

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: P1209395

Luminaire Tested: UPW-SA2-110-827-U-SL4-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209395
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2308-136-6)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-110-827-U-SL4-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7906 lumens
Efficiency: N/A
Efficacy: 71.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

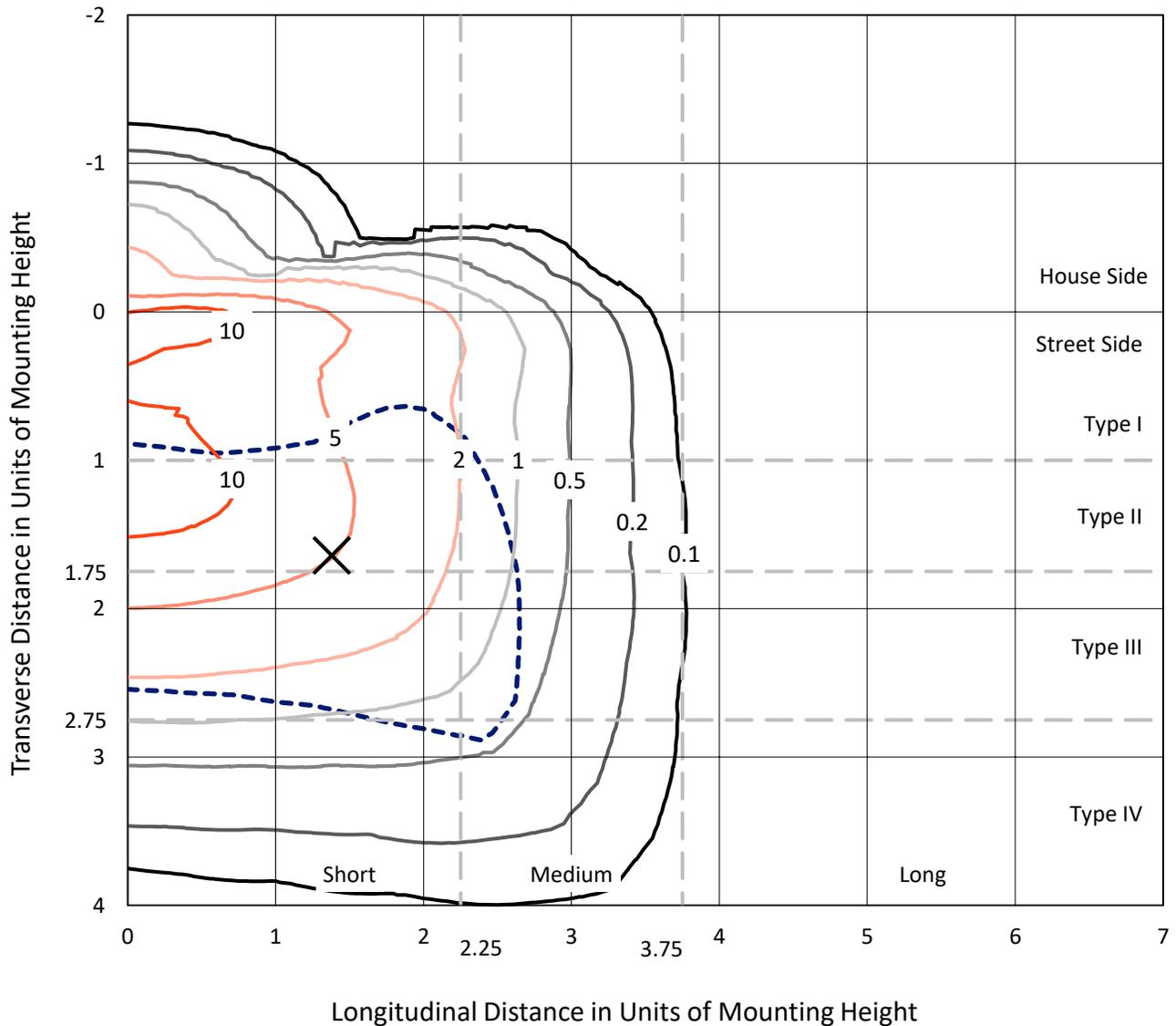
Input Watts (W): 111
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

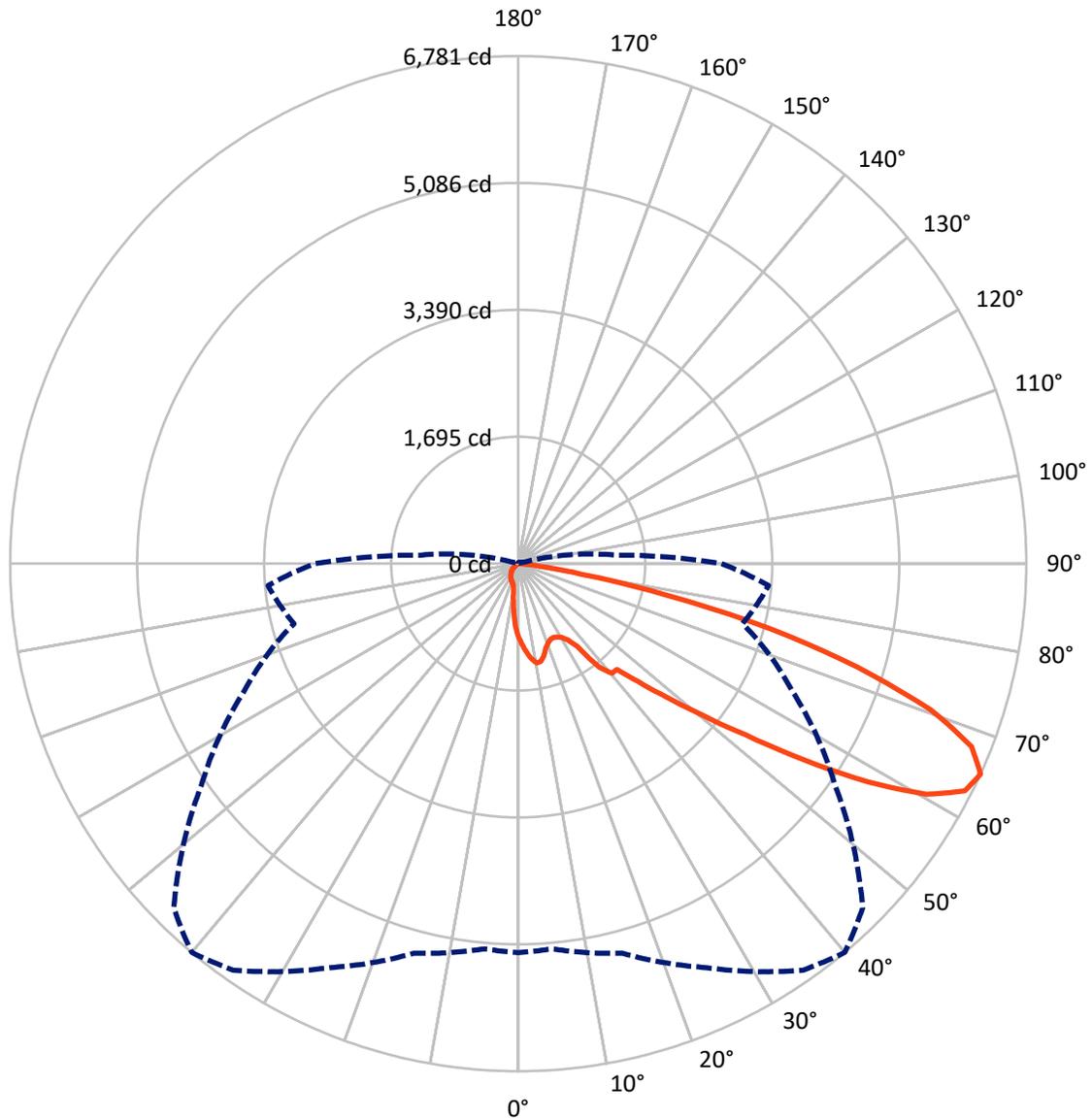
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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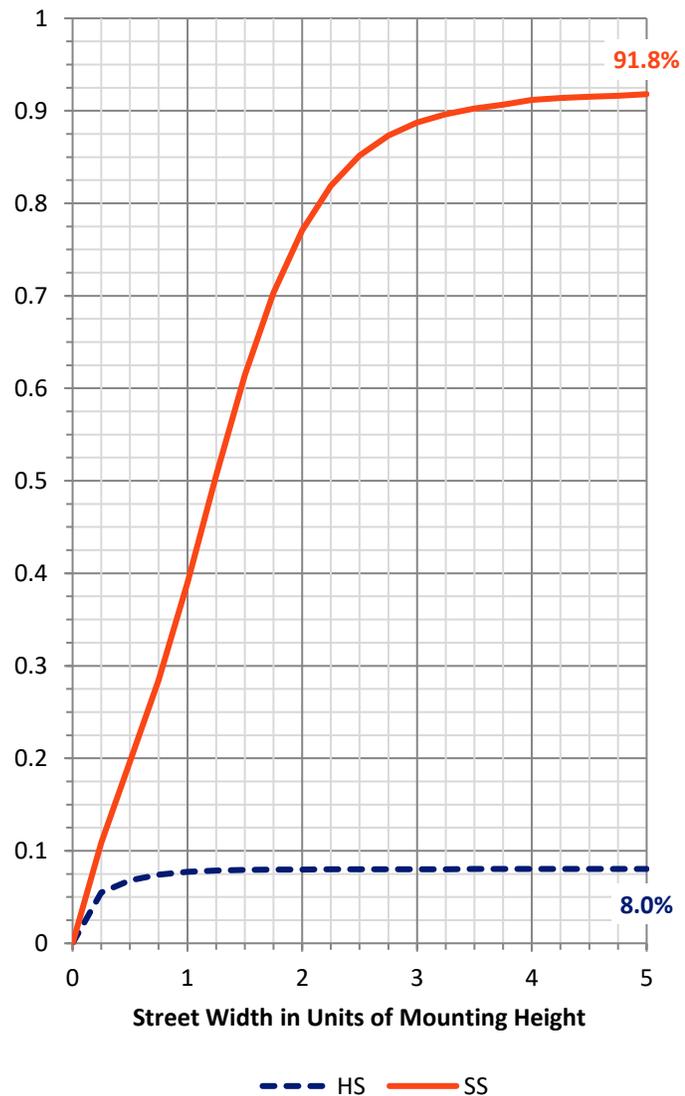
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	639.8	0.0	639.8
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	7266.2	0.0	7266.2
	% Fixture	91.9	0.0	91.9
Total	Lumens	7906.0	0.0	7906.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.6	1.1
10°-20°	254.6	3.2
20°-30°	397.4	5.0
30°-40°	658.6	8.3
40°-50°	1116.8	14.1
50°-60°	1967.1	24.9
60°-70°	2450.1	31.0
70°-80°	920.8	11.6
80°-90°	49.8	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°	7906.0	100.0
0°-180°	7906.0	100.0



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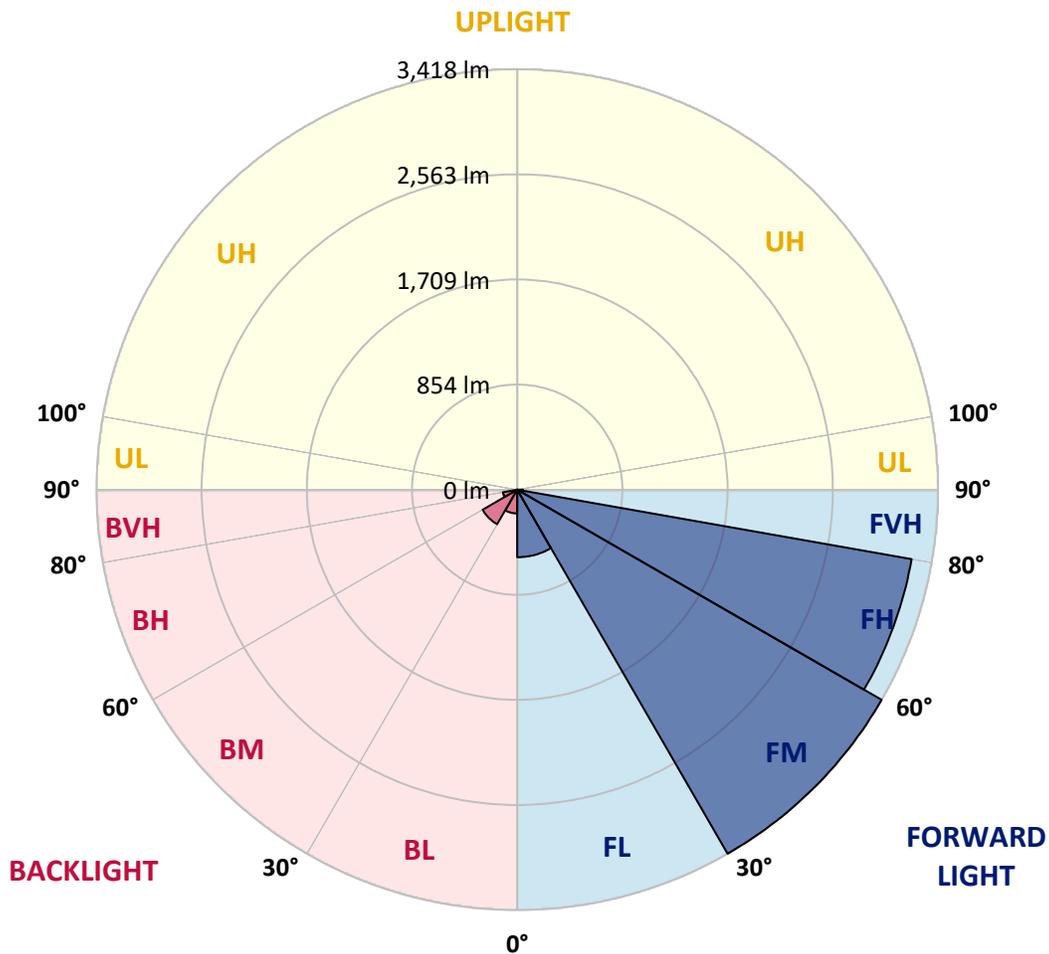
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	549.1	6.9			
FM	(30°-60°)	3417.6	43.2			
FH	(60°-80°)	3252.9	41.1			G2/5000
FVH	(80°-90°)	46.6	0.6			G1/100
BL	(0°-30°)	193.6	2.4	B1/500		
BM	(30°-60°)	324.9	4.1	B1/1000		
BH	(60°-80°)	118.1	1.5	B1/500		G1/500
BVH	(80°-90°)	3.2	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3
2.5°	1117.7	1108.4	1106.1	1101.4	1089.8	1088.6	1086.3	1065.3	1050.2	1035.0	1011.8
5°	1226.0	1219.0	1213.2	1212.0	1203.9	1193.4	1191.1	1162.0	1134.0	1102.6	1053.7
7.5°	1305.2	1298.2	1298.2	1298.2	1288.9	1285.4	1285.4	1255.1	1228.3	1180.6	1114.2
10°	1321.5	1316.8	1321.5	1333.1	1344.7	1349.4	1354.1	1347.1	1325.0	1272.6	1192.2
12.5°	1280.7	1276.1	1280.7	1298.2	1320.3	1342.4	1371.5	1408.8	1416.9	1380.8	1276.1
15°	1240.0	1234.1	1224.8	1221.3	1244.6	1278.4	1318.0	1419.3	1493.8	1483.3	1372.7
17.5°	1214.3	1213.2	1191.1	1160.8	1163.1	1188.7	1240.0	1377.3	1531.0	1575.3	1462.3
20°	1189.9	1186.4	1162.0	1118.9	1109.6	1132.8	1175.9	1319.1	1524.0	1660.3	1555.5
22.5°	1177.1	1172.4	1139.8	1088.6	1079.3	1100.2	1138.7	1256.3	1489.1	1710.3	1644.0
25°	1192.2	1188.7	1142.2	1082.8	1074.6	1092.1	1125.9	1222.5	1443.7	1729.0	1715.0
27.5°	1243.5	1236.5	1174.8	1103.7	1093.3	1109.6	1137.5	1210.9	1404.1	1722.0	1772.0
30°	1418.1	1391.3	1299.3	1166.6	1134.0	1144.5	1166.6	1226.0	1378.5	1712.7	1836.1
32.5°	1756.9	1742.9	1589.2	1348.2	1224.8	1215.5	1230.6	1272.6	1396.0	1761.6	1954.8
35°	2346.0	2328.6	2110.8	1727.8	1408.8	1357.6	1348.2	1384.3	1528.7	1774.4	1974.6
37.5°	2804.8	2788.5	2605.7	2318.1	1924.6	1758.1	1649.8	1634.7	1536.9	1715.0	1999.1
40°	3028.3	3000.4	2732.6	2344.9	2051.5	1926.9	1807.0	1562.5	1453.0	1680.1	2061.9
42.5°	3568.5	3491.7	3176.2	2690.7	2160.9	1932.7	1720.8	1462.3	1483.3	1716.2	2159.7
45°	4169.3	4174.0	3792.1	3147.1	2519.5	2247.1	1981.6	1582.3	1591.6	1808.1	2289.0
47.5°	4862.0	4781.7	4377.7	3725.7	2967.8	2659.2	2362.3	1790.7	1745.3	1956.0	2462.5
50°	5366.2	5314.9	5000.6	4385.9	3520.8	3170.3	2780.3	2103.9	1996.7	2126.0	2638.3
52.5°	5644.4	5632.8	5475.6	4983.1	4205.4	3797.9	3287.9	2470.6	2304.1	2313.4	2768.7
55°	5863.3	5831.9	5824.9	5583.9	4979.6	4621.0	3957.4	2968.9	2694.1	2496.2	2899.1
57.5°	6083.4	6047.3	6077.6	6034.5	5812.1	5503.6	4760.7	3510.3	3034.1	2690.7	3055.1
60°	6086.9	6050.8	6135.8	6317.4	6416.4	6256.9	5575.7	4101.8	3409.0	2889.7	3267.0
62.5°	5806.3	5770.2	5915.7	6294.1	6707.4	6687.6	6208.0	4668.8	3782.8	3088.8	3442.8
65°	5195.0	5165.9	5388.3	5955.3	6629.4	6780.8	6502.5	5161.3	4036.6	3098.2	3352.0
67.5°	3962.1	4014.4	4391.7	5174.1	6224.3	6528.1	6460.6	5290.5	3912.0	2816.4	3006.2
70°	2556.8	2652.2	3073.7	3997.0	5296.3	5838.9	5873.8	4696.7	3274.0	2290.1	2258.7
72.5°	1361.0	1378.5	1767.4	2585.9	4027.3	4739.8	4792.2	3535.9	2240.1	1521.7	1233.0
75°	596.1	643.8	865.1	1454.2	2683.7	3473.1	3317.0	2119.0	1156.1	696.2	477.4
77.5°	214.2	231.7	336.5	711.4	1514.7	2032.8	1894.3	1007.1	466.9	308.5	139.7
80°	103.6	104.8	135.1	271.3	633.4	856.9	745.1	356.3	213.1	173.5	54.7
82.5°	34.9	43.1	76.8	107.1	235.2	292.2	215.4	132.7	126.9	131.6	38.4
85°	0.0	1.2	38.4	58.2	60.5	68.7	54.7	58.2	78.0	79.2	12.8
87.5°	0.0	0.0	0.0	11.6	12.8	12.8	7.0	14.0	32.6	38.4	2.3
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°	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3
2.5°	997.8	983.8	955.9	932.6	901.2	879.0	855.7	845.3	838.3	809.2	806.8
5°	1026.9	995.5	931.4	861.6	792.9	725.3	661.3	625.2	593.8	581.0	565.8
7.5°	1070.0	1022.2	909.3	789.4	660.1	555.4	484.3	444.8	412.2	406.3	401.7
10°	1129.4	1057.2	890.7	696.2	514.6	415.6	357.4	331.8	321.3	319.0	315.5
12.5°	1194.6	1101.4	869.7	588.0	402.8	319.0	294.6	294.6	300.4	302.7	302.7
15°	1278.4	1152.6	830.1	491.3	323.7	279.4	278.3	282.9	288.7	291.1	292.2
17.5°	1351.7	1206.2	780.1	402.8	278.3	265.5	267.8	271.3	277.1	281.8	281.8
20°	1430.9	1255.1	728.8	331.8	256.1	252.6	255.0	259.6	266.6	270.1	271.3
22.5°	1500.8	1293.5	669.5	285.2	241.0	241.0	244.5	249.2	257.3	263.1	263.1
25°	1559.0	1323.8	605.4	253.8	227.0	228.2	231.7	238.7	246.8	252.6	253.8
27.5°	1604.4	1338.9	532.1	228.2	213.1	213.1	218.9	227.0	237.5	244.5	244.5
30°	1662.6	1362.2	476.2	209.6	197.9	197.9	202.6	213.1	227.0	236.3	236.3
32.5°	1749.9	1403.0	416.8	193.3	184.0	184.0	188.6	197.9	211.9	223.5	225.9
35°	1763.9	1384.3	356.3	180.5	171.1	170.0	172.3	180.5	192.1	200.3	203.7
37.5°	1786.0	1384.3	299.2	166.5	158.3	157.2	158.3	161.8	166.5	168.8	167.7
40°	1834.9	1393.6	251.5	154.8	146.7	144.4	143.2	142.0	137.4	131.6	130.4
42.5°	1911.8	1418.1	210.7	142.0	133.9	131.6	128.1	119.9	109.4	101.3	101.3
45°	2003.7	1440.2	177.0	131.6	122.2	119.9	109.4	96.6	83.8	78.0	78.0
47.5°	2116.7	1467.0	150.2	122.2	112.9	107.1	89.6	74.5	64.0	61.7	61.7
50°	2247.1	1483.3	126.9	111.8	103.6	93.1	71.0	58.2	50.1	48.9	48.9
52.5°	2337.9	1482.1	108.3	102.5	94.3	78.0	57.0	46.6	40.7	38.4	38.4
55°	2425.2	1465.8	90.8	90.8	81.5	62.9	46.6	38.4	32.6	30.3	29.1
57.5°	2531.1	1457.7	78.0	75.7	66.4	51.2	38.4	31.4	25.6	21.0	19.8
60°	2700.0	1471.7	65.2	60.5	52.4	40.7	31.4	24.4	18.6	12.8	11.6
62.5°	2812.9	1457.7	53.6	48.9	41.9	32.6	23.3	17.5	10.5	7.0	5.8
65°	2708.1	1301.7	45.4	39.6	33.8	25.6	17.5	11.6	4.7	1.2	0.0
67.5°	2341.4	1039.7	38.4	32.6	26.8	19.8	12.8	7.0	1.2	0.0	0.0
70°	1702.2	700.9	33.8	26.8	21.0	16.3	9.3	3.5	0.0	0.0	0.0
72.5°	890.7	329.5	30.3	24.4	18.6	12.8	7.0	2.3	0.0	0.0	0.0
75°	312.0	118.8	27.9	23.3	16.3	10.5	5.8	2.3	0.0	0.0	0.0
77.5°	97.8	53.6	27.9	24.4	17.5	10.5	5.8	2.3	0.0	0.0	0.0
80°	44.2	34.9	25.6	23.3	16.3	10.5	5.8	1.2	0.0	0.0	0.0
82.5°	31.4	27.9	24.4	21.0	15.1	9.3	4.7	1.2	0.0	0.0	0.0
85°	11.6	9.3	9.3	11.6	10.5	5.8	2.3	0.0	0.0	0.0	0.0
87.5°	1.2	1.2	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)