

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: P1208765

Luminaire Tested: UPW-SA2-070-727-U-T4W

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1208765
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-SA2-070-727-U-T4W
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8076 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

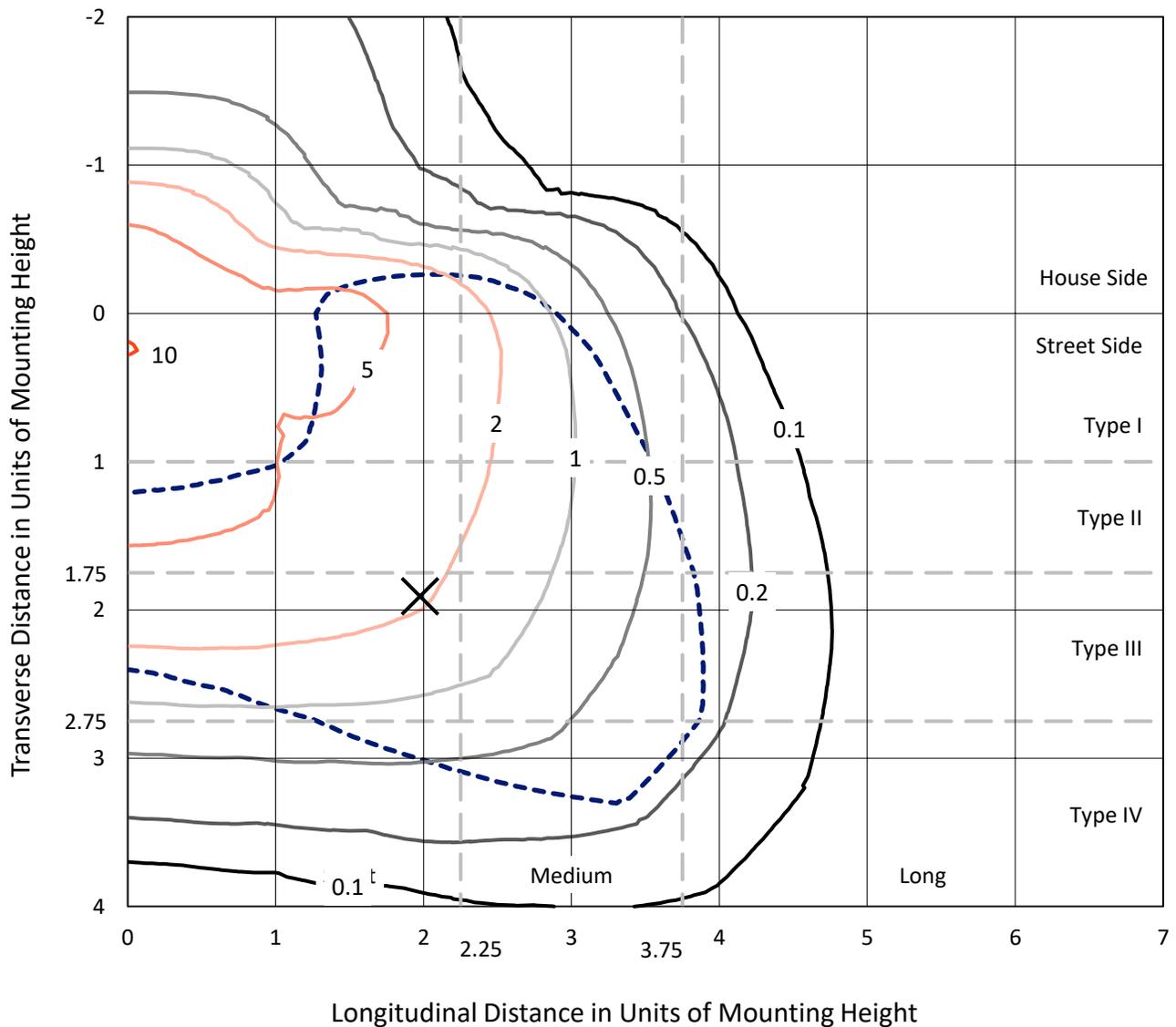
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

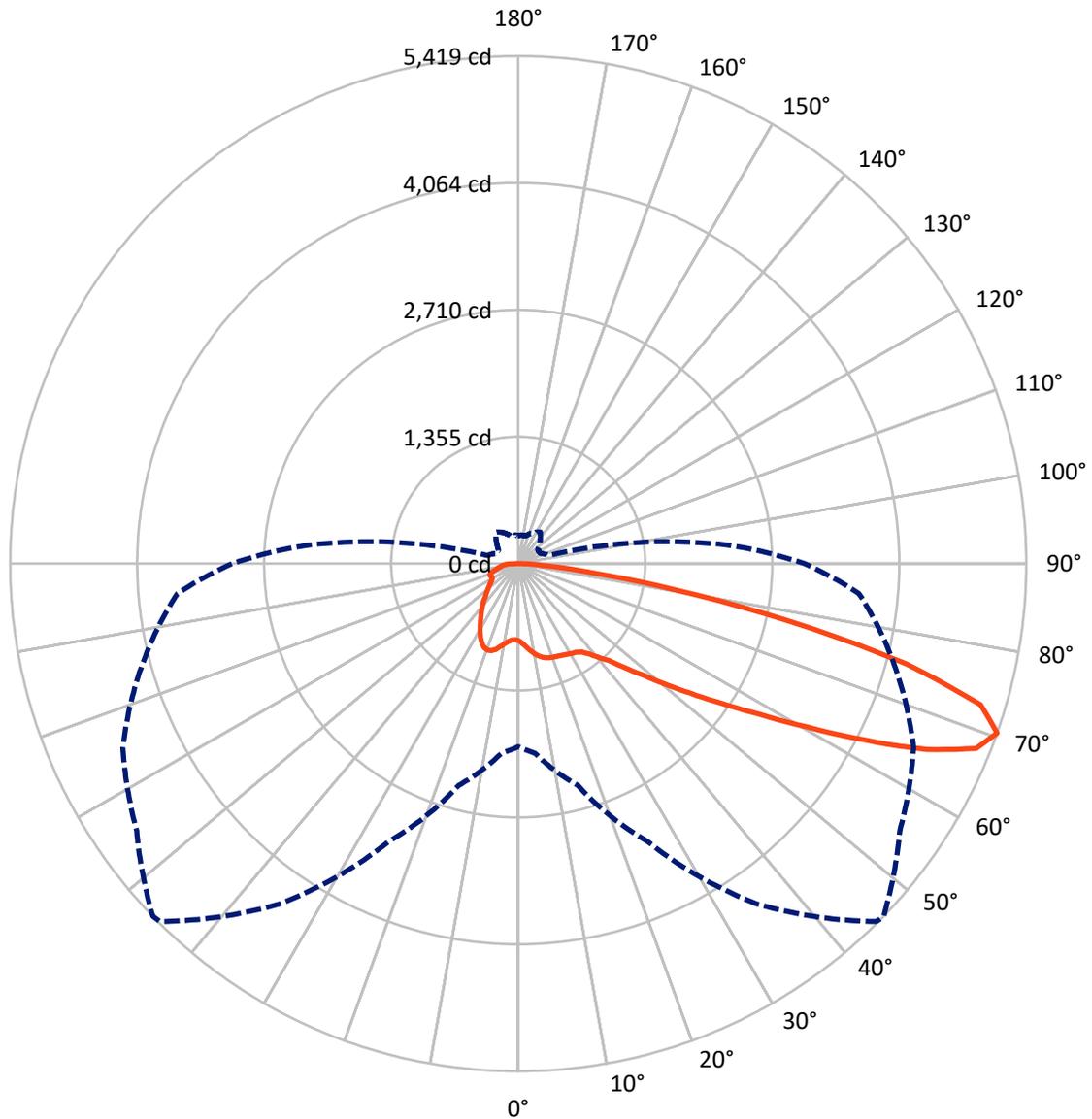
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.3 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
House Side	Lumens	1851.0	0.0	1851.0
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	6225.0	0.0	6225.0
	% Fixture	77.1	0.0	77.1
Total	Lumens	8076.0	0.0	8076.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.9	1.0
10°-20°	279.5	3.5
20°-30°	466.0	5.8
30°-40°	661.2	8.2
40°-50°	972.6	12.0
50°-60°	1647.1	20.4
60°-70°	2338.1	29.0
70°-80°	1420.4	17.6
80°-90°	207.3	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°	8076.0	100.0
0°-180°	8076.0	100.0



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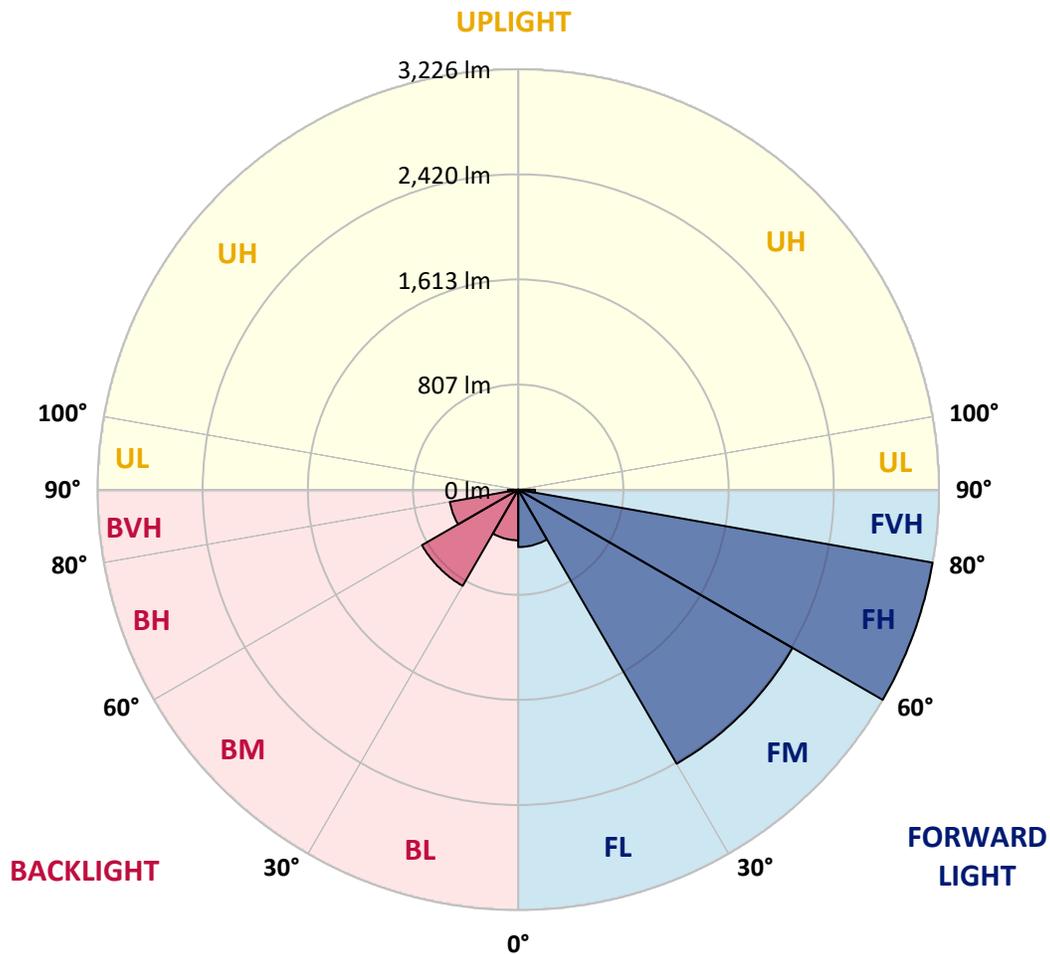
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	440.7	5.5			
FM	(30°-60°)	2428.9	30.1			
FH	(60°-80°)	3226.3	39.9			G2/5000
FVH	(80°-90°)	129.1	1.6			G2/225
BL	(0°-30°)	388.6	4.8	B1/500		
BM	(30°-60°)	852.1	10.6	B1/1000		
BH	(60°-80°)	532.1	6.6	B2/1000		G2/1000
BVH	(80°-90°)	78.2	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°	822.8	822.8	822.8	822.8	822.8	822.8	822.8	822.8	822.8	822.8	822.8
2.5°	864.0	864.5	865.6	862.9	855.1	852.9	852.1	844.1	838.8	831.1	824.4
5°	933.1	933.6	932.0	924.2	907.1	894.4	893.3	875.0	858.4	840.8	827.5
7.5°	1005.2	1006.0	1000.8	986.1	962.1	940.0	938.6	913.7	888.6	861.8	841.9
10°	1069.0	1065.7	1057.2	1036.7	1008.2	981.2	980.0	954.1	925.0	892.7	866.2
12.5°	1111.6	1108.8	1097.8	1072.9	1041.7	1016.8	1014.6	990.5	962.4	927.0	895.2
15°	1135.1	1137.0	1122.1	1093.9	1063.5	1042.5	1040.6	1023.4	998.3	962.6	926.2
17.5°	1138.1	1139.8	1125.4	1097.5	1072.6	1058.3	1057.4	1046.1	1027.9	993.6	955.4
20°	1120.4	1121.6	1109.7	1086.7	1070.4	1066.0	1065.7	1060.8	1047.2	1016.8	979.8
22.5°	1094.7	1095.6	1087.0	1070.4	1064.9	1071.8	1073.7	1071.8	1062.1	1033.7	998.8
25°	1088.4	1087.8	1079.0	1062.1	1066.8	1081.5	1084.0	1084.8	1078.2	1053.3	1023.2
27.5°	1119.1	1117.1	1100.3	1073.2	1076.2	1093.9	1097.2	1105.2	1101.1	1079.3	1050.8
30°	1207.8	1204.5	1169.9	1115.2	1100.3	1109.4	1113.5	1126.3	1127.1	1108.8	1087.6
32.5°	1357.6	1353.4	1291.5	1193.7	1140.9	1125.1	1129.0	1148.1	1158.3	1144.2	1121.3
35°	1546.9	1542.2	1461.0	1327.2	1208.9	1155.3	1158.0	1173.2	1193.7	1173.8	1143.4
37.5°	1744.2	1732.9	1654.7	1484.2	1317.0	1219.7	1219.7	1221.6	1231.3	1189.8	1169.4
40°	1940.5	1929.1	1858.4	1668.8	1456.8	1321.1	1314.7	1271.9	1264.2	1228.5	1221.6
42.5°	2122.9	2119.6	2077.8	1877.5	1621.0	1420.9	1412.0	1339.3	1341.0	1318.9	1319.2
45°	2316.9	2316.9	2282.9	2088.1	1812.2	1581.2	1572.3	1465.4	1482.0	1471.7	1496.3
47.5°	2475.3	2480.2	2475.5	2307.5	2034.7	1784.9	1768.8	1640.0	1686.5	1721.6	1793.2
50°	2637.0	2644.7	2645.5	2548.2	2303.6	2027.0	2008.7	1871.9	1975.6	2076.2	2216.9
52.5°	2871.6	2889.0	2819.6	2788.4	2633.1	2314.4	2296.4	2170.1	2343.2	2484.4	2726.8
55°	3089.1	3073.9	3024.4	3043.8	2985.7	2641.6	2628.1	2517.3	2752.8	2936.3	3251.1
57.5°	3206.8	3205.7	3255.5	3338.4	3366.0	3045.2	3033.8	2926.0	3214.6	3352.5	3743.3
60°	3345.0	3347.0	3470.2	3658.5	3772.3	3547.6	3542.7	3460.8	3663.2	3741.1	4129.4
62.5°	3364.4	3399.2	3611.5	3935.4	4152.6	4134.7	4145.7	3942.6	4064.5	4051.2	4417.7
65°	3141.9	3187.8	3571.9	4019.1	4530.7	4776.7	4786.9	4427.1	4380.9	4316.2	4520.8
67.5°	2685.9	2753.9	3171.2	3837.0	4655.4	5251.2	5265.6	4802.7	4643.5	4406.1	4272.6
70°	1954.6	2030.0	2450.1	3277.0	4433.2	5403.0	5419.3	4968.8	4653.4	4150.4	3647.4
72.5°	1180.7	1239.8	1586.2	2412.5	3741.6	5126.6	5155.6	4758.2	4248.5	3515.6	2693.3
75°	518.5	557.2	767.0	1390.2	2678.7	4241.6	4277.8	4072.8	3452.0	2554.9	1592.0
77.5°	220.8	231.9	314.5	603.9	1514.3	2898.4	2948.2	2975.8	2342.1	1390.2	672.7
80°	137.6	142.1	178.0	273.3	708.6	1627.9	1681.5	1750.9	1163.0	511.0	234.9
82.5°	83.7	88.7	118.3	165.3	369.0	737.9	763.6	812.6	451.3	220.8	121.6
85°	50.3	53.9	72.4	104.5	210.0	290.2	289.9	320.6	212.5	142.1	64.1
87.5°	24.0	26.8	38.7	54.2	105.9	108.9	102.0	115.5	129.1	93.1	32.3
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°	822.8	822.8	822.8	822.8	822.8	822.8	822.8	822.8	822.8	822.8	822.8
2.5°	822.2	821.1	817.5	814.8	814.2	812.6	811.2	812.0	813.1	813.4	813.4
5°	822.0	818.9	814.2	812.3	814.8	818.1	822.2	827.8	831.1	833.6	835.2
7.5°	835.2	829.4	824.2	823.1	828.0	836.9	846.3	857.9	865.9	871.4	872.5
10°	857.3	850.1	844.9	846.0	854.8	867.6	880.8	895.8	907.9	915.4	915.9
12.5°	882.8	875.9	870.9	875.6	890.2	905.7	919.5	932.5	943.6	951.0	951.0
15°	912.1	907.1	901.3	912.1	932.0	945.8	951.6	957.9	964.0	969.5	968.4
17.5°	940.2	935.5	932.5	945.2	966.0	972.3	968.4	963.7	963.7	966.8	967.3
20°	964.6	960.4	962.4	974.8	985.6	978.9	964.6	949.6	943.6	945.2	946.9
22.5°	985.9	983.9	989.7	995.5	987.8	964.6	938.0	917.9	910.4	909.8	910.4
25°	1010.7	1010.4	1017.6	1007.1	972.9	930.0	894.4	874.7	870.6	873.9	879.4
27.5°	1041.7	1044.7	1048.3	1009.9	942.5	877.8	841.6	828.0	832.2	840.2	845.4
30°	1081.2	1089.5	1081.8	1003.0	898.8	818.1	783.5	779.7	791.0	802.3	807.9
32.5°	1119.6	1132.6	1113.8	985.0	842.4	754.8	728.0	726.9	740.7	751.8	759.5
35°	1150.6	1176.3	1137.9	949.4	777.2	696.5	676.9	669.4	674.4	687.4	696.2
37.5°	1190.9	1233.8	1154.4	894.9	706.4	648.4	625.5	608.3	603.9	609.1	613.6
40°	1264.7	1321.4	1162.2	818.9	637.3	600.3	577.1	551.9	534.5	521.8	522.1
42.5°	1385.2	1435.5	1157.2	726.6	573.5	553.3	527.1	498.0	469.8	441.1	438.9
45°	1580.9	1605.2	1142.3	628.8	517.4	504.1	479.5	450.5	412.9	380.3	377.3
47.5°	1894.0	1840.1	1119.1	543.4	467.9	462.4	439.7	406.3	366.5	340.2	338.0
50°	2321.0	2179.3	1107.7	475.4	424.2	425.9	407.4	372.0	334.4	315.1	312.9
52.5°	2831.8	2574.2	1129.6	422.9	389.1	394.9	381.1	348.0	316.5	301.3	299.0
55°	3361.6	2983.3	1153.1	384.7	356.0	367.3	362.6	335.3	306.8	292.7	290.8
57.5°	3815.2	3288.7	1106.1	353.8	326.4	344.1	348.2	327.2	301.8	289.1	286.9
60°	4100.7	3411.6	982.8	324.7	302.9	325.6	339.9	325.0	303.7	302.6	301.0
62.5°	4236.1	3400.9	797.9	301.8	288.3	317.6	346.0	337.5	325.9	335.8	336.6
65°	4175.3	3238.4	594.2	286.6	277.8	320.6	364.3	361.0	332.2	342.2	343.5
67.5°	3775.1	2850.6	440.0	273.3	266.2	329.2	397.4	368.7	319.8	327.0	322.5
70°	3051.2	2260.0	339.4	258.4	254.3	328.1	412.4	364.0	306.2	307.9	296.0
72.5°	2104.1	1541.1	276.1	244.6	237.1	299.0	401.9	352.4	294.9	282.2	266.4
75°	1144.2	827.2	234.6	230.2	207.0	262.6	382.5	344.1	284.7	267.8	259.0
77.5°	450.2	343.3	203.7	210.6	181.0	231.9	361.0	328.3	270.6	248.5	244.0
80°	183.8	175.2	168.9	182.1	155.6	202.9	335.0	309.8	253.7	230.5	221.7
82.5°	104.2	108.9	131.3	143.7	126.3	186.8	322.5	294.9	233.5	206.5	196.0
85°	53.3	63.8	91.5	103.1	92.9	158.9	297.1	258.1	187.4	158.1	158.9
87.5°	25.7	35.7	57.8	64.7	60.3	115.0	221.9	187.1	145.9	115.5	111.9
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)