

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: P1209168

Luminaire Tested: UPW-SA2-090-827-U-T4FT

Issue Date: 11/4/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1209168  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 2/21/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: UPW-SA2-090-827-U-T4FT  
Description: UNDERPASS WALL MOUNT LUMINAIRE  
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THRC OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8820 lumens  
Efficiency: N/A  
Efficacy: 103.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

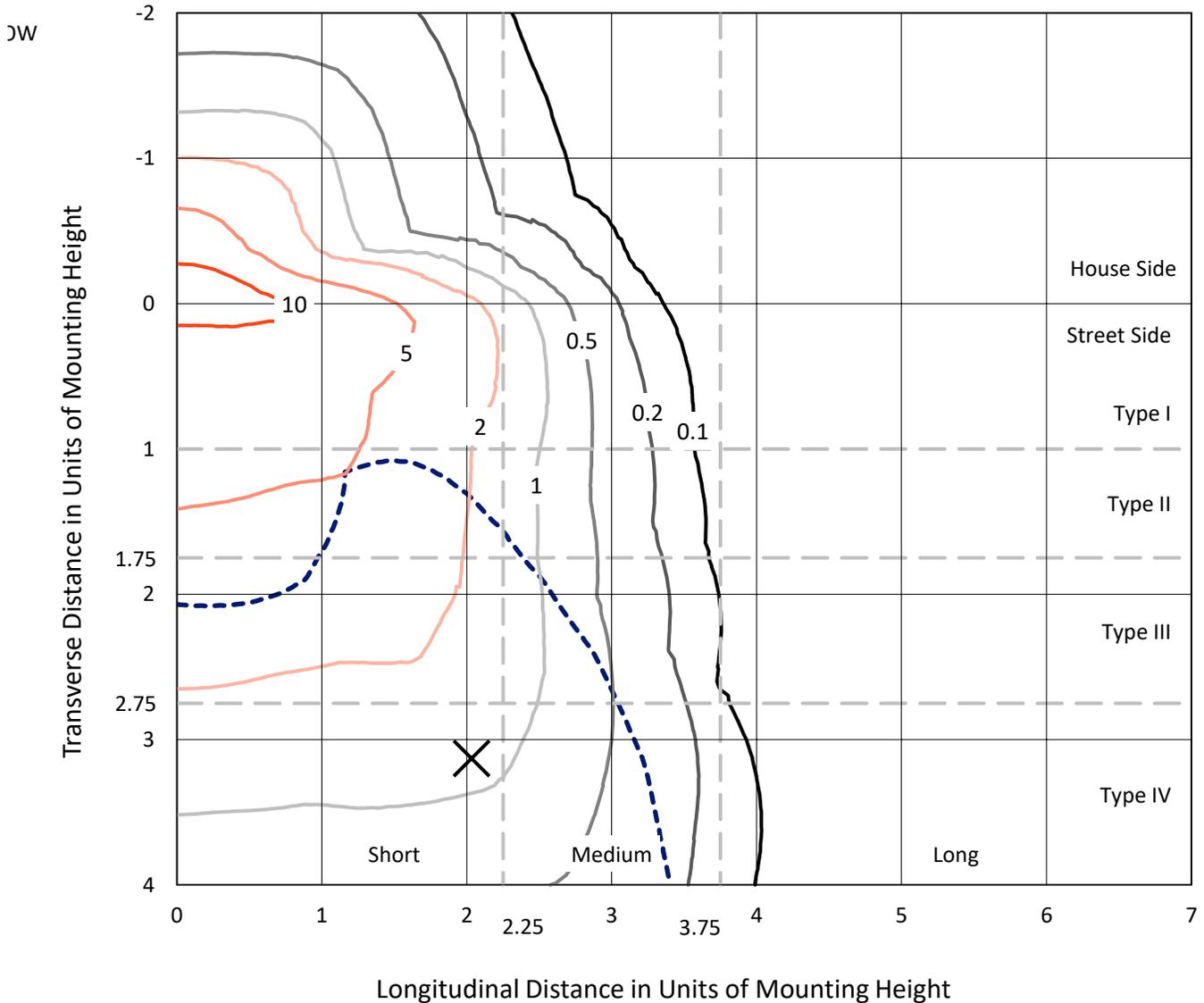
Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

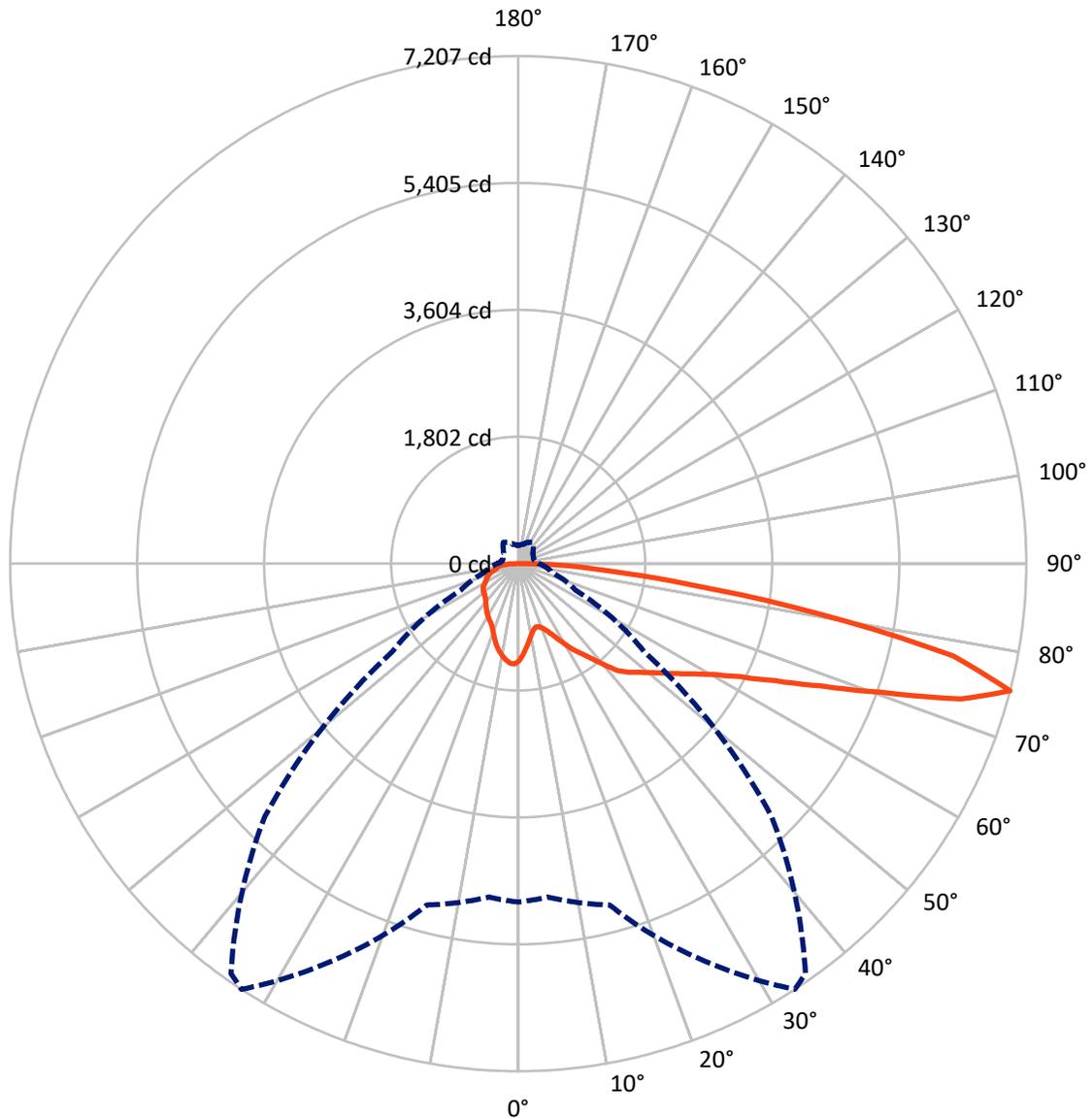
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1893.9	0.0	1893.9
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	6926.1	0.0	6926.1
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	8820.0	0.0	8820.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.7	1.4
10°-20°	337.7	3.8
20°-30°	551.5	6.3
30°-40°	821.3	9.3
40°-50°	1177.9	13.4
50°-60°	1617.1	18.3
60°-70°	2024.6	23.0
70°-80°	1831.6	20.8
80°-90°	333.6	3.8
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°	8820.0	100.0
0°-180°	8820.0	100.0



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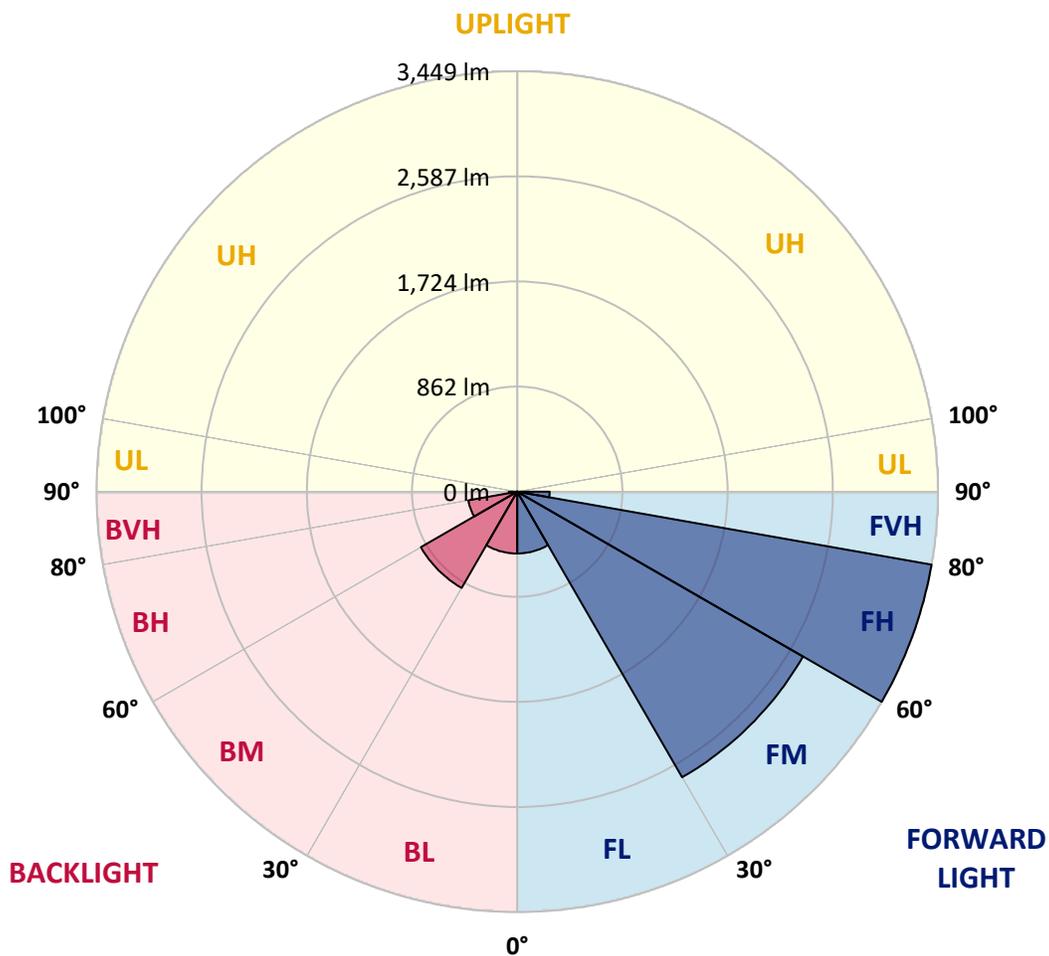
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	506.6	5.7			
FM	(30°-60°)	2704.9	30.7			
FH	(60°-80°)	3448.9	39.1			G2/5000
FVH	(80°-90°)	265.7	3.0			G3/500
BL	(0°-30°)	507.3	5.8	B2/1000		
BM	(30°-60°)	911.5	10.3	B1/1000		
BH	(60°-80°)	407.2	4.6	B1/500		G1/500
BVH	(80°-90°)	67.9	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	1378.6	1378.6	1378.6	1378.6	1378.6	1378.6	1378.6	1378.6	1378.6	1378.6	1378.6
2.5°	1280.2	1275.3	1284.5	1285.7	1293.6	1296.7	1307.6	1324.7	1338.7	1354.9	1369.5
5°	1164.1	1160.8	1173.6	1182.7	1200.1	1207.4	1233.3	1269.5	1301.8	1338.4	1371.6
7.5°	1053.8	1052.0	1066.3	1087.0	1107.2	1117.2	1162.0	1214.7	1268.6	1327.7	1378.6
10°	960.9	960.3	974.0	994.4	1024.0	1035.3	1093.1	1162.6	1238.2	1319.5	1390.5
12.5°	908.8	911.0	917.4	934.4	961.8	973.1	1037.4	1119.0	1212.6	1316.8	1407.9
15°	921.6	925.0	914.0	913.4	932.9	941.7	1002.0	1088.0	1194.3	1321.3	1433.2
17.5°	976.2	976.8	947.8	929.5	941.4	946.0	991.1	1070.3	1183.6	1331.7	1464.8
20°	1052.9	1051.4	1000.2	969.8	976.2	977.4	1006.6	1070.6	1182.7	1349.7	1506.0
22.5°	1154.7	1143.4	1074.6	1033.1	1031.6	1029.8	1046.5	1093.1	1196.1	1378.9	1555.0
25°	1287.5	1276.9	1182.1	1125.4	1113.3	1108.7	1111.1	1141.3	1222.6	1410.3	1609.9
27.5°	1435.3	1416.7	1325.3	1245.2	1219.9	1213.5	1198.9	1209.2	1251.6	1440.5	1675.1
30°	1559.0	1548.9	1469.1	1374.0	1344.2	1335.0	1296.7	1285.4	1293.3	1481.6	1757.3
32.5°	1628.1	1621.4	1573.0	1496.2	1468.5	1455.7	1401.5	1378.9	1360.3	1546.5	1868.8
35°	1711.9	1707.7	1678.4	1622.7	1581.5	1568.1	1526.1	1502.6	1454.8	1635.8	2012.9
37.5°	1818.6	1814.0	1814.6	1769.5	1720.5	1708.0	1680.2	1655.6	1577.3	1753.1	2169.5
40°	1939.2	1930.4	1927.0	1924.9	1893.8	1886.8	1872.2	1838.7	1730.8	1893.2	2324.0
42.5°	2120.8	2089.4	2022.4	2047.7	2078.4	2074.8	2086.7	2038.5	1901.4	2058.9	2474.8
45°	2296.0	2244.5	2128.7	2134.2	2201.5	2221.9	2310.9	2276.8	2086.4	2240.5	2630.8
47.5°	2375.8	2336.8	2238.4	2238.7	2305.4	2347.8	2542.7	2518.4	2280.7	2446.8	2821.2
50°	2465.1	2426.1	2337.7	2370.9	2429.1	2474.2	2766.7	2754.2	2465.7	2672.5	3049.4
52.5°	2562.5	2496.4	2440.4	2499.8	2581.4	2633.8	2990.9	2956.8	2635.4	2899.8	3311.7
55°	2563.8	2545.8	2588.4	2632.0	2754.2	2818.5	3225.8	3135.6	2773.7	3123.1	3525.3
57.5°	2709.7	2680.5	2770.9	2791.0	2950.7	3023.2	3459.5	3291.3	2914.4	3294.4	3640.5
60°	2902.9	2877.9	2951.9	3004.9	3193.8	3290.7	3709.0	3451.3	3025.0	3423.5	3635.0
62.5°	3236.5	3208.1	3207.2	3281.6	3536.0	3648.7	3989.0	3608.2	3068.9	3449.1	3479.9
65°	3724.9	3679.8	3594.8	3630.1	4008.5	4120.9	4301.9	3721.8	3011.0	3312.0	3080.5
67.5°	4200.1	4198.6	4094.1	4166.6	4632.5	4722.6	4658.3	3733.1	2830.4	2834.6	2371.8
70°	4673.9	4680.0	4662.3	4914.6	5475.5	5569.3	5038.0	3581.7	2424.2	2047.1	1421.0
72.5°	5049.2	5047.7	5136.7	5787.1	6569.5	6548.5	5357.9	3122.8	1740.6	1105.0	679.1
75°	4806.1	4753.1	5018.2	6219.2	7207.2	7104.5	5085.8	2178.4	903.3	503.0	365.6
77.5°	3134.7	3185.0	3574.0	5137.6	6304.2	6179.2	3731.2	1016.4	425.6	330.0	265.1
80°	1135.2	1188.2	1673.5	2910.2	4343.3	4322.9	1837.4	417.7	287.9	249.2	193.2
82.5°	390.6	410.1	660.2	1292.4	2452.3	2543.7	691.3	237.3	209.3	176.7	132.2
85°	153.2	175.5	301.9	621.8	1236.9	1246.1	280.0	142.0	145.6	115.8	72.5
87.5°	58.2	70.7	144.4	288.8	564.9	518.8	100.2	67.6	82.9	68.9	34.4
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°	1378.6	1378.6	1378.6	1378.6	1378.6	1378.6	1378.6	1378.6	1378.6	1378.6	1378.6
2.5°	1380.7	1387.1	1400.6	1409.7	1419.4	1422.2	1423.4	1425.8	1428.3	1427.4	1427.7
5°	1389.3	1401.8	1423.4	1432.5	1436.8	1431.9	1422.5	1414.9	1409.4	1406.3	1405.4
7.5°	1403.3	1421.0	1444.1	1442.6	1432.8	1411.2	1386.8	1368.6	1353.3	1347.8	1344.8
10°	1421.9	1442.6	1458.7	1441.4	1413.0	1375.6	1339.0	1310.7	1287.8	1279.0	1277.5
12.5°	1445.6	1466.7	1469.7	1432.8	1385.9	1334.7	1285.1	1247.6	1213.5	1202.5	1200.1
15°	1476.4	1496.2	1477.3	1417.9	1352.4	1283.6	1219.3	1168.4	1132.4	1119.0	1114.2
17.5°	1508.7	1527.6	1478.9	1393.2	1308.5	1222.9	1142.2	1090.1	1049.0	1033.4	1031.6
20°	1547.4	1555.9	1472.5	1357.9	1248.2	1144.3	1059.3	1010.3	988.3	977.4	976.2
22.5°	1595.2	1586.1	1457.8	1310.1	1171.7	1053.5	984.4	961.5	956.0	953.6	954.5
25°	1645.8	1617.8	1436.2	1247.6	1075.2	962.7	929.5	935.9	943.2	942.3	942.3
27.5°	1701.6	1650.1	1403.0	1164.7	968.2	888.4	892.4	915.8	926.8	926.5	926.2
30°	1773.2	1686.6	1360.6	1065.1	868.3	836.0	860.1	888.7	903.6	903.0	903.3
32.5°	1861.2	1726.8	1303.1	953.9	796.1	797.3	825.0	853.4	870.7	869.2	869.5
35°	1964.2	1771.9	1225.1	844.2	748.3	766.5	788.5	808.3	824.7	822.6	820.5
37.5°	2076.3	1816.1	1121.5	746.1	709.3	737.9	756.2	759.5	767.1	761.7	757.7
40°	2182.9	1849.9	988.0	665.7	670.0	713.5	725.4	712.0	698.3	696.5	691.0
42.5°	2275.9	1861.2	853.1	601.4	628.5	687.9	695.2	667.2	642.5	631.0	626.1
45°	2374.0	1865.2	727.2	547.5	588.6	665.1	673.0	635.5	600.8	575.8	567.6
47.5°	2502.2	1893.8	629.4	507.6	558.1	649.9	661.1	610.2	565.2	529.5	521.9
50°	2670.1	1950.5	549.9	477.1	538.3	639.8	652.6	585.6	535.9	493.0	485.3
52.5°	2856.6	2002.6	485.6	452.4	519.2	622.1	641.6	567.9	508.5	459.1	450.9
55°	2986.9	1962.7	433.8	426.8	494.2	596.8	626.4	553.0	469.2	426.2	418.9
57.5°	3011.9	1826.2	394.5	400.3	464.0	565.2	602.9	519.8	447.9	411.9	404.3
60°	2943.7	1636.1	365.3	376.0	431.7	525.2	559.1	496.3	427.4	396.7	390.3
62.5°	2772.2	1441.4	343.7	354.0	401.6	484.7	531.6	471.6	406.7	379.3	372.9
65°	2425.8	1210.1	322.9	334.5	373.5	449.7	507.0	448.8	386.3	365.3	359.2
67.5°	1831.0	906.4	303.4	313.8	348.5	419.2	480.2	426.2	366.5	353.1	345.8
70°	1078.2	567.6	281.2	292.2	322.3	387.5	451.5	401.6	341.8	335.7	326.3
72.5°	501.8	341.5	255.9	266.6	289.4	345.2	414.7	369.3	312.6	299.2	286.4
75°	299.5	249.8	226.1	235.5	251.7	300.1	368.3	336.4	284.9	267.2	253.8
77.5°	223.9	191.0	193.2	203.2	216.3	262.6	326.3	310.5	263.5	249.8	240.7
80°	161.2	145.0	157.5	168.5	182.2	238.9	312.6	287.0	238.2	220.0	211.4
82.5°	107.5	104.2	118.5	129.8	143.2	209.0	293.7	251.3	203.5	180.4	161.5
85°	59.4	62.8	79.8	84.7	96.3	147.2	240.7	202.0	153.2	123.4	117.9
87.5°	24.7	28.9	43.0	41.4	51.2	87.7	158.4	121.9	97.5	72.8	56.7
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)