

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: P1208990

Luminaire Tested: UPW-SA2-090-727-U-SL4-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1208990
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2308-136-6)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/19/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-090-727-U-SL4-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 2700K, 800mA 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: 7267 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

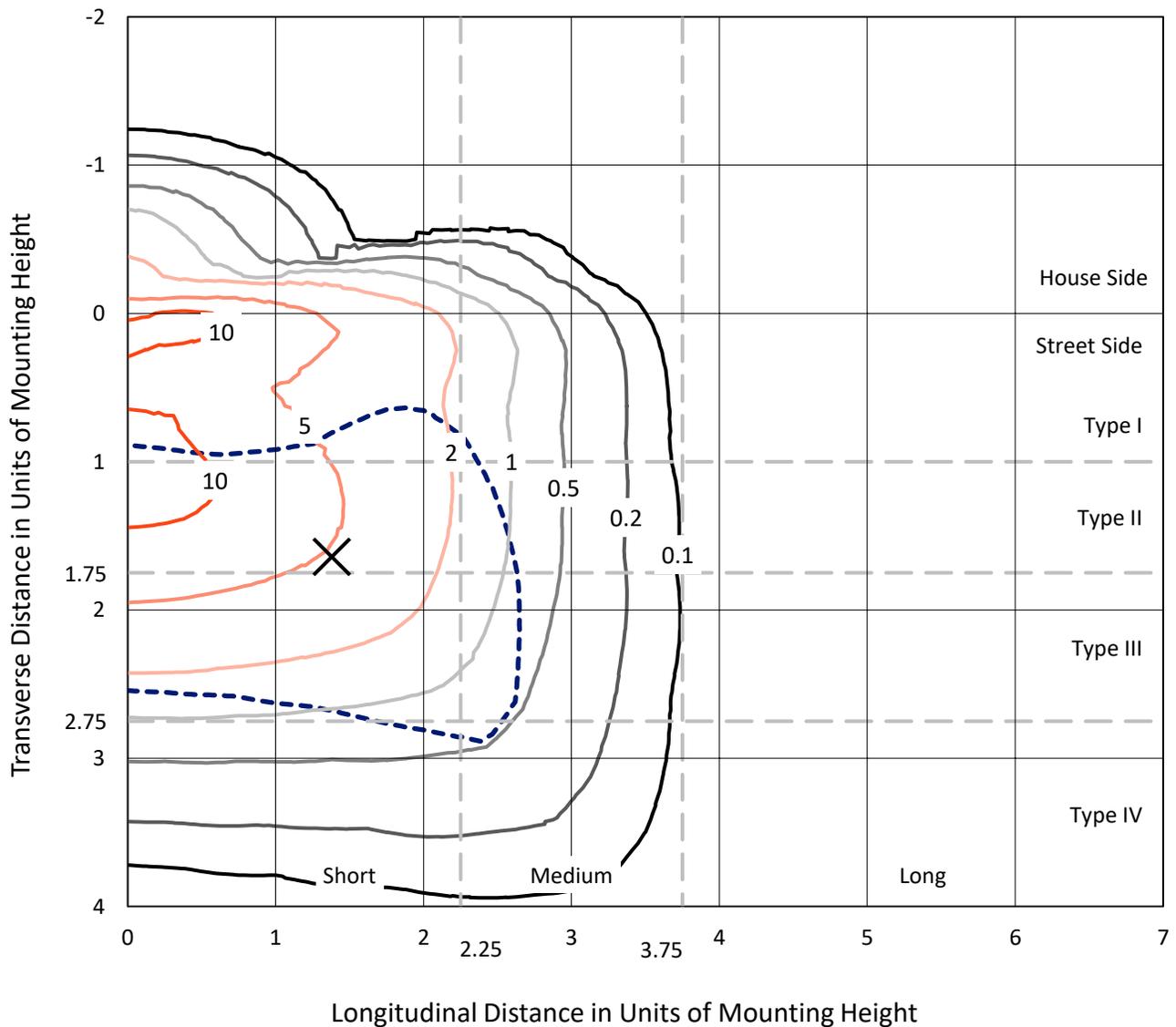
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

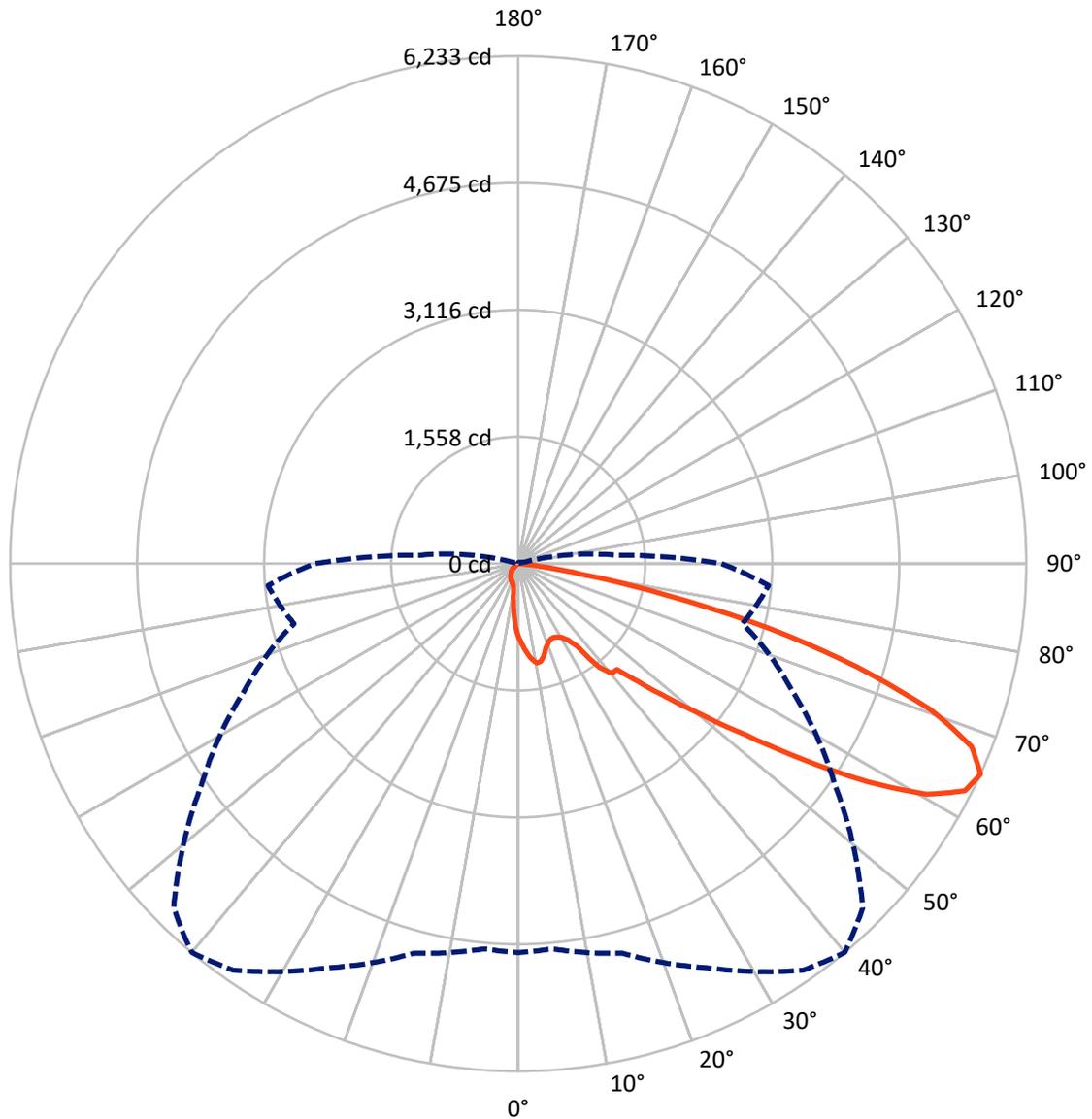
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.6 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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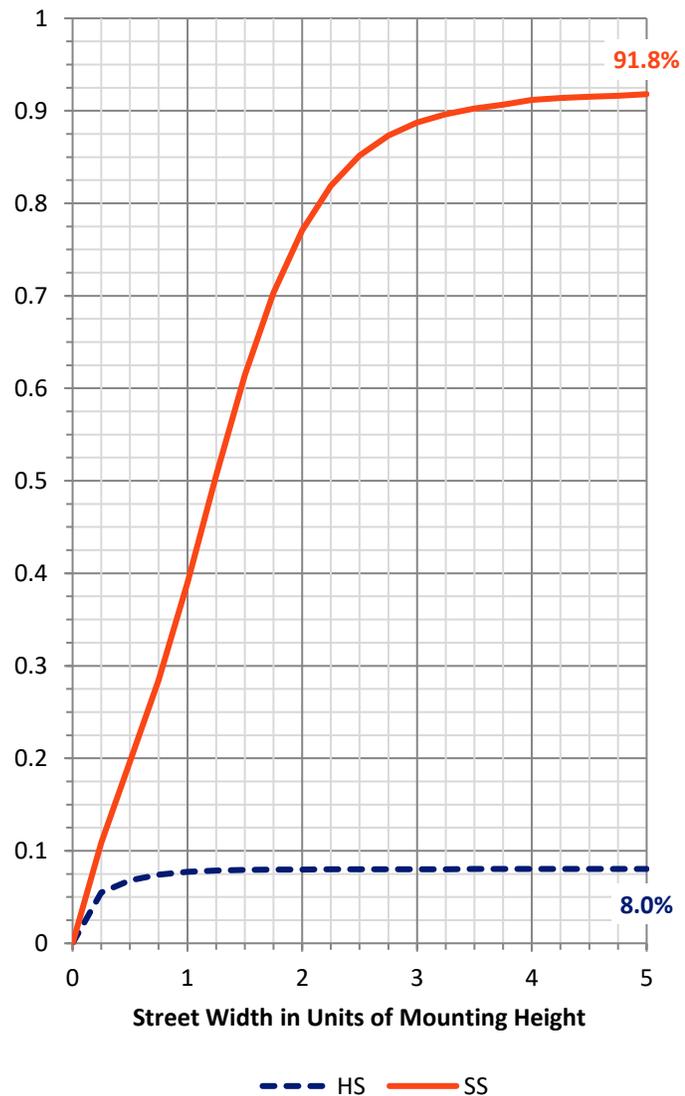
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	588.1	0.0	588.1
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	6678.9	0.0	6678.9
	% Fixture	91.9	0.0	91.9
Total	Lumens	7267.0	0.0	7267.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.3	1.1
10°-20°	234.1	3.2
20°-30°	365.3	5.0
30°-40°	605.4	8.3
40°-50°	1026.5	14.1
50°-60°	1808.1	24.9
60°-70°	2252.1	31.0
70°-80°	846.4	11.6
80°-90°	45.8	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°	7267.0	100.0
0°-180°	7267.0	100.0



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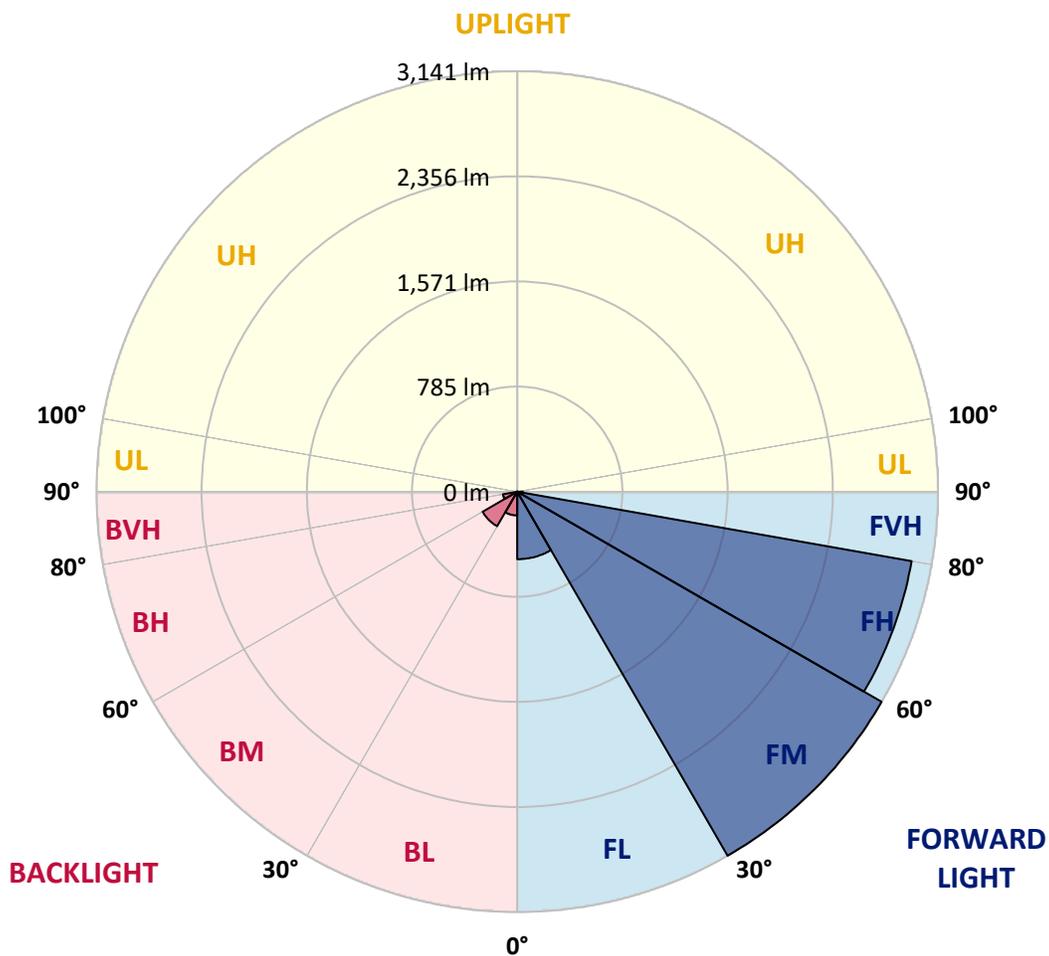
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	504.7	6.9			
FM	(30°-60°)	3141.4	43.2			
FH	(60°-80°)	2990.0	41.1			G2/5000
FVH	(80°-90°)	42.8	0.6			G1/100
BL	(0°-30°)	178.0	2.4	B1/500		
BM	(30°-60°)	298.6	4.1	B1/1000		
BH	(60°-80°)	108.5	1.5	B0/110		G0/110
BVH	(80°-90°)	3.0	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°	907.5	907.5	907.5	907.5	907.5	907.5	907.5	907.5	907.5	907.5	907.5
2.5°	1027.4	1018.8	1016.7	1012.4	1001.7	1000.6	998.5	979.2	965.3	951.4	930.0
5°	1126.9	1120.5	1115.1	1114.1	1106.6	1096.9	1094.8	1068.0	1042.4	1013.5	968.5
7.5°	1199.7	1193.3	1193.3	1193.3	1184.7	1181.5	1181.5	1153.7	1129.0	1085.2	1024.2
10°	1214.7	1210.4	1214.7	1225.4	1236.1	1240.3	1244.6	1238.2	1217.9	1169.7	1095.9
12.5°	1177.2	1172.9	1177.2	1193.3	1213.6	1233.9	1260.7	1294.9	1302.4	1269.2	1172.9
15°	1139.7	1134.4	1125.8	1122.6	1144.0	1175.1	1211.4	1304.5	1373.0	1363.4	1261.7
17.5°	1116.2	1115.1	1094.8	1067.0	1069.1	1092.7	1139.7	1266.0	1407.3	1448.0	1344.1
20°	1093.7	1090.5	1068.0	1028.4	1019.9	1041.3	1080.9	1212.5	1400.9	1526.1	1429.8
22.5°	1082.0	1077.7	1047.7	1000.6	992.1	1011.3	1046.6	1154.7	1368.8	1572.1	1511.1
25°	1095.9	1092.7	1049.8	995.3	987.8	1003.8	1034.9	1123.7	1327.0	1589.2	1576.4
27.5°	1143.0	1136.5	1079.8	1014.5	1004.9	1019.9	1045.6	1113.0	1290.6	1582.8	1628.8
30°	1303.5	1278.9	1194.3	1072.3	1042.4	1052.0	1072.3	1126.9	1267.1	1574.2	1687.7
32.5°	1614.9	1602.1	1460.8	1239.3	1125.8	1117.3	1131.2	1169.7	1283.1	1619.2	1796.8
35°	2156.4	2140.4	1940.2	1588.1	1294.9	1247.8	1239.3	1272.4	1405.1	1631.0	1815.0
37.5°	2578.1	2563.1	2395.1	2130.7	1769.0	1616.0	1516.4	1502.5	1412.6	1576.4	1837.5
40°	2783.5	2757.9	2511.7	2155.3	1885.7	1771.1	1660.9	1436.2	1335.6	1544.3	1895.3
42.5°	3280.1	3209.5	2919.4	2473.2	1986.3	1776.5	1581.7	1344.1	1363.4	1577.4	1985.2
45°	3832.3	3836.6	3485.6	2892.7	2315.9	2065.4	1821.4	1454.4	1462.9	1662.0	2104.0
47.5°	4469.1	4395.2	4023.9	3424.6	2727.9	2444.3	2171.4	1645.9	1604.2	1797.9	2263.4
50°	4932.5	4885.4	4596.4	4031.4	3236.2	2914.1	2555.6	1933.8	1835.4	1954.1	2425.0
52.5°	5188.2	5177.5	5033.1	4580.4	3865.5	3490.9	3022.2	2270.9	2117.9	2126.4	2544.9
55°	5389.4	5360.5	5354.1	5132.6	4577.2	4247.5	3637.5	2729.0	2476.4	2294.5	2664.7
57.5°	5591.7	5558.5	5586.3	5546.7	5342.3	5058.7	4376.0	3226.6	2788.9	2473.2	2808.2
60°	5594.9	5561.7	5639.8	5806.8	5897.8	5751.1	5125.1	3770.2	3133.5	2656.2	3002.9
62.5°	5337.0	5303.8	5437.6	5785.4	6165.3	6147.1	5706.2	4291.4	3477.0	2839.2	3164.5
65°	4775.1	4748.4	4952.8	5474.0	6093.6	6232.7	5977.0	4744.1	3710.3	2847.7	3081.0
67.5°	3641.8	3690.0	4036.7	4755.9	5721.2	6000.5	5938.4	4862.9	3595.8	2588.8	2763.2
70°	2350.1	2437.9	2825.3	3673.9	4868.2	5366.9	5399.1	4317.1	3009.3	2105.0	2076.1
72.5°	1251.0	1267.1	1624.5	2376.9	3701.8	4356.7	4404.9	3250.1	2059.0	1398.7	1133.3
75°	547.9	591.8	795.1	1336.7	2466.8	3192.3	3048.9	1947.7	1062.7	640.0	438.8
77.5°	196.9	213.0	309.3	653.9	1392.3	1868.5	1741.2	925.7	429.1	283.6	128.4
80°	95.2	96.3	124.1	249.4	582.2	787.7	684.9	327.5	195.8	159.5	50.3
82.5°	32.1	39.6	70.6	98.5	216.2	268.6	198.0	122.0	116.6	120.9	35.3
85°	0.0	1.1	35.3	53.5	55.6	63.1	50.3	53.5	71.7	72.8	11.8
87.5°	0.0	0.0	0.0	10.7	11.8	11.8	6.4	12.8	30.0	35.3	2.1
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°	907.5	907.5	907.5	907.5	907.5	907.5	907.5	907.5	907.5	907.5	907.5
2.5°	917.1	904.3	878.6	857.2	828.3	808.0	786.6	777.0	770.5	743.8	741.6
5°	943.9	915.0	856.1	791.9	728.8	666.7	607.9	574.7	545.8	534.0	520.1
7.5°	983.5	939.6	835.8	725.6	606.8	510.5	445.2	408.8	378.8	373.5	369.2
10°	1038.1	971.7	818.7	640.0	473.0	382.1	328.5	305.0	295.4	293.2	290.0
12.5°	1098.0	1012.4	799.4	540.4	370.3	293.2	270.8	270.8	276.1	278.2	278.2
15°	1175.1	1059.5	763.0	451.6	297.5	256.8	255.8	260.1	265.4	267.5	268.6
17.5°	1242.5	1108.7	717.0	370.3	255.8	244.0	246.1	249.4	254.7	259.0	259.0
20°	1315.3	1153.7	669.9	305.0	235.4	232.2	234.4	238.7	245.1	248.3	249.4
22.5°	1379.5	1189.0	615.4	262.2	221.5	221.5	224.7	229.0	236.5	241.9	241.9
25°	1433.0	1216.8	556.5	233.3	208.7	209.8	213.0	219.4	226.9	232.2	233.3
27.5°	1474.7	1230.7	489.1	209.8	195.8	195.8	201.2	208.7	218.3	224.7	224.7
30°	1528.2	1252.1	437.7	192.6	181.9	181.9	186.2	195.8	208.7	217.2	217.2
32.5°	1608.5	1289.6	383.1	177.6	169.1	169.1	173.4	181.9	194.8	205.5	207.6
35°	1621.3	1272.4	327.5	165.9	157.3	156.2	158.4	165.9	176.6	184.1	187.3
37.5°	1641.7	1272.4	275.0	153.0	145.5	144.5	145.5	148.8	153.0	155.2	154.1
40°	1686.6	1281.0	231.2	142.3	134.8	132.7	131.6	130.6	126.3	120.9	119.9
42.5°	1757.2	1303.5	193.7	130.6	123.1	120.9	117.7	110.2	100.6	93.1	93.1
45°	1841.8	1323.8	162.7	120.9	112.4	110.2	100.6	88.8	77.1	71.7	71.7
47.5°	1945.6	1348.4	138.1	112.4	103.8	98.5	82.4	68.5	58.9	56.7	56.7
50°	2065.4	1363.4	116.6	102.7	95.2	85.6	65.3	53.5	46.0	44.9	44.9
52.5°	2148.9	1362.3	99.5	94.2	86.7	71.7	52.4	42.8	37.5	35.3	35.3
55°	2229.2	1347.4	83.5	83.5	74.9	57.8	42.8	35.3	30.0	27.8	26.8
57.5°	2326.6	1339.9	71.7	69.6	61.0	47.1	35.3	28.9	23.5	19.3	18.2
60°	2481.7	1352.7	59.9	55.6	48.2	37.5	28.9	22.5	17.1	11.8	10.7
62.5°	2585.6	1339.9	49.2	44.9	38.5	30.0	21.4	16.1	9.6	6.4	5.4
65°	2489.2	1196.5	41.7	36.4	31.0	23.5	16.1	10.7	4.3	1.1	0.0
67.5°	2152.1	955.7	35.3	30.0	24.6	18.2	11.8	6.4	1.1	0.0	0.0
70°	1564.6	644.2	31.0	24.6	19.3	15.0	8.6	3.2	0.0	0.0	0.0
72.5°	818.7	302.9	27.8	22.5	17.1	11.8	6.4	2.1	0.0	0.0	0.0
75°	286.8	109.2	25.7	21.4	15.0	9.6	5.4	2.1	0.0	0.0	0.0
77.5°	89.9	49.2	25.7	22.5	16.1	9.6	5.4	2.1	0.0	0.0	0.0
80°	40.7	32.1	23.5	21.4	15.0	9.6	5.4	1.1	0.0	0.0	0.0
82.5°	28.9	25.7	22.5	19.3	13.9	8.6	4.3	1.1	0.0	0.0	0.0
85°	10.7	8.6	8.6	10.7	9.6	5.4	2.1	0.0	0.0	0.0	0.0
87.5°	1.1	1.1	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)