

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: P483455

Luminaire Tested: **IFLD-S-SA2A-722-U-T4W-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P483455  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-722-U-T4W-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield  
Light Source: (32) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

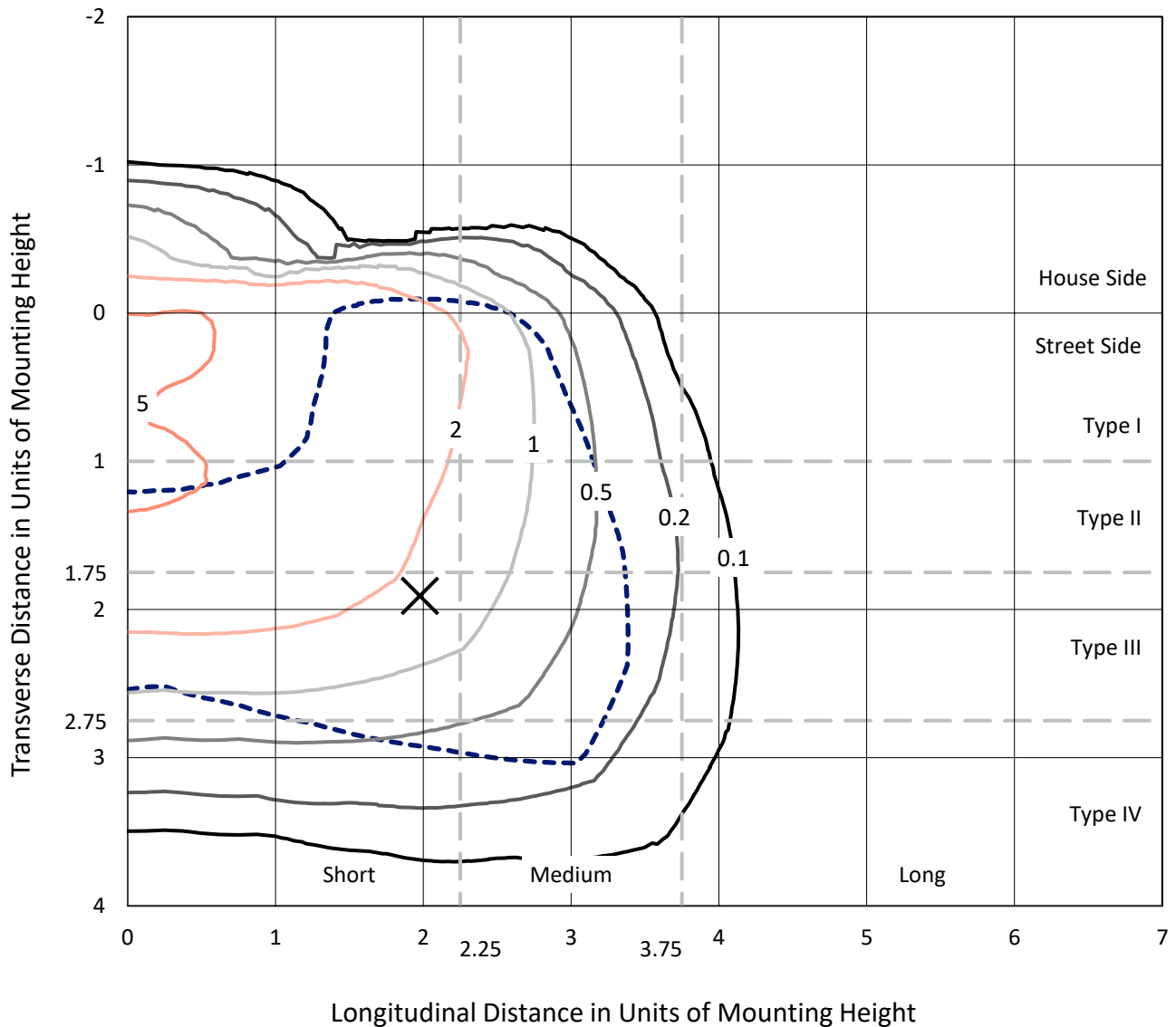
Lumens per Lamp: N/A  
Luminaire Lumens: 5017.6 lumens  
Efficiency: N/A  
Efficacy: 78.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8  
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

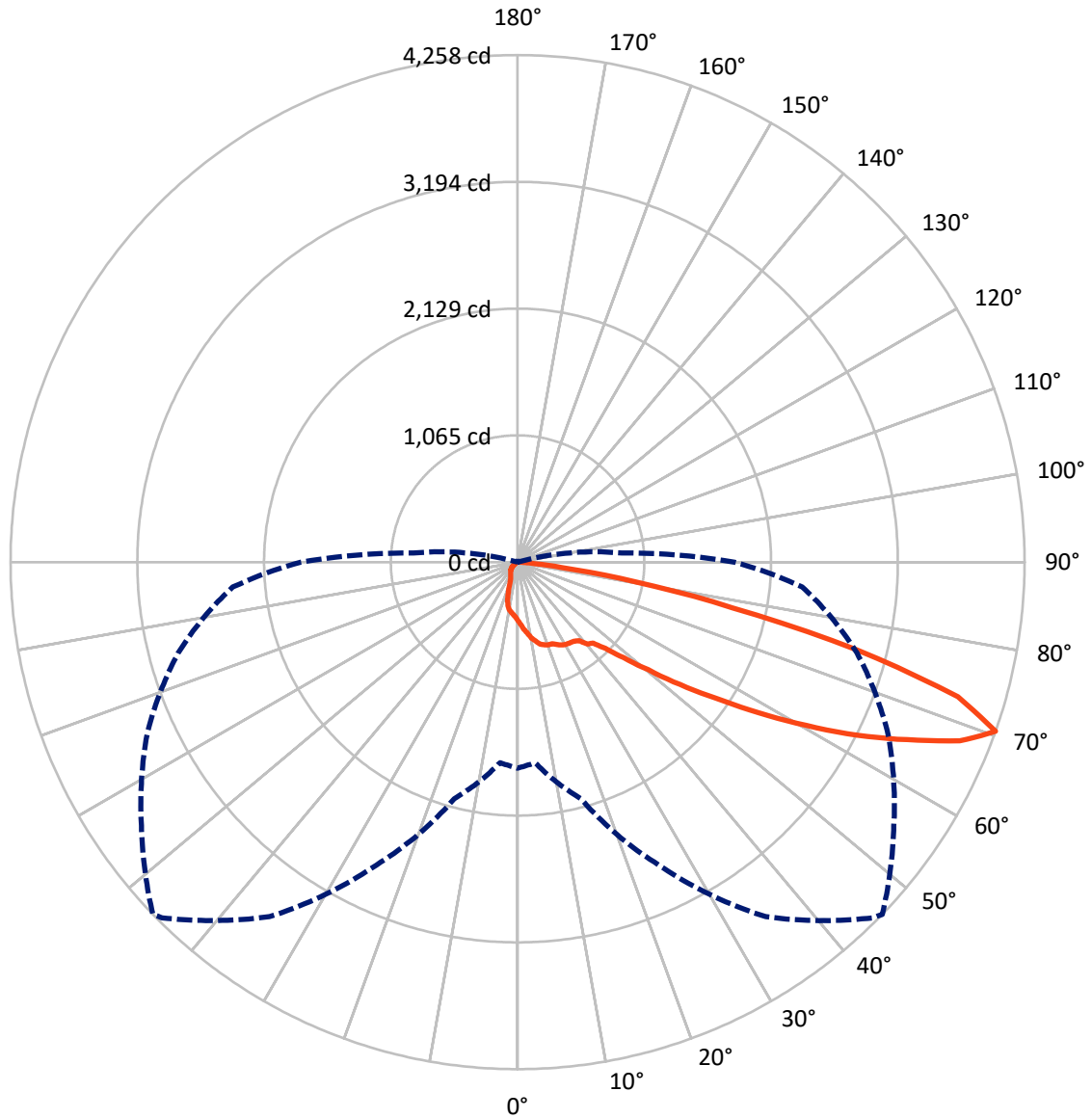
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.2 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	499.3	0.0	499.3
	% Fixture	10.0	0.0	10.0
<b>Street Side</b>	Lumens	4518.4	0.0	4518.4
	% Fixture	90.0	0.0	90.0
<b>Total</b>	Lumens	5017.6	0.0	5017.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.1	1.0
10°-20°	148.3	3.0
20°-30°	237.6	4.7
30°-40°	339.1	6.8
40°-50°	585.6	11.7
50°-60°	1121.1	22.3
60°-70°	1660.2	33.1
70°-80°	822.3	16.4
80°-90°	54.3	1.1
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°	5017.6	100.0
0°-180°	5017.6	100.0

**Coefficient of Utilization**



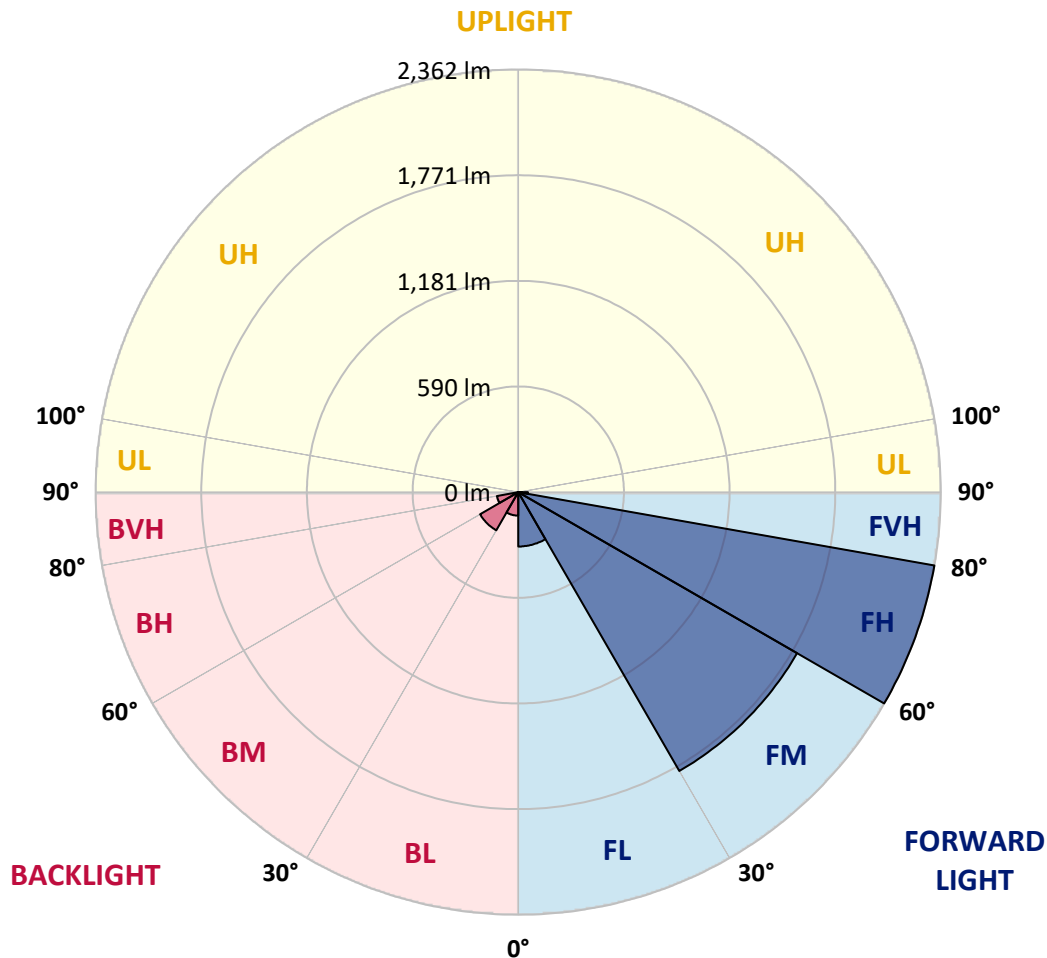
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	303.9	6.1			
FM (30°-60°)	1799.3	35.9			
FH (60°-80°)	2361.5	47.1			G2/5000
FVH (80°-90°)	53.6	1.1			G1/100
BL (0°-30°)	131.2	2.6	B1/500		
BM (30°-60°)	246.5	4.9	B1/1000		
BH (60°-80°)	120.9	2.4	B1/500		G1/500
BVH (80°-90°)	0.7	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	492.6	492.6	492.6	492.6	492.6	492.6	492.6	492.6	492.6	492.6	492.6
2.5°	549.6	546.0	540.2	538.1	532.3	529.4	525.1	522.9	515.0	507.0	502.0
5°	616.8	608.1	611.0	602.4	583.6	568.4	567.7	551.1	533.0	518.6	499.1
7.5°	684.7	677.5	666.6	654.4	633.4	611.0	604.5	588.6	563.4	538.1	512.1
10°	736.0	730.9	721.5	704.2	675.3	650.0	650.7	624.0	597.3	568.4	533.0
12.5°	767.8	769.9	756.2	738.9	713.6	681.8	681.1	663.0	632.7	602.4	560.5
15°	799.5	807.5	786.5	766.3	733.8	710.7	715.0	693.4	663.7	629.1	582.9
17.5°	804.6	806.8	802.4	772.8	749.0	729.5	730.2	715.7	693.4	655.8	616.1
20°	795.9	794.5	789.4	767.8	751.9	740.3	741.0	737.4	725.1	694.8	640.6
22.5°	770.6	770.6	764.1	749.7	742.5	753.3	744.6	758.4	745.4	727.3	682.5
25°	750.4	758.4	754.8	745.4	748.2	762.7	767.0	780.0	777.9	755.5	711.4
27.5°	772.1	762.7	764.9	754.0	764.9	786.5	788.7	798.1	797.4	779.3	737.4
30°	786.5	795.2	778.6	754.8	766.3	803.1	801.7	814.0	819.8	798.1	762.0
32.5°	832.8	825.5	811.8	780.0	781.5	802.4	808.9	824.8	828.4	815.4	785.8
35°	927.4	916.5	856.6	808.9	801.7	811.8	816.1	847.2	853.7	839.3	811.1
37.5°	1073.3	1048.7	976.5	871.0	838.5	836.4	836.4	877.5	902.1	868.9	848.6
40°	1282.0	1247.3	1169.3	985.9	886.9	895.6	904.3	926.6	923.8	902.1	897.8
42.5°	1547.8	1521.1	1436.6	1178.7	979.4	936.0	928.8	959.1	1004.6	996.0	993.1
45°	1769.5	1771.0	1716.8	1443.1	1139.0	1029.2	1034.3	1057.4	1133.9	1127.4	1126.7
47.5°	1931.3	1911.1	1903.1	1698.0	1371.6	1206.2	1198.9	1214.8	1314.5	1355.7	1374.4
50°	2078.6	2064.9	2046.1	1945.7	1651.1	1427.9	1420.7	1422.1	1574.5	1632.3	1678.5
52.5°	2261.4	2278.7	2216.6	2155.2	2012.9	1716.1	1708.1	1680.0	1869.2	1948.6	2003.5
55°	2486.7	2454.2	2384.1	2415.9	2358.9	2027.4	2012.9	1979.7	2205.0	2238.2	2296.0
57.5°	2536.5	2512.0	2584.2	2696.9	2751.8	2392.8	2387.0	2327.1	2487.4	2457.1	2620.3
60°	2660.8	2667.3	2767.7	2991.6	3086.9	2814.6	2786.4	2681.0	2761.2	2766.9	2941.0
62.5°	2788.6	2773.4	2998.1	3213.3	3359.9	3214.0	3204.6	2995.2	3086.2	3012.5	3242.9
65°	2694.7	2717.8	3039.2	3399.6	3713.8	3604.7	3596.8	3297.8	3347.6	3255.9	3365.7
67.5°	2361.0	2314.1	2764.0	3314.4	3895.8	4014.3	4005.6	3627.9	3495.0	3254.5	3110.7
70°	1730.5	1690.1	2057.0	2806.7	3635.1	4223.7	4258.4	3857.5	3435.0	2951.1	2400.0
72.5°	847.9	848.6	1152.7	1903.1	2876.0	3849.6	3866.9	3536.9	2951.1	2175.4	1359.3
75°	250.6	253.5	426.8	933.1	1859.1	2923.7	2943.2	2684.6	2045.4	1123.8	463.7
77.5°	91.7	91.7	141.6	350.3	927.4	1845.3	1843.9	1648.2	1035.7	380.6	108.3
80°	47.7	49.8	73.7	143.0	401.6	961.3	997.4	806.8	393.6	160.3	31.8
82.5°	19.5	21.7	40.4	73.7	192.8	337.3	369.1	316.3	171.2	111.9	14.4
85°	5.8	6.5	19.5	41.2	75.8	84.5	93.9	106.2	107.6	86.7	6.5
87.5°	0.7	0.7	7.9	13.7	16.6	18.1	20.9	20.9	54.9	60.7	3.6
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°	492.6	492.6	492.6	492.6	492.6	492.6	492.6	492.6	492.6	492.6	492.6
2.5°	496.2	492.6	486.8	473.8	470.9	461.5	460.8	452.1	455.0	449.2	447.1
5°	492.6	484.6	468.7	458.6	448.5	442.0	437.7	434.1	433.3	430.5	429.0
7.5°	499.1	488.2	463.7	447.8	430.5	424.7	415.3	414.6	409.5	404.5	404.5
10°	520.7	501.2	474.5	447.8	425.4	406.6	385.0	369.1	363.3	350.3	351.7
12.5°	538.1	520.7	481.7	454.3	420.3	377.7	330.1	293.2	275.9	259.3	265.8
15°	562.6	537.4	495.5	455.7	400.8	327.2	249.2	208.0	192.1	188.5	187.8
17.5°	589.4	562.6	512.8	452.1	361.1	252.8	183.5	159.6	162.5	166.8	166.1
20°	619.0	586.5	525.8	439.8	298.3	183.5	150.2	149.5	153.8	160.3	161.8
22.5°	650.0	621.9	541.7	403.0	222.5	147.3	144.4	144.4	147.3	155.3	153.8
25°	684.7	647.1	549.6	346.0	159.6	135.8	137.2	140.1	141.6	148.1	148.8
27.5°	711.4	675.3	551.8	277.3	130.0	125.7	129.3	132.9	135.1	140.1	142.3
30°	736.0	710.7	540.2	206.6	119.2	117.0	118.4	123.5	127.8	132.2	132.2
32.5°	767.0	730.9	513.5	146.6	112.7	109.1	108.3	110.5	115.6	120.6	120.6
35°	798.8	764.9	470.9	117.7	106.9	101.8	98.9	96.8	98.9	102.6	105.4
37.5°	845.0	816.1	417.5	108.3	102.6	95.3	89.6	84.5	80.9	80.2	82.3
40°	910.8	873.9	348.8	101.8	97.5	88.8	80.2	71.5	63.6	58.5	59.2
42.5°	1010.4	959.1	274.5	98.2	93.9	81.6	69.3	57.1	46.9	41.9	41.9
45°	1152.7	1071.8	201.5	94.6	89.6	72.9	57.1	42.6	32.5	29.6	30.3
47.5°	1367.2	1207.6	144.4	88.8	83.8	63.6	44.8	30.3	23.8	22.4	23.1
50°	1647.4	1368.7	112.7	82.3	76.6	53.4	33.2	22.4	18.8	18.1	18.8
52.5°	1941.4	1531.2	98.9	76.6	65.7	42.6	24.6	18.1	15.9	15.2	15.9
55°	2192.7	1635.9	85.9	67.9	52.7	31.8	19.5	15.9	13.7	11.6	11.6
57.5°	2447.0	1688.6	67.9	56.3	39.0	23.8	16.6	13.7	11.6	9.4	8.7
60°	2653.5	1726.2	48.4	41.9	27.4	18.8	14.4	12.3	9.4	7.2	6.5
62.5°	2789.3	1618.6	35.4	31.8	20.2	15.9	12.3	10.1	7.2	5.1	5.1
65°	2722.2	1469.8	27.4	22.4	15.2	12.3	10.1	7.2	5.1	2.9	2.2
67.5°	2442.6	1197.5	22.4	16.6	11.6	9.4	7.9	5.8	2.9	0.7	0.7
70°	1822.2	877.5	18.1	12.3	9.4	7.2	5.8	3.6	1.4	0.7	0.0
72.5°	996.7	480.3	14.4	10.1	7.2	5.8	4.3	2.9	1.4	0.0	0.0
75°	329.3	127.8	10.8	7.2	4.3	3.6	2.9	2.2	0.7	0.0	0.0
77.5°	79.4	33.2	8.7	6.5	3.6	2.2	1.4	0.7	0.7	0.0	0.0
80°	24.6	13.7	6.5	4.3	2.9	2.2	0.7	0.0	0.0	0.0	0.0
82.5°	10.1	6.5	2.9	2.9	2.2	0.7	0.0	0.0	0.0	0.0	0.0
85°	5.1	3.6	2.2	1.4	1.4	0.7	0.0	0.0	0.0	0.0	0.0
87.5°	3.6	1.4	0.7	0.7	0.0	0.0	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)