

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: P482326

Luminaire Tested: **IFLD-S-SA2C-727-U-T3-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482326  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-727-U-T3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens with House Side Shield  
Light Source: (32) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

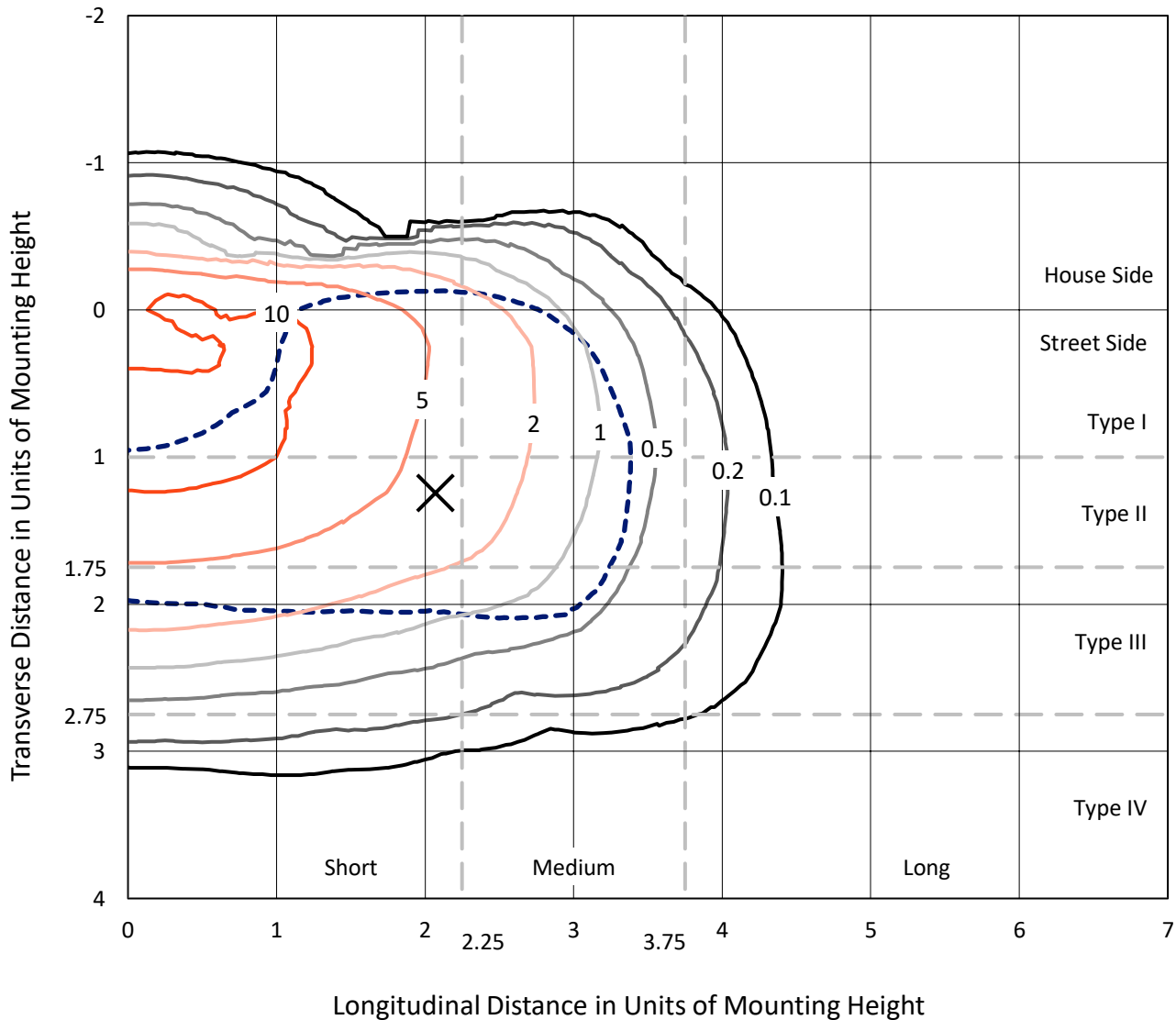
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8820.2 lumens  
Efficiency: N/A  
Efficacy: 81.5 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): 108.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

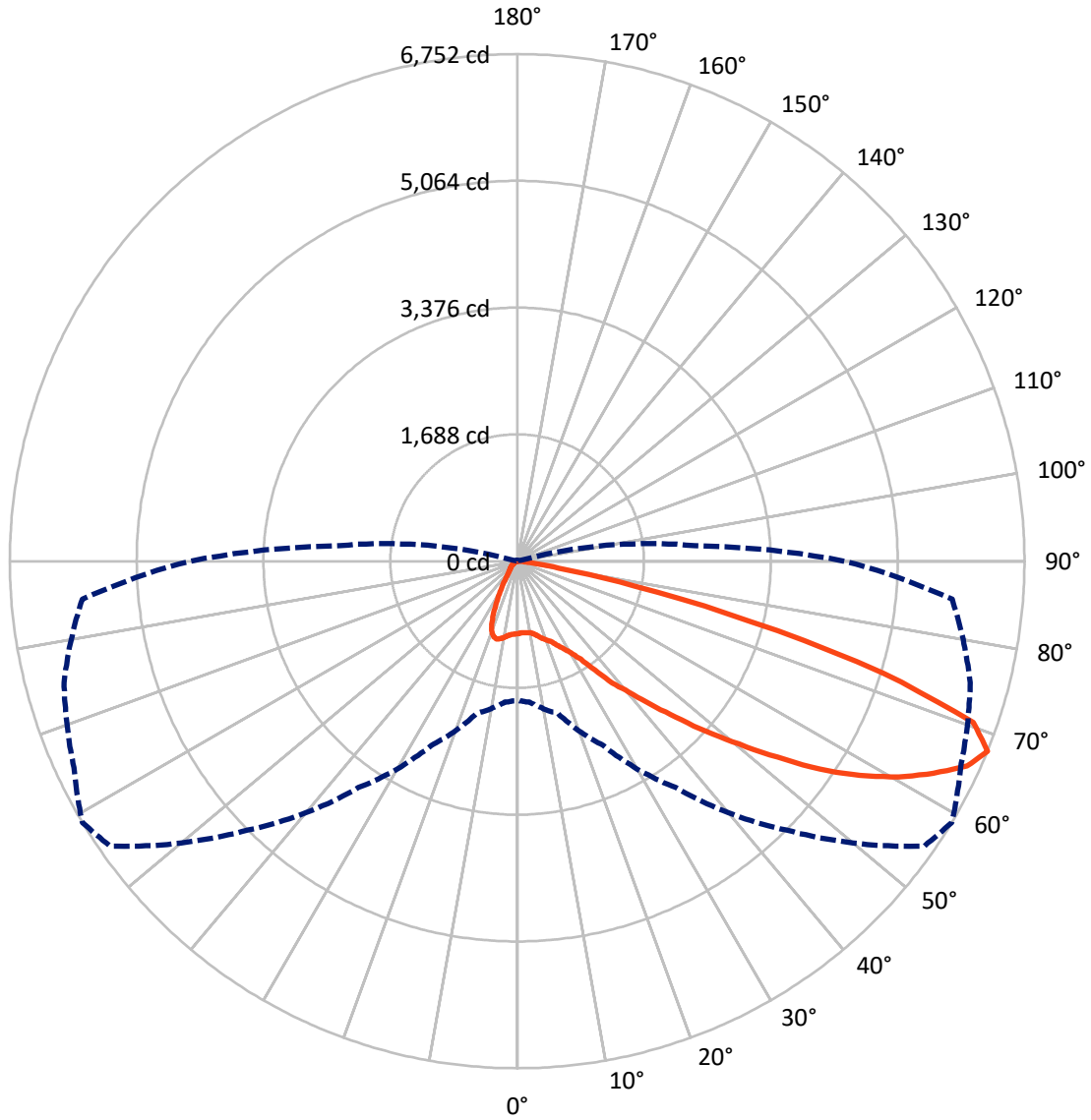
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.8 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
<b>House Side</b>	Lumens	1036.1	0.0	1036.1
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	7784.1	0.0	7784.1
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	8820.2	0.0	8820.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.9	1.0
10°-20°	265.4	3.0
20°-30°	463.9	5.3
30°-40°	816.8	9.3
40°-50°	1443.9	16.4
50°-60°	2286.1	25.9
60°-70°	2536.0	28.8
70°-80°	879.9	10.0
80°-90°	36.2	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°	8820.2	100.0
0°-180°	8820.2	100.0

**Coefficient of Utilization**

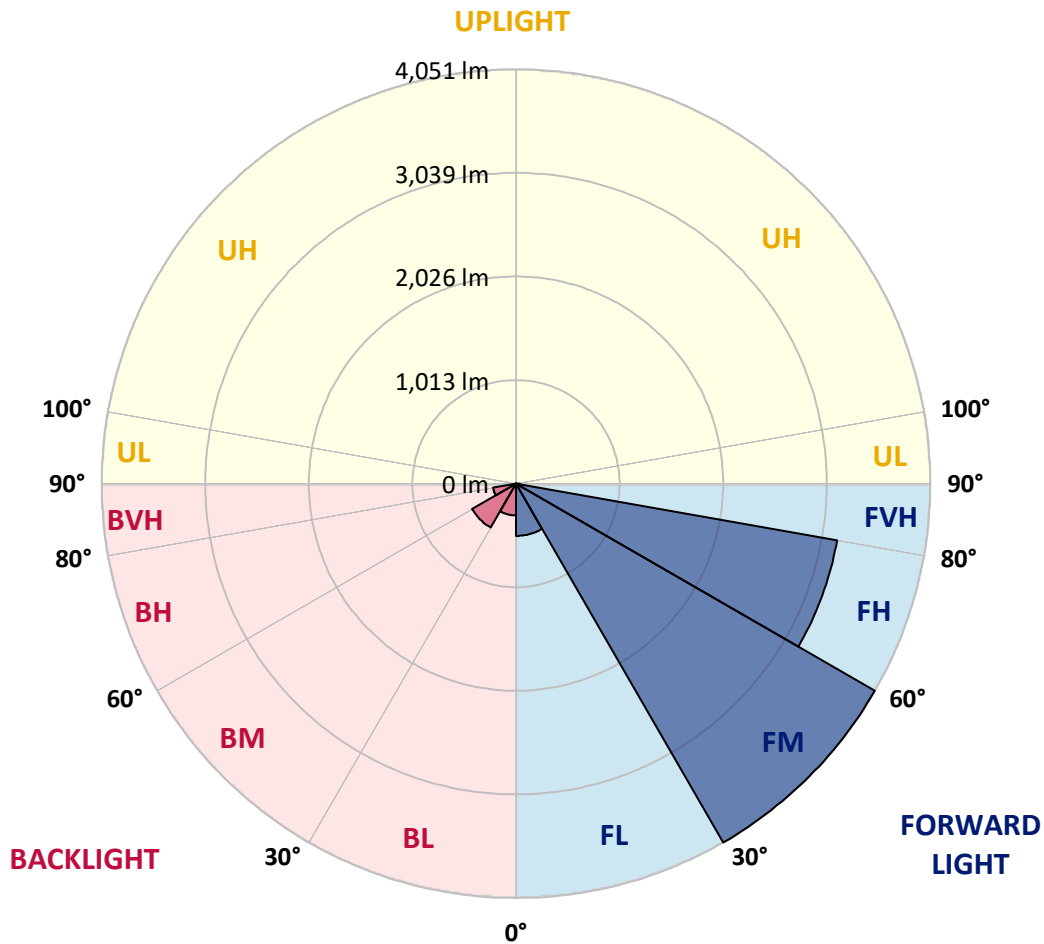


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	510.8	5.8			
FM (30°-60°)	4051.4	45.9			
FH (60°-80°)	3188.0	36.1			G2/5000
FVH (80°-90°)	33.9	0.4			G1/100
BL (0°-30°)	310.5	3.5	B1/500		
BM (30°-60°)	495.4	5.6	B1/1000		
BH (60°-80°)	227.9	2.6	B1/500		G1/500
BVH (80°-90°)	2.3	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°	967.4	967.4	967.4	967.4	967.4	967.4	967.4	967.4	967.4	967.4	967.4
2.5°	939.4	926.0	938.2	939.4	940.6	951.6	963.8	955.2	954.0	963.8	972.3
5°	901.6	895.5	910.2	917.5	929.6	939.4	958.9	960.1	961.3	972.3	986.9
7.5°	885.8	871.2	888.2	896.7	905.3	928.4	951.6	963.8	980.8	994.2	1008.8
10°	854.1	865.1	869.9	884.6	908.9	935.7	963.8	969.9	1007.6	1018.6	1053.9
12.5°	865.1	872.4	882.1	885.8	912.6	952.8	990.6	993.0	1032.0	1079.5	1097.8
15°	893.1	888.2	891.9	896.7	928.4	961.3	1022.2	1033.2	1069.8	1123.4	1168.5
17.5°	952.8	944.3	938.2	937.0	944.3	974.7	1046.6	1079.5	1113.6	1186.7	1209.9
20°	1102.7	1095.3	1071.0	1007.6	985.7	997.9	1075.9	1122.2	1169.7	1251.3	1289.1
22.5°	1330.5	1337.8	1280.5	1191.6	1100.2	1052.7	1122.2	1162.4	1237.9	1341.5	1375.6
25°	1599.8	1585.2	1515.7	1412.1	1268.4	1156.3	1196.5	1241.6	1334.2	1419.4	1432.8
27.5°	1810.6	1793.5	1739.9	1614.4	1490.1	1308.6	1294.0	1322.0	1431.6	1508.4	1493.8
30°	2018.9	2025.0	1988.4	1839.8	1686.3	1495.0	1402.4	1414.6	1498.6	1597.3	1564.4
32.5°	2284.5	2269.9	2249.2	2118.8	1937.3	1732.6	1574.2	1554.7	1591.2	1721.6	1682.6
35°	2531.9	2523.3	2495.3	2363.7	2205.3	1982.4	1827.6	1783.8	1775.2	1920.2	1852.0
37.5°	2747.5	2732.9	2690.2	2606.2	2452.7	2265.0	2095.7	2056.7	2055.5	2155.4	2023.8
40°	2929.1	2940.0	2935.1	2842.5	2758.5	2608.6	2349.1	2287.0	2282.1	2335.7	2258.9
42.5°	3164.2	3189.8	3176.4	3158.1	3057.0	2998.5	2704.9	2609.8	2567.2	2676.8	2607.4
45°	3520.0	3529.7	3538.3	3493.2	3392.1	3404.2	3072.8	2959.5	2948.6	3111.8	2955.9
47.5°	3852.6	3827.0	3886.7	3889.2	3884.3	3828.2	3470.0	3386.0	3400.6	3524.9	3364.0
50°	3935.5	4001.3	4165.7	4196.2	4275.4	4326.6	3911.1	3827.0	3851.4	3992.7	3808.7
52.5°	4000.0	4099.9	4264.4	4487.4	4700.6	4822.5	4404.5	4336.3	4335.1	4421.6	4168.2
55°	4113.3	4174.3	4316.8	4623.9	5029.6	5229.4	4999.1	4889.5	4790.8	4851.7	4541.0
57.5°	4102.4	4125.5	4347.3	4726.2	5290.3	5653.4	5487.7	5382.9	5256.2	5220.9	4969.9
60°	3909.9	3964.7	4213.3	4656.8	5451.2	5983.6	5943.4	5836.2	5618.1	5535.2	5298.9
62.5°	3528.5	3601.6	3796.6	4413.1	5217.2	6000.7	6257.8	6217.5	5973.9	5825.2	5727.7
65°	2859.6	2893.7	3117.9	3794.1	4688.4	5738.7	6629.4	6579.4	6355.2	6133.5	5948.3
67.5°	1852.0	1884.9	2100.5	2708.5	3682.0	5062.5	6614.7	6752.4	6510.0	6243.1	5810.6
70°	874.8	866.3	1067.3	1504.7	2358.8	3866.0	6167.6	6439.3	6233.4	5659.5	4826.1
72.5°	266.8	290.0	443.5	666.5	1211.1	2411.2	4834.6	5089.3	5024.7	4521.5	3221.5
75°	118.2	127.9	174.2	272.9	491.0	989.3	2986.3	3212.9	3184.9	2667.1	1470.6
77.5°	75.5	82.9	109.7	156.0	223.0	314.3	1375.6	1596.1	1547.4	937.0	385.0
80°	53.6	57.3	78.0	107.2	140.1	129.2	474.0	562.9	539.8	254.6	103.6
82.5°	29.2	31.7	57.3	79.2	93.8	65.8	132.8	165.7	173.0	113.3	50.0
85°	11.0	13.4	35.3	56.0	48.7	30.5	39.0	47.5	62.1	62.1	23.1
87.5°	0.0	1.2	14.6	24.4	12.2	8.5	11.0	13.4	17.1	29.2	8.5
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°	967.4	967.4	967.4	967.4	967.4	967.4	967.4	967.4	967.4	967.4	967.4
2.5°	978.4	969.9	973.5	979.6	966.2	973.5	958.9	969.9	973.5	958.9	966.2
5°	990.6	999.1	994.2	984.5	975.9	978.4	974.7	966.2	973.5	975.9	971.1
7.5°	1025.9	1016.2	1018.6	1007.6	990.6	989.3	966.2	960.1	962.5	965.0	956.5
10°	1058.8	1064.9	1052.7	1044.2	1016.2	997.9	966.2	932.1	928.4	913.8	926.0
12.5°	1117.3	1102.7	1097.8	1069.8	1041.7	980.8	912.6	860.2	816.3	800.5	784.7
15°	1166.0	1163.6	1155.1	1112.4	1047.8	937.0	807.8	686.0	601.9	549.5	542.2
17.5°	1233.0	1222.1	1206.2	1139.2	1002.8	822.4	601.9	448.4	364.3	331.4	319.2
20°	1284.2	1275.7	1253.7	1133.1	921.1	612.9	372.8	285.1	264.4	258.3	259.5
22.5°	1358.5	1331.7	1290.3	1102.7	772.5	408.2	268.1	254.6	251.0	246.1	247.3
25°	1423.1	1398.7	1312.2	1050.3	550.7	270.5	248.6	241.2	235.2	229.1	227.8
27.5°	1480.4	1449.9	1335.4	943.0	344.8	232.7	230.3	221.8	209.6	199.8	196.2
30°	1536.4	1501.1	1341.5	742.0	232.7	210.8	204.7	191.3	175.5	162.0	159.6
32.5°	1630.2	1587.6	1332.9	530.0	201.0	187.6	174.2	158.4	135.2	124.3	121.8
35°	1776.4	1711.9	1322.0	311.9	180.3	165.7	145.0	124.3	107.2	96.3	93.8
37.5°	1944.6	1832.5	1290.3	208.3	165.7	146.2	119.4	98.7	84.1	75.5	73.1
40°	2194.4	2009.2	1168.5	170.6	147.4	124.3	96.3	78.0	67.0	60.9	58.5
42.5°	2469.7	2211.4	980.8	153.5	130.4	106.0	76.8	63.4	54.8	48.7	48.7
45°	2799.9	2422.2	756.6	140.1	115.7	87.7	63.4	51.2	43.9	39.0	36.6
47.5°	3167.9	2613.5	510.5	126.7	97.5	71.9	52.4	39.0	31.7	28.0	28.0
50°	3496.8	2782.8	325.3	110.9	85.3	59.7	42.6	31.7	25.6	20.7	19.5
52.5°	3795.3	2912.0	224.2	97.5	73.1	48.7	35.3	25.6	19.5	15.8	15.8
55°	4101.2	2977.8	165.7	84.1	63.4	41.4	29.2	23.1	17.1	13.4	12.2
57.5°	4352.2	3005.8	126.7	73.1	53.6	32.9	25.6	19.5	14.6	11.0	9.7
60°	4566.6	2992.4	98.7	60.9	42.6	28.0	21.9	15.8	12.2	8.5	7.3
62.5°	4692.1	2912.0	78.0	52.4	34.1	24.4	18.3	13.4	8.5	6.1	4.9
65°	4694.5	2741.4	60.9	39.0	25.6	20.7	15.8	11.0	6.1	2.4	1.2
67.5°	4358.3	2372.2	48.7	30.5	20.7	15.8	12.2	8.5	2.4	0.0	0.0
70°	3409.1	1794.7	40.2	24.4	17.1	13.4	8.5	4.9	1.2	0.0	0.0
72.5°	2172.4	1074.6	32.9	19.5	14.6	9.7	6.1	3.7	0.0	0.0	0.0
75°	908.9	331.4	25.6	17.1	11.0	7.3	4.9	1.2	0.0	0.0	0.0
77.5°	233.9	104.8	20.7	14.6	11.0	6.1	3.7	1.2	0.0	0.0	0.0
80°	69.4	39.0	17.1	12.2	8.5	4.9	2.4	1.2	0.0	0.0	0.0
82.5°	31.7	23.1	14.6	11.0	7.3	4.9	2.4	0.0	0.0	0.0	0.0
85°	12.2	7.3	7.3	6.1	6.1	3.7	1.2	0.0	0.0	0.0	0.0
87.5°	4.9	2.4	2.4	2.4	1.2	1.2	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)