

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: P482599

Luminaire Tested: **IFLD-S-SA2C-830-U-T3-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482599  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-830-U-T3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens with House Side Shield  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

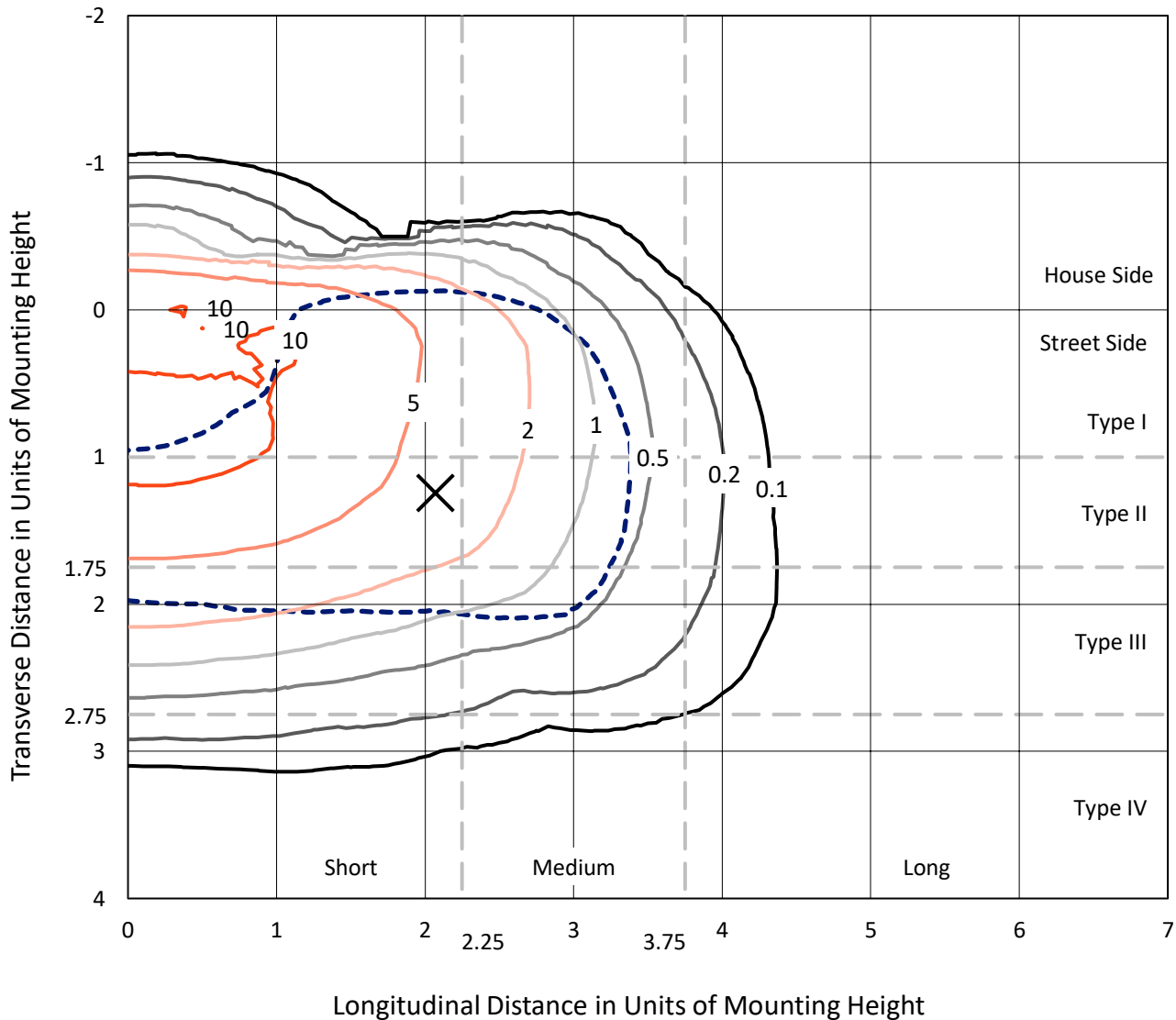
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8380.4 lumens  
Efficiency: N/A  
Efficacy: 77.5 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 (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: 24 FT

REPORT NUMBER: P482599  
 CATALOG NUMBER: IFLD-S-SA2C-830-U-T3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

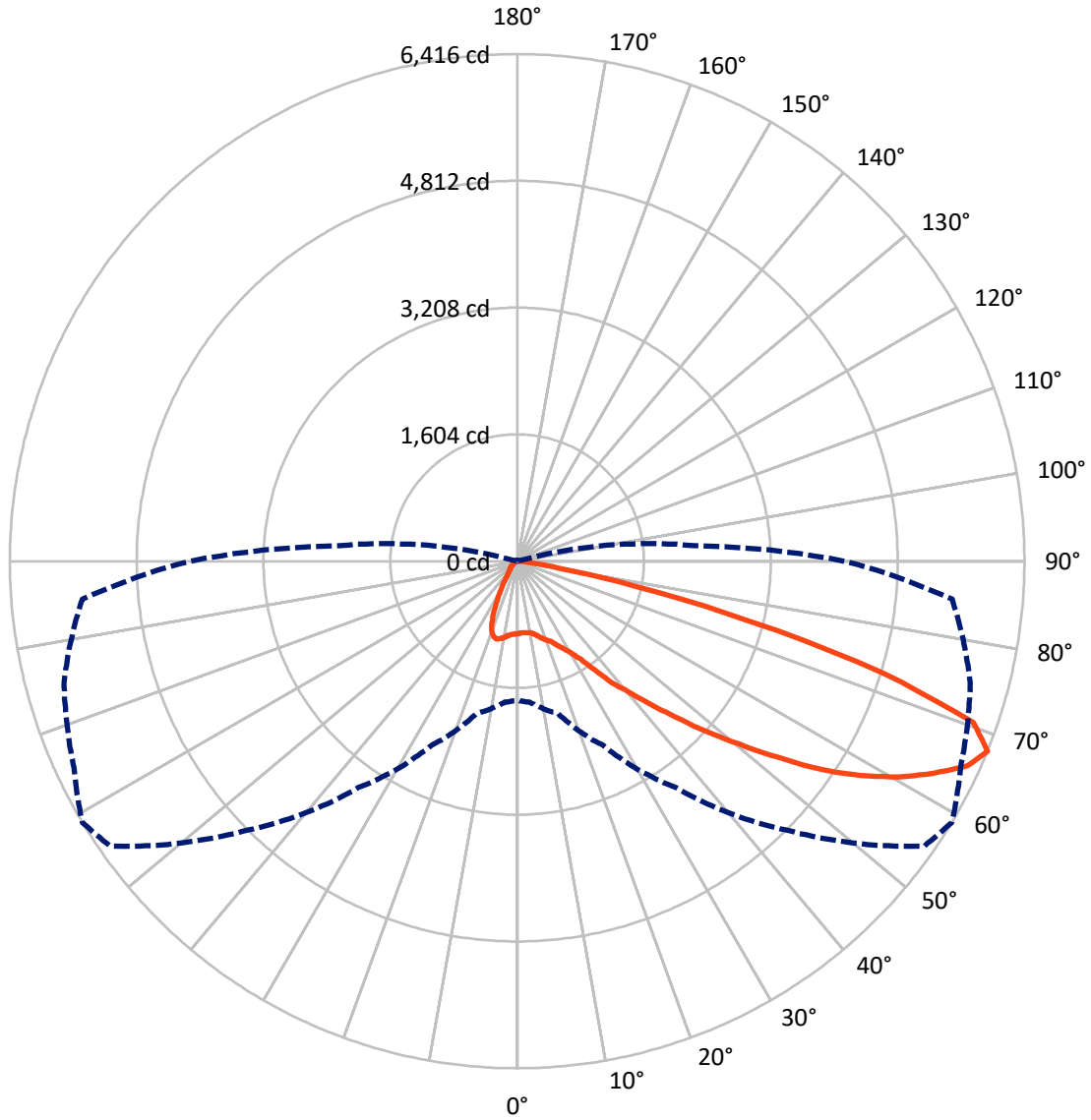
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.1 fc  
 Type III - Short - N/A

REPORT NUMBER: P482599  
CATALOG NUMBER: IFLD-S-SA2C-830-U-T3-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P482599  
 CATALOG NUMBER: IFLD-S-SA2C-830-U-T3-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	984.4	0.0	984.4
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	7396.0	0.0	7396.0
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	8380.4	0.0	8380.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.3	1.0
10°-20°	252.2	3.0
20°-30°	440.8	5.3
30°-40°	776.1	9.3
40°-50°	1371.9	16.4
50°-60°	2172.1	25.9
60°-70°	2409.5	28.8
70°-80°	836.0	10.0
80°-90°	34.4	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°	8380.4	100.0
0°-180°	8380.4	100.0

**Coefficient of Utilization**

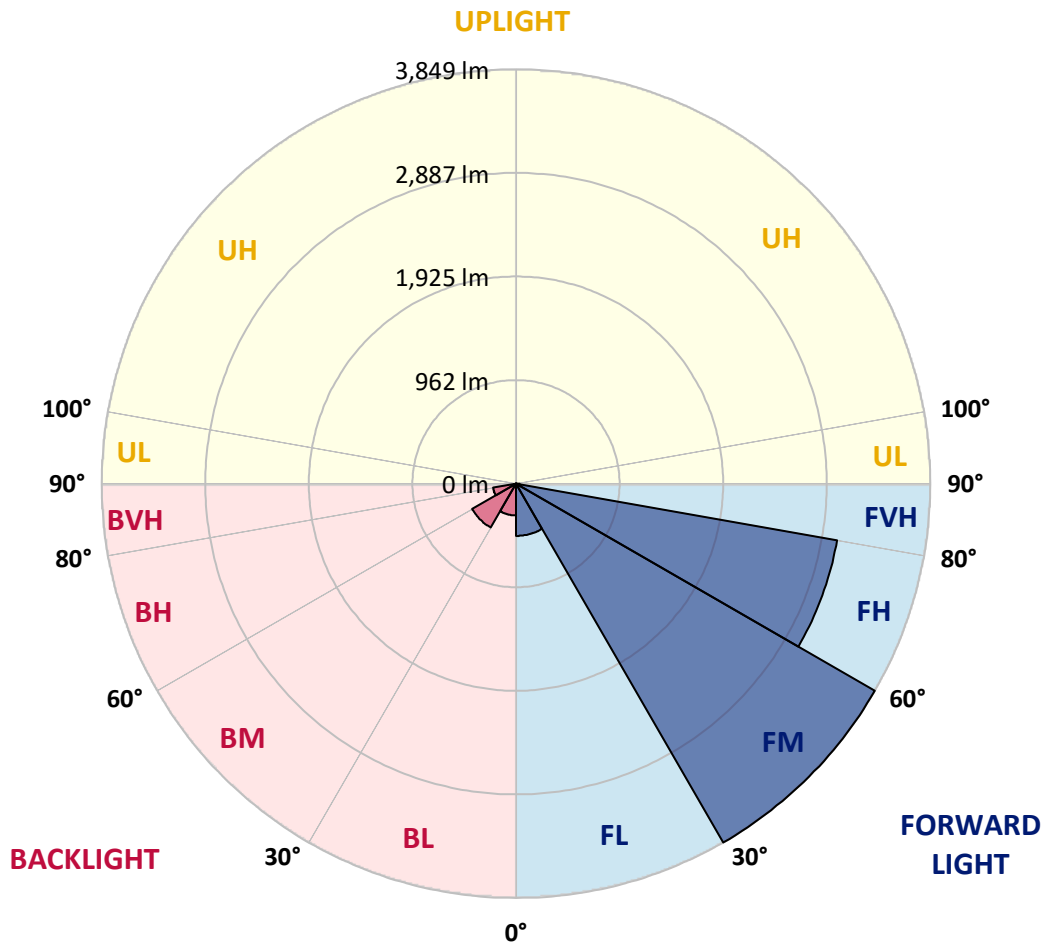


REPORT NUMBER: P482599  
 CATALOG NUMBER: IFLD-S-SA2C-830-U-T3-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	485.3	5.8			
FM (30°-60°)	3849.4	45.9			
FH (60°-80°)	3029.1	36.1			G2/5000
FVH (80°-90°)	32.2	0.4			G1/100
BL (0°-30°)	295.0	3.5	B1/500		
BM (30°-60°)	470.7	5.6	B1/1000		
BH (60°-80°)	216.5	2.6	B1/500		G1/500
BVH (80°-90°)	2.2	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





REPORT NUMBER: P482599

CATALOG NUMBER: IFLD-S-SA2C-830-U-T3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	919.2	919.2	919.2	919.2	919.2	919.2	919.2	919.2	919.2	919.2	919.2
2.5°	892.6	879.8	891.4	892.6	893.7	904.1	915.7	907.6	906.4	915.7	923.8
5°	856.7	850.9	864.8	871.7	883.3	892.6	911.1	912.2	913.4	923.8	937.7
7.5°	841.6	827.7	843.9	852.0	860.1	882.1	904.1	915.7	931.9	944.6	958.5
10°	811.5	821.9	826.6	840.5	863.6	889.1	915.7	921.5	957.4	967.8	1001.4
12.5°	821.9	828.9	838.1	841.6	867.1	905.3	941.2	943.5	980.5	1025.7	1043.0
15°	848.6	843.9	847.4	852.0	882.1	913.4	971.3	981.7	1016.4	1067.4	1110.2
17.5°	905.3	897.2	891.4	890.2	897.2	926.1	994.4	1025.7	1058.1	1127.6	1149.6
20°	1047.7	1040.7	1017.6	957.4	936.5	948.1	1022.2	1066.2	1111.4	1188.9	1224.8
22.5°	1264.2	1271.1	1216.7	1132.2	1045.4	1000.2	1066.2	1104.4	1176.2	1274.6	1307.0
25°	1520.0	1506.1	1440.1	1341.7	1205.1	1098.6	1136.8	1179.7	1267.6	1348.7	1361.4
27.5°	1720.3	1704.1	1653.1	1533.9	1415.8	1243.3	1229.4	1256.1	1360.2	1433.2	1419.3
30°	1918.2	1924.0	1889.3	1748.1	1602.2	1420.4	1332.5	1344.0	1423.9	1517.7	1486.4
32.5°	2170.6	2156.7	2137.0	2013.2	1840.7	1646.2	1495.7	1477.2	1511.9	1635.8	1598.7
35°	2405.6	2397.5	2370.9	2245.9	2095.4	1883.5	1736.5	1694.8	1686.7	1824.5	1759.6
37.5°	2610.5	2596.6	2556.1	2476.2	2330.4	2152.1	1991.2	1954.1	1953.0	2047.9	1922.9
40°	2783.0	2793.4	2788.8	2700.8	2620.9	2478.5	2232.0	2172.9	2168.3	2219.2	2146.3
42.5°	3006.4	3030.7	3018.0	3000.6	2904.6	2849.0	2570.0	2479.7	2439.2	2543.4	2477.4
45°	3344.5	3353.7	3361.8	3319.0	3222.9	3234.5	2919.6	2811.9	2801.5	2956.7	2808.5
47.5°	3660.5	3636.2	3692.9	3695.2	3690.6	3637.4	3297.0	3217.1	3231.0	3349.1	3196.3
50°	3739.2	3801.7	3958.0	3987.0	4062.2	4110.8	3716.1	3636.2	3659.4	3793.6	3618.8
52.5°	3800.6	3895.5	4051.8	4263.6	4466.2	4582.0	4184.9	4120.1	4118.9	4201.1	3960.3
55°	3908.2	3966.1	4101.6	4393.3	4778.8	4968.7	4749.9	4645.7	4551.9	4609.8	4314.6
57.5°	3897.8	3919.8	4130.5	4490.5	5026.5	5371.5	5214.1	5114.5	4994.1	4960.6	4722.1
60°	3714.9	3767.0	4003.2	4424.6	5179.4	5685.3	5647.0	5545.2	5338.0	5259.2	5034.6
62.5°	3352.6	3422.0	3607.3	4193.0	4957.1	5701.5	5945.7	5907.5	5676.0	5534.8	5442.1
65°	2717.0	2749.4	2962.4	3604.9	4454.7	5452.6	6298.8	6251.3	6038.3	5827.6	5651.7
67.5°	1759.6	1790.9	1995.8	2573.5	3498.4	4810.1	6284.9	6415.7	6185.4	5931.8	5520.9
70°	831.2	823.1	1014.1	1429.7	2241.2	3673.2	5860.1	6118.2	5922.6	5377.3	4585.5
72.5°	253.5	275.5	421.4	633.2	1150.7	2291.0	4593.6	4835.5	4774.2	4296.1	3060.8
75°	112.3	121.6	165.5	259.3	466.5	940.0	2837.4	3052.7	3026.1	2534.1	1397.3
77.5°	71.8	78.7	104.2	148.2	211.9	298.7	1307.0	1516.5	1470.2	890.2	365.8
80°	50.9	54.4	74.1	101.9	133.1	122.7	450.3	534.8	512.8	242.0	98.4
82.5°	27.8	30.1	54.4	75.2	89.1	62.5	126.2	157.4	164.4	107.7	47.5
85°	10.4	12.7	33.6	53.3	46.3	28.9	37.0	45.1	59.0	59.0	22.0
87.5°	0.0	1.2	13.9	23.2	11.6	8.1	10.4	12.7	16.2	27.8	8.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P482599  
 CATALOG NUMBER: IFLD-S-SA2C-830-U-T3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	919.2	919.2	919.2	919.2	919.2	919.2	919.2	919.2	919.2	919.2	919.2
2.5°	929.6	921.5	925.0	930.8	918.0	925.0	911.1	921.5	925.0	911.1	918.0
5°	941.2	949.3	944.6	935.4	927.3	929.6	926.1	918.0	925.0	927.3	922.7
7.5°	974.7	965.5	967.8	957.4	941.2	940.0	918.0	912.2	914.5	916.9	908.8
10°	1006.0	1011.8	1000.2	992.1	965.5	948.1	918.0	885.6	882.1	868.2	879.8
12.5°	1061.6	1047.7	1043.0	1016.4	989.8	931.9	867.1	817.3	775.6	760.6	745.5
15°	1107.9	1105.6	1097.5	1056.9	995.6	890.2	767.5	651.8	571.9	522.1	515.2
17.5°	1171.5	1161.1	1146.1	1082.4	952.8	781.4	571.9	426.0	346.1	314.9	303.3
20°	1220.2	1212.1	1191.2	1076.6	875.2	582.3	354.2	270.9	251.2	245.4	246.6
22.5°	1290.8	1265.3	1226.0	1047.7	734.0	387.8	254.7	242.0	238.5	233.8	235.0
25°	1352.1	1329.0	1246.8	997.9	523.3	257.0	236.2	229.2	223.4	217.6	216.5
27.5°	1406.6	1377.6	1268.8	896.0	327.6	221.1	218.8	210.7	199.1	189.9	186.4
30°	1459.8	1426.2	1274.6	705.0	221.1	200.3	194.5	181.8	166.7	154.0	151.7
32.5°	1548.9	1508.4	1266.5	503.6	191.0	178.3	165.5	150.5	128.5	118.1	115.8
35°	1687.9	1626.5	1256.1	296.4	171.3	157.4	137.8	118.1	101.9	91.5	89.1
37.5°	1847.6	1741.1	1226.0	198.0	157.4	138.9	113.5	93.8	79.9	71.8	69.5
40°	2084.9	1909.0	1110.2	162.1	140.1	118.1	91.5	74.1	63.7	57.9	55.6
42.5°	2346.6	2101.1	931.9	145.9	123.9	100.7	72.9	60.2	52.1	46.3	46.3
45°	2660.3	2301.4	718.9	133.1	110.0	83.4	60.2	48.6	41.7	37.0	34.7
47.5°	3009.9	2483.2	485.1	120.4	92.6	68.3	49.8	37.0	30.1	26.6	26.6
50°	3322.5	2644.1	309.1	105.3	81.0	56.7	40.5	30.1	24.3	19.7	18.5
52.5°	3606.1	2766.8	213.0	92.6	69.5	46.3	33.6	24.3	18.5	15.0	15.0
55°	3896.7	2829.3	157.4	79.9	60.2	39.4	27.8	22.0	16.2	12.7	11.6
57.5°	4135.1	2855.9	120.4	69.5	50.9	31.3	24.3	18.5	13.9	10.4	9.3
60°	4338.9	2843.2	93.8	57.9	40.5	26.6	20.8	15.0	11.6	8.1	6.9
62.5°	4458.1	2766.8	74.1	49.8	32.4	23.2	17.4	12.7	8.1	5.8	4.6
65°	4460.5	2604.7	57.9	37.0	24.3	19.7	15.0	10.4	5.8	2.3	1.2
67.5°	4140.9	2254.0	46.3	28.9	19.7	15.0	11.6	8.1	2.3	0.0	0.0
70°	3239.1	1705.2	38.2	23.2	16.2	12.7	8.1	4.6	1.2	0.0	0.0
72.5°	2064.1	1021.1	31.3	18.5	13.9	9.3	5.8	3.5	0.0	0.0	0.0
75°	863.6	314.9	24.3	16.2	10.4	6.9	4.6	1.2	0.0	0.0	0.0
77.5°	222.3	99.6	19.7	13.9	10.4	5.8	3.5	1.2	0.0	0.0	0.0
80°	66.0	37.0	16.2	11.6	8.1	4.6	2.3	1.2	0.0	0.0	0.0
82.5°	30.1	22.0	13.9	10.4	6.9	4.6	2.3	0.0	0.0	0.0	0.0
85°	11.6	6.9	6.9	5.8	5.8	3.5	1.2	0.0	0.0	0.0	0.0
87.5°	4.6	2.3	2.3	2.3	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)