

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: P1209015

Luminaire Tested: UPW-SA2-090-730-U-SL3-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209015
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2308-136-4)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/20/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-090-730-U-SL3-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 3000K, 800mA 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: 7511 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

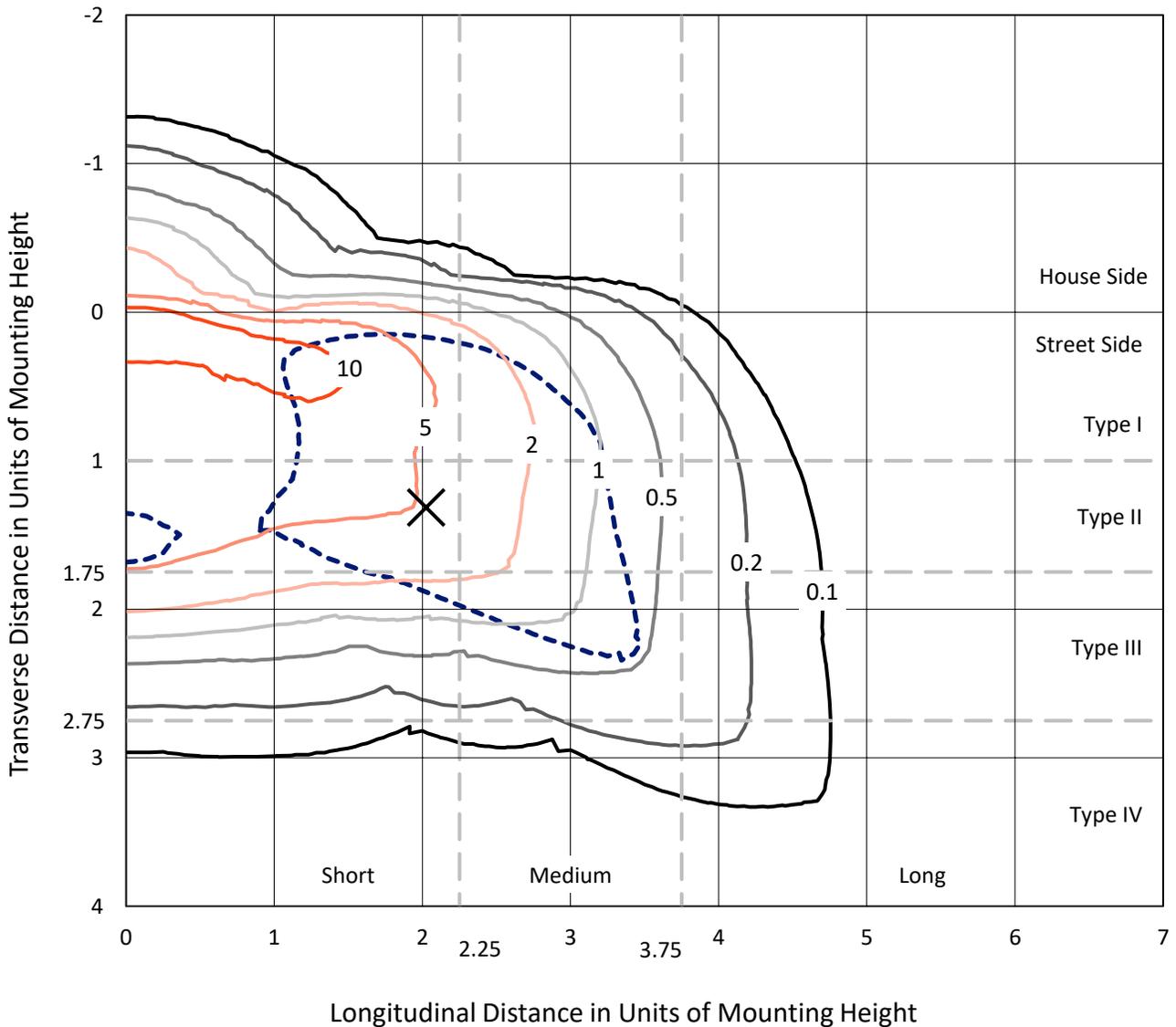
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

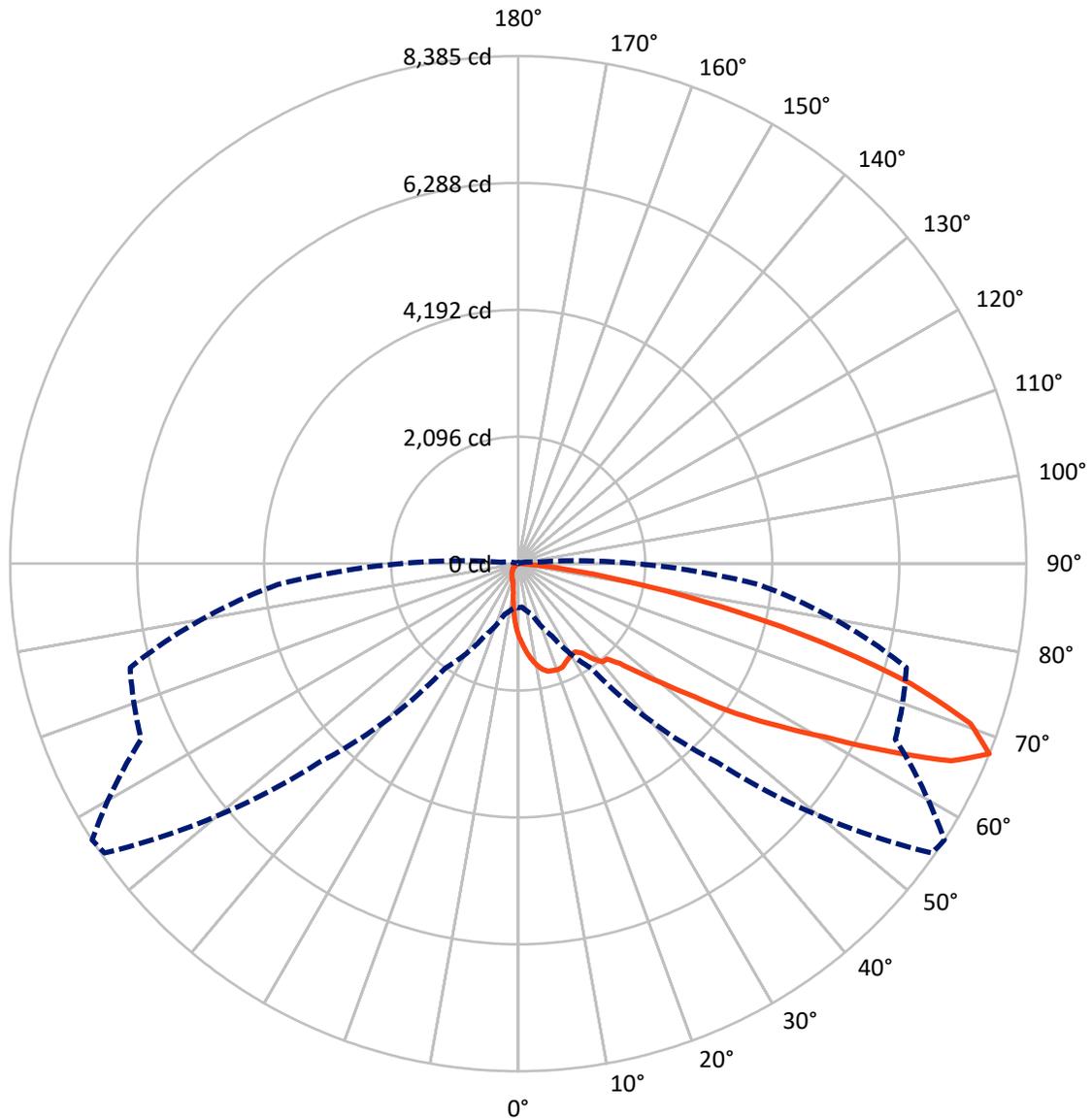
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.9 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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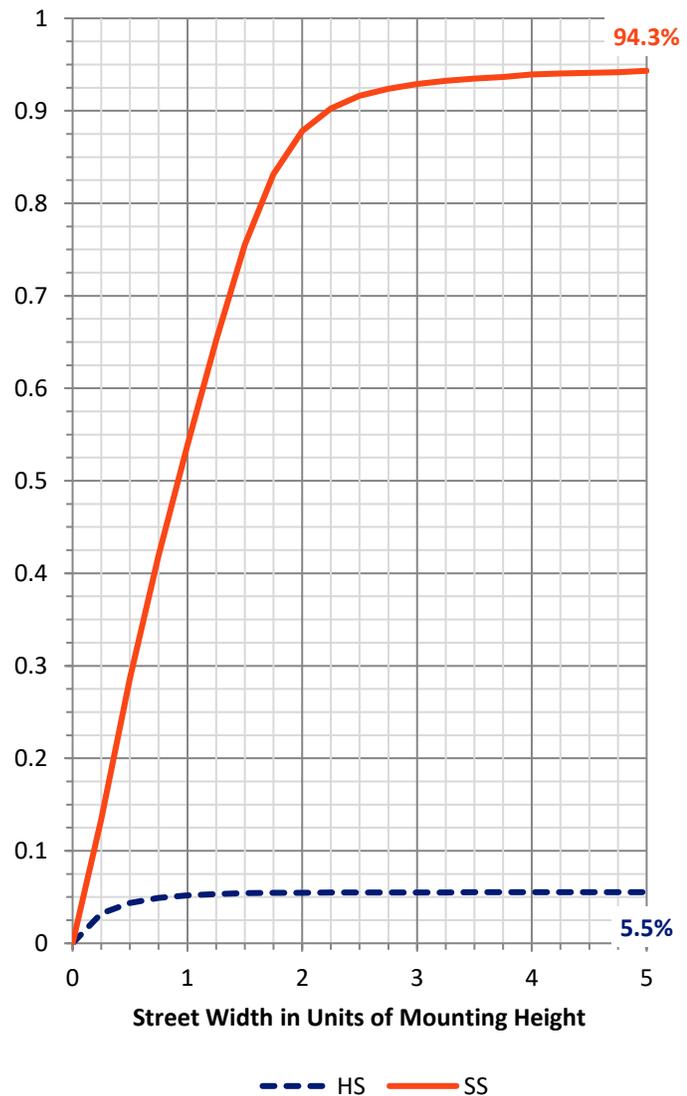
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	418.0	0.0	418.0
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	7093.0	0.0	7093.0
	% Fixture	94.4	0.0	94.4
Total	Lumens	7511.0	0.0	7511.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.4	1.4
10°-20°	279.4	3.7
20°-30°	408.9	5.4
30°-40°	614.9	8.2
40°-50°	1003.2	13.4
50°-60°	1898.7	25.3
60°-70°	2169.8	28.9
70°-80°	947.1	12.6
80°-90°	81.8	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°	7511.0	100.0
0°-180°	7511.0	100.0



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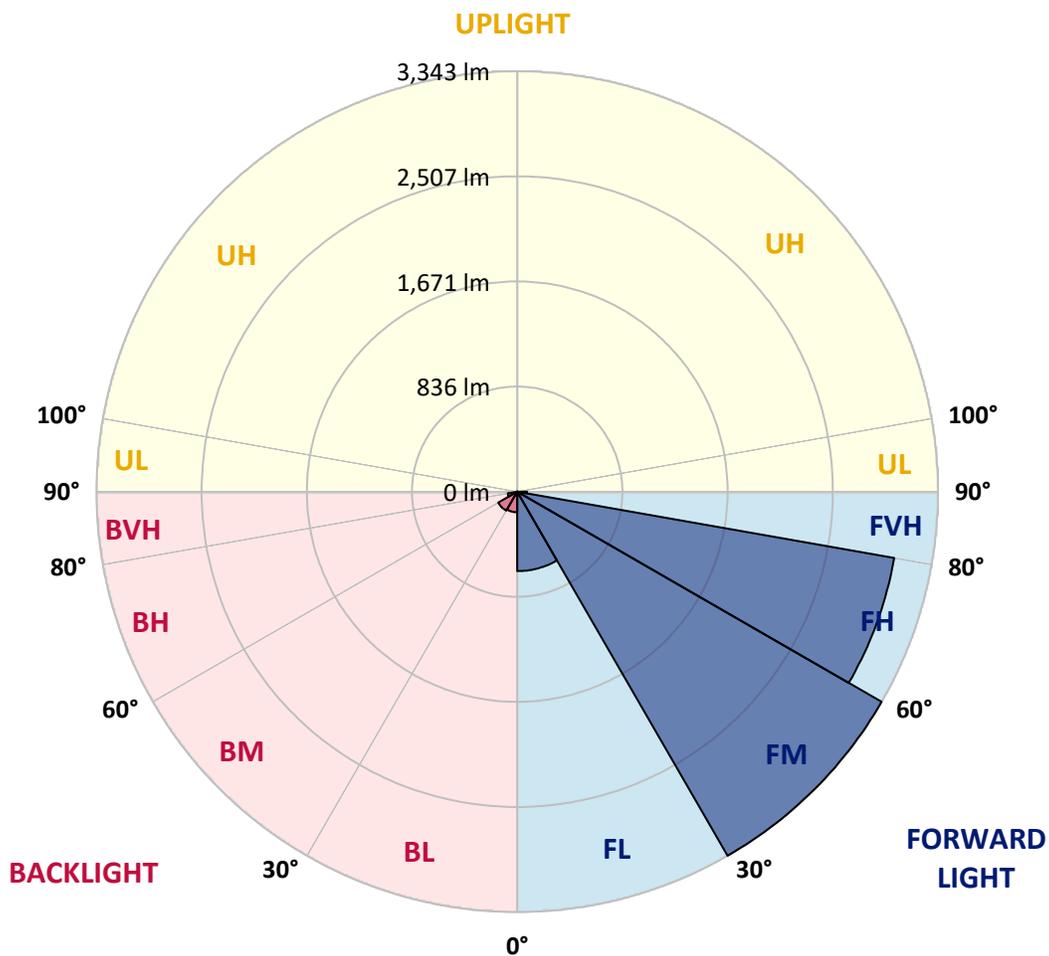
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	631.6	8.4			
FM	(30°-60°)	3342.6	44.5			
FH	(60°-80°)	3041.1	40.5			G2/5000
FVH	(80°-90°)	77.7	1.0			G1/100
BL	(0°-30°)	164.0	2.2	B1/500		
BM	(30°-60°)	174.2	2.3	B0/220		
BH	(60°-80°)	75.8	1.0	B0/110		G0/110
BVH	(80°-90°)	4.1	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°	1195.0	1195.0	1195.0	1195.0	1195.0	1195.0	1195.0	1195.0	1195.0	1195.0	1195.0
2.5°	1410.6	1422.3	1427.0	1407.1	1388.5	1374.5	1346.5	1329.0	1302.2	1269.6	1224.1
5°	1618.1	1617.0	1605.3	1590.2	1582.0	1537.7	1491.1	1472.4	1429.3	1347.7	1259.1
7.5°	1696.3	1703.2	1711.4	1702.1	1688.1	1664.8	1610.0	1596.0	1533.0	1427.0	1302.2
10°	1660.1	1671.8	1685.8	1710.2	1756.9	1765.0	1723.1	1707.9	1632.1	1515.6	1338.3
12.5°	1493.4	1510.9	1534.2	1613.5	1721.9	1789.5	1798.8	1794.2	1730.1	1594.8	1364.0
15°	1271.9	1253.2	1313.9	1423.5	1601.8	1756.9	1840.8	1844.3	1811.7	1669.4	1392.0
17.5°	1105.2	1122.7	1149.5	1232.3	1417.6	1640.3	1835.0	1857.1	1872.3	1748.7	1424.6
20°	1077.2	1078.4	1090.0	1135.5	1232.3	1500.4	1815.2	1867.6	1946.9	1826.8	1438.6
22.5°	1104.0	1097.0	1102.9	1112.2	1172.8	1358.2	1773.2	1858.3	1991.2	1923.6	1467.8
25°	1139.0	1147.2	1136.7	1125.0	1160.0	1294.0	1724.2	1811.7	2057.7	2009.9	1480.6
27.5°	1236.9	1241.6	1213.6	1171.6	1184.5	1264.9	1648.5	1774.4	2157.9	2106.6	1501.6
30°	1396.6	1392.0	1333.7	1264.9	1235.8	1283.6	1600.7	1733.6	2211.5	2181.2	1491.1
32.5°	1515.6	1506.2	1449.1	1378.0	1326.7	1354.7	1600.7	1738.2	2320.0	2311.8	1510.9
35°	1622.8	1614.6	1543.5	1486.4	1442.1	1467.8	1690.4	1814.0	2475.0	2554.3	1580.8
37.5°	1739.4	1717.2	1661.3	1562.2	1548.2	1647.3	1883.9	1986.5	2721.0	2779.3	1583.2
40°	1923.6	1904.9	1815.2	1712.6	1636.8	1781.4	2035.5	2133.4	2894.7	2960.0	1573.8
42.5°	2176.6	2132.3	2021.5	1872.3	1751.0	1853.6	2053.0	2154.4	3026.4	3241.0	1663.6
45°	2451.7	2438.9	2285.0	2092.6	1964.4	1951.6	2238.4	2350.3	3319.1	3694.4	1858.3
47.5°	2849.2	2749.0	2546.1	2340.9	2231.4	2145.1	2522.8	2693.0	3675.8	4224.9	2148.6
50°	3267.8	3209.5	2900.5	2617.2	2483.2	2451.7	2972.8	3126.7	4132.8	4821.8	2632.4
52.5°	3981.2	3847.2	3429.8	3073.1	2841.1	2810.8	3462.5	3659.5	4648.1	5534.1	3120.9
55°	4461.6	4378.8	3959.1	3689.8	3385.5	3293.4	4156.1	4371.8	5278.8	6155.5	3609.3
57.5°	4615.4	4514.0	4136.3	4071.0	4001.1	4053.5	4875.4	5054.9	5716.0	6640.5	4041.9
60°	3998.7	3995.2	3779.6	3949.8	4296.0	4902.2	5725.3	5804.6	6070.4	6937.7	4311.2
62.5°	2876.1	2866.7	2909.9	3331.9	3977.7	5477.0	6894.6	6806.0	6378.1	7103.3	4456.9
65°	1491.1	1498.1	1714.9	2271.0	3200.1	5432.7	7964.8	7852.9	6568.2	7001.9	4354.3
67.5°	727.5	721.6	862.7	1320.9	2113.6	4638.8	8332.0	8384.5	6866.6	6630.0	3983.6
70°	362.6	367.2	469.8	697.2	1154.2	3331.9	7694.3	7917.0	6591.5	5838.4	3392.5
72.5°	255.3	258.8	319.4	413.9	539.8	2022.7	6386.3	6769.9	5501.5	4644.6	2391.1
75°	183.0	188.9	234.3	308.9	299.6	1015.4	4936.0	5163.4	3988.2	2867.9	1267.2
77.5°	132.9	141.1	183.0	237.8	207.5	426.7	3418.2	3412.3	2250.0	1362.8	513.0
80°	87.4	93.3	135.2	176.0	148.1	198.2	2002.9	1886.3	995.6	522.3	186.5
82.5°	49.0	51.3	90.9	122.4	102.6	93.3	895.3	825.4	336.9	191.2	87.4
85°	3.5	5.8	53.6	76.9	54.8	46.6	250.6	227.3	108.4	87.4	46.6
87.5°	0.0	0.0	7.0	14.0	9.3	7.0	60.6	52.5	32.6	51.3	23.3
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°	1195.0	1195.0	1195.0	1195.0	1195.0	1195.0	1195.0	1195.0	1195.0	1195.0	1195.0
2.5°	1205.4	1172.8	1123.8	1076.0	1029.4	987.4	957.1	926.8	914.0	884.8	935.0
5°	1212.4	1154.2	1037.6	924.5	826.6	721.6	652.9	603.9	579.4	557.3	558.4
7.5°	1219.4	1130.8	951.3	760.1	619.0	508.3	446.5	424.4	415.0	403.4	403.4
10°	1211.3	1093.5	827.7	598.1	454.7	395.2	361.4	353.2	357.9	356.7	360.2
12.5°	1211.3	1049.2	701.8	466.3	373.1	338.1	328.8	327.6	334.6	339.3	341.6
15°	1196.1	981.6	575.9	382.4	326.4	313.6	310.1	310.1	314.8	319.4	318.3
17.5°	1183.3	914.0	471.0	328.8	298.4	294.9	292.6	290.3	296.1	300.8	301.9
20°	1151.8	819.6	388.2	296.1	279.8	275.1	274.0	271.6	277.5	282.1	285.6
22.5°	1106.4	712.3	332.3	271.6	263.5	257.6	254.1	255.3	261.1	265.8	263.5
25°	1045.7	617.9	291.5	254.1	242.5	239.0	234.3	236.7	237.8	242.5	246.0
27.5°	979.3	525.8	264.6	240.2	228.5	221.5	215.7	214.5	215.7	221.5	219.2
30°	881.4	445.3	246.0	223.8	211.0	201.7	194.7	191.2	190.0	191.2	192.4
32.5°	806.7	391.7	233.2	211.0	194.7	183.0	174.9	167.9	165.5	163.2	163.2
35°	758.9	362.6	220.3	193.5	178.4	166.7	153.9	145.7	141.1	138.7	139.9
37.5°	656.4	312.4	205.2	180.7	163.2	149.2	136.4	123.6	120.1	122.4	122.4
40°	570.1	268.1	191.2	165.5	145.7	132.9	118.9	103.8	101.4	108.4	109.6
42.5°	537.4	248.3	178.4	151.6	130.6	120.1	101.4	89.8	89.8	95.6	96.8
45°	577.1	242.5	166.7	138.7	117.7	106.1	87.4	76.9	76.9	82.8	83.9
47.5°	703.0	251.8	155.1	125.9	108.4	93.3	72.3	67.6	67.6	69.9	71.1
50°	970.0	282.1	143.4	113.1	99.1	79.3	63.0	58.3	57.1	58.3	58.3
52.5°	1309.2	342.7	130.6	101.4	87.4	66.5	54.8	50.1	46.6	46.6	45.5
55°	1652.0	408.0	117.7	89.8	75.8	57.1	46.6	42.0	36.1	33.8	32.6
57.5°	1953.9	460.5	102.6	79.3	65.3	49.0	40.8	31.5	23.3	18.7	18.7
60°	2141.6	474.5	88.6	68.8	53.6	42.0	32.6	21.0	11.7	9.3	8.2
62.5°	2176.6	430.2	75.8	58.3	45.5	35.0	23.3	11.7	4.7	1.2	1.2
65°	2082.1	339.3	65.3	49.0	37.3	28.0	15.2	5.8	0.0	0.0	0.0
67.5°	1923.6	267.0	54.8	40.8	31.5	22.2	9.3	1.2	0.0	0.0	0.0
70°	1677.6	213.3	47.8	35.0	26.8	18.7	5.8	0.0	0.0	0.0	0.0
72.5°	1235.8	141.1	42.0	31.5	23.3	14.0	3.5	0.0	0.0	0.0	0.0
75°	676.2	89.8	38.5	29.1	22.2	11.7	2.3	0.0	0.0	0.0	0.0
77.5°	274.0	63.0	33.8	28.0	22.2	11.7	2.3	0.0	0.0	0.0	0.0
80°	103.8	44.3	29.1	24.5	21.0	11.7	2.3	0.0	0.0	0.0	0.0
82.5°	54.8	36.1	28.0	24.5	19.8	10.5	1.2	0.0	0.0	0.0	0.0
85°	26.8	11.7	14.0	14.0	16.3	9.3	1.2	0.0	0.0	0.0	0.0
87.5°	5.8	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)