

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: P1209148

Luminaire Tested: UPW-SA2-090-827-U-SL2-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209148
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2308-136-2)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-090-827-U-SL2-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 80 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: 6153 lumens
Efficiency: N/A
Efficacy: 72.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

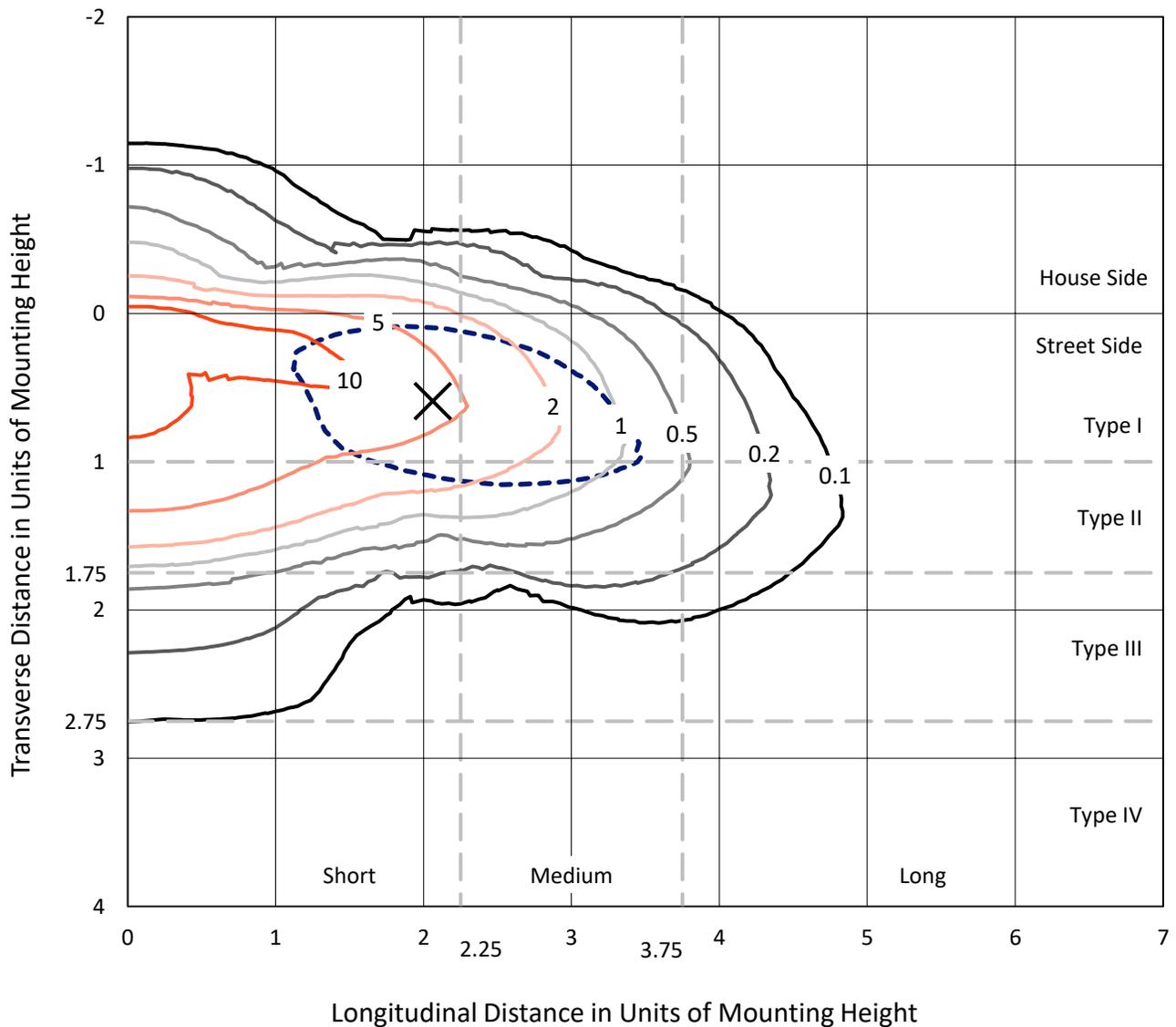
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P1209148
 CATALOG NUMBER: UPW-SA2-090-827-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

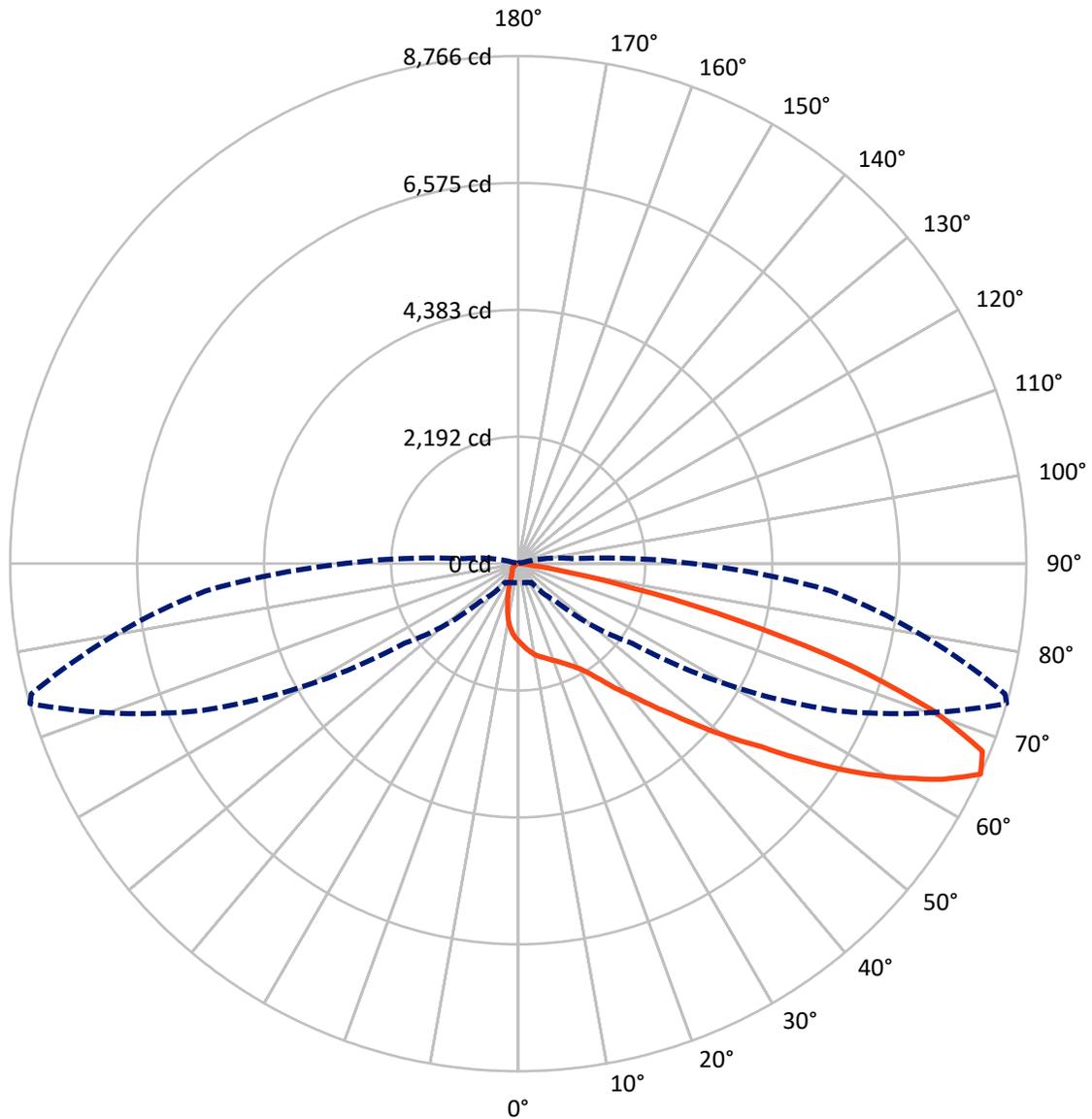
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.3 fc
 Type II - Short - N/A

REPORT NUMBER: P1209148
CATALOG NUMBER: UPW-SA2-090-827-U-SL2-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P1209148

CATALOG NUMBER: UPW-SA2-090-827-U-SL2-HSS

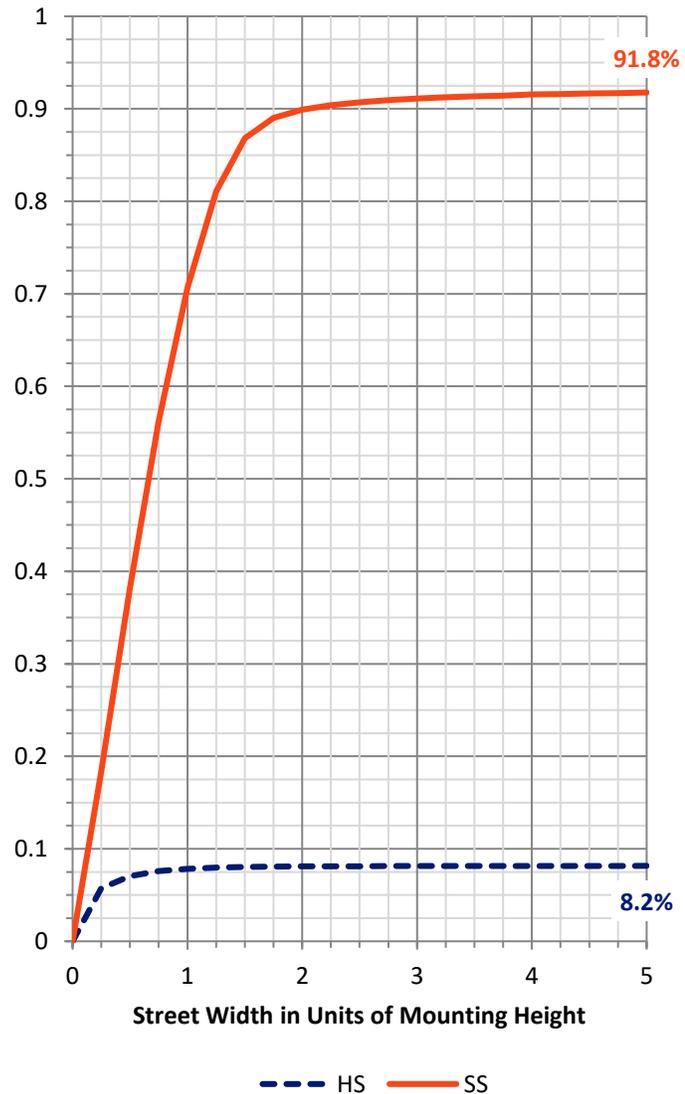
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	505.8	0.0	505.8
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	5647.2	0.0	5647.2
	% Fixture	91.8	0.0	91.8
Total	Lumens	6153.0	0.0	6153.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.4	1.9
10°-20°	280.4	4.6
20°-30°	437.2	7.1
30°-40°	690.1	11.2
40°-50°	1073.4	17.4
50°-60°	1551.6	25.2
60°-70°	1402.5	22.8
70°-80°	563.7	9.2
80°-90°	39.6	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°	6153.0	100.0
0°-180°	6153.0	100.0



REPORT NUMBER: P1209148

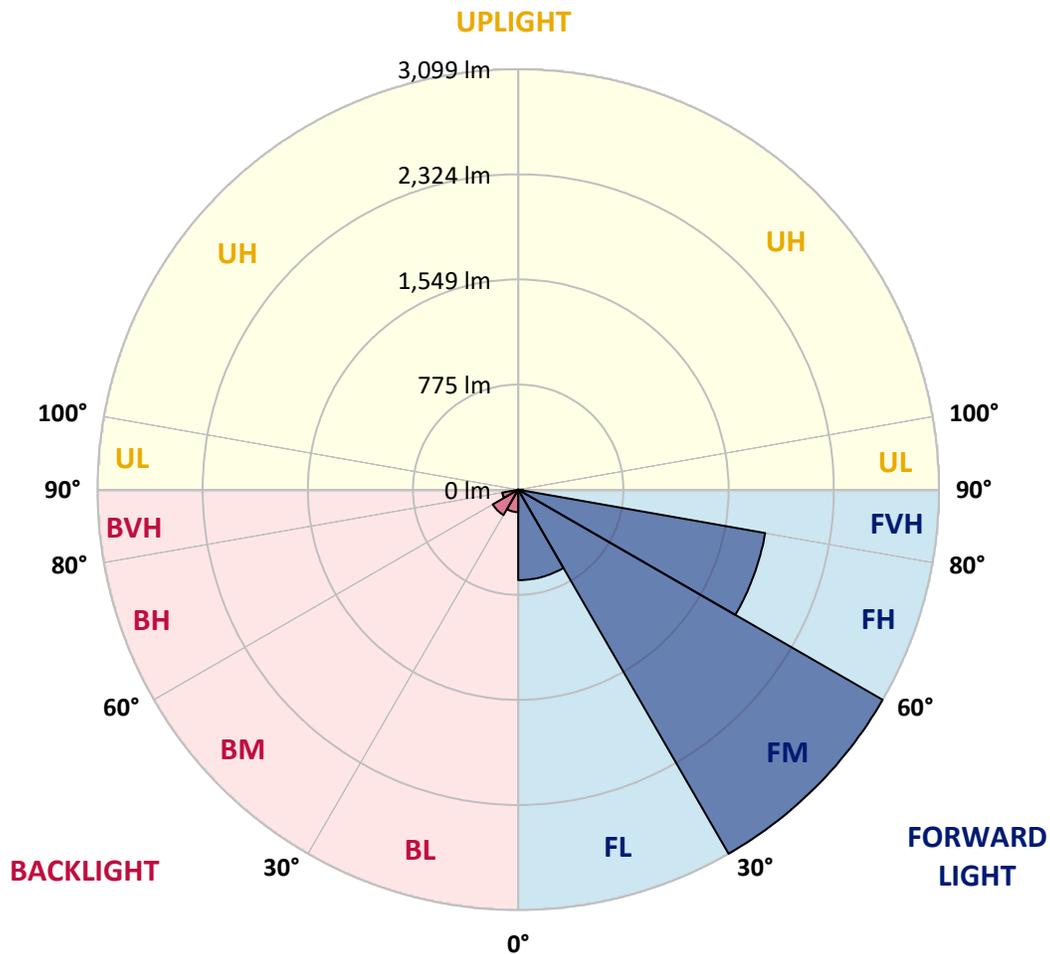
CATALOG NUMBER: UPW-SA2-090-827-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	666.6	10.8			
FM (30°-60°)	3098.7	50.4			
FH (60°-80°)	1846.7	30.0			G2/5000
FVH (80°-90°)	35.2	0.6			G1/100
BL (0°-30°)	165.4	2.7	B1/500		
BM (30°-60°)	216.4	3.5	B0/220		
BH (60°-80°)	119.5	1.9	B1/500		G1/500
BVH (80°-90°)	4.4	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: P1209148

CATALOG NUMBER: UPW-SA2-090-827-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6
2.5°	1512.8	1507.1	1509.9	1497.7	1495.8	1483.6	1456.3	1429.0	1403.6	1397.0	1366.0
5°	1622.8	1620.0	1617.2	1615.3	1606.8	1597.4	1558.9	1522.2	1475.1	1466.7	1401.7
7.5°	1652.0	1649.2	1654.8	1664.2	1669.9	1665.2	1636.9	1601.2	1541.9	1532.5	1438.4
10°	1587.1	1584.3	1609.7	1646.3	1680.2	1704.7	1694.3	1662.3	1600.2	1590.8	1463.8
12.5°	1444.1	1440.3	1481.7	1557.0	1636.9	1706.6	1727.2	1705.6	1647.3	1636.9	1484.5
15°	1313.3	1307.7	1349.1	1425.3	1525.9	1660.5	1739.5	1746.1	1685.9	1679.3	1507.1
17.5°	1243.7	1244.6	1270.0	1333.1	1430.0	1576.7	1726.3	1783.7	1737.6	1729.1	1531.6
20°	1271.9	1273.8	1276.6	1301.1	1359.4	1503.3	1697.1	1824.1	1788.4	1779.0	1562.6
22.5°	1353.8	1358.5	1350.9	1337.8	1345.3	1449.7	1667.0	1868.4	1846.7	1837.3	1584.3
25°	1506.2	1500.5	1477.0	1424.3	1386.7	1433.7	1656.7	1919.2	1920.1	1908.8	1610.6
27.5°	1687.7	1672.7	1644.5	1560.7	1468.5	1460.1	1653.9	1973.7	2005.7	1989.7	1640.7
30°	1842.0	1834.5	1799.7	1722.5	1584.3	1521.2	1661.4	2026.4	2107.3	2098.9	1680.2
32.5°	1941.7	1939.9	1914.5	1862.7	1741.4	1620.0	1694.3	2097.9	2260.7	2232.4	1755.5
35°	2025.5	2017.0	1997.2	1963.4	1890.0	1754.5	1763.9	2212.7	2467.6	2459.2	1875.9
37.5°	2120.5	2110.1	2086.6	2044.3	1993.5	1913.5	1874.9	2361.3	2731.0	2727.3	2034.9
40°	2230.6	2224.0	2200.5	2144.0	2081.0	2033.0	1990.7	2514.7	2986.0	2959.7	2181.6
42.5°	2338.7	2340.6	2322.8	2264.4	2178.8	2113.9	2128.0	2670.8	3318.1	3304.9	2410.2
45°	2462.0	2455.4	2446.0	2403.7	2311.5	2177.9	2259.7	2887.2	3703.8	3736.7	2742.3
47.5°	2548.5	2546.7	2565.5	2533.5	2457.3	2280.4	2395.2	3155.3	4177.9	4209.0	3107.4
50°	2571.1	2568.3	2631.3	2657.7	2654.8	2478.9	2581.5	3494.9	4699.1	4694.4	3515.6
52.5°	2426.2	2432.8	2555.1	2695.3	2826.1	2784.7	2917.3	3962.5	5256.1	5272.1	3899.5
55°	2010.4	2051.8	2187.3	2511.8	2856.2	3096.1	3350.1	4606.0	5990.8	5948.5	4201.5
57.5°	1260.6	1239.0	1467.6	1938.0	2485.5	3119.6	3700.0	5252.3	6775.4	6721.8	4645.5
60°	642.5	614.3	747.9	1080.9	1725.4	2621.9	3707.6	5815.8	7498.9	7438.6	5094.3
62.5°	393.2	388.5	415.8	527.8	893.7	1768.6	3212.7	6156.4	8206.3	8158.3	5398.1
65°	331.1	330.2	340.6	358.4	396.1	918.2	2397.1	5989.9	8766.1	8696.5	5416.0
67.5°	293.5	293.5	315.2	323.6	263.4	395.1	1470.4	5297.5	8635.3	8622.1	5038.7
70°	253.1	249.3	279.4	304.8	219.2	203.2	757.3	4256.0	7586.3	7629.6	4291.8
72.5°	191.0	194.7	225.8	259.7	179.7	143.0	346.2	2978.5	5973.9	5994.6	3372.6
75°	143.9	147.7	175.0	212.6	144.9	108.2	191.0	1935.2	3912.6	3959.7	1970.0
77.5°	110.1	111.0	138.3	175.9	112.0	82.8	128.9	1075.3	1983.1	1940.8	765.8
80°	76.2	79.0	108.2	136.4	89.4	62.1	86.6	465.7	715.9	660.4	238.0
82.5°	28.2	36.7	76.2	98.8	63.0	44.2	64.0	187.2	209.8	196.6	87.5
85°	4.7	4.7	41.4	72.4	33.9	26.3	40.5	64.9	68.7	72.4	45.2
87.5°	0.0	0.0	4.7	16.0	5.6	3.8	11.3	16.0	32.9	36.7	24.5
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: P1209148

CATALOG NUMBER: UPW-SA2-090-827-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6
2.5°	1345.3	1325.5	1286.0	1252.2	1199.5	1153.4	1124.2	1101.6	1084.7	1064.9	1045.2
5°	1360.3	1314.3	1217.4	1108.2	996.3	895.6	812.8	737.6	688.6	683.0	659.5
7.5°	1373.5	1300.1	1136.4	942.6	771.4	625.6	523.1	460.0	405.5	388.5	396.1
10°	1373.5	1275.7	1029.2	763.0	556.9	408.3	333.0	291.6	276.6	270.0	264.4
12.5°	1369.8	1236.2	894.7	594.6	387.6	297.3	263.4	248.4	239.9	236.1	234.3
15°	1364.1	1188.2	762.0	444.0	296.3	254.9	238.0	226.7	219.2	215.4	212.6
17.5°	1360.3	1138.3	641.6	336.8	255.9	232.4	218.3	207.0	200.4	194.7	193.8
20°	1349.1	1080.0	524.9	276.6	232.4	212.6	197.6	187.2	180.6	174.0	174.0
22.5°	1331.2	997.2	414.9	240.8	212.6	192.9	176.9	166.5	159.9	156.2	154.3
25°	1308.6	915.4	329.3	220.1	193.8	172.2	158.0	147.7	142.1	140.2	138.3
27.5°	1283.2	833.5	270.9	203.2	175.9	155.2	139.2	131.7	127.9	126.1	124.2
30°	1262.5	759.2	235.2	189.1	159.0	138.3	124.2	117.6	114.8	113.8	112.0
32.5°	1264.4	696.2	210.7	173.1	145.8	125.1	111.0	104.4	104.4	103.5	103.5
35°	1299.2	656.7	193.8	159.0	131.7	112.0	99.7	94.1	96.0	96.0	95.0
37.5°	1336.8	617.1	177.8	143.9	119.5	99.7	87.5	84.7	85.6	86.6	86.6
40°	1385.7	588.0	164.6	129.8	107.2	89.4	79.0	76.2	76.2	76.2	75.3
42.5°	1496.8	585.2	153.3	117.6	96.0	79.0	71.5	67.7	65.9	64.9	63.0
45°	1652.9	605.9	145.8	106.3	84.7	71.5	64.9	60.2	54.6	51.7	50.8
47.5°	1854.3	659.5	139.2	96.0	74.3	64.9	58.3	51.7	44.2	40.5	39.5
50°	2105.4	743.2	132.6	87.5	66.8	58.3	50.8	42.3	34.8	31.0	31.0
52.5°	2340.6	842.0	126.1	80.0	59.3	53.6	43.3	33.9	27.3	24.5	23.5
55°	2552.3	953.0	118.5	71.5	53.6	47.0	35.7	26.3	19.8	16.9	16.0
57.5°	2807.2	1093.2	109.1	63.0	48.0	40.5	28.2	18.8	13.2	9.4	8.5
60°	3085.7	1163.7	96.9	55.5	41.4	33.9	21.6	13.2	7.5	3.8	3.8
62.5°	3176.0	1128.9	81.8	48.0	35.7	27.3	16.0	8.5	2.8	0.0	0.0
65°	3011.4	967.1	69.6	42.3	31.0	20.7	11.3	4.7	0.0	0.0	0.0
67.5°	2632.3	752.6	57.4	36.7	26.3	16.9	7.5	0.9	0.0	0.0	0.0
70°	2173.2	557.9	48.0	30.1	22.6	13.2	4.7	0.0	0.0	0.0	0.0
72.5°	1677.4	396.1	41.4	25.4	18.8	10.3	2.8	0.0	0.0	0.0	0.0
75°	947.4	212.6	37.6	25.4	16.9	8.5	1.9	0.0	0.0	0.0	0.0
77.5°	391.4	97.8	32.9	25.4	16.9	9.4	2.8	0.0	0.0	0.0	0.0
80°	122.3	49.9	28.2	26.3	17.9	10.3	2.8	0.0	0.0	0.0	0.0
82.5°	57.4	38.6	29.2	24.5	16.0	9.4	2.8	0.0	0.0	0.0	0.0
85°	30.1	19.8	20.7	20.7	14.1	8.5	2.8	0.0	0.0	0.0	0.0
87.5°	8.5	0.9	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)