

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: P482558

Luminaire Tested: **IFLD-S-SA2A-827-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482558
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-827-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

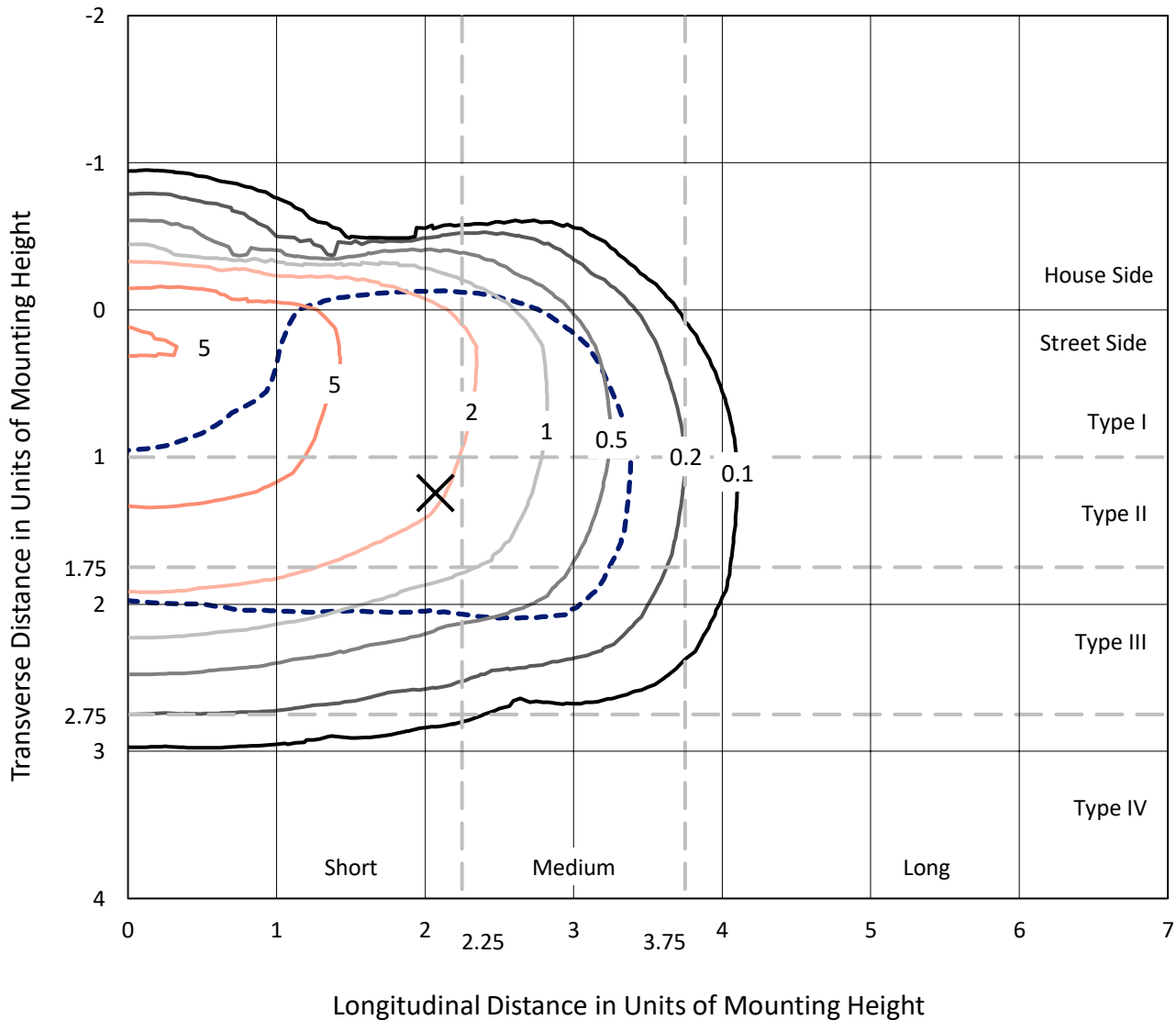
Lumens per Lamp: N/A
Luminaire Lumens: 5035.8 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8
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

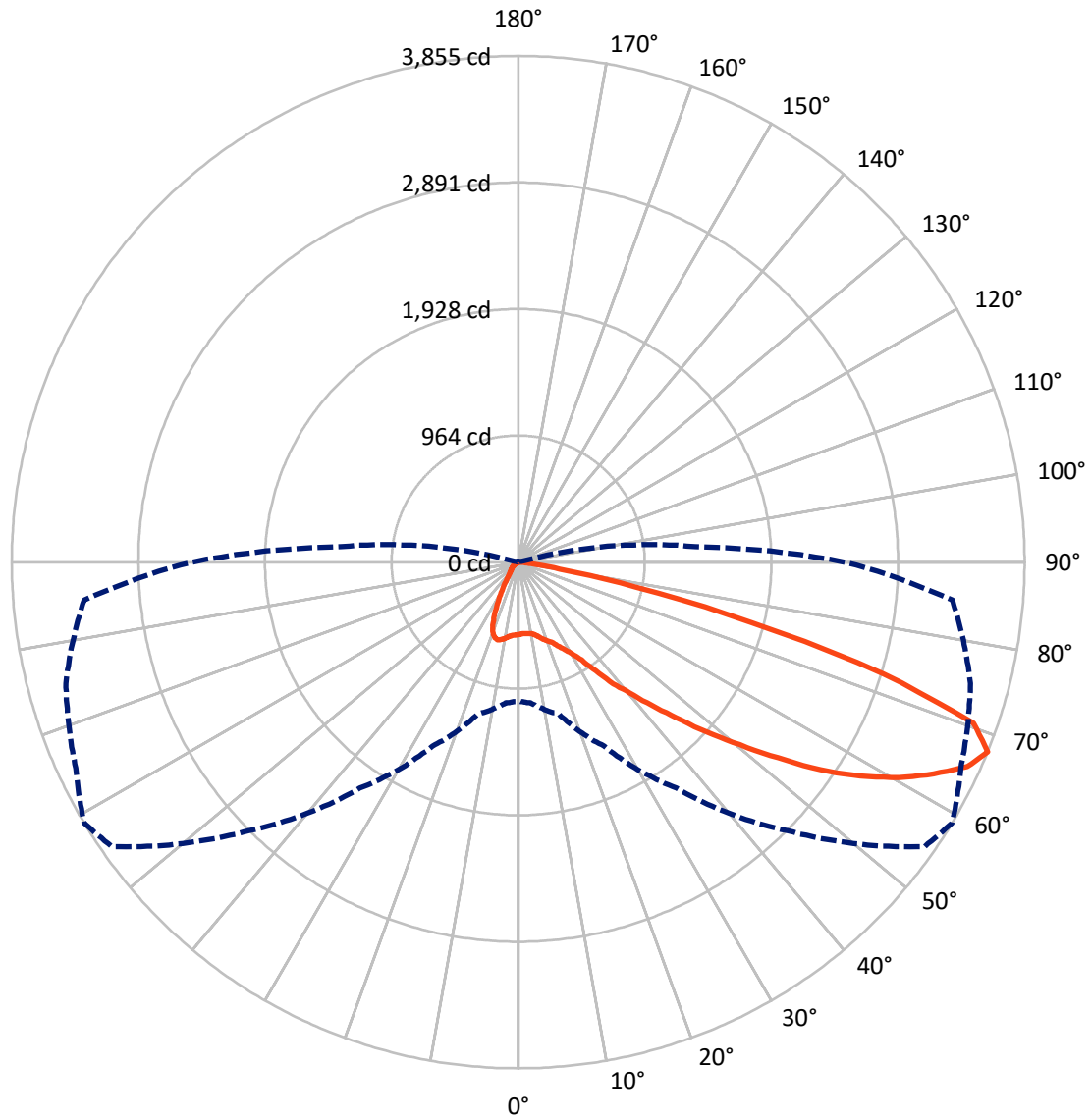
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.9 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	591.5	0.0	591.5
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	4444.3	0.0	4444.3
	% Fixture	88.3	0.0	88.3
Total	Lumens	5035.8	0.0	5035.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.5	1.0
10°-20°	151.6	3.0
20°-30°	264.9	5.3
30°-40°	466.4	9.3
40°-50°	824.4	16.4
50°-60°	1305.2	25.9
60°-70°	1447.9	28.8
70°-80°	502.4	10.0
80°-90°	20.7	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°	5035.8	100.0
0°-180°	5035.8	100.0

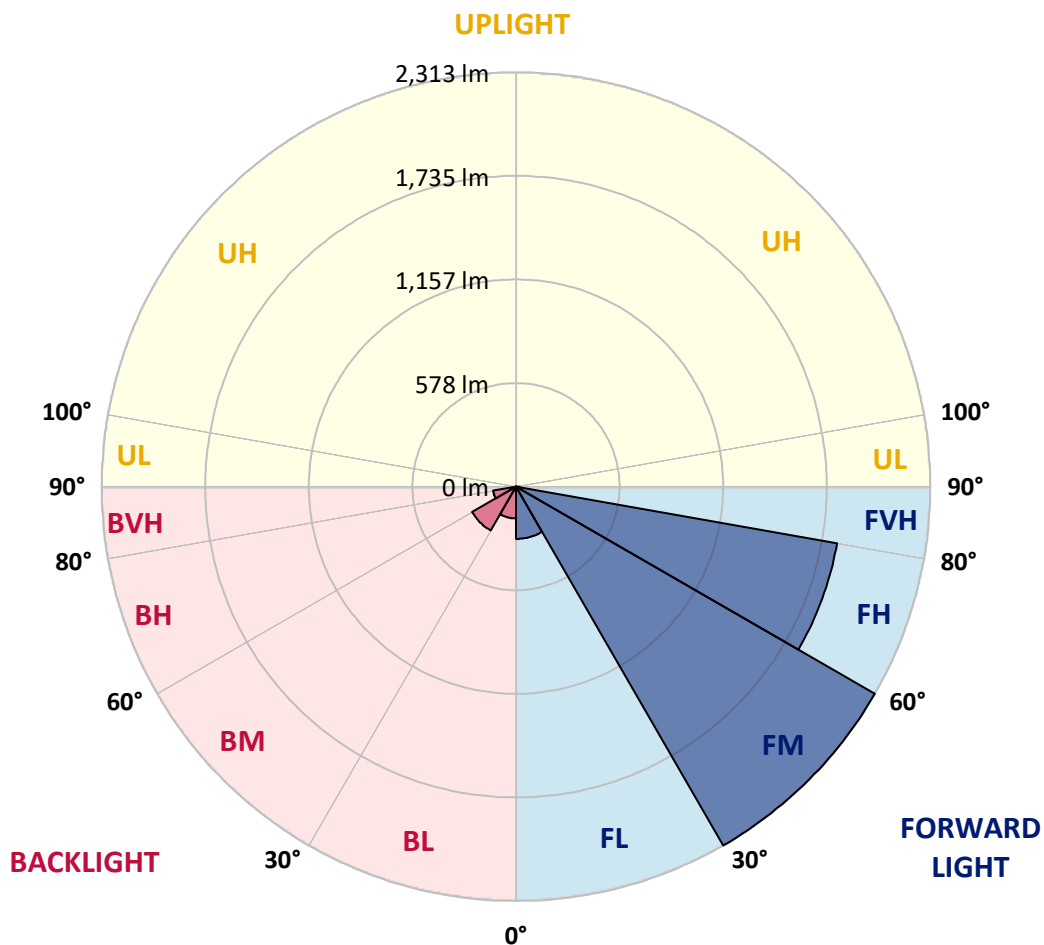


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	291.6	5.8			
FM (30°-60°)	2313.1	45.9			
FH (60°-80°)	1820.2	36.1			G2/5000
FVH (80°-90°)	19.4	0.4			G1/100
BL (0°-30°)	177.3	3.5	B1/500		
BM (30°-60°)	282.8	5.6	B1/1000		
BH (60°-80°)	130.1	2.6	B1/500		G1/500
BVH (80°-90°)	1.3	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°	552.3	552.3	552.3	552.3	552.3	552.3	552.3	552.3	552.3	552.3	552.3
2.5°	536.3	528.7	535.6	536.3	537.0	543.3	550.3	545.4	544.7	550.3	555.1
5°	514.8	511.3	519.6	523.8	530.8	536.3	547.5	548.2	548.9	555.1	563.5
7.5°	505.7	497.4	507.1	512.0	516.9	530.1	543.3	550.3	560.0	567.6	576.0
10°	487.6	493.9	496.7	505.0	518.9	534.3	550.3	553.7	575.3	581.6	601.7
12.5°	493.9	498.1	503.6	505.7	521.0	544.0	565.6	566.9	589.2	616.3	626.8
15°	509.9	507.1	509.2	512.0	530.1	548.9	583.6	589.9	610.8	641.4	667.1
17.5°	544.0	539.1	535.6	534.9	539.1	556.5	597.6	616.3	635.8	677.6	690.8
20°	629.6	625.4	611.5	575.3	562.8	569.7	614.3	640.7	667.8	714.4	736.0
22.5°	759.6	763.8	731.1	680.3	628.2	601.0	640.7	663.6	706.8	765.9	785.4
25°	913.4	905.0	865.4	806.2	724.2	660.2	683.1	708.9	761.7	810.4	818.1
27.5°	1033.7	1024.0	993.4	921.7	850.8	747.1	738.8	754.8	817.4	861.2	852.9
30°	1152.7	1156.2	1135.3	1050.4	962.8	853.6	800.7	807.6	855.6	912.0	893.2
32.5°	1304.3	1296.0	1284.2	1209.7	1106.1	989.2	898.8	887.6	908.5	982.9	960.7
35°	1445.5	1440.7	1424.7	1349.5	1259.1	1131.8	1043.5	1018.4	1013.6	1096.3	1057.4
37.5°	1568.7	1560.3	1536.0	1488.0	1400.3	1293.2	1196.5	1174.2	1173.5	1230.6	1155.5
40°	1672.3	1678.6	1675.8	1622.9	1574.9	1489.4	1341.2	1305.7	1302.9	1333.5	1289.7
42.5°	1806.6	1821.2	1813.5	1803.1	1745.4	1712.0	1544.3	1490.1	1465.7	1528.3	1488.7
45°	2009.7	2015.3	2020.1	1994.4	1936.7	1943.6	1754.4	1689.7	1683.5	1776.7	1687.6
47.5°	2199.6	2185.0	2219.1	2220.5	2217.7	2185.7	1981.2	1933.2	1941.5	2012.5	1920.7
50°	2246.9	2284.5	2378.4	2395.8	2441.0	2470.2	2233.0	2185.0	2198.9	2279.6	2174.6
52.5°	2283.8	2340.8	2434.7	2562.0	2683.8	2753.4	2514.7	2475.8	2475.1	2524.5	2379.8
55°	2348.5	2383.3	2464.7	2640.0	2871.6	2985.7	2854.2	2791.6	2735.3	2770.0	2592.7
57.5°	2342.2	2355.4	2482.0	2698.4	3020.5	3227.8	3133.2	3073.3	3001.0	2980.8	2837.5
60°	2232.3	2263.6	2405.5	2658.7	3112.3	3416.3	3393.3	3332.1	3207.6	3160.3	3025.3
62.5°	2014.6	2056.3	2167.6	2519.6	2978.7	3426.0	3572.8	3549.9	3410.7	3325.9	3270.2
65°	1632.7	1652.1	1780.1	2166.2	2676.8	3276.5	3785.0	3756.5	3628.5	3501.9	3396.1
67.5°	1057.4	1076.2	1199.3	1546.4	2102.2	2890.4	3776.6	3855.2	3716.8	3564.5	3317.5
70°	499.5	494.6	609.4	859.1	1346.8	2207.3	3521.3	3676.5	3558.9	3231.3	2755.4
72.5°	152.3	165.6	253.2	380.5	691.5	1376.7	2760.3	2905.7	2868.8	2581.5	1839.3
75°	67.5	73.0	99.5	155.8	280.3	564.9	1705.0	1834.4	1818.4	1522.8	839.6
77.5°	43.1	47.3	62.6	89.0	127.3	179.5	785.4	911.3	883.5	534.9	219.8
80°	30.6	32.7	44.5	61.2	80.0	73.7	270.6	321.4	308.2	145.4	59.1
82.5°	16.7	18.1	32.7	45.2	53.6	37.6	75.8	94.6	98.8	64.7	28.5
85°	6.3	7.7	20.2	32.0	27.8	17.4	22.3	27.1	35.5	35.5	13.2
87.5°	0.0	0.7	8.3	13.9	7.0	4.9	6.3	7.7	9.7	16.7	4.9
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°	552.3	552.3	552.3	552.3	552.3	552.3	552.3	552.3	552.3	552.3	552.3
2.5°	558.6	553.7	555.8	559.3	551.6	555.8	547.5	553.7	555.8	547.5	551.6
5°	565.6	570.4	567.6	562.1	557.2	558.6	556.5	551.6	555.8	557.2	554.4
7.5°	585.7	580.2	581.6	575.3	565.6	564.9	551.6	548.2	549.6	550.9	546.1
10°	604.5	608.0	601.0	596.2	580.2	569.7	551.6	532.2	530.1	521.7	528.7
12.5°	637.9	629.6	626.8	610.8	594.8	560.0	521.0	491.1	466.1	457.0	448.0
15°	665.7	664.3	659.5	635.1	598.3	534.9	461.2	391.6	343.6	313.7	309.6
17.5°	704.0	697.7	688.7	650.4	572.5	469.6	343.6	256.0	208.0	189.2	182.3
20°	733.2	728.3	715.8	646.9	525.9	349.9	212.9	162.8	151.0	147.5	148.2
22.5°	775.6	760.3	736.7	629.6	441.0	233.0	153.0	145.4	143.3	140.5	141.2
25°	812.5	798.6	749.2	599.6	314.4	154.4	141.9	137.7	134.3	130.8	130.1
27.5°	845.2	827.8	762.4	538.4	196.9	132.9	131.5	126.6	119.7	114.1	112.0
30°	877.2	857.0	765.9	423.6	132.9	120.3	116.9	109.2	100.2	92.5	91.1
32.5°	930.8	906.4	761.0	302.6	114.8	107.1	99.5	90.4	77.2	71.0	69.6
35°	1014.2	977.4	754.8	178.1	103.0	94.6	82.8	71.0	61.2	55.0	53.6
37.5°	1110.2	1046.2	736.7	119.0	94.6	83.5	68.2	56.3	48.0	43.1	41.7
40°	1252.9	1147.1	667.1	97.4	84.2	71.0	55.0	44.5	38.3	34.8	33.4
42.5°	1410.1	1262.6	560.0	87.7	74.4	60.5	43.8	36.2	31.3	27.8	27.8
45°	1598.6	1382.9	432.0	80.0	66.1	50.1	36.2	29.2	25.0	22.3	20.9
47.5°	1808.7	1492.2	291.5	72.3	55.7	41.0	29.9	22.3	18.1	16.0	16.0
50°	1996.5	1588.8	185.7	63.3	48.7	34.1	24.3	18.1	14.6	11.8	11.1
52.5°	2166.9	1662.6	128.0	55.7	41.7	27.8	20.2	14.6	11.1	9.0	9.0
55°	2341.5	1700.1	94.6	48.0	36.2	23.7	16.7	13.2	9.7	7.7	7.0
57.5°	2484.8	1716.1	72.3	41.7	30.6	18.8	14.6	11.1	8.3	6.3	5.6
60°	2607.3	1708.5	56.3	34.8	24.3	16.0	12.5	9.0	7.0	4.9	4.2
62.5°	2678.9	1662.6	44.5	29.9	19.5	13.9	10.4	7.7	4.9	3.5	2.8
65°	2680.3	1565.2	34.8	22.3	14.6	11.8	9.0	6.3	3.5	1.4	0.7
67.5°	2488.3	1354.4	27.8	17.4	11.8	9.0	7.0	4.9	1.4	0.0	0.0
70°	1946.4	1024.7	23.0	13.9	9.7	7.7	4.9	2.8	0.7	0.0	0.0
72.5°	1240.3	613.6	18.8	11.1	8.3	5.6	3.5	2.1	0.0	0.0	0.0
75°	518.9	189.2	14.6	9.7	6.3	4.2	2.8	0.7	0.0	0.0	0.0
77.5°	133.6	59.8	11.8	8.3	6.3	3.5	2.1	0.7	0.0	0.0	0.0
80°	39.7	22.3	9.7	7.0	4.9	2.8	1.4	0.7	0.0	0.0	0.0
82.5°	18.1	13.2	8.3	6.3	4.2	2.8	1.4	0.0	0.0	0.0	0.0
85°	7.0	4.2	4.2	3.5	3.5	2.1	0.7	0.0	0.0	0.0	0.0
87.5°	2.8	1.4	1.4	1.4	0.7	0.7	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)