

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P482407

Luminaire Tested: **IFLD-S-SA3A-735-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482407
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-735-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

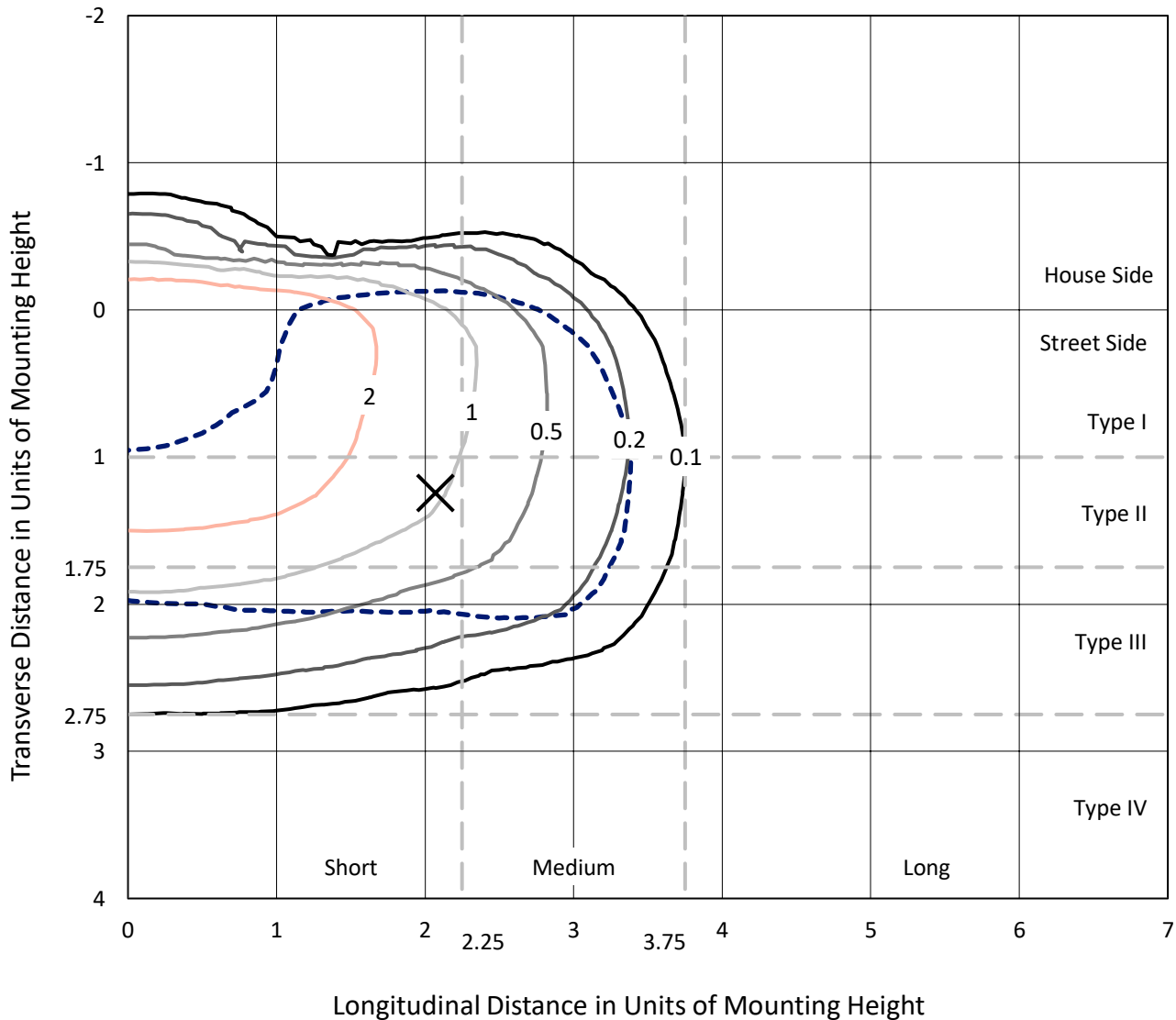
Lumens per Lamp: N/A
Luminaire Lumens: 10069.3 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 94.8
Input Voltage (V): 120
Input Current (A_{in}): 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: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

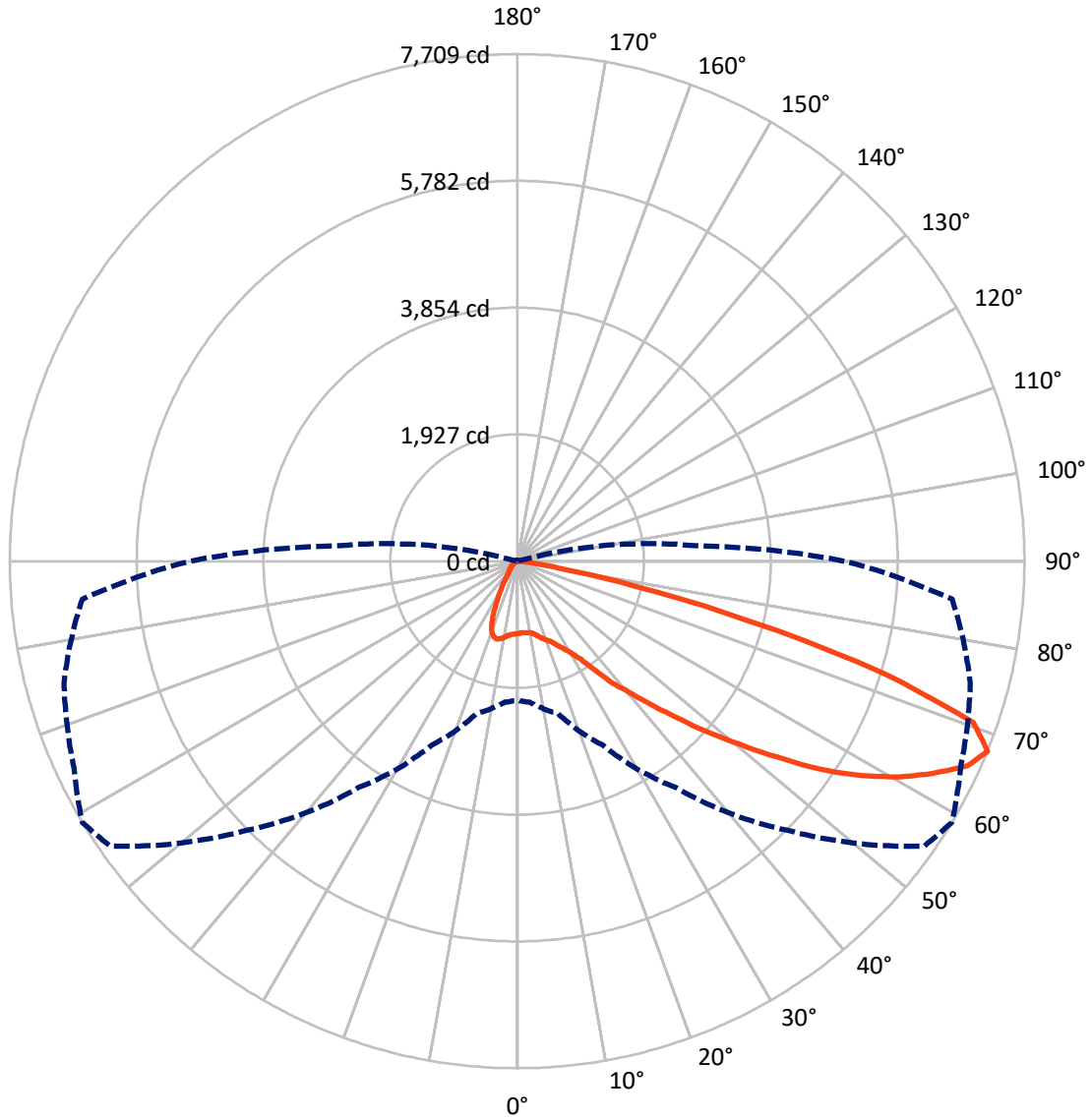
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1182.8	0.0	1182.8
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	8886.5	0.0	8886.5
	% Fixture	88.3	0.0	88.3
Total	Lumens	10069.3	0.0	10069.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.9	1.0
10°-20°	303.0	3.0
20°-30°	529.6	5.3
30°-40°	932.5	9.3
40°-50°	1648.3	16.4
50°-60°	2609.9	25.9
60°-70°	2895.1	28.8
70°-80°	1004.5	10.0
80°-90°	41.4	0.4
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°	10069.3	100.0
0°-180°	10069.3	100.0

Coefficient of Utilization

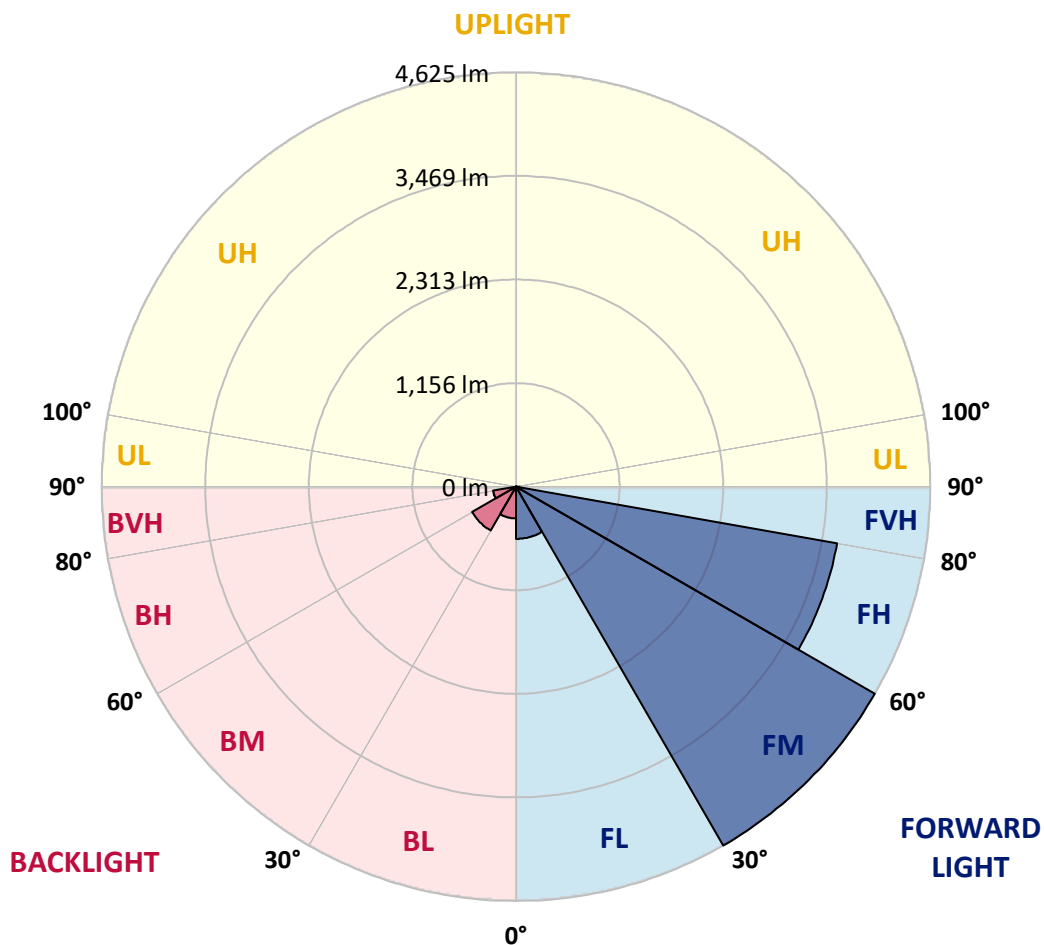


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	583.1	5.8			
FM (30°-60°)	4625.2	45.9			
FH (60°-80°)	3639.5	36.1			G2/5000
FVH (80°-90°)	38.7	0.4			G1/100
BL (0°-30°)	354.5	3.5	B1/500		
BM (30°-60°)	565.5	5.6	B1/1000		
BH (60°-80°)	260.1	2.6	B1/500		G1/500
BVH (80°-90°)	2.7	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4
2.5°	1072.4	1057.1	1071.0	1072.4	1073.8	1086.3	1100.2	1090.5	1089.1	1100.2	1110.0
5°	1029.3	1022.4	1039.0	1047.4	1061.3	1072.4	1094.7	1096.1	1097.5	1110.0	1126.7
7.5°	1011.2	994.5	1014.0	1023.7	1033.5	1059.9	1086.3	1100.2	1119.7	1135.0	1151.7
10°	975.1	987.6	993.1	1009.8	1037.7	1068.3	1100.2	1107.2	1150.3	1162.8	1203.2
12.5°	987.6	995.9	1007.1	1011.2	1041.8	1087.7	1130.8	1133.6	1178.1	1232.4	1253.3
15°	1019.6	1014.0	1018.2	1023.7	1059.9	1097.5	1167.0	1179.5	1221.3	1282.5	1333.9
17.5°	1087.7	1078.0	1071.0	1069.6	1078.0	1112.8	1194.8	1232.4	1271.3	1354.8	1381.2
20°	1258.8	1250.5	1222.7	1150.3	1125.3	1139.2	1228.2	1281.1	1335.3	1428.5	1471.6
22.5°	1518.9	1527.3	1461.9	1360.4	1256.0	1201.8	1281.1	1327.0	1413.2	1531.4	1570.4
25°	1826.3	1809.6	1730.4	1612.1	1448.0	1320.0	1365.9	1417.4	1523.1	1620.5	1635.8
27.5°	2067.0	2047.5	1986.3	1843.0	1701.1	1493.9	1477.2	1509.2	1634.4	1722.0	1705.3
30°	2304.8	2311.8	2270.0	2100.3	1925.1	1706.7	1601.0	1614.9	1710.9	1823.5	1786.0
32.5°	2608.0	2591.4	2567.7	2418.9	2211.6	1977.9	1797.1	1774.9	1816.6	1965.4	1920.9
35°	2890.4	2880.7	2848.7	2698.5	2517.6	2263.1	2086.4	2036.4	2026.6	2192.1	2114.3
37.5°	3136.6	3119.9	3071.2	2975.3	2800.0	2585.8	2392.4	2347.9	2346.5	2460.6	2310.4
40°	3343.9	3356.4	3350.8	3245.1	3149.1	2978.0	2681.8	2610.8	2605.3	2666.5	2578.8
42.5°	3612.3	3641.5	3626.2	3605.4	3489.9	3423.1	3087.9	2979.4	2930.7	3055.9	2976.7
45°	4018.5	4029.6	4039.3	3987.9	3872.4	3886.3	3508.0	3378.6	3366.1	3552.5	3374.5
47.5°	4398.2	4369.0	4437.2	4439.9	4434.4	4370.4	3961.4	3865.5	3882.2	4024.0	3840.4
50°	4492.8	4567.9	4755.7	4790.5	4880.9	4939.3	4465.0	4369.0	4396.8	4558.2	4348.1
52.5°	4566.5	4680.6	4868.4	5122.9	5366.3	5505.4	5028.3	4950.4	4949.0	5047.8	4758.5
55°	4695.9	4765.4	4928.2	5278.7	5741.9	5970.0	5707.1	5581.9	5469.2	5538.8	5184.1
57.5°	4683.4	4709.8	4962.9	5395.5	6039.5	6454.0	6264.9	6145.3	6000.6	5960.3	5673.7
60°	4463.6	4526.2	4809.9	5316.2	6223.1	6831.0	6785.1	6662.7	6413.7	6319.1	6049.3
62.5°	4028.2	4111.7	4334.2	5038.0	5956.1	6850.5	7144.0	7098.1	6819.9	6650.2	6538.9
65°	3264.6	3303.5	3559.5	4331.4	5352.4	6551.4	7568.2	7511.2	7255.2	7002.1	6790.7
67.5°	2114.3	2151.8	2398.0	3092.1	4203.5	5779.4	7551.5	7708.7	7431.9	7127.3	6633.5
70°	998.7	989.0	1218.5	1717.8	2692.9	4413.5	7041.0	7351.2	7116.1	6461.0	5509.6
72.5°	304.6	331.0	506.3	760.9	1382.6	2752.7	5519.3	5810.0	5736.3	5161.8	3677.7
75°	134.9	146.1	198.9	311.6	560.6	1129.5	3409.2	3668.0	3636.0	3044.8	1678.9
77.5°	86.2	94.6	125.2	178.0	254.5	358.9	1570.4	1822.2	1766.5	1069.6	439.5
80°	61.2	65.4	89.0	122.4	160.0	147.4	541.1	642.6	616.2	290.7	118.2
82.5°	33.4	36.2	65.4	90.4	107.1	75.1	151.6	189.2	197.5	129.4	57.0
85°	12.5	15.3	40.3	64.0	55.6	34.8	44.5	54.2	70.9	70.9	26.4
87.5°	0.0	1.4	16.7	27.8	13.9	9.7	12.5	15.3	19.5	33.4	9.7
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°	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4
2.5°	1116.9	1107.2	1111.4	1118.3	1103.0	1111.4	1094.7	1107.2	1111.4	1094.7	1103.0
5°	1130.8	1140.6	1135.0	1123.9	1114.2	1116.9	1112.8	1103.0	1111.4	1114.2	1108.6
7.5°	1171.2	1160.1	1162.8	1150.3	1130.8	1129.5	1103.0	1096.1	1098.9	1101.6	1091.9
10°	1208.7	1215.7	1201.8	1192.1	1160.1	1139.2	1103.0	1064.1	1059.9	1043.2	1057.1
12.5°	1275.5	1258.8	1253.3	1221.3	1189.3	1119.7	1041.8	982.0	931.9	913.9	895.8
15°	1331.1	1328.4	1318.6	1269.9	1196.2	1069.6	922.2	783.1	687.1	627.3	619.0
17.5°	1407.6	1395.1	1377.0	1300.5	1144.8	938.9	687.1	511.9	415.9	378.3	364.4
20°	1466.1	1456.3	1431.3	1293.6	1051.6	699.7	425.6	325.5	301.8	294.9	296.3
22.5°	1550.9	1520.3	1473.0	1258.8	881.9	466.0	306.0	290.7	286.5	281.0	282.4
25°	1624.6	1596.8	1498.1	1199.0	628.7	308.8	283.8	275.4	268.5	261.5	260.1
27.5°	1690.0	1655.2	1524.5	1076.6	393.6	265.7	262.9	253.2	239.2	228.1	223.9
30°	1754.0	1713.7	1531.4	847.1	265.7	240.6	233.7	218.4	200.3	185.0	182.2
32.5°	1861.1	1812.4	1521.7	605.1	229.5	214.2	198.9	180.8	154.4	141.9	139.1
35°	2028.0	1954.3	1509.2	356.1	205.9	189.2	165.5	141.9	122.4	109.9	107.1
37.5°	2220.0	2092.0	1473.0	237.9	189.2	166.9	136.3	112.7	96.0	86.2	83.5
40°	2505.1	2293.7	1333.9	194.7	168.3	141.9	109.9	89.0	76.5	69.5	66.8
42.5°	2819.5	2524.6	1119.7	175.3	148.8	121.0	87.6	72.3	62.6	55.6	55.6
45°	3196.4	2765.2	863.8	160.0	132.1	100.1	72.3	58.4	50.1	44.5	41.7
47.5°	3616.5	2983.6	582.8	144.7	111.3	82.1	59.8	44.5	36.2	32.0	32.0
50°	3992.0	3176.9	371.4	126.6	97.4	68.2	48.7	36.2	29.2	23.6	22.3
52.5°	4332.8	3324.4	255.9	111.3	83.5	55.6	40.3	29.2	22.3	18.1	18.1
55°	4682.0	3399.5	189.2	96.0	72.3	47.3	33.4	26.4	19.5	15.3	13.9
57.5°	4968.5	3431.5	144.7	83.5	61.2	37.6	29.2	22.3	16.7	12.5	11.1
60°	5213.3	3416.2	112.7	69.5	48.7	32.0	25.0	18.1	13.9	9.7	8.3
62.5°	5356.6	3324.4	89.0	59.8	38.9	27.8	20.9	15.3	9.7	7.0	5.6
65°	5359.4	3129.7	69.5	44.5	29.2	23.6	18.1	12.5	7.0	2.8	1.4
67.5°	4975.5	2708.2	55.6	34.8	23.6	18.1	13.9	9.7	2.8	0.0	0.0
70°	3891.9	2048.9	45.9	27.8	19.5	15.3	9.7	5.6	1.4	0.0	0.0
72.5°	2480.1	1226.8	37.6	22.3	16.7	11.1	7.0	4.2	0.0	0.0	0.0
75°	1037.7	378.3	29.2	19.5	12.5	8.3	5.6	1.4	0.0	0.0	0.0
77.5°	267.1	119.6	23.6	16.7	12.5	7.0	4.2	1.4	0.0	0.0	0.0
80°	79.3	44.5	19.5	13.9	9.7	5.6	2.8	1.4	0.0	0.0	0.0
82.5°	36.2	26.4	16.7	12.5	8.3	5.6	2.8	0.0	0.0	0.0	0.0
85°	13.9	8.3	8.3	7.0	7.0	4.2	1.4	0.0	0.0	0.0	0.0
87.5°	5.6	2.8	2.8	2.8	1.4	1.4	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)