

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: P1209024

Luminaire Tested: UPW-SA2-090-730-U-T2-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209024
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/20/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-090-730-U-T2-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7726 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

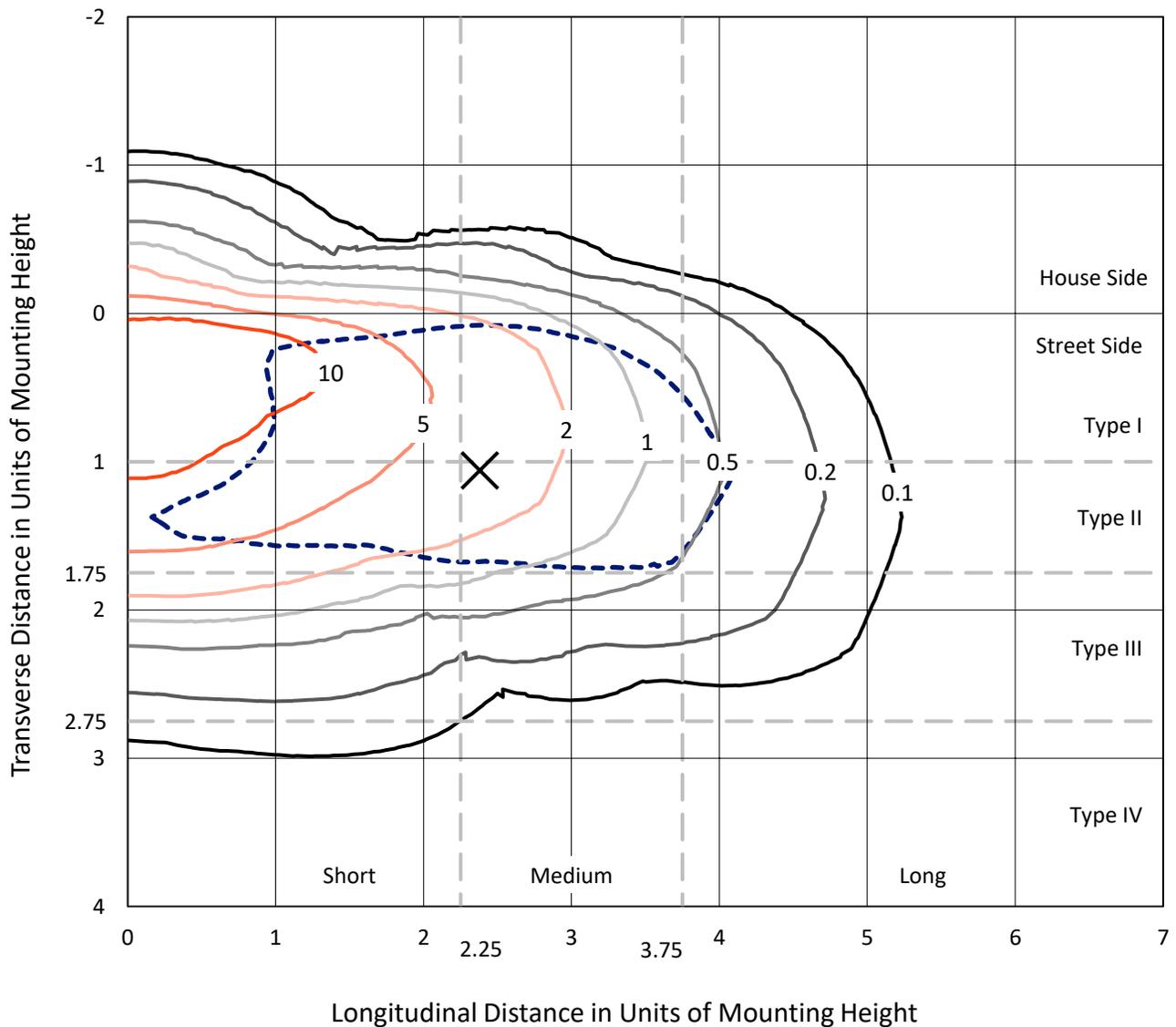
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

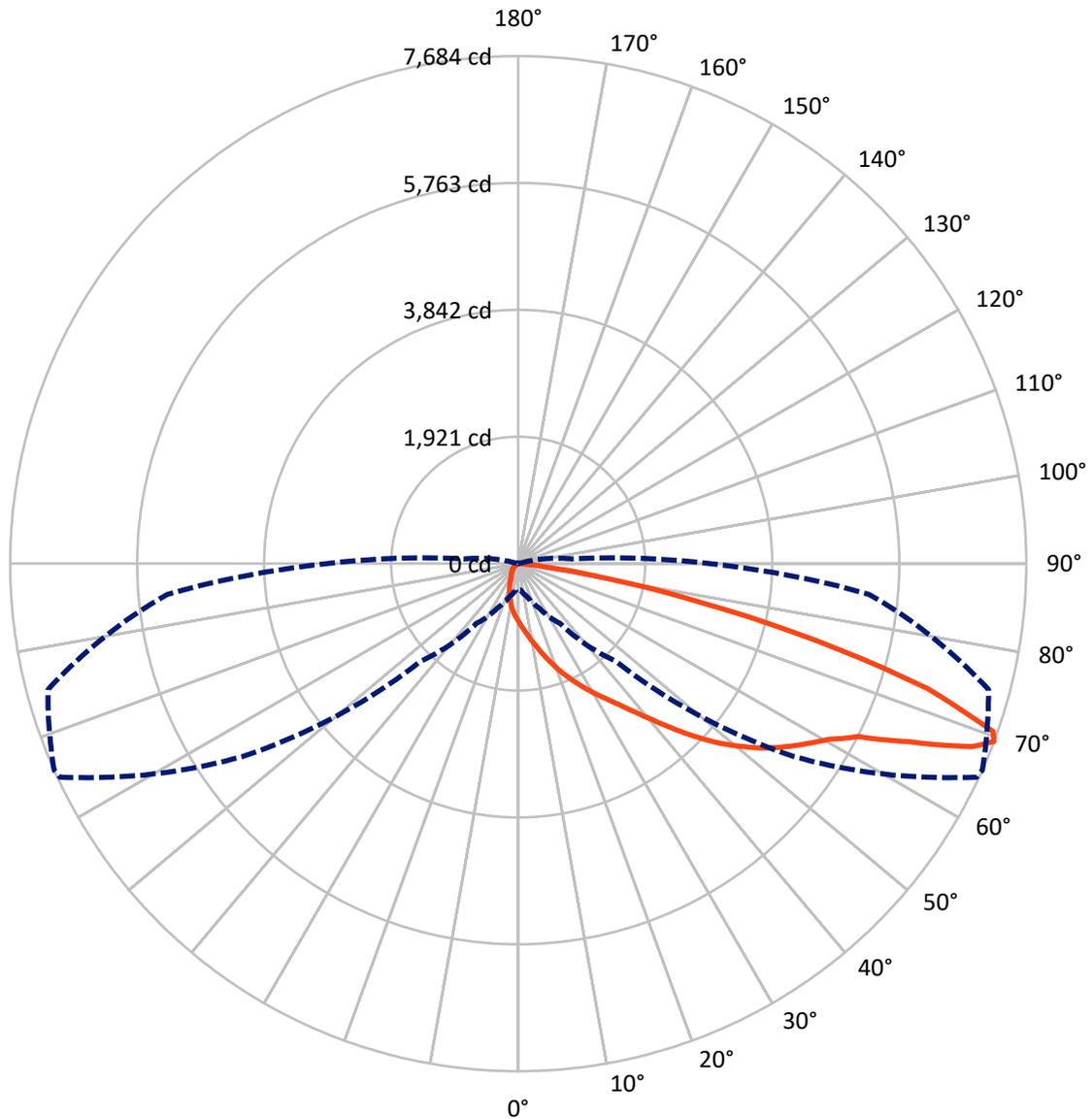
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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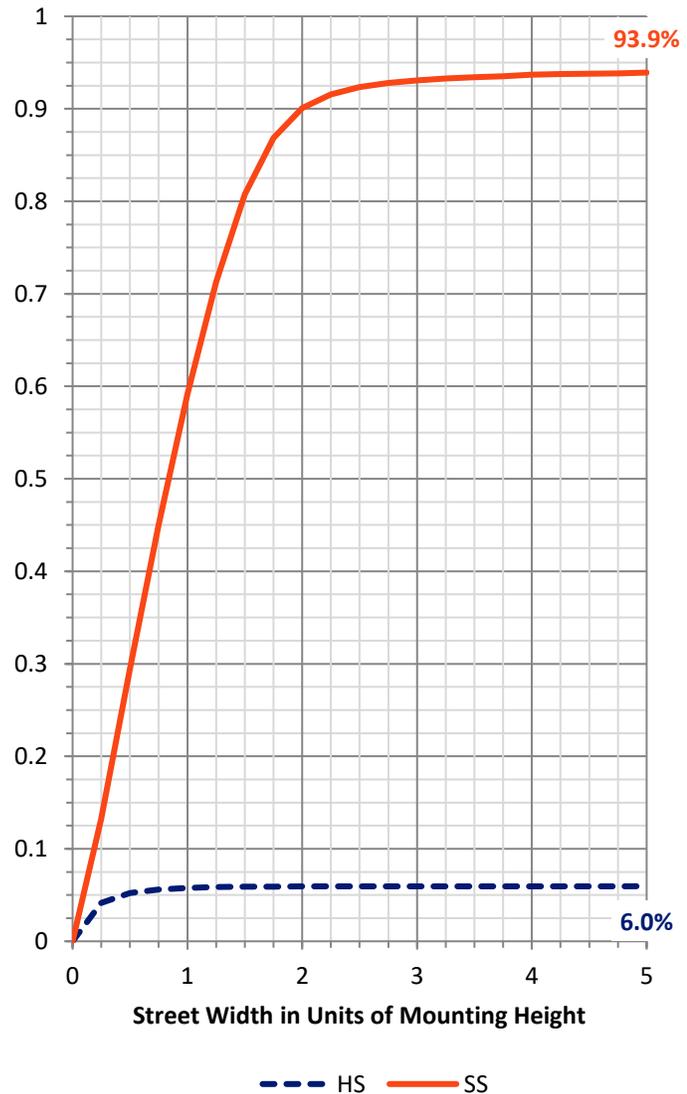
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	463.4	0.0	463.4
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	7262.5	0.0	7262.5
	% Fixture	94.0	0.0	94.0
Total	Lumens	7726.0	0.0	7726.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.0	1.1
10°-20°	252.9	3.3
20°-30°	440.5	5.7
30°-40°	772.8	10.0
40°-50°	1293.6	16.7
50°-60°	1901.4	24.6
60°-70°	1952.3	25.3
70°-80°	963.8	12.5
80°-90°	63.7	0.8
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°	7726.0	100.0
0°-180°	7726.0	100.0



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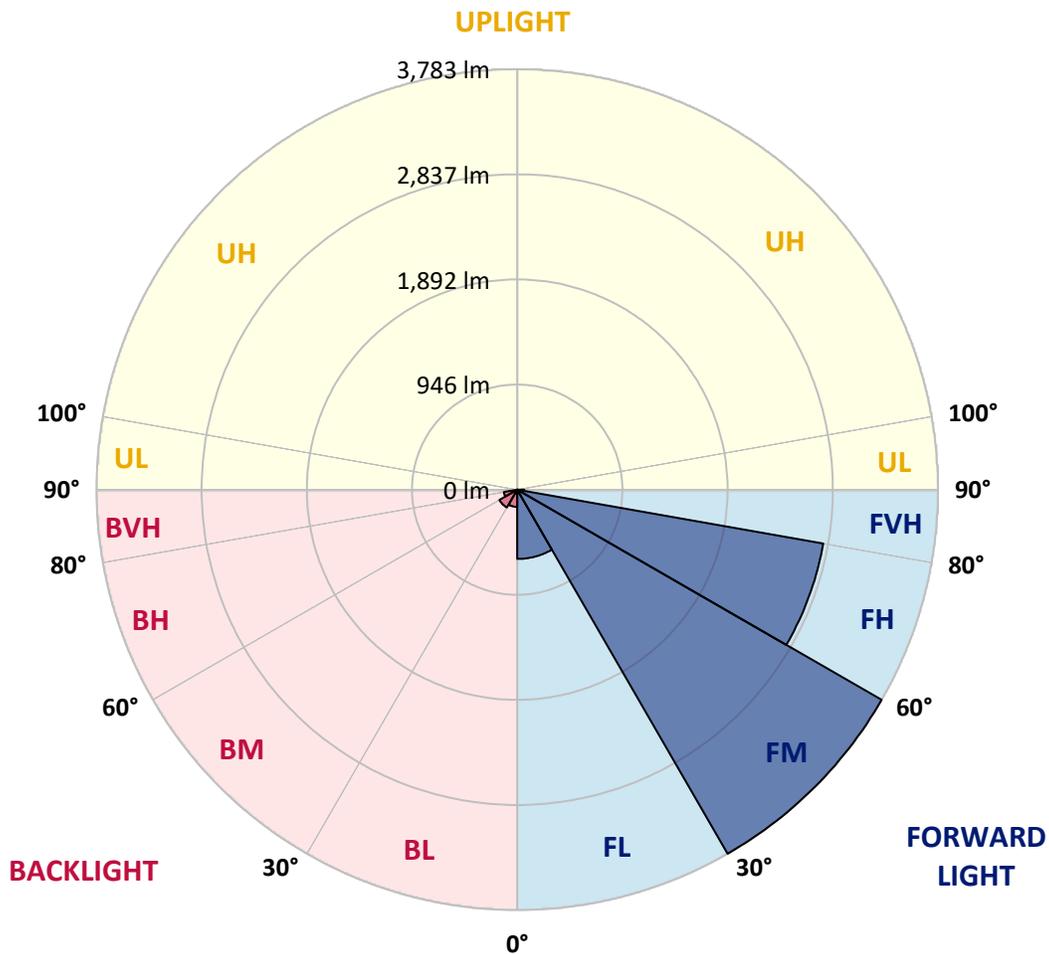
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	623.4	8.1			
FM	(30°-60°)	3783.0	49.0			
FH	(60°-80°)	2793.9	36.2			G2/5000
FVH	(80°-90°)	62.2	0.8			G1/100
BL	(0°-30°)	155.0	2.0	B1/500		
BM	(30°-60°)	184.8	2.4	B0/220		
BH	(60°-80°)	122.1	1.6	B1/500		G1/500
BVH	(80°-90°)	1.5	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	879.2	879.2	879.2	879.2	879.2	879.2	879.2	879.2	879.2	879.2	879.2
2.5°	1034.8	1030.4	1028.6	1020.5	1006.6	995.9	975.4	951.5	947.1	924.0	895.8
5°	1169.1	1165.5	1162.9	1151.5	1137.2	1110.4	1073.0	1028.6	1020.2	976.1	919.6
7.5°	1262.7	1269.3	1269.3	1262.0	1244.0	1223.8	1178.0	1117.4	1106.8	1039.2	951.5
10°	1317.4	1325.5	1331.7	1337.9	1335.4	1327.3	1284.0	1215.7	1202.9	1113.4	988.6
12.5°	1322.5	1330.6	1348.2	1374.3	1399.6	1417.9	1390.8	1324.7	1310.1	1199.2	1032.6
15°	1293.9	1302.4	1329.5	1380.1	1441.4	1495.0	1503.8	1445.5	1430.4	1301.6	1087.7
17.5°	1244.0	1249.5	1288.4	1358.5	1454.6	1553.0	1606.2	1575.0	1561.1	1418.7	1149.0
20°	1206.9	1211.0	1245.1	1320.3	1446.6	1589.3	1703.1	1712.6	1697.9	1544.2	1215.4
22.5°	1270.4	1277.8	1278.9	1314.5	1424.6	1607.3	1788.2	1848.0	1837.0	1677.4	1280.7
25°	1444.0	1452.4	1424.6	1402.5	1443.3	1615.4	1861.2	1986.7	1977.9	1820.9	1346.4
27.5°	1673.4	1682.2	1646.2	1580.5	1541.2	1645.8	1926.2	2127.7	2127.3	1972.8	1417.2
30°	1898.7	1907.5	1870.8	1805.1	1714.8	1732.1	1982.3	2275.2	2277.4	2129.5	1492.4
32.5°	2135.0	2146.0	2108.2	2023.8	1929.5	1881.1	2061.2	2423.4	2435.9	2311.1	1577.2
35°	2403.6	2405.1	2351.9	2263.4	2154.8	2080.3	2187.8	2589.7	2619.4	2536.1	1684.7
37.5°	2667.1	2677.7	2634.1	2494.6	2394.8	2310.4	2376.1	2797.4	2839.6	2810.9	1825.3
40°	2862.3	2884.7	2878.5	2728.0	2633.3	2573.1	2609.8	3044.3	3097.9	3130.9	2002.5
42.5°	2984.9	3001.8	3030.4	2939.7	2853.9	2863.8	2885.8	3332.0	3398.1	3495.7	2206.2
45°	3125.4	3133.5	3157.4	3117.4	3059.4	3159.2	3178.6	3656.1	3725.4	3888.0	2432.2
47.5°	3297.2	3316.2	3322.9	3286.2	3259.7	3420.5	3460.8	3950.7	4048.0	4308.1	2671.5
50°	3515.9	3521.0	3532.4	3508.5	3482.1	3645.0	3714.0	4260.1	4348.5	4729.8	2907.4
52.5°	3729.8	3748.2	3787.8	3772.7	3762.1	3836.2	3939.7	4539.0	4637.7	5081.3	3143.0
55°	3791.5	3807.2	3944.1	4037.7	4124.3	4071.8	4155.5	4788.9	4895.7	5395.5	3369.8
57.5°	3545.2	3577.2	3814.2	4057.9	4417.1	4438.1	4452.0	5045.4	5141.2	5636.2	3605.8
60°	2922.9	2929.1	3318.1	3736.1	4368.7	4757.7	4885.0	5321.0	5401.3	5860.4	3888.3
62.5°	1859.0	1922.5	2349.3	2939.4	3856.4	4711.4	5408.7	5737.8	5767.2	6129.4	4293.5
65°	885.5	926.6	1234.1	1816.1	2793.3	4119.5	5770.1	6491.9	6505.2	6662.6	4834.7
67.5°	490.3	510.1	656.5	977.6	1633.0	2913.3	5624.1	7385.1	7397.6	7207.2	5309.6
69°	383.5	400.4	515.6	736.9	1107.1	2093.9	5089.4	7646.8	7683.8	7363.1	5326.5
70°	325.5	342.0	444.0	622.4	890.3	1617.9	4530.2	7581.8	7621.1	7348.4	5200.6
72.5°	199.3	208.8	295.8	438.2	596.7	813.9	2793.7	6411.9	6478.4	6740.7	4469.6
75°	134.3	139.4	184.9	302.4	426.8	419.1	1451.3	4519.5	4663.4	5243.5	3301.2
77.5°	96.1	100.9	124.0	195.6	299.1	276.7	657.2	2808.7	2839.6	3144.9	1800.3
80°	54.7	59.1	87.7	116.3	202.9	184.6	261.3	1341.6	1357.0	1348.6	601.1
82.5°	28.6	32.3	48.1	76.7	130.3	120.7	108.6	449.2	451.4	375.4	131.7
85°	5.5	6.6	23.9	52.5	67.2	52.5	44.4	105.3	107.5	95.0	32.7
87.5°	0.0	0.4	9.5	11.7	13.2	13.6	14.3	20.5	22.0	29.7	8.8
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°	879.2	879.2	879.2	879.2	879.2	879.2	879.2	879.2	879.2	879.2	879.2
2.5°	883.3	870.1	844.7	815.4	792.6	770.3	752.6	734.3	727.7	724.4	724.0
5°	892.1	864.2	810.6	755.6	710.4	667.9	637.4	608.4	594.8	588.6	586.0
7.5°	906.8	862.0	775.8	691.7	626.8	573.6	531.4	499.8	484.0	477.4	474.9
10°	924.0	859.1	735.0	624.2	541.3	486.2	444.4	413.2	396.0	388.6	384.9
12.5°	944.2	853.9	688.1	555.9	468.2	413.2	362.6	324.0	304.2	295.8	291.7
15°	969.1	848.8	638.9	491.7	404.0	336.9	281.5	255.4	251.4	249.9	250.3
17.5°	993.7	840.7	585.3	428.2	336.5	263.1	234.9	233.4	234.1	234.1	234.1
20°	1015.8	822.4	527.0	373.9	272.3	222.0	216.1	213.6	211.7	210.3	208.4
22.5°	1033.0	797.8	470.8	320.0	222.4	203.3	194.1	186.1	179.4	175.0	172.8
25°	1044.7	765.1	419.4	268.3	200.0	184.9	168.4	154.9	144.6	138.3	135.8
27.5°	1053.6	729.9	373.6	224.6	184.6	163.7	142.0	125.9	115.2	109.7	107.5
30°	1059.8	689.9	333.2	197.4	167.3	141.3	118.2	102.4	94.7	91.7	90.3
32.5°	1065.7	645.5	295.0	184.6	151.2	120.7	99.1	87.0	82.2	78.5	77.4
35°	1080.3	604.4	258.7	171.0	134.7	103.1	85.1	76.3	71.6	69.4	68.6
37.5°	1115.2	573.9	223.8	157.1	118.2	89.2	74.5	68.3	63.9	61.6	60.9
40°	1171.3	558.5	194.5	142.0	102.0	78.5	67.5	61.6	56.9	53.6	52.8
42.5°	1253.9	560.7	173.9	127.0	89.2	70.1	60.9	53.9	48.8	45.9	45.1
45°	1354.1	576.9	159.6	112.3	78.5	63.5	53.6	46.2	41.5	38.9	38.2
47.5°	1462.7	602.9	147.9	99.1	70.1	57.2	46.2	38.5	34.5	32.3	31.9
50°	1577.2	628.2	135.8	86.2	62.8	51.0	38.9	31.9	28.6	26.8	26.1
52.5°	1693.2	657.6	124.8	74.5	56.5	43.7	32.3	26.1	23.5	22.0	21.3
55°	1817.9	679.6	114.1	65.3	50.3	37.1	26.8	21.7	19.4	17.6	17.2
57.5°	1964.7	713.7	103.1	56.5	42.9	30.8	22.0	17.2	15.4	13.6	13.2
60°	2162.9	753.7	91.4	49.9	35.2	25.3	18.0	13.9	11.7	10.3	9.9
62.5°	2424.2	798.1	76.7	43.7	28.6	20.5	14.3	11.0	8.4	6.6	6.6
65°	2755.5	870.4	62.8	36.7	23.5	16.9	11.0	8.1	4.8	2.9	2.9
67.5°	2948.9	882.9	50.6	30.1	19.1	14.3	9.2	5.5	1.5	0.4	0.0
69°	2886.9	810.6	42.9	25.7	16.5	13.6	8.4	4.0	0.7	0.0	0.0
70°	2770.2	741.3	37.8	22.8	15.0	12.8	8.1	2.9	0.7	0.0	0.0
72.5°	2289.1	527.7	28.6	16.9	11.0	11.4	7.3	1.8	0.7	0.0	0.0
75°	1667.5	320.7	20.5	11.7	7.0	8.4	5.1	0.7	0.4	0.0	0.0
77.5°	927.7	151.2	12.8	6.6	4.4	5.1	2.6	0.0	0.0	0.0	0.0
80°	301.3	41.1	5.9	3.7	2.6	2.9	1.1	0.0	0.0	0.0	0.0
82.5°	55.8	11.7	3.3	1.8	0.7	0.7	0.0	0.0	0.0	0.0	0.0
85°	12.1	4.8	1.8	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	1.5	0.4	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)