

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: P1209170

Luminaire Tested: UPW-SA2-090-827-U-T4W

Issue Date: 11/4/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1209170  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 2/21/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: UPW-SA2-090-827-U-T4W  
Description: UNDERPASS WALL MOUNT LUMINAIRE  
(2) 80 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: 8706 lumens  
Efficiency: N/A  
Efficacy: 102.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2

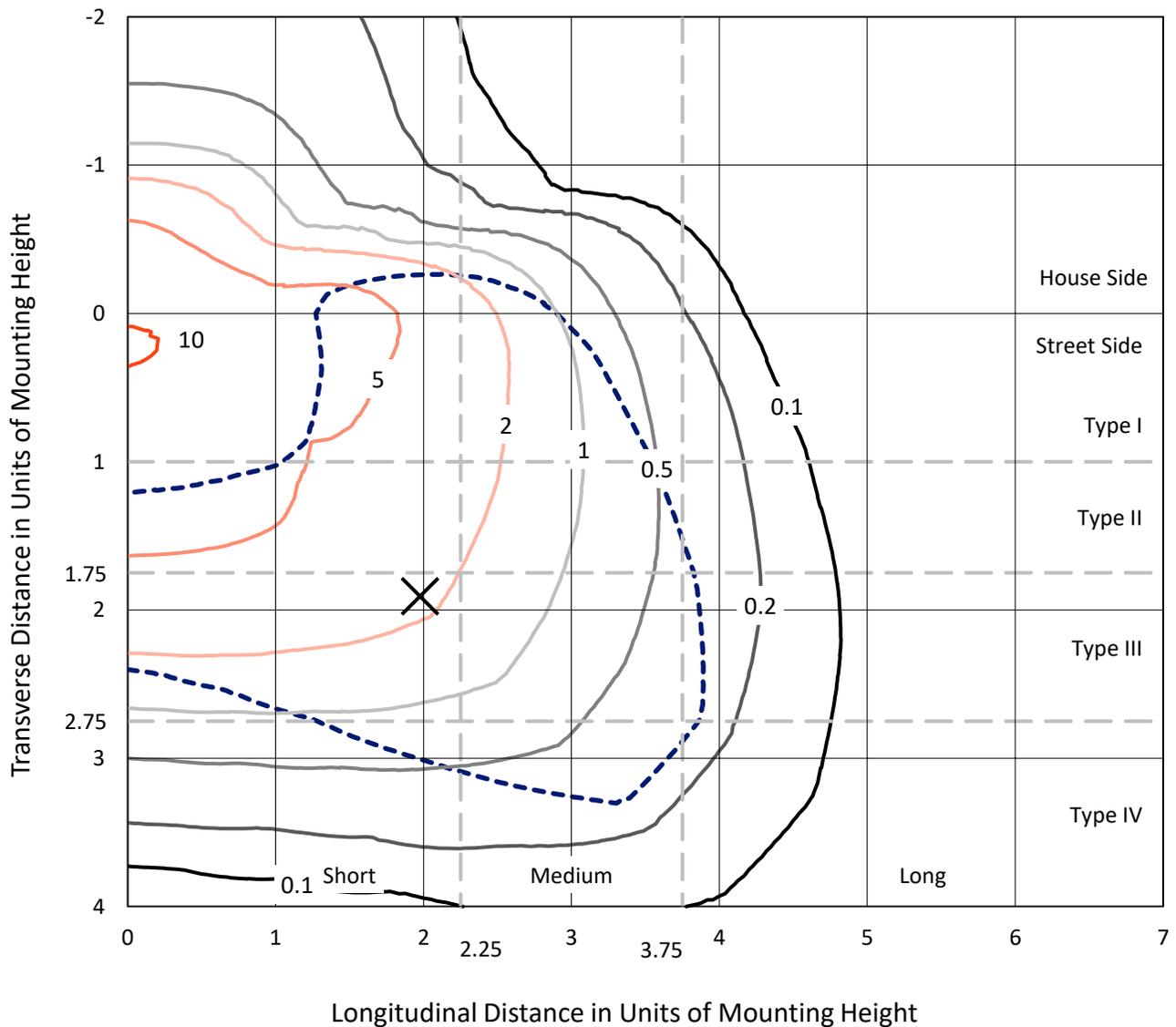
Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

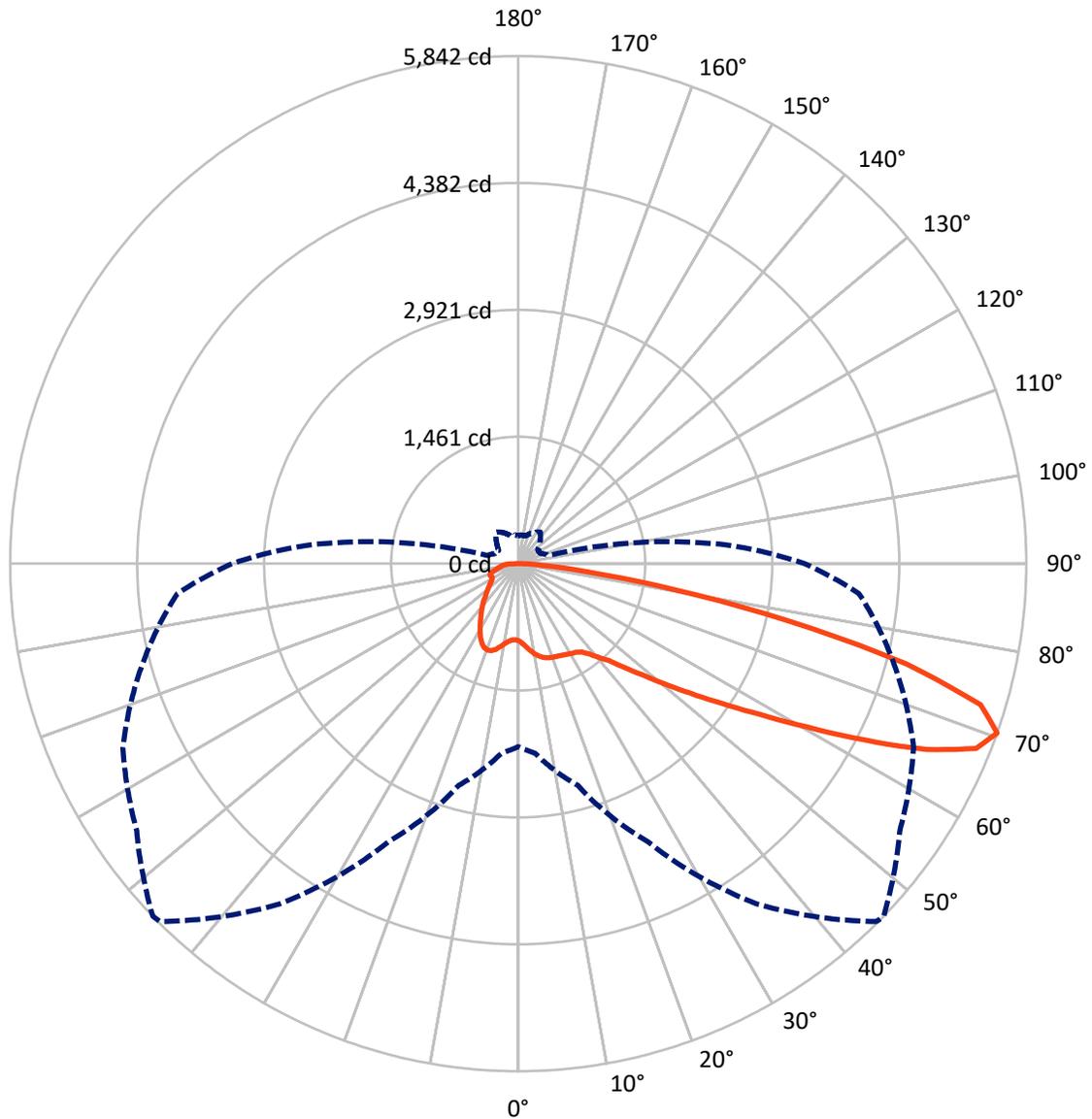
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.1 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	1995.4	0.0	1995.4
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	6710.6	0.0	6710.6
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	8706.0	0.0	8706.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.4	1.0
10°-20°	301.3	3.5
20°-30°	502.3	5.8
30°-40°	712.8	8.2
40°-50°	1048.5	12.0
50°-60°	1775.6	20.4
60°-70°	2520.5	29.0
70°-80°	1531.2	17.6
80°-90°	223.5	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°	8706.0	100.0
0°-180°	8706.0	100.0



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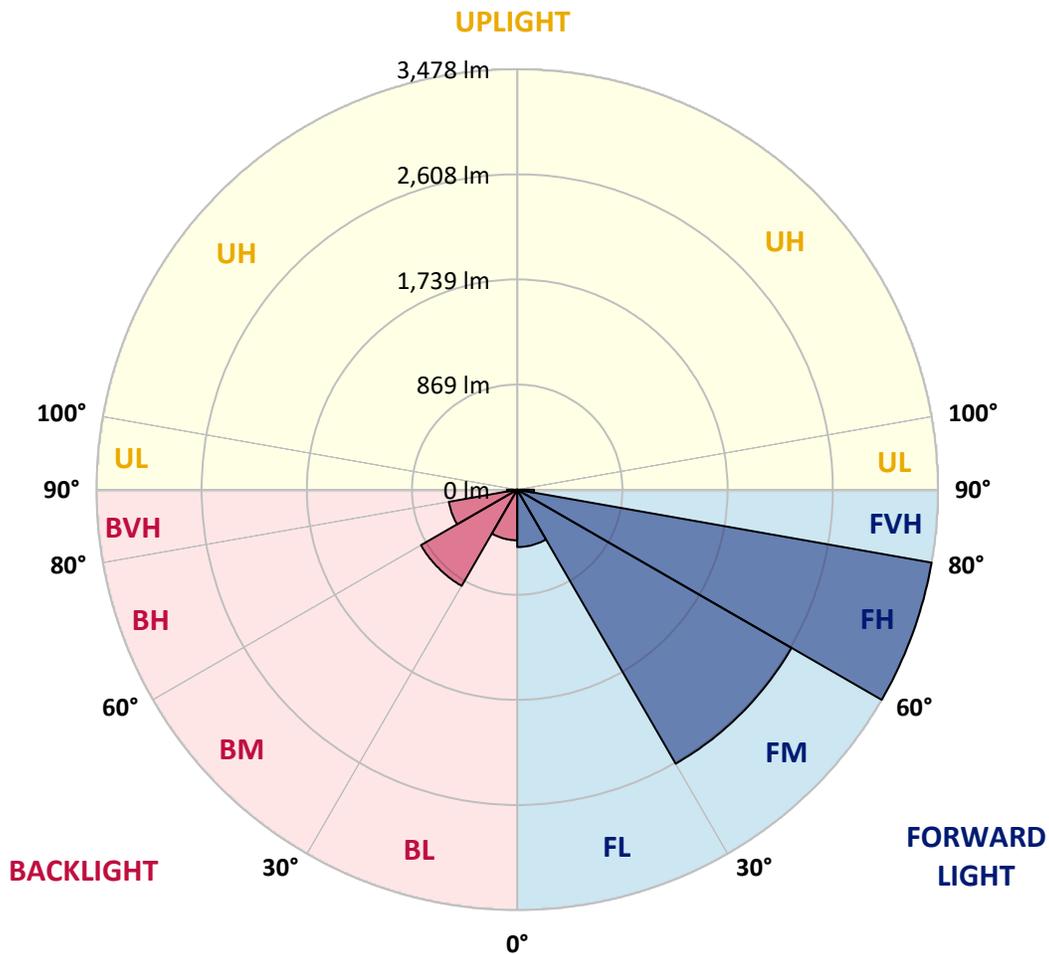
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	475.0	5.5			
FM	(30°-60°)	2618.4	30.1			
FH	(60°-80°)	3478.0	39.9			G2/5000
FVH	(80°-90°)	139.2	1.6			G2/225
BL	(0°-30°)	418.9	4.8	B1/500		
BM	(30°-60°)	918.5	10.6	B1/1000		
BH	(60°-80°)	573.7	6.6	B2/1000		G2/1000
BVH	(80°-90°)	84.3	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°	887.0	887.0	887.0	887.0	887.0	887.0	887.0	887.0	887.0	887.0	887.0
2.5°	931.4	932.0	933.2	930.2	921.8	919.4	918.6	909.9	904.3	895.9	888.8
5°	1005.8	1006.4	1004.7	996.3	977.8	964.1	962.9	943.3	925.4	906.3	892.0
7.5°	1083.6	1084.5	1078.8	1063.1	1037.1	1013.3	1011.8	985.0	957.9	929.0	907.5
10°	1152.4	1148.9	1139.6	1117.6	1086.9	1057.7	1056.5	1028.5	997.2	962.4	933.7
12.5°	1198.3	1195.3	1183.4	1156.6	1122.9	1096.1	1093.7	1067.8	1037.4	999.3	965.0
15°	1223.6	1225.7	1209.6	1179.3	1146.5	1123.8	1121.7	1103.3	1076.2	1037.7	998.4
17.5°	1226.9	1228.7	1213.2	1183.1	1156.3	1140.8	1139.9	1127.7	1108.0	1071.1	1030.0
20°	1207.9	1209.0	1196.2	1171.5	1153.9	1149.2	1148.9	1143.5	1128.9	1096.1	1056.2
22.5°	1180.1	1181.0	1171.8	1153.9	1148.0	1155.4	1157.5	1155.4	1145.0	1114.3	1076.8
25°	1173.3	1172.7	1163.2	1145.0	1150.1	1165.8	1168.5	1169.4	1162.3	1135.5	1103.0
27.5°	1206.4	1204.3	1186.1	1156.9	1160.2	1179.3	1182.8	1191.5	1187.0	1163.5	1132.8
30°	1302.0	1298.4	1261.2	1202.2	1186.1	1195.9	1200.4	1214.1	1215.0	1195.3	1172.4
32.5°	1463.5	1459.0	1392.3	1286.8	1229.9	1212.9	1217.1	1237.6	1248.7	1233.5	1208.7
35°	1667.6	1662.5	1574.9	1430.7	1303.2	1245.4	1248.4	1264.8	1286.8	1265.4	1232.6
37.5°	1880.3	1868.1	1783.8	1599.9	1419.7	1314.8	1314.8	1316.9	1327.3	1282.6	1260.6
40°	2091.8	2079.6	2003.4	1799.0	1570.4	1424.2	1417.3	1371.1	1362.8	1324.3	1316.9
42.5°	2288.5	2284.9	2239.9	2023.9	1747.4	1531.7	1522.2	1443.8	1445.6	1421.8	1422.1
45°	2497.6	2497.6	2461.0	2250.9	1953.6	1704.5	1695.0	1579.7	1597.6	1586.5	1613.1
47.5°	2668.4	2673.7	2668.7	2487.5	2193.4	1924.1	1906.8	1768.0	1818.0	1855.9	1933.0
50°	2842.7	2851.0	2851.9	2747.0	2483.3	2185.1	2165.4	2018.0	2129.7	2238.1	2389.8
52.5°	3095.6	3114.4	3039.6	3005.9	2838.5	2495.0	2475.6	2339.4	2525.9	2678.2	2939.5
55°	3330.1	3313.7	3260.4	3281.2	3218.7	2847.7	2833.1	2713.6	2967.5	3165.3	3504.7
57.5°	3457.0	3455.8	3509.4	3598.8	3628.6	3282.7	3270.5	3154.3	3465.4	3614.0	4035.3
60°	3606.0	3608.1	3740.9	3943.8	4066.6	3824.4	3819.0	3730.8	3948.9	4032.9	4451.5
62.5°	3626.8	3664.4	3893.2	4242.4	4476.6	4457.2	4469.1	4250.1	4381.5	4367.2	4762.3
65°	3387.0	3436.5	3850.6	4332.7	4884.2	5149.3	5160.3	4772.4	4722.7	4652.9	4873.4
67.5°	2895.4	2968.7	3418.6	4136.3	5018.5	5660.9	5676.4	5177.3	5005.7	4749.8	4605.9
70°	2107.0	2188.4	2641.2	3532.7	4779.0	5824.5	5842.0	5356.4	5016.4	4474.2	3931.9
72.5°	1272.8	1336.6	1709.9	2600.7	4033.5	5526.5	5557.8	5129.4	4580.0	3789.8	2903.4
75°	558.9	600.6	826.8	1498.6	2887.6	4572.5	4611.5	4390.5	3721.3	2754.2	1716.1
77.5°	238.1	250.0	339.1	651.0	1632.4	3124.5	3178.1	3207.9	2524.8	1498.6	725.2
80°	148.4	153.1	191.9	294.7	763.9	1754.9	1812.7	1887.5	1253.7	550.9	253.3
82.5°	90.3	95.6	127.5	178.2	397.8	795.5	823.2	875.9	486.5	238.1	131.1
85°	54.2	58.1	78.1	112.6	226.4	312.8	312.5	345.6	229.1	153.1	69.1
87.5°	25.9	28.9	41.7	58.4	114.1	117.4	109.9	124.5	139.1	100.4	34.9
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°	887.0	887.0	887.0	887.0	887.0	887.0	887.0	887.0	887.0	887.0	887.0
2.5°	886.4	885.2	881.3	878.3	877.7	875.9	874.5	875.4	876.5	876.8	876.8
5°	886.1	882.8	877.7	875.6	878.3	881.9	886.4	892.3	895.9	898.6	900.4
7.5°	900.4	894.1	888.5	887.3	892.6	902.2	912.3	924.8	933.4	939.4	940.6
10°	924.2	916.5	910.8	912.0	921.5	935.2	949.5	965.6	978.7	986.8	987.4
12.5°	951.6	944.2	938.8	943.9	959.7	976.4	991.3	1005.3	1017.2	1025.2	1025.2
15°	983.2	977.8	971.6	983.2	1004.7	1019.6	1025.8	1032.7	1039.2	1045.2	1044.0
17.5°	1013.6	1008.5	1005.3	1019.0	1041.3	1048.2	1044.0	1038.9	1038.9	1042.2	1042.8
20°	1039.8	1035.3	1037.4	1050.8	1062.5	1055.3	1039.8	1023.7	1017.2	1019.0	1020.7
22.5°	1062.8	1060.7	1066.9	1073.2	1064.8	1039.8	1011.2	989.5	981.4	980.8	981.4
25°	1089.6	1089.3	1097.0	1085.7	1048.8	1002.6	964.1	943.0	938.5	942.1	948.0
27.5°	1122.9	1126.2	1130.1	1088.7	1016.0	946.3	907.2	892.6	897.1	905.7	911.4
30°	1165.5	1174.5	1166.1	1081.2	968.9	881.9	844.7	840.5	852.7	864.9	870.9
32.5°	1207.0	1221.0	1200.7	1061.9	908.1	813.7	784.8	783.6	798.5	810.4	818.7
35°	1240.3	1268.0	1226.6	1023.4	837.8	750.8	729.7	721.6	727.0	741.0	750.5
37.5°	1283.8	1330.0	1244.5	964.7	761.5	699.0	674.2	655.8	651.0	656.7	661.4
40°	1363.4	1424.5	1252.8	882.8	687.1	647.1	622.1	595.0	576.2	562.5	562.8
42.5°	1493.3	1547.5	1247.5	783.3	618.2	596.5	568.2	536.9	506.5	475.5	473.1
45°	1704.2	1730.4	1231.4	677.8	557.7	543.4	516.9	485.6	445.1	410.0	406.7
47.5°	2041.8	1983.7	1206.4	585.8	504.4	498.5	474.0	438.0	395.1	366.8	364.4
50°	2502.1	2349.3	1194.1	512.5	457.3	459.1	439.2	401.0	360.5	339.7	337.3
52.5°	3052.7	2775.0	1217.7	455.9	419.5	425.8	410.9	375.1	341.1	324.8	322.4
55°	3623.9	3216.0	1243.0	414.7	383.7	396.0	390.9	361.4	330.7	315.5	313.4
57.5°	4112.8	3545.2	1192.4	381.4	351.9	370.9	375.4	352.8	325.4	311.6	309.3
60°	4420.6	3677.8	1059.5	350.1	326.5	351.0	366.5	350.4	327.4	326.2	324.5
62.5°	4566.5	3666.2	860.2	325.4	310.8	342.3	373.0	363.8	351.3	362.0	362.9
65°	4501.0	3491.0	640.6	309.0	299.4	345.6	392.7	389.1	358.1	368.9	370.3
67.5°	4069.6	3073.0	474.3	294.7	286.9	354.8	428.4	397.5	344.7	352.5	347.7
70°	3289.3	2436.3	365.9	278.6	274.1	353.7	444.5	392.4	330.1	331.9	319.1
72.5°	2268.2	1661.3	297.6	263.7	255.6	322.4	433.2	379.9	317.9	304.2	287.2
75°	1233.5	891.7	253.0	248.2	223.2	283.0	412.4	370.9	306.9	288.7	279.2
77.5°	485.3	370.0	219.6	227.0	195.2	250.0	389.1	354.0	291.7	267.8	263.1
80°	198.1	188.9	182.0	196.3	167.7	218.7	361.1	334.0	273.5	248.5	238.9
82.5°	112.3	117.4	141.5	154.9	136.2	201.4	347.7	317.9	251.8	222.6	211.2
85°	57.5	68.8	98.6	111.1	100.1	171.3	320.3	278.3	202.0	170.4	171.3
87.5°	27.7	38.4	62.3	69.7	65.0	123.9	239.2	201.7	157.3	124.5	120.7
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)