

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: P1209008

Luminaire Tested: UPW-SA2-090-727-U-T4W

Issue Date: 11/4/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1209008  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 2/19/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: UPW-SA2-090-727-U-T4W  
Description: UNDERPASS WALL MOUNT LUMINAIRE  
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9904 lumens  
Efficiency: N/A  
Efficacy: 115.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - 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

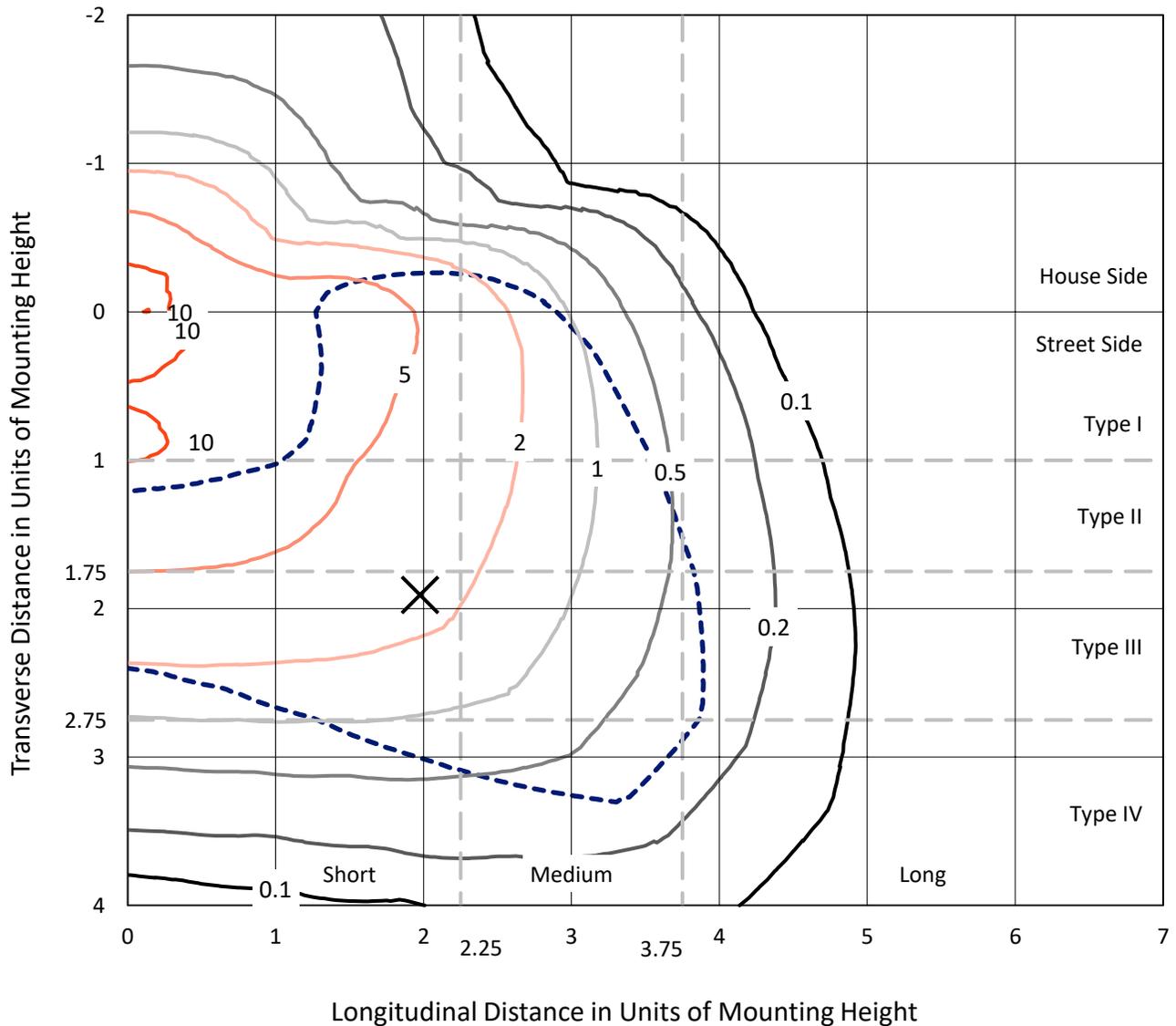


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### Iso-Footcandle Lines of Horizontal Illumination

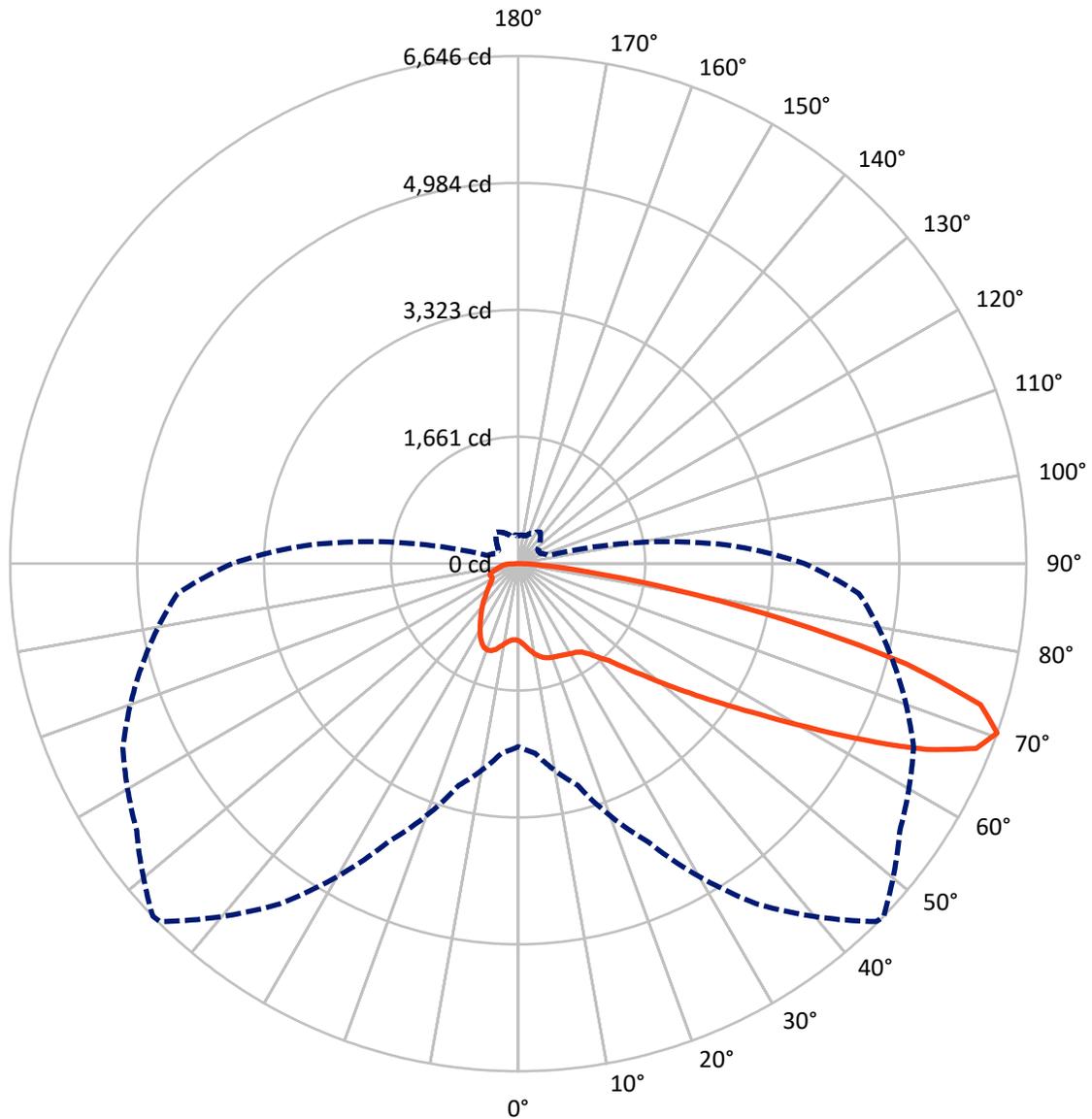
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2270.0	0.0	2270.0
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	7634.0	0.0	7634.0
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	9904.0	0.0	9904.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.9	1.0
10°-20°	342.7	3.5
20°-30°	571.4	5.8
30°-40°	810.9	8.2
40°-50°	1192.8	12.0
50°-60°	2020.0	20.4
60°-70°	2867.3	29.0
70°-80°	1741.9	17.6
80°-90°	254.2	2.6
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°	9904.0	100.0
0°-180°	9904.0	100.0

**Coefficient of Utilization**



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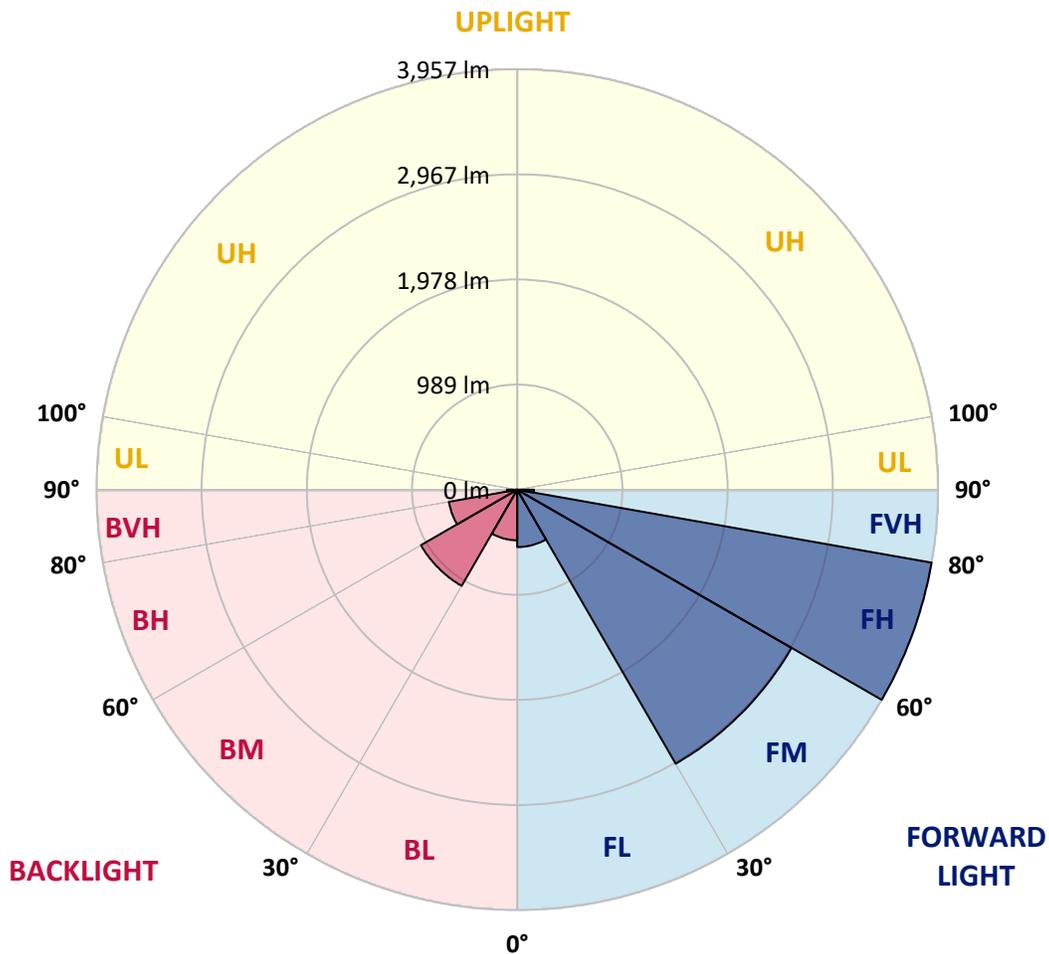
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	540.4	5.5			
FM	(30°-60°)	2978.7	30.1			
FH	(60°-80°)	3956.6	39.9			G2/5000
FVH	(80°-90°)	158.4	1.6			G2/225
BL	(0°-30°)	476.6	4.8	B1/500		
BM	(30°-60°)	1044.9	10.6	B2/2500		
BH	(60°-80°)	652.6	6.6	B2/1000		G2/1000
BVH	(80°-90°)	95.9	1.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1009.0	1009.0	1009.0	1009.0	1009.0	1009.0	1009.0	1009.0	1009.0	1009.0	1009.0
2.5°	1059.5	1060.2	1061.6	1058.2	1048.7	1046.0	1045.0	1035.1	1028.7	1019.2	1011.1
5°	1144.3	1144.9	1142.9	1133.4	1112.4	1096.8	1095.5	1073.1	1052.7	1031.1	1014.8
7.5°	1232.7	1233.7	1227.3	1209.3	1179.8	1152.7	1151.0	1120.5	1089.7	1056.8	1032.4
10°	1311.0	1307.0	1296.4	1271.4	1236.5	1203.2	1201.9	1170.0	1134.4	1094.8	1062.2
12.5°	1363.2	1359.8	1346.3	1315.8	1277.5	1247.0	1244.2	1214.8	1180.2	1136.8	1097.8
15°	1392.0	1394.4	1376.1	1341.5	1304.2	1278.5	1276.1	1255.1	1224.3	1180.5	1135.8
17.5°	1395.8	1397.8	1380.2	1345.9	1315.4	1297.8	1296.8	1282.9	1260.5	1218.5	1171.7
20°	1374.1	1375.4	1360.8	1332.7	1312.7	1307.3	1307.0	1300.9	1284.2	1247.0	1201.5
22.5°	1342.5	1343.6	1333.1	1312.7	1305.9	1314.4	1316.8	1314.4	1302.5	1267.6	1224.9
25°	1334.7	1334.1	1323.2	1302.5	1308.3	1326.3	1329.3	1330.3	1322.2	1291.7	1254.8
27.5°	1372.4	1370.0	1349.3	1316.1	1319.8	1341.5	1345.6	1355.4	1350.3	1323.6	1288.6
30°	1481.2	1477.1	1434.7	1367.6	1349.3	1360.5	1365.6	1381.2	1382.2	1359.8	1333.7
32.5°	1664.9	1659.8	1583.9	1463.9	1399.1	1379.8	1384.6	1408.0	1420.5	1403.2	1375.1
35°	1897.0	1891.3	1791.6	1627.6	1482.5	1416.8	1420.2	1438.8	1463.9	1439.5	1402.2
37.5°	2139.0	2125.2	2029.2	1820.1	1615.0	1495.7	1495.7	1498.1	1510.0	1459.1	1434.1
40°	2379.7	2365.8	2279.0	2046.5	1786.6	1620.1	1612.3	1559.8	1550.3	1506.6	1498.1
42.5°	2603.4	2599.3	2548.1	2302.4	1987.9	1742.5	1731.6	1642.5	1644.5	1617.4	1617.8
45°	2841.3	2841.3	2799.6	2560.7	2222.4	1939.1	1928.2	1797.1	1817.4	1804.9	1835.0
47.5°	3035.5	3041.6	3035.9	2829.8	2495.3	2188.9	2169.2	2011.3	2068.2	2111.3	2199.0
50°	3233.8	3243.3	3244.3	3125.0	2825.1	2485.8	2463.4	2295.6	2422.7	2546.1	2718.6
52.5°	3521.6	3542.9	3457.9	3419.6	3229.1	2838.3	2816.3	2661.4	2873.5	3046.7	3344.0
55°	3788.3	3769.7	3709.0	3732.7	3661.6	3239.6	3223.0	3087.1	3375.8	3600.9	3986.9
57.5°	3932.7	3931.4	3992.4	4094.1	4127.9	3734.4	3720.5	3588.4	3942.2	4111.3	4590.6
60°	4102.2	4104.6	4255.7	4486.5	4626.2	4350.6	4344.5	4244.2	4492.3	4587.9	5064.1
62.5°	4125.9	4168.6	4428.9	4826.2	5092.6	5070.5	5084.1	4835.0	4984.4	4968.2	5417.6
65°	3853.1	3909.3	4380.5	4928.9	5556.2	5857.9	5870.4	5429.1	5372.5	5293.2	5544.0
67.5°	3293.8	3377.2	3889.0	4705.5	5709.1	6439.9	6457.5	5889.8	5694.5	5403.4	5239.7
70°	2397.0	2489.5	3004.7	4018.8	5436.6	6625.9	6645.9	6093.5	5706.7	5089.9	4473.0
72.5°	1448.0	1520.5	1945.2	2958.6	4588.6	6287.0	6322.6	5835.2	5210.2	4311.3	3303.0
75°	635.9	683.3	940.6	1704.9	3285.0	5201.7	5246.1	4994.6	4233.4	3133.2	1952.3
77.5°	270.8	284.4	385.7	740.6	1857.1	3554.5	3615.5	3649.4	2872.2	1704.9	825.0
80°	168.8	174.2	218.3	335.2	869.0	1996.4	2062.1	2147.2	1426.3	626.7	288.1
82.5°	102.7	108.8	145.1	202.7	452.5	905.0	936.5	996.5	553.5	270.8	149.1
85°	61.7	66.1	88.8	128.1	257.6	355.9	355.5	393.2	260.6	174.2	78.6
87.5°	29.5	32.9	47.5	66.4	129.8	133.5	125.1	141.7	158.3	114.2	39.7
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°	1009.0	1009.0	1009.0	1009.0	1009.0	1009.0	1009.0	1009.0	1009.0	1009.0	1009.0
2.5°	1008.3	1007.0	1002.6	999.2	998.5	996.5	994.8	995.8	997.2	997.5	997.5
5°	1008.0	1004.3	998.5	996.1	999.2	1003.3	1008.3	1015.1	1019.2	1022.2	1024.3
7.5°	1024.3	1017.2	1010.7	1009.4	1015.5	1026.3	1037.8	1052.1	1061.9	1068.7	1070.0
10°	1051.4	1042.6	1036.1	1037.5	1048.3	1063.9	1080.2	1098.5	1113.4	1122.6	1123.2
12.5°	1082.6	1074.1	1068.0	1073.8	1091.7	1110.7	1127.7	1143.6	1157.1	1166.3	1166.3
15°	1118.5	1112.4	1105.3	1118.5	1142.9	1159.9	1167.0	1174.8	1182.2	1189.0	1187.6
17.5°	1153.1	1147.3	1143.6	1159.2	1184.6	1192.4	1187.6	1181.9	1181.9	1185.6	1186.3
20°	1182.9	1177.8	1180.2	1195.4	1208.7	1200.5	1182.9	1164.6	1157.1	1159.2	1161.2
22.5°	1209.0	1206.6	1213.7	1220.9	1211.4	1182.9	1150.4	1125.6	1116.5	1115.8	1116.5
25°	1239.5	1239.2	1248.0	1235.1	1193.1	1140.5	1096.8	1072.7	1067.7	1071.7	1078.5
27.5°	1277.5	1281.2	1285.6	1238.5	1155.8	1076.5	1032.1	1015.5	1020.5	1030.4	1036.8
30°	1325.9	1336.1	1326.6	1230.0	1102.2	1003.3	960.9	956.1	970.0	983.9	990.7
32.5°	1373.0	1389.0	1365.9	1208.0	1033.1	925.6	892.8	891.4	908.4	921.9	931.4
35°	1411.0	1442.5	1395.4	1164.3	953.1	854.1	830.1	820.9	827.0	842.9	853.8
37.5°	1460.5	1513.0	1415.8	1097.5	866.3	795.2	767.0	746.0	740.6	747.0	752.4
40°	1551.0	1620.5	1425.2	1004.3	781.6	736.2	707.7	676.9	655.5	639.9	640.3
42.5°	1698.8	1760.5	1419.1	891.1	703.3	678.6	646.4	610.8	576.2	540.9	538.2
45°	1938.7	1968.6	1400.8	771.1	634.5	618.2	588.1	552.5	506.4	466.4	462.7
47.5°	2322.8	2256.7	1372.4	666.4	573.8	567.0	539.3	498.2	449.4	417.2	414.5
50°	2846.4	2672.5	1358.5	583.0	520.3	522.3	499.6	456.2	410.1	386.4	383.7
52.5°	3472.8	3156.9	1385.2	518.6	477.2	484.3	467.4	426.7	388.1	369.4	366.7
55°	4122.5	3658.5	1414.1	471.8	436.6	450.5	444.7	411.1	376.2	358.9	356.6
57.5°	4678.7	4033.0	1356.4	433.8	400.3	422.0	427.1	401.3	370.1	354.5	351.8
60°	5028.8	4183.9	1205.3	398.3	371.5	399.3	416.9	398.6	372.5	371.1	369.1
62.5°	5194.9	4170.7	978.5	370.1	353.5	389.4	424.4	413.8	399.6	411.8	412.8
65°	5120.4	3971.4	728.7	351.5	340.6	393.2	446.7	442.7	407.4	419.6	421.3
67.5°	4629.6	3495.8	539.6	335.2	326.4	403.7	487.4	452.1	392.2	401.0	395.5
70°	3741.9	2771.5	416.2	316.9	311.8	402.3	505.7	446.4	375.5	377.6	363.0
72.5°	2580.3	1889.9	338.6	300.0	290.8	366.7	492.8	432.1	361.6	346.1	326.7
75°	1403.2	1014.4	287.8	282.3	253.9	322.0	469.1	422.0	349.1	328.4	317.6
77.5°	552.1	421.0	249.8	258.3	222.0	284.4	442.7	402.7	331.8	304.7	299.3
80°	225.4	214.9	207.1	223.4	190.8	248.8	410.8	380.0	311.1	282.7	271.8
82.5°	127.8	133.5	161.0	176.2	154.9	229.1	395.5	361.6	286.4	253.2	240.3
85°	65.4	78.3	112.2	126.4	113.9	194.9	364.4	316.6	229.8	193.9	194.9
87.5°	31.5	43.7	70.8	79.3	73.9	141.0	272.2	229.5	179.0	141.7	137.3
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)