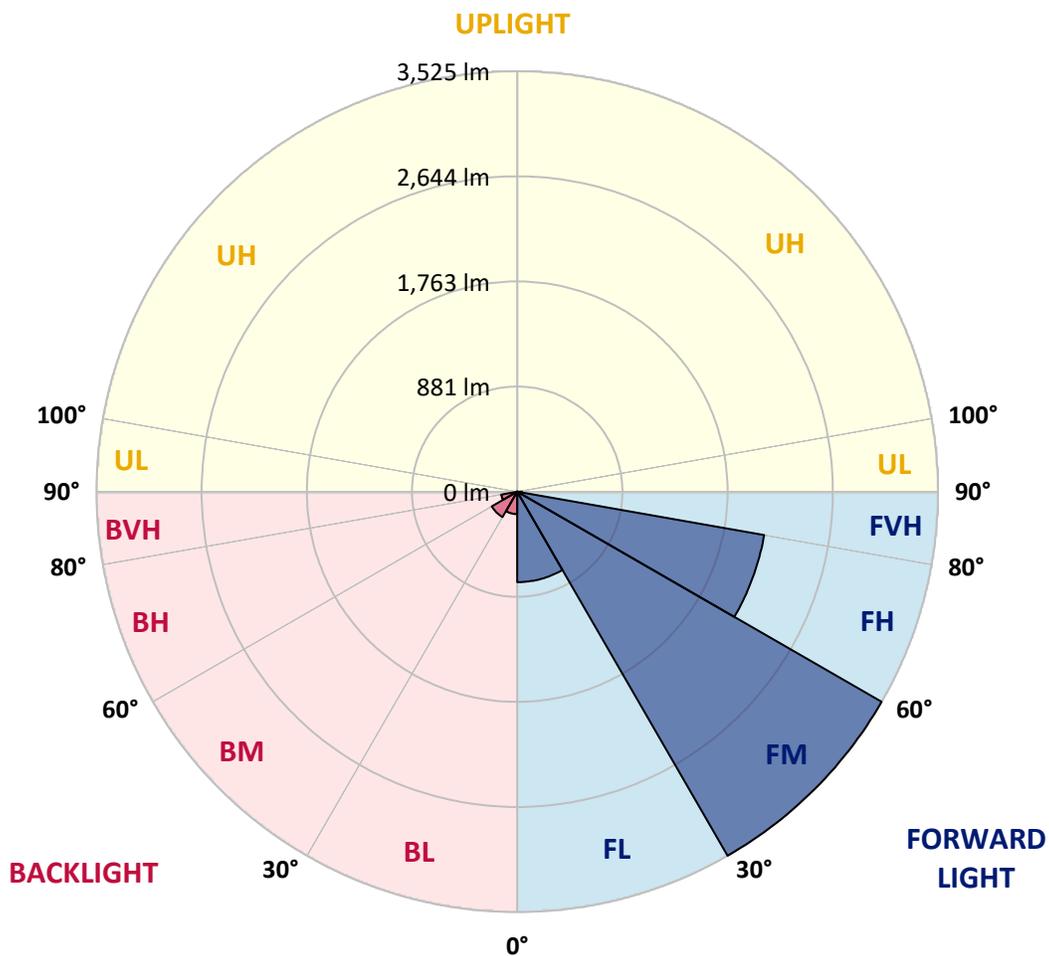
CATALOG NUMBER: UPW-SA2-090-727-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	758.4	10.8			
FM	(30°-60°)	3525.3	50.4			
FH	(60°-80°)	2100.9	30.0			G2/5000
FVH	(80°-90°)	40.0	0.6			G1/100
BL	(0°-30°)	188.2	2.7	B1/500		
BM	(30°-60°)	246.2	3.5	B1/1000		
BH	(60°-80°)	136.0	1.9	B1/500		G1/500
BVH	(80°-90°)	5.0	0.1			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 II Short





REPORT NUMBER: P1208986

CATALOG NUMBER: UPW-SA2-090-727-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1525.1	1525.1	1525.1	1525.1	1525.1	1525.1	1525.1	1525.1	1525.1	1525.1	1525.1
2.5°	1721.0	1714.6	1717.8	1703.9	1701.7	1687.8	1656.8	1625.7	1596.8	1589.4	1554.0
5°	1846.2	1843.0	1839.8	1837.7	1828.0	1817.3	1773.4	1731.7	1678.2	1668.6	1594.7
7.5°	1879.4	1876.2	1882.6	1893.3	1899.7	1894.4	1862.3	1821.6	1754.2	1743.5	1636.4
10°	1805.5	1802.3	1831.2	1873.0	1911.5	1939.3	1927.6	1891.2	1820.5	1809.8	1665.3
12.5°	1642.9	1638.6	1685.7	1771.3	1862.3	1941.5	1965.0	1940.4	1874.0	1862.3	1688.9
15°	1494.1	1487.7	1534.8	1621.5	1736.0	1889.0	1978.9	1986.4	1917.9	1910.4	1714.6
17.5°	1414.9	1416.0	1444.9	1516.6	1626.8	1793.8	1963.9	2029.2	1976.8	1967.2	1742.4
20°	1447.0	1449.1	1452.4	1480.2	1546.5	1710.3	1930.8	2075.3	2034.6	2023.9	1777.7
22.5°	1540.1	1545.5	1536.9	1521.9	1530.5	1649.3	1896.5	2125.6	2100.9	2090.2	1802.3
25°	1713.5	1707.1	1680.3	1620.4	1577.6	1631.1	1884.7	2183.4	2184.4	2171.6	1832.3
27.5°	1920.1	1902.9	1870.8	1775.6	1670.7	1661.1	1881.5	2245.4	2281.8	2263.6	1866.6
30°	2095.6	2087.0	2047.4	1959.7	1802.3	1730.6	1890.1	2305.4	2397.4	2387.8	1911.5
32.5°	2209.0	2206.9	2178.0	2119.1	1981.1	1843.0	1927.6	2386.7	2571.9	2539.7	1997.1
35°	2304.3	2294.7	2272.2	2233.7	2150.2	1996.1	2006.8	2517.3	2807.3	2797.7	2134.1
37.5°	2412.4	2400.6	2373.9	2325.7	2267.9	2176.9	2133.0	2686.4	3107.0	3102.7	2315.0
40°	2537.6	2530.1	2503.4	2439.1	2367.4	2312.9	2264.7	2860.8	3397.0	3367.1	2482.0
42.5°	2660.7	2662.8	2642.5	2576.1	2478.7	2404.9	2420.9	3038.5	3774.8	3759.9	2742.0
45°	2800.9	2793.4	2782.7	2734.5	2629.7	2477.7	2570.8	3284.7	4213.7	4251.1	3119.8
47.5°	2899.4	2897.2	2918.6	2882.2	2795.5	2594.3	2724.9	3589.7	4753.1	4788.4	3535.1
50°	2925.0	2921.8	2993.5	3023.5	3020.3	2820.2	2936.8	3976.1	5346.0	5340.6	3999.6
52.5°	2760.2	2767.7	2906.9	3066.3	3215.1	3168.0	3318.9	4508.0	5979.6	5997.8	4436.3
55°	2287.2	2334.3	2488.4	2857.6	3249.3	3522.3	3811.2	5240.0	6815.5	6767.3	4779.8
57.5°	1434.2	1409.5	1669.6	2204.8	2827.7	3549.0	4209.4	5975.3	7708.1	7647.1	5285.0
60°	731.0	698.9	850.9	1229.7	1962.9	2982.8	4217.9	6616.4	8531.1	8462.6	5795.5
62.5°	447.4	442.0	473.1	600.4	1016.8	2012.1	3655.0	7003.8	9336.0	9281.4	6141.2
65°	376.7	375.7	387.4	407.8	450.6	1044.6	2727.0	6814.4	9972.8	9893.6	6161.5
67.5°	333.9	333.9	358.5	368.2	299.7	449.5	1672.8	6026.7	9824.0	9809.0	5732.4
70°	287.9	283.6	317.9	346.8	249.4	231.2	861.6	4841.9	8630.7	8679.9	4882.6
72.5°	217.3	221.5	256.9	295.4	204.4	162.7	393.9	3388.5	6796.2	6819.8	3836.9
75°	163.8	168.0	199.1	241.9	164.8	123.1	217.3	2201.5	4451.3	4504.8	2241.1
77.5°	125.2	126.3	157.3	200.1	127.4	94.2	146.6	1223.3	2256.1	2208.0	871.2
80°	86.7	89.9	123.1	155.2	101.7	70.6	98.5	529.8	814.5	751.3	270.8
82.5°	32.1	41.7	86.7	112.4	71.7	50.3	72.8	213.0	238.7	223.7	99.5
85°	5.4	5.4	47.1	82.4	38.5	30.0	46.0	73.8	78.1	82.4	51.4
87.5°	0.0	0.0	5.4	18.2	6.4	4.3	12.8	18.2	37.5	41.7	27.8
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: P1208986

CATALOG NUMBER: UPW-SA2-090-727-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1525.1	1525.1	1525.1	1525.1	1525.1	1525.1	1525.1	1525.1	1525.1	1525.1	1525.1
2.5°	1530.5	1508.0	1463.1	1424.5	1364.6	1312.2	1279.0	1253.3	1234.0	1211.5	1189.1
5°	1547.6	1495.2	1384.9	1260.8	1133.4	1018.9	924.7	839.1	783.4	777.0	750.3
7.5°	1562.6	1479.1	1292.9	1072.4	877.6	711.7	595.1	523.4	461.3	442.0	450.6
10°	1562.6	1451.3	1170.9	868.0	633.6	464.5	378.9	331.8	314.7	307.2	300.7
12.5°	1558.3	1406.3	1017.8	676.4	441.0	338.2	299.7	282.6	272.9	268.6	266.5
15°	1551.9	1351.8	866.9	505.2	337.1	290.0	270.8	257.9	249.4	245.1	241.9
17.5°	1547.6	1295.0	729.9	383.2	291.1	264.4	248.3	235.5	228.0	221.5	220.5
20°	1534.8	1228.7	597.2	314.7	264.4	241.9	224.8	213.0	205.5	198.0	198.0
22.5°	1514.4	1134.5	472.0	274.0	241.9	219.4	201.2	189.4	181.9	177.7	175.5
25°	1488.7	1041.4	374.6	250.4	220.5	195.9	179.8	168.0	161.6	159.5	157.3
27.5°	1459.8	948.3	308.2	231.2	200.1	176.6	158.4	149.8	145.6	143.4	141.3
30°	1436.3	863.7	267.6	215.1	180.9	157.3	141.3	133.8	130.6	129.5	127.4
32.5°	1438.4	792.0	239.7	196.9	165.9	142.3	126.3	118.8	118.8	117.7	117.7
35°	1478.0	747.0	220.5	180.9	149.8	127.4	113.4	107.0	109.2	109.2	108.1
37.5°	1520.9	702.1	202.3	163.8	135.9	113.4	99.5	96.3	97.4	98.5	98.5
40°	1576.5	668.9	187.3	147.7	122.0	101.7	89.9	86.7	86.7	86.7	85.6
42.5°	1702.8	665.7	174.5	133.8	109.2	89.9	81.3	77.1	74.9	73.8	71.7
45°	1880.5	689.3	165.9	120.9	96.3	81.3	73.8	68.5	62.1	58.9	57.8
47.5°	2109.5	750.3	158.4	109.2	84.6	73.8	66.4	58.9	50.3	46.0	45.0
50°	2395.3	845.5	150.9	99.5	76.0	66.4	57.8	48.2	39.6	35.3	35.3
52.5°	2662.8	957.9	143.4	91.0	67.4	61.0	49.2	38.5	31.0	27.8	26.8
55°	2903.6	1084.2	134.9	81.3	61.0	53.5	40.7	30.0	22.5	19.3	18.2
57.5°	3193.7	1243.7	124.2	71.7	54.6	46.0	32.1	21.4	15.0	10.7	9.6
60°	3510.5	1323.9	110.2	63.1	47.1	38.5	24.6	15.0	8.6	4.3	4.3
62.5°	3613.2	1284.3	93.1	54.6	40.7	31.0	18.2	9.6	3.2	0.0	0.0
65°	3425.9	1100.2	79.2	48.2	35.3	23.5	12.8	5.4	0.0	0.0	0.0
67.5°	2994.6	856.2	65.3	41.7	30.0	19.3	8.6	1.1	0.0	0.0	0.0
70°	2472.3	634.7	54.6	34.2	25.7	15.0	5.4	0.0	0.0	0.0	0.0
72.5°	1908.3	450.6	47.1	28.9	21.4	11.8	3.2	0.0	0.0	0.0	0.0
75°	1077.8	241.9	42.8	28.9	19.3	9.6	2.1	0.0	0.0	0.0	0.0
77.5°	445.2	111.3	37.5	28.9	19.3	10.7	3.2	0.0	0.0	0.0	0.0
80°	139.1	56.7	32.1	30.0	20.3	11.8	3.2	0.0	0.0	0.0	0.0
82.5°	65.3	43.9	33.2	27.8	18.2	10.7	3.2	0.0	0.0	0.0	0.0
85°	34.2	22.5	23.5	23.5	16.1	9.6	3.2	0.0	0.0	0.0	0.0
87.5°	9.6	1.1	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)