

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: P482597

Luminaire Tested: **IFLD-S-SA2A-830-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482597
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-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

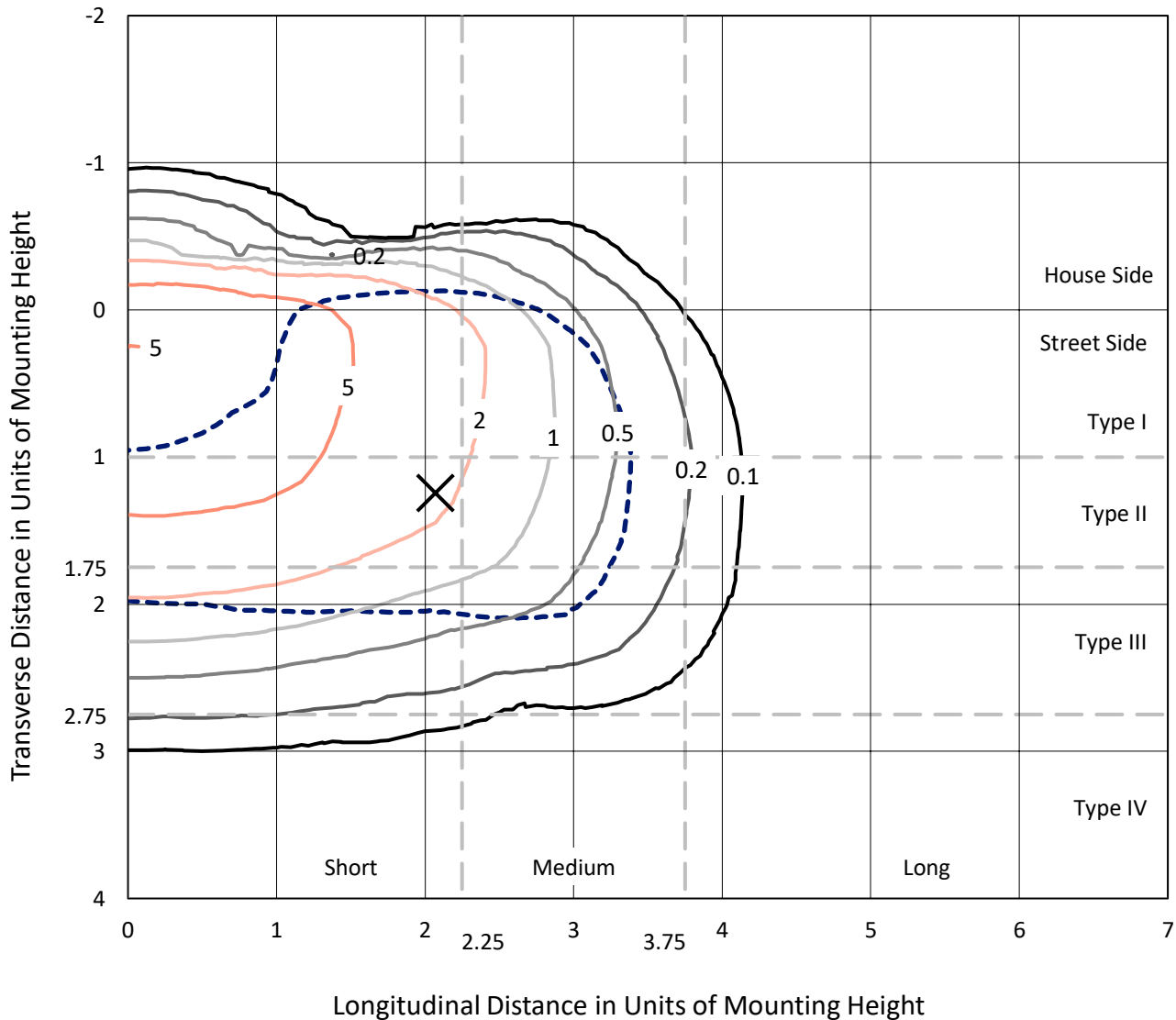
Lumens per Lamp: N/A
Luminaire Lumens: 5443.4 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

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

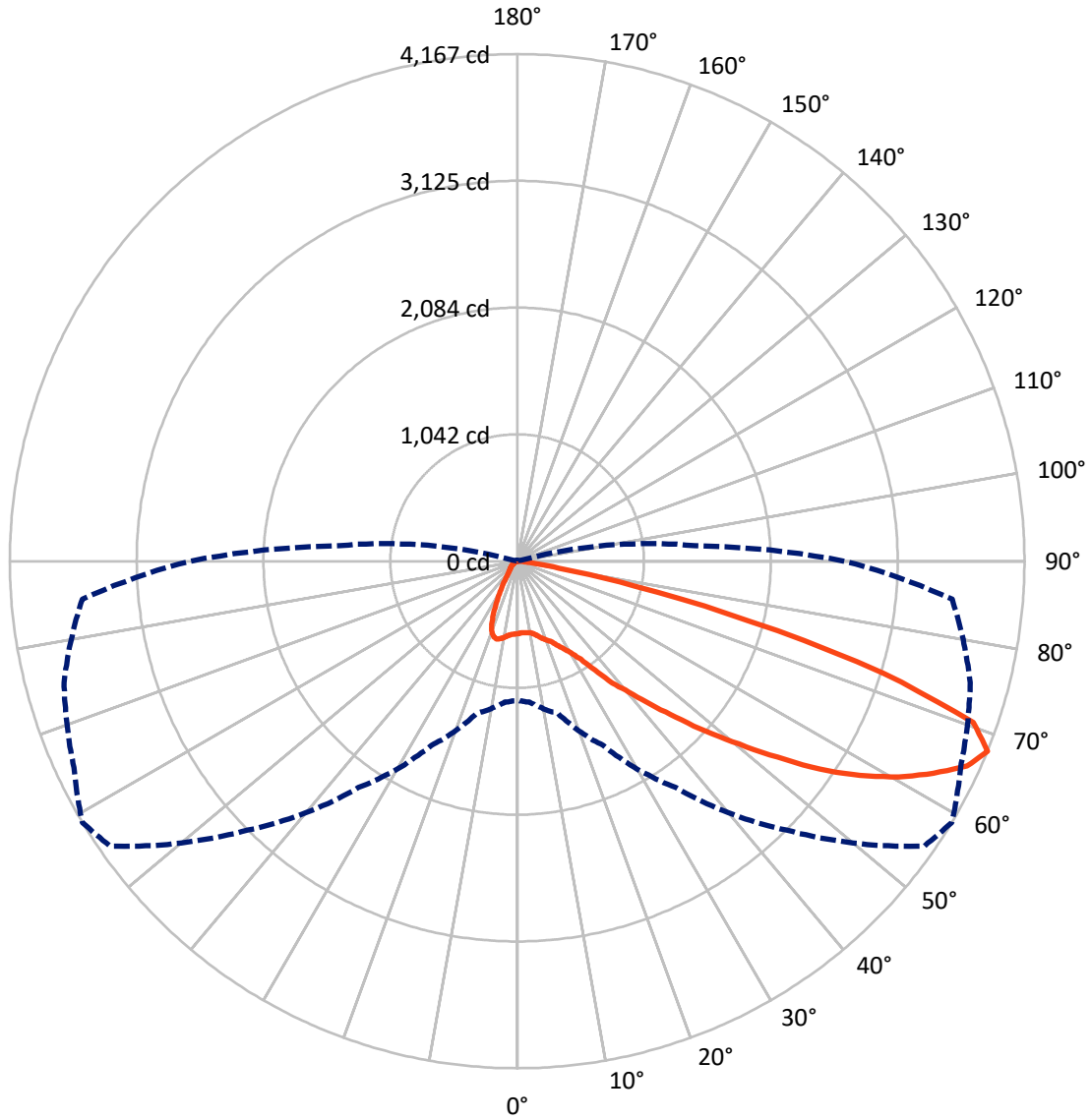
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.5 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	639.4	0.0	639.4
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	4804.0	0.0	4804.0
	% Fixture	88.3	0.0	88.3
Total	Lumens	5443.4	0.0	5443.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.7	1.0
10°-20°	163.8	3.0
20°-30°	286.3	5.3
30°-40°	504.1	9.3
40°-50°	891.1	16.4
50°-60°	1410.9	25.9
60°-70°	1565.1	28.8
70°-80°	543.0	10.0
80°-90°	22.4	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°	5443.4	100.0
0°-180°	5443.4	100.0

Coefficient of Utilization

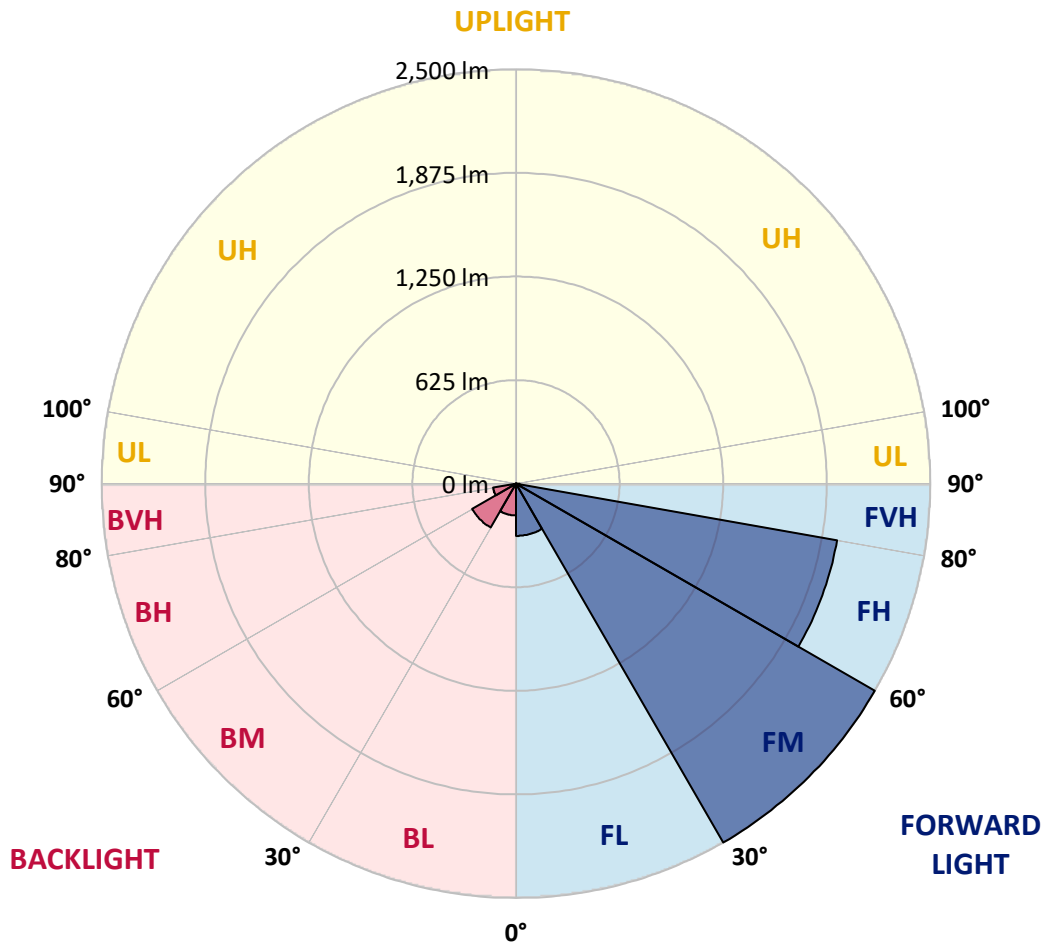


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	315.2	5.8			
FM (30°-60°)	2500.4	45.9			
FH (60°-80°)	1967.5	36.1			G2/5000
FVH (80°-90°)	20.9	0.4			G1/100
BL (0°-30°)	191.6	3.5	B1/500		
BM (30°-60°)	305.7	5.6	B1/1000		
BH (60°-80°)	140.6	2.6	B1/500		G1/500
BVH (80°-90°)	1.5	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°	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0
2.5°	579.8	571.5	579.0	579.8	580.5	587.3	594.8	589.5	588.8	594.8	600.1
5°	556.4	552.7	561.7	566.2	573.7	579.8	591.8	592.5	593.3	600.1	609.1
7.5°	546.7	537.6	548.2	553.4	558.7	573.0	587.3	594.8	605.3	613.6	622.6
10°	527.1	533.9	536.9	545.9	561.0	577.5	594.8	598.6	621.9	628.6	650.4
12.5°	533.9	538.4	544.4	546.7	563.2	588.0	611.3	612.8	636.9	666.2	677.5
15°	551.2	548.2	550.4	553.4	573.0	593.3	630.9	637.7	660.2	693.3	721.1
17.5°	588.0	582.8	579.0	578.2	582.8	601.6	645.9	666.2	687.3	732.4	746.7
20°	680.5	676.0	661.0	621.9	608.3	615.8	664.0	692.5	721.9	772.3	795.6
22.5°	821.1	825.6	790.3	735.4	679.0	649.7	692.5	717.4	764.0	827.9	848.9
25°	987.3	978.3	935.4	871.5	782.8	713.6	738.4	766.2	823.4	876.0	884.3
27.5°	1117.4	1106.9	1073.8	996.3	919.6	807.6	798.6	815.9	883.5	930.9	921.9
30°	1246.0	1249.7	1227.2	1135.4	1040.7	922.6	865.5	873.0	924.9	985.8	965.5
32.5°	1409.9	1400.9	1388.1	1307.6	1195.6	1069.3	971.5	959.5	982.0	1062.5	1038.4
35°	1562.5	1557.3	1540.0	1458.8	1361.0	1223.4	1127.9	1100.9	1095.6	1185.1	1143.0
37.5°	1695.6	1686.6	1660.3	1608.4	1513.7	1397.9	1293.4	1269.3	1268.5	1330.2	1249.0
40°	1807.7	1814.5	1811.4	1754.3	1702.4	1609.9	1449.8	1411.4	1408.4	1441.5	1394.1
42.5°	1952.8	1968.6	1960.3	1949.0	1886.6	1850.5	1669.3	1610.7	1584.4	1652.0	1609.2
45°	2172.4	2178.4	2183.7	2155.8	2093.4	2100.9	1896.4	1826.5	1819.7	1920.5	1824.2
47.5°	2377.7	2361.9	2398.7	2400.2	2397.2	2362.6	2141.5	2089.7	2098.7	2175.4	2076.1
50°	2428.8	2469.4	2570.9	2589.7	2638.6	2670.2	2413.8	2361.9	2376.9	2464.1	2350.6
52.5°	2468.6	2530.3	2631.8	2769.4	2901.0	2976.2	2718.3	2676.2	2675.4	2728.8	2572.4
55°	2538.6	2576.2	2664.2	2853.6	3104.0	3227.4	3085.2	3017.6	2956.7	2994.3	2802.5
57.5°	2531.8	2546.1	2683.0	2916.8	3265.0	3489.0	3386.8	3322.1	3243.9	3222.1	3067.2
60°	2413.0	2446.8	2600.2	2873.9	3364.2	3692.8	3668.0	3601.8	3467.2	3416.1	3270.2
62.5°	2177.6	2222.8	2343.1	2723.6	3219.8	3703.3	3862.0	3837.2	3686.8	3595.1	3534.9
65°	1764.8	1785.9	1924.2	2341.6	2893.5	3541.7	4091.3	4060.5	3922.2	3785.3	3671.0
67.5°	1143.0	1163.3	1296.4	1671.6	2272.4	3124.3	4082.3	4167.3	4017.7	3853.0	3586.0
70°	539.9	534.6	658.7	928.7	1455.8	2385.9	3806.4	3974.0	3847.0	3492.8	2978.5
72.5°	164.7	179.0	273.7	411.3	747.4	1488.1	2983.7	3140.9	3101.0	2790.5	1988.2
75°	72.9	79.0	107.5	168.4	303.0	610.6	1843.0	1982.9	1965.6	1646.0	907.6
77.5°	46.6	51.1	67.7	96.2	137.6	194.0	848.9	985.1	955.0	578.2	237.6
80°	33.1	35.3	48.1	66.2	86.5	79.7	292.5	347.4	333.1	157.2	63.9
82.5°	18.0	19.6	35.3	48.9	57.9	40.6	82.0	102.3	106.8	69.9	30.8
85°	6.8	8.3	21.8	34.6	30.1	18.8	24.1	29.3	38.3	38.3	14.3
87.5°	0.0	0.8	9.0	15.0	7.5	5.3	6.8	8.3	10.5	18.0	5.3
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°	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0
2.5°	603.8	598.6	600.8	604.6	596.3	600.8	591.8	598.6	600.8	591.8	596.3
5°	611.3	616.6	613.6	607.6	602.3	603.8	601.6	596.3	600.8	602.3	599.3
7.5°	633.1	627.1	628.6	621.9	611.3	610.6	596.3	592.5	594.0	595.5	590.3
10°	653.4	657.2	649.7	644.4	627.1	615.8	596.3	575.2	573.0	564.0	571.5
12.5°	689.5	680.5	677.5	660.2	642.9	605.3	563.2	530.9	503.8	494.0	484.3
15°	719.6	718.1	712.8	686.5	646.7	578.2	498.5	423.3	371.5	339.1	334.6
17.5°	761.0	754.2	744.4	703.1	618.9	507.6	371.5	276.7	224.8	204.5	197.0
20°	792.6	787.3	773.8	699.3	568.5	378.2	230.1	176.0	163.2	159.4	160.2
22.5°	838.4	821.9	796.3	680.5	476.7	251.9	165.4	157.2	154.9	151.9	152.6
25°	878.3	863.2	809.8	648.2	339.9	166.9	153.4	148.9	145.1	141.4	140.6
27.5°	913.6	894.8	824.1	582.0	212.8	143.6	142.1	136.9	129.3	123.3	121.1
30°	948.2	926.4	827.9	457.9	143.6	130.1	126.3	118.1	108.3	100.0	98.5
32.5°	1006.1	979.8	822.6	327.1	124.1	115.8	107.5	97.8	83.5	76.7	75.2
35°	1096.3	1056.5	815.9	192.5	111.3	102.3	89.5	76.7	66.2	59.4	57.9
37.5°	1200.1	1130.9	796.3	128.6	102.3	90.2	73.7	60.9	51.9	46.6	45.1
40°	1354.3	1240.0	721.1	105.3	91.0	76.7	59.4	48.1	41.4	37.6	36.1
42.5°	1524.2	1364.8	605.3	94.7	80.5	65.4	47.4	39.1	33.8	30.1	30.1
45°	1728.0	1494.9	467.0	86.5	71.4	54.1	39.1	31.6	27.1	24.1	22.6
47.5°	1955.1	1612.9	315.1	78.2	60.2	44.4	32.3	24.1	19.6	17.3	17.3
50°	2158.1	1717.4	200.8	68.4	52.6	36.8	26.3	19.6	15.8	12.8	12.0
52.5°	2342.3	1797.2	138.4	60.2	45.1	30.1	21.8	15.8	12.0	9.8	9.8
55°	2531.1	1837.8	102.3	51.9	39.1	25.6	18.0	14.3	10.5	8.3	7.5
57.5°	2686.0	1855.1	78.2	45.1	33.1	20.3	15.8	12.0	9.0	6.8	6.0
60°	2818.3	1846.8	60.9	37.6	26.3	17.3	13.5	9.8	7.5	5.3	4.5
62.5°	2895.8	1797.2	48.1	32.3	21.1	15.0	11.3	8.3	5.3	3.8	3.0
65°	2897.3	1691.9	37.6	24.1	15.8	12.8	9.8	6.8	3.8	1.5	0.8
67.5°	2689.7	1464.0	30.1	18.8	12.8	9.8	7.5	5.3	1.5	0.0	0.0
70°	2104.0	1107.6	24.8	15.0	10.5	8.3	5.3	3.0	0.8	0.0	0.0
72.5°	1340.7	663.2	20.3	12.0	9.0	6.0	3.8	2.3	0.0	0.0	0.0
75°	561.0	204.5	15.8	10.5	6.8	4.5	3.0	0.8	0.0	0.0	0.0
77.5°	144.4	64.7	12.8	9.0	6.8	3.8	2.3	0.8	0.0	0.0	0.0
80°	42.9	24.1	10.5	7.5	5.3	3.0	1.5	0.8	0.0	0.0	0.0
82.5°	19.6	14.3	9.0	6.8	4.5	3.0	1.5	0.0	0.0	0.0	0.0
85°	7.5	4.5	4.5	3.8	3.8	2.3	0.8	0.0	0.0	0.0	0.0
87.5°	3.0	1.5	1.5	1.5	0.8	0.8	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)