

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: P482324

Luminaire Tested: **IFLD-S-SA2A-727-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482324
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-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

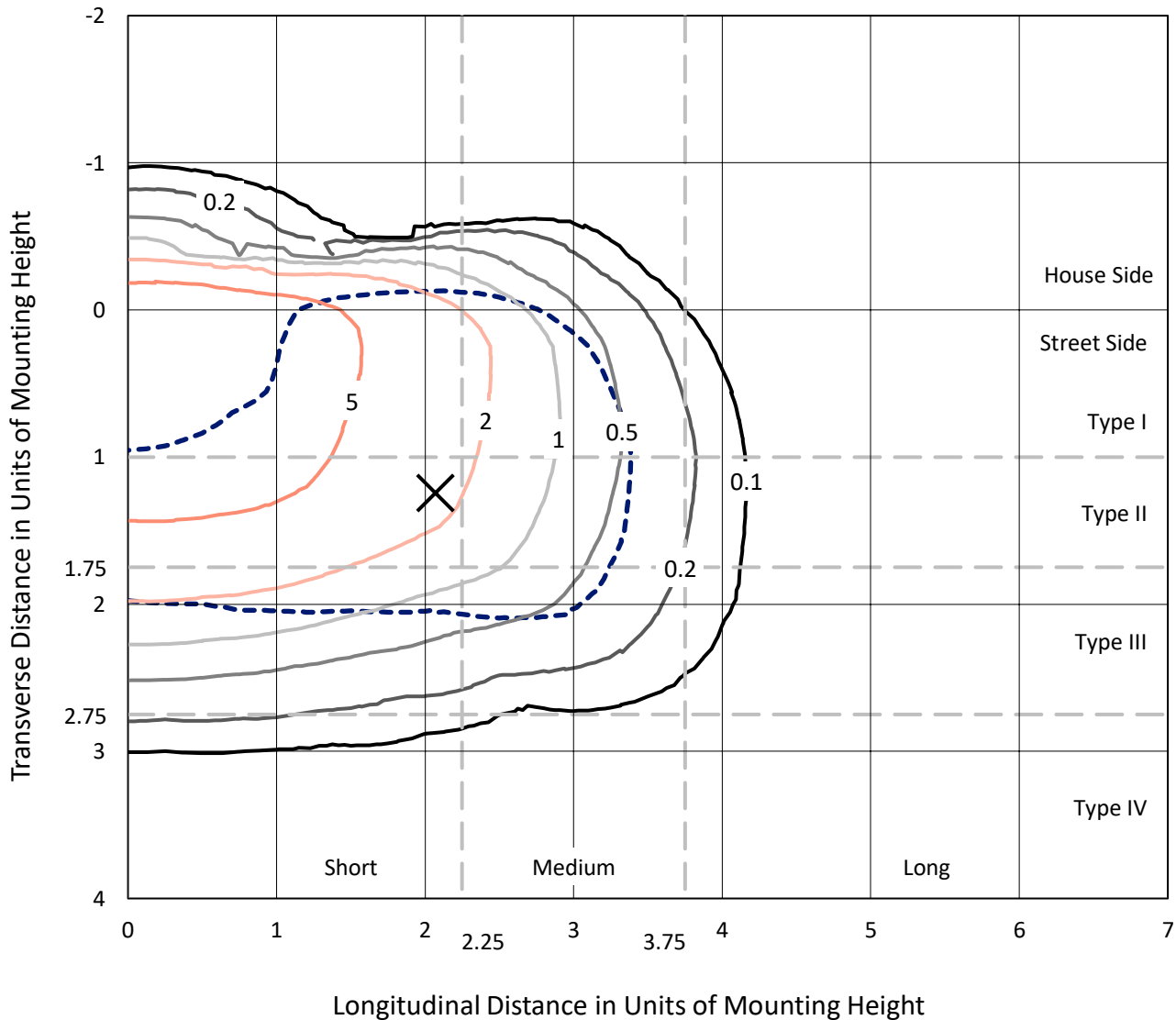
Lumens per Lamp: N/A
Luminaire Lumens: 5729.1 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

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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 CATALOG NUMBER: IFLD-S-SA2A-727-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

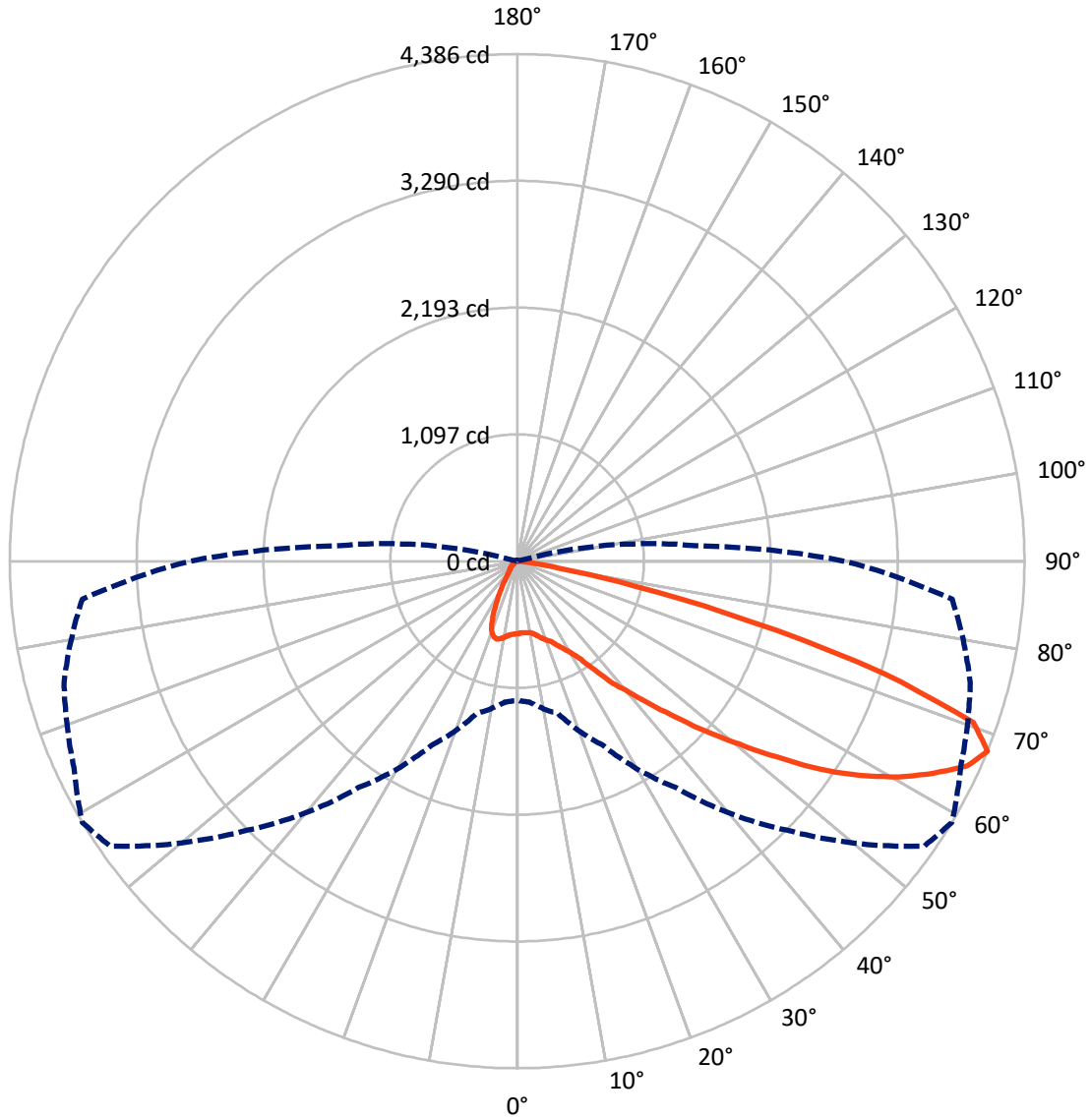
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9 fc
 Type III - Short - N/A

REPORT NUMBER: P482324
CATALOG NUMBER: IFLD-S-SA2A-727-U-T3-HSS

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	673.0	0.0	673.0
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	5056.1	0.0	5056.1
	% Fixture	88.3	0.0	88.3
Total	Lumens	5729.1	0.0	5729.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.7	1.0
10°-20°	172.4	3.0
20°-30°	301.3	5.3
30°-40°	530.5	9.3
40°-50°	937.9	16.4
50°-60°	1484.9	25.9
60°-70°	1647.2	28.8
70°-80°	571.5	10.0
80°-90°	23.5	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°	5729.1	100.0
0°-180°	5729.1	100.0

Coefficient of Utilization

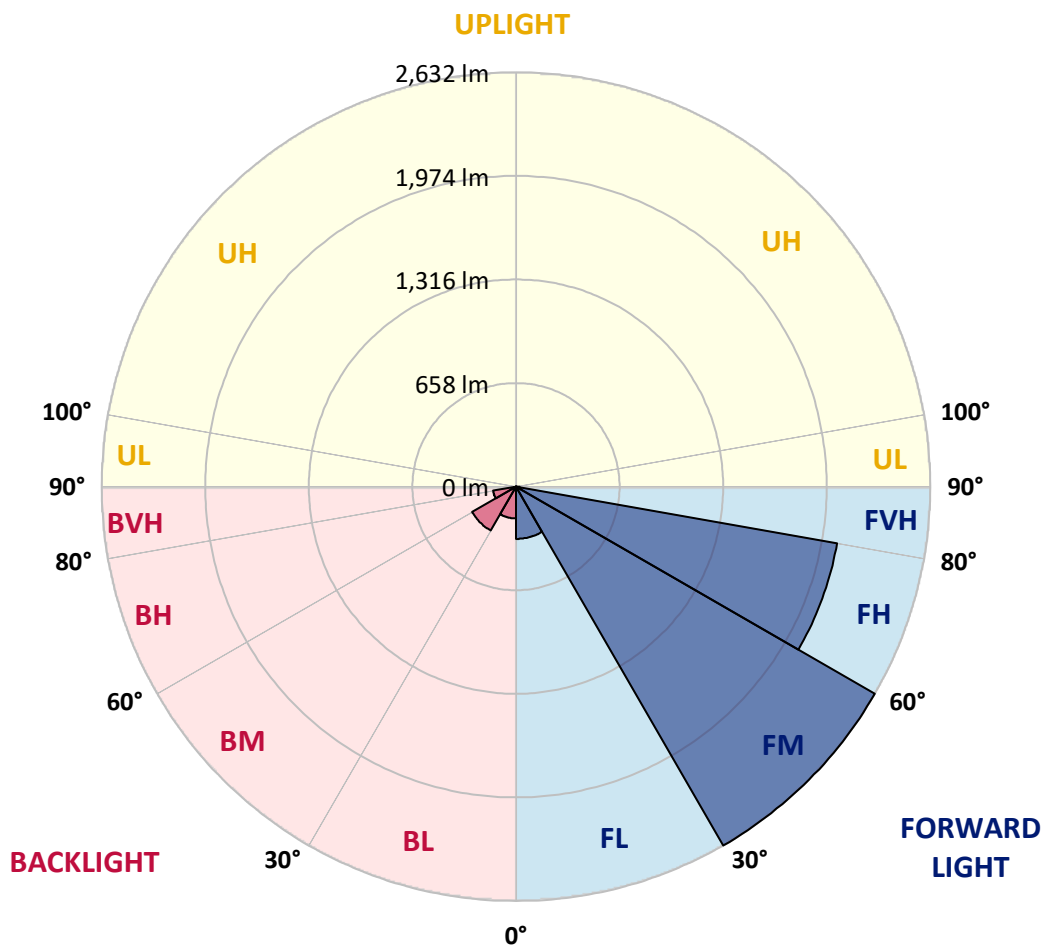


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	331.8	5.8			
FM (30°-60°)	2631.6	45.9			
FH (60°-80°)	2070.8	36.1			G2/5000
FVH (80°-90°)	22.0	0.4			G1/100
BL (0°-30°)	201.7	3.5	B1/500		
BM (30°-60°)	321.8	5.6	B1/1000		
BH (60°-80°)	148.0	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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CATALOG NUMBER: IFLD-S-SA2A-727-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	628.4	628.4	628.4	628.4	628.4	628.4	628.4	628.4	628.4	628.4	628.4
2.5°	610.2	601.5	609.4	610.2	611.0	618.1	626.0	620.5	619.7	626.0	631.5
5°	585.6	581.7	591.2	595.9	603.8	610.2	622.8	623.6	624.4	631.5	641.0
7.5°	575.4	565.9	576.9	582.5	588.0	603.1	618.1	626.0	637.1	645.8	655.3
10°	554.8	561.9	565.1	574.6	590.4	607.8	626.0	630.0	654.5	661.6	684.6
12.5°	561.9	566.6	573.0	575.4	592.8	618.9	643.4	645.0	670.3	701.2	713.1
15°	580.1	576.9	579.3	582.5	603.1	624.4	664.0	671.1	694.9	729.7	759.0
17.5°	618.9	613.3	609.4	608.6	613.3	633.1	679.8	701.2	723.3	770.8	785.9
20°	716.2	711.5	695.6	654.5	640.3	648.2	698.8	728.9	759.8	812.8	837.3
22.5°	864.2	869.0	831.8	774.0	714.6	683.8	728.9	755.0	804.1	871.3	893.5
25°	1039.1	1029.6	984.5	917.2	823.9	751.0	777.2	806.4	866.6	922.0	930.7
27.5°	1176.0	1165.0	1130.1	1048.6	967.9	850.0	840.5	858.7	929.9	979.8	970.3
30°	1311.4	1315.3	1291.6	1195.0	1095.3	971.1	910.9	918.8	973.4	1037.5	1016.2
32.5°	1483.9	1474.4	1460.9	1376.3	1258.3	1125.4	1022.5	1009.8	1033.6	1118.3	1092.9
35°	1644.5	1639.0	1620.8	1535.3	1432.5	1287.6	1187.1	1158.6	1153.1	1247.3	1202.9
37.5°	1784.6	1775.1	1747.4	1692.8	1593.1	1471.2	1361.2	1335.9	1335.1	1400.0	1314.5
40°	1902.5	1909.7	1906.5	1846.4	1791.8	1694.4	1525.8	1485.5	1482.3	1517.1	1467.3
42.5°	2055.3	2071.9	2063.2	2051.3	1985.6	1947.7	1756.9	1695.2	1667.5	1738.7	1693.6
45°	2286.4	2292.7	2298.3	2269.0	2203.3	2211.2	1995.9	1922.3	1915.2	2021.3	1920.0
47.5°	2502.4	2485.8	2524.6	2526.2	2523.0	2486.6	2253.9	2199.3	2208.8	2289.5	2185.1
50°	2556.3	2599.0	2705.8	2725.6	2777.1	2810.3	2540.4	2485.8	2501.6	2593.4	2473.9
52.5°	2598.2	2663.1	2769.9	2914.8	3053.3	3132.4	2860.9	2816.6	2815.8	2872.0	2707.4
55°	2671.8	2711.4	2804.0	3003.4	3266.9	3396.7	3247.2	3175.9	3111.8	3151.4	2949.6
57.5°	2664.7	2679.7	2823.7	3069.9	3436.3	3672.1	3564.5	3496.4	3414.1	3391.2	3228.2
60°	2539.6	2575.2	2736.7	3024.8	3540.8	3886.6	3860.5	3790.9	3649.2	3595.4	3441.8
62.5°	2291.9	2339.4	2466.0	2866.5	3388.8	3897.7	4064.7	4038.6	3880.3	3783.7	3720.4
65°	1857.4	1879.6	2025.2	2464.4	3045.3	3727.5	4306.1	4273.6	4128.0	3984.0	3863.7
67.5°	1202.9	1224.3	1364.4	1759.3	2391.6	3288.3	4296.6	4386.0	4228.5	4055.2	3774.2
70°	568.2	562.7	693.3	977.4	1532.2	2511.1	4006.1	4182.6	4048.9	3676.1	3134.8
72.5°	173.3	188.4	288.1	432.9	786.7	1566.2	3140.3	3305.7	3263.8	2936.9	2092.5
75°	76.8	83.1	113.2	177.3	318.9	642.6	1939.7	2086.9	2068.7	1732.4	955.2
77.5°	49.1	53.8	71.2	101.3	144.8	204.2	893.5	1036.7	1005.1	608.6	250.1
80°	34.8	37.2	50.7	69.6	91.0	83.9	307.9	365.6	350.6	165.4	67.3
82.5°	19.0	20.6	37.2	51.4	60.9	42.7	86.3	107.6	112.4	73.6	32.4
85°	7.1	8.7	23.0	36.4	31.7	19.8	25.3	30.9	40.4	40.4	15.0
87.5°	0.0	0.8	9.5	15.8	7.9	5.5	7.1	8.7	11.1	19.0	5.5
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: P482324
 CATALOG NUMBER: IFLD-S-SA2A-727-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	628.4	628.4	628.4	628.4	628.4	628.4	628.4	628.4	628.4	628.4	628.4
2.5°	635.5	630.0	632.3	636.3	627.6	632.3	622.8	630.0	632.3	622.8	627.6
5°	643.4	649.0	645.8	639.5	633.9	635.5	633.1	627.6	632.3	633.9	630.8
7.5°	666.4	660.0	661.6	654.5	643.4	642.6	627.6	623.6	625.2	626.8	621.3
10°	687.7	691.7	683.8	678.2	660.0	648.2	627.6	605.4	603.1	593.6	601.5
12.5°	725.7	716.2	713.1	694.9	676.7	637.1	592.8	558.7	530.2	520.0	509.7
15°	757.4	755.8	750.3	722.6	680.6	608.6	524.7	445.6	391.0	356.9	352.2
17.5°	800.9	793.8	783.5	740.0	651.3	534.2	391.0	291.2	236.6	215.3	207.3
20°	834.1	828.6	814.4	736.0	598.3	398.1	242.2	185.2	171.7	167.8	168.6
22.5°	882.4	865.0	838.1	716.2	501.8	265.1	174.1	165.4	163.0	159.9	160.7
25°	924.4	908.5	852.3	682.2	357.7	175.7	161.4	156.7	152.7	148.8	148.0
27.5°	961.6	941.8	867.4	612.6	224.0	151.2	149.6	144.0	136.1	129.8	127.4
30°	998.0	975.0	871.3	482.0	151.2	136.9	133.0	124.3	114.0	105.3	103.7
32.5°	1058.9	1031.2	865.8	344.3	130.6	121.9	113.2	102.9	87.8	80.7	79.1
35°	1153.9	1111.9	858.7	202.6	117.1	107.6	94.2	80.7	69.6	62.5	60.9
37.5°	1263.1	1190.3	838.1	135.3	107.6	95.0	77.6	64.1	54.6	49.1	47.5
40°	1425.3	1305.0	759.0	110.8	95.8	80.7	62.5	50.7	43.5	39.6	38.0
42.5°	1604.2	1436.4	637.1	99.7	84.7	68.9	49.9	41.2	35.6	31.7	31.7
45°	1818.7	1573.3	491.5	91.0	75.2	57.0	41.2	33.2	28.5	25.3	23.7
47.5°	2057.7	1697.6	331.6	82.3	63.3	46.7	34.0	25.3	20.6	18.2	18.2
50°	2271.3	1807.6	211.3	72.0	55.4	38.8	27.7	20.6	16.6	13.5	12.7
52.5°	2465.2	1891.5	145.6	63.3	47.5	31.7	23.0	16.6	12.7	10.3	10.3
55°	2663.9	1934.2	107.6	54.6	41.2	26.9	19.0	15.0	11.1	8.7	7.9
57.5°	2826.9	1952.4	82.3	47.5	34.8	21.4	16.6	12.7	9.5	7.1	6.3
60°	2966.2	1943.7	64.1	39.6	27.7	18.2	14.2	10.3	7.9	5.5	4.7
62.5°	3047.7	1891.5	50.7	34.0	22.2	15.8	11.9	8.7	5.5	4.0	3.2
65°	3049.3	1780.7	39.6	25.3	16.6	13.5	10.3	7.1	4.0	1.6	0.8
67.5°	2830.9	1540.9	31.7	19.8	13.5	10.3	7.9	5.5	1.6	0.0	0.0
70°	2214.4	1165.7	26.1	15.8	11.1	8.7	5.5	3.2	0.8	0.0	0.0
72.5°	1411.1	698.0	21.4	12.7	9.5	6.3	4.0	2.4	0.0	0.0	0.0
75°	590.4	215.3	16.6	11.1	7.1	4.7	3.2	0.8	0.0	0.0	0.0
77.5°	152.0	68.1	13.5	9.5	7.1	4.0	2.4	0.8	0.0	0.0	0.0
80°	45.1	25.3	11.1	7.9	5.5	3.2	1.6	0.8	0.0	0.0	0.0
82.5°	20.6	15.0	9.5	7.1	4.7	3.2	1.6	0.0	0.0	0.0	0.0
85°	7.9	4.7	4.7	4.0	4.0	2.4	0.8	0.0	0.0	0.0	0.0
87.5°	3.2	1.6	1.6	1.6	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)