

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: P1209231

Luminaire Tested: UPW-SA2-110-727-U-SL3-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209231
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2308-136-4)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/19/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-110-727-U-SL3-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8539 lumens
Efficiency: N/A
Efficacy: 75.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

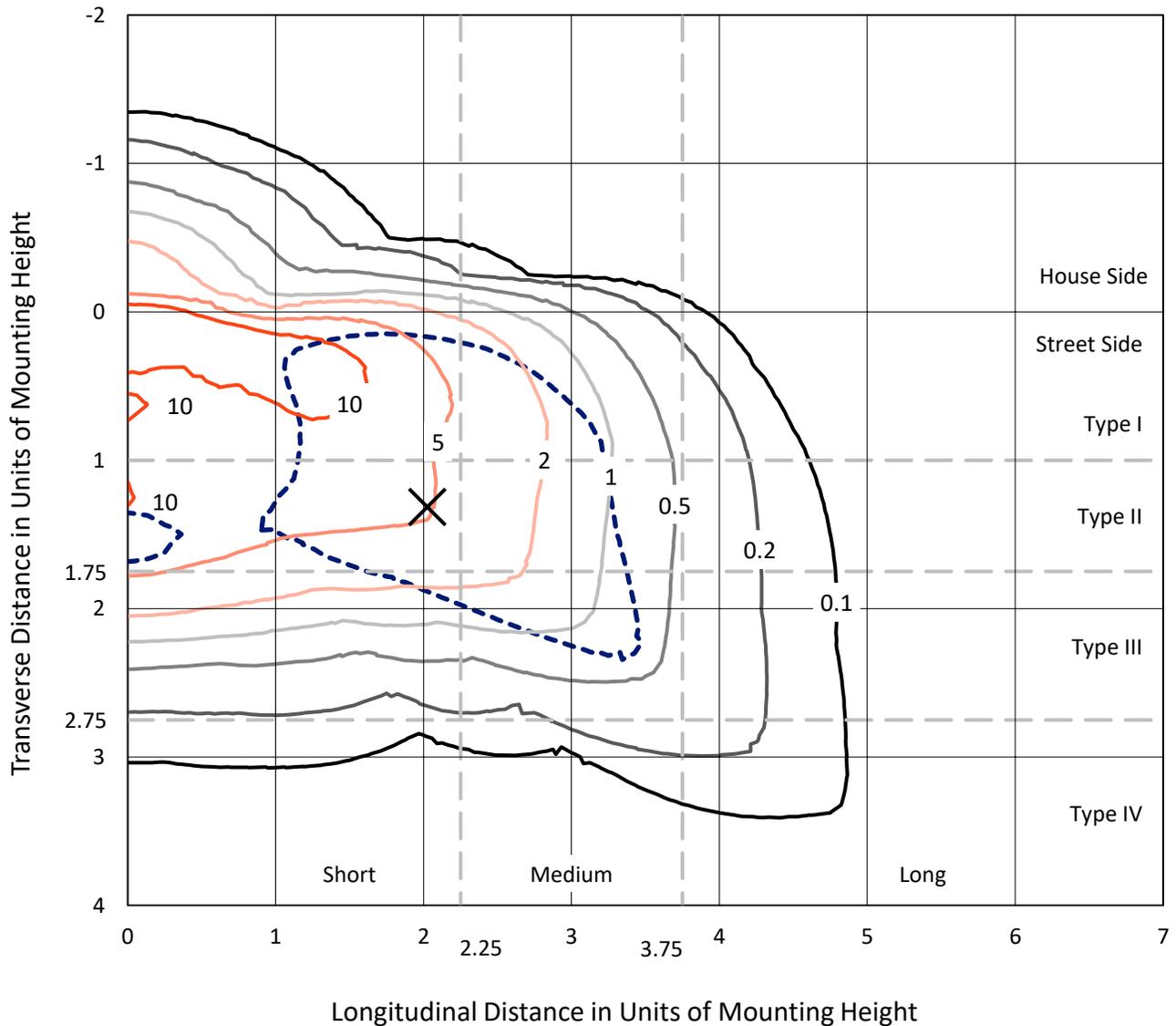
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

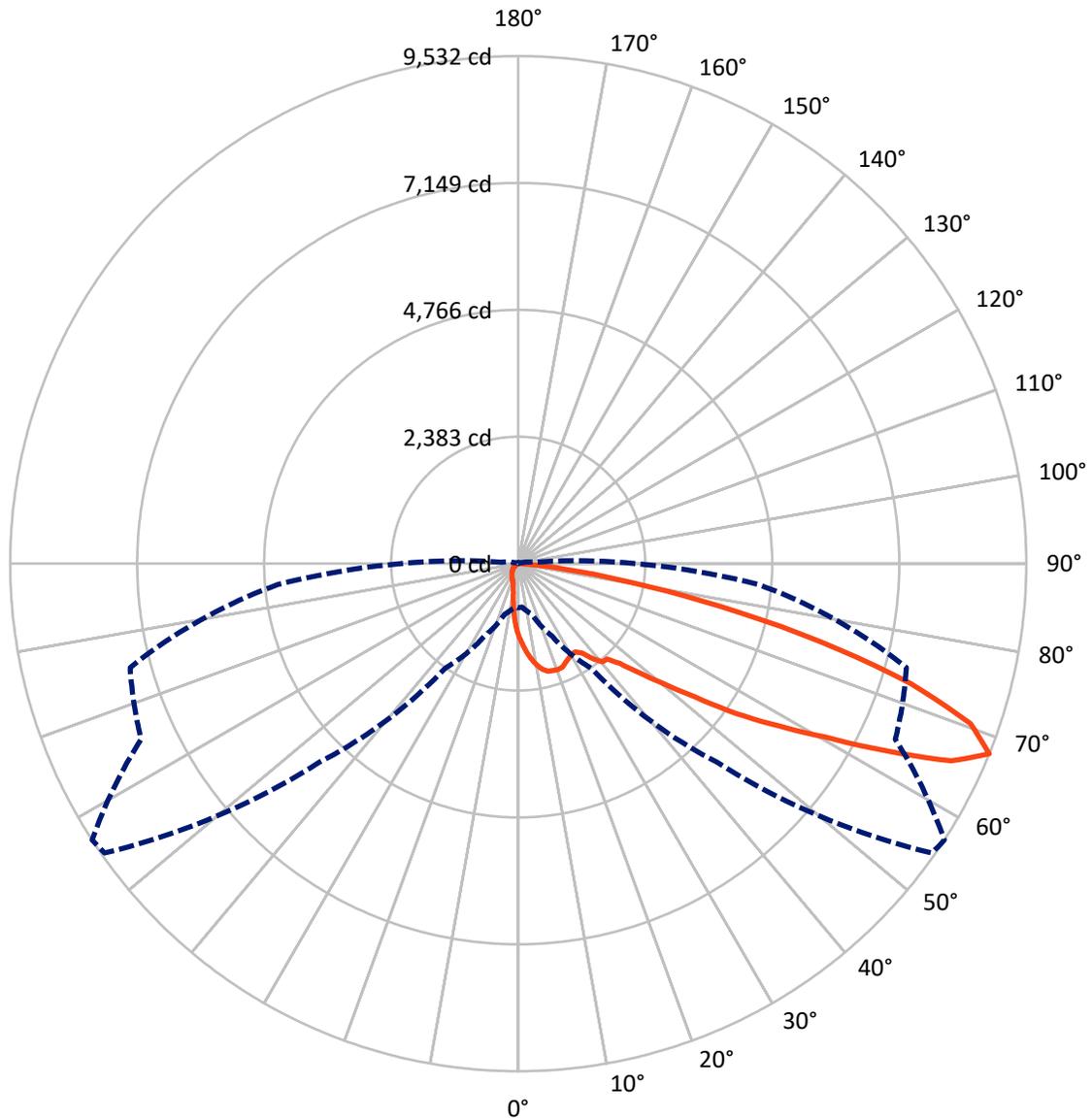
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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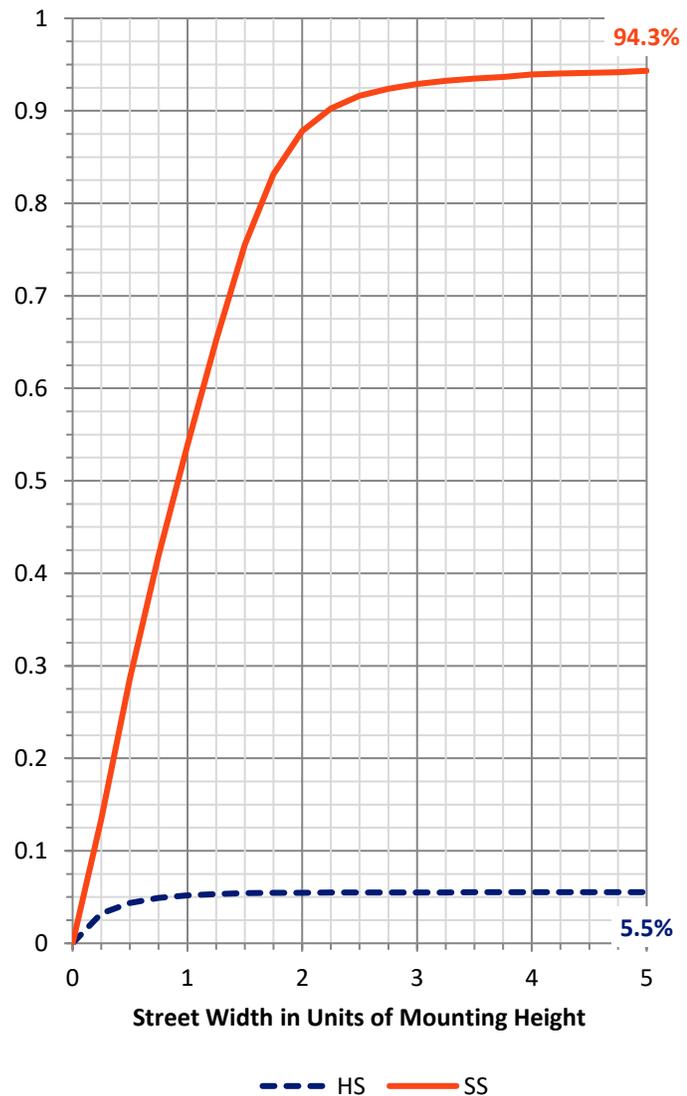
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	475.2	0.0	475.2
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	8063.8	0.0	8063.8
	% Fixture	94.4	0.0	94.4
Total	Lumens	8539.0	0.0	8539.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.0	1.4
10°-20°	317.6	3.7
20°-30°	464.9	5.4
30°-40°	699.0	8.2
40°-50°	1140.5	13.4
50°-60°	2158.5	25.3
60°-70°	2466.7	28.9
70°-80°	1076.7	12.6
80°-90°	93.0	1.1
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°	8539.0	100.0
0°-180°	8539.0	100.0



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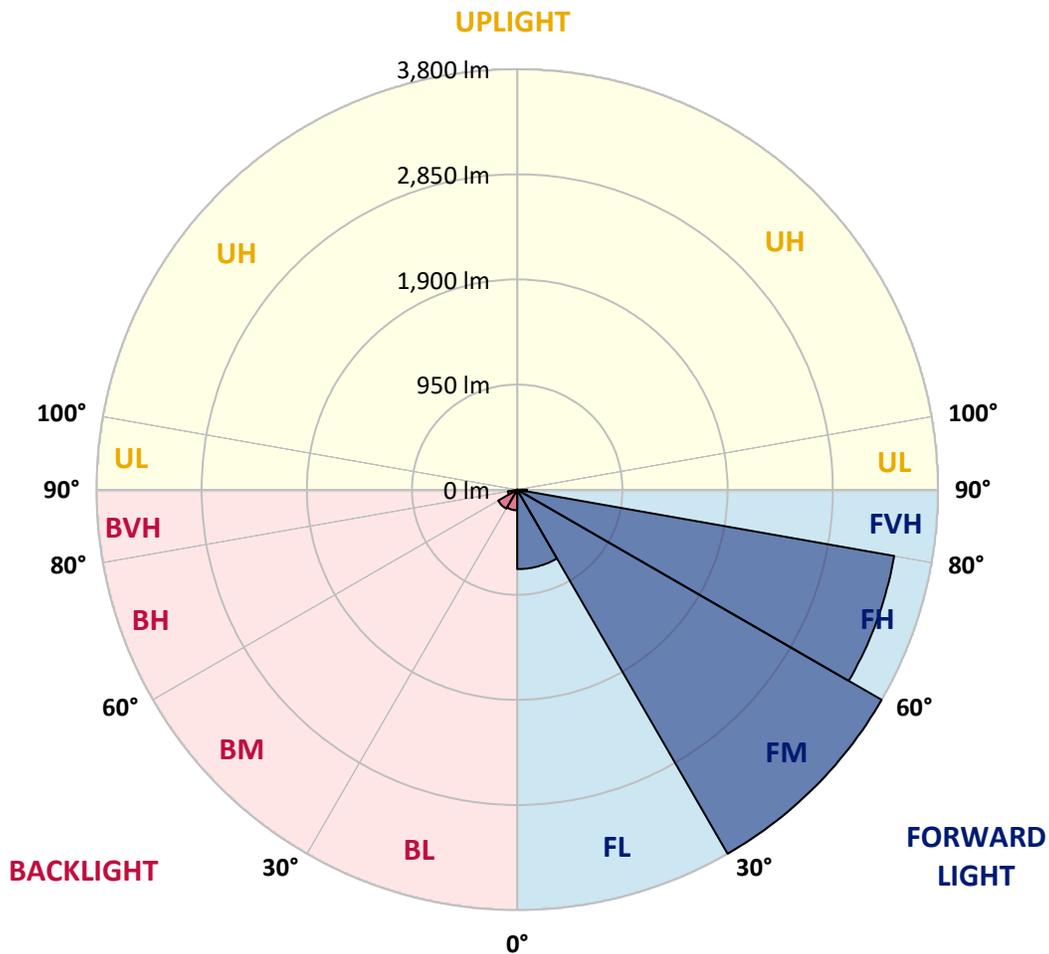
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	718.0	8.4			
FM (30°-60°)	3800.0	44.5			
FH (60°-80°)	3457.3	40.5			G2/5000
FVH (80°-90°)	88.4	1.0			G1/100
BL (0°-30°)	186.5	2.2	B1/500		
BM (30°-60°)	198.0	2.3	B0/220		
BH (60°-80°)	86.1	1.0	B0/110		G0/110
BVH (80°-90°)	4.6	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1358.5	1358.5	1358.5	1358.5	1358.5	1358.5	1358.5	1358.5	1358.5	1358.5	1358.5
2.5°	1603.7	1617.0	1622.3	1599.7	1578.5	1562.6	1530.8	1510.9	1480.4	1443.3	1391.6
5°	1839.6	1838.3	1825.0	1807.8	1798.5	1748.2	1695.1	1673.9	1624.9	1532.1	1431.4
7.5°	1928.4	1936.4	1945.6	1935.0	1919.1	1892.6	1830.3	1814.4	1742.9	1622.3	1480.4
10°	1887.3	1900.6	1916.5	1944.3	1997.3	2006.6	1958.9	1941.7	1855.5	1723.0	1521.5
12.5°	1697.8	1717.7	1744.2	1834.3	1957.6	2034.4	2045.0	2039.7	1966.8	1813.1	1550.7
15°	1446.0	1424.8	1493.7	1618.3	1821.1	1997.3	2092.8	2096.7	2059.6	1897.9	1582.5
17.5°	1256.4	1276.3	1306.8	1400.9	1611.6	1864.8	2086.1	2111.3	2128.5	1988.1	1619.6
20°	1224.6	1226.0	1239.2	1290.9	1400.9	1705.7	2063.6	2123.2	2213.4	2076.9	1635.5
22.5°	1255.1	1247.2	1253.8	1264.4	1333.3	1544.1	2015.9	2112.6	2263.7	2186.9	1668.6
25°	1294.9	1304.2	1292.2	1279.0	1318.7	1471.2	1960.2	2059.6	2339.3	2284.9	1683.2
27.5°	1406.2	1411.5	1379.7	1332.0	1346.6	1438.0	1874.1	2017.2	2453.3	2394.9	1707.1
30°	1587.8	1582.5	1516.2	1438.0	1404.9	1459.2	1819.7	1970.8	2514.2	2479.8	1695.1
32.5°	1723.0	1712.4	1647.4	1566.6	1508.3	1540.1	1819.7	1976.1	2637.5	2628.2	1717.7
35°	1844.9	1835.6	1754.8	1689.8	1639.5	1668.6	1921.8	2062.3	2813.8	2903.9	1797.2
37.5°	1977.5	1952.3	1888.7	1776.0	1760.1	1872.7	2141.8	2258.4	3093.4	3159.7	1799.9
40°	2186.9	2165.7	2063.6	1947.0	1860.8	2025.2	2314.1	2425.4	3290.9	3365.1	1789.2
42.5°	2474.5	2424.1	2298.2	2128.5	1990.7	2107.3	2334.0	2449.3	3440.7	3684.5	1891.3
45°	2787.3	2772.7	2597.7	2379.0	2233.2	2218.7	2544.7	2671.9	3773.3	4200.1	2112.6
47.5°	3239.2	3125.2	2894.6	2661.3	2536.8	2438.7	2868.1	3061.6	4178.9	4803.1	2442.7
50°	3715.0	3648.7	3297.5	2975.5	2823.0	2787.3	3379.7	3554.6	4698.4	5481.7	2992.7
52.5°	4526.1	4373.7	3899.2	3493.7	3229.9	3195.5	3936.3	4160.3	5284.2	6291.5	3548.0
55°	5072.2	4978.1	4501.0	4194.8	3848.9	3744.2	4724.9	4970.1	6001.3	6997.9	4103.3
57.5°	5247.1	5131.8	4702.4	4628.2	4548.7	4608.3	5542.7	5746.8	6498.3	7549.3	4595.1
60°	4546.0	4542.0	4296.8	4490.4	4884.0	5573.2	6508.9	6599.0	6901.2	7887.3	4901.2
62.5°	3269.7	3259.1	3308.1	3787.9	4522.2	6226.6	7838.2	7737.5	7251.1	8075.5	5066.9
65°	1695.1	1703.1	1949.6	2581.8	3638.1	6176.2	9054.9	8927.7	7467.1	7960.2	4950.3
67.5°	827.0	820.4	980.8	1501.6	2402.9	5273.6	9472.4	9532.1	7806.4	7537.4	4528.8
70°	412.2	417.5	534.1	792.6	1312.1	3787.9	8747.4	9000.6	7493.6	6637.4	3856.8
72.5°	290.3	294.2	363.2	470.5	613.6	2299.5	7260.4	7696.4	6254.4	5280.3	2718.3
75°	208.1	214.7	266.4	351.2	340.6	1154.4	5611.6	5870.1	4534.1	3260.4	1440.7
77.5°	151.1	160.4	208.1	270.4	235.9	485.1	3886.0	3879.4	2558.0	1549.4	583.2
80°	99.4	106.0	153.7	200.1	168.3	225.3	2277.0	2144.4	1131.9	593.8	212.1
82.5°	55.7	58.3	103.4	139.2	116.6	106.0	1017.9	938.4	383.0	217.4	99.4
85°	4.0	6.6	61.0	87.5	62.3	53.0	285.0	258.4	123.3	99.4	53.0
87.5°	0.0	0.0	8.0	15.9	10.6	8.0	68.9	59.6	37.1	58.3	26.5
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°	1358.5	1358.5	1358.5	1358.5	1358.5	1358.5	1358.5	1358.5	1358.5	1358.5	1358.5
2.5°	1370.4	1333.3	1277.7	1223.3	1170.3	1122.6	1088.1	1053.7	1039.1	1006.0	1062.9
5°	1378.4	1312.1	1179.6	1051.0	939.7	820.4	742.2	686.5	658.7	633.5	634.9
7.5°	1386.3	1285.6	1081.5	864.1	703.8	577.9	507.6	482.4	471.8	458.6	458.6
10°	1377.1	1243.2	941.0	679.9	516.9	449.3	410.9	401.6	406.9	405.6	409.5
12.5°	1377.1	1192.8	797.9	530.1	424.1	384.4	373.8	372.4	380.4	385.7	388.3
15°	1359.8	1116.0	654.7	434.7	371.1	356.5	352.5	352.5	357.8	363.2	361.8
17.5°	1345.2	1039.1	535.4	373.8	339.3	335.3	332.7	330.0	336.6	341.9	343.3
20°	1309.5	931.7	441.3	336.6	318.1	312.8	311.5	308.8	315.4	320.7	324.7
22.5°	1257.8	809.8	377.7	308.8	299.5	292.9	288.9	290.3	296.9	302.2	299.5
25°	1188.9	702.4	331.3	288.9	275.7	271.7	266.4	269.0	270.4	275.7	279.7
27.5°	1113.3	597.7	300.9	273.0	259.8	251.8	245.2	243.9	245.2	251.8	249.2
30°	1002.0	506.3	279.7	254.5	239.9	229.3	221.3	217.4	216.0	217.4	218.7
32.5°	917.2	445.3	265.1	239.9	221.3	208.1	198.8	190.9	188.2	185.6	185.6
35°	862.8	412.2	250.5	220.0	202.8	189.5	174.9	165.7	160.4	157.7	159.0
37.5°	746.2	355.2	233.3	205.4	185.6	169.6	155.1	140.5	136.5	139.2	139.2
40°	648.1	304.8	217.4	188.2	165.7	151.1	135.2	118.0	115.3	123.3	124.6
42.5°	611.0	282.3	202.8	172.3	148.4	136.5	115.3	102.1	102.1	108.7	110.0
45°	656.1	275.7	189.5	157.7	133.9	120.6	99.4	87.5	87.5	94.1	95.4
47.5°	799.2	286.3	176.3	143.1	123.3	106.0	82.2	76.9	76.9	79.5	80.8
50°	1102.7	320.7	163.0	128.6	112.7	90.1	71.6	66.3	64.9	66.3	66.3
52.5°	1488.4	389.7	148.4	115.3	99.4	75.5	62.3	57.0	53.0	53.0	51.7
55°	1878.0	463.9	133.9	102.1	86.1	64.9	53.0	47.7	41.1	38.4	37.1
57.5°	2221.3	523.5	116.6	90.1	74.2	55.7	46.4	35.8	26.5	21.2	21.2
60°	2434.7	539.4	100.7	78.2	61.0	47.7	37.1	23.9	13.3	10.6	9.3
62.5°	2474.5	489.1	86.1	66.3	51.7	39.8	26.5	13.3	5.3	1.3	1.3
65°	2367.1	385.7	74.2	55.7	42.4	31.8	17.2	6.6	0.0	0.0	0.0
67.5°	2186.9	303.5	62.3	46.4	35.8	25.2	10.6	1.3	0.0	0.0	0.0
70°	1907.2	242.5	54.3	39.8	30.5	21.2	6.6	0.0	0.0	0.0	0.0
72.5°	1404.9	160.4	47.7	35.8	26.5	15.9	4.0	0.0	0.0	0.0	0.0
75°	768.7	102.1	43.7	33.1	25.2	13.3	2.7	0.0	0.0	0.0	0.0
77.5°	311.5	71.6	38.4	31.8	25.2	13.3	2.7	0.0	0.0	0.0	0.0
80°	118.0	50.4	33.1	27.8	23.9	13.3	2.7	0.0	0.0	0.0	0.0
82.5°	62.3	41.1	31.8	27.8	22.5	11.9	1.3	0.0	0.0	0.0	0.0
85°	30.5	13.3	15.9	15.9	18.6	10.6	1.3	0.0	0.0	0.0	0.0
87.5°	6.6	0.0	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)