

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: P482602

Luminaire Tested: **IFLD-S-SA3A-830-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482602
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-830-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

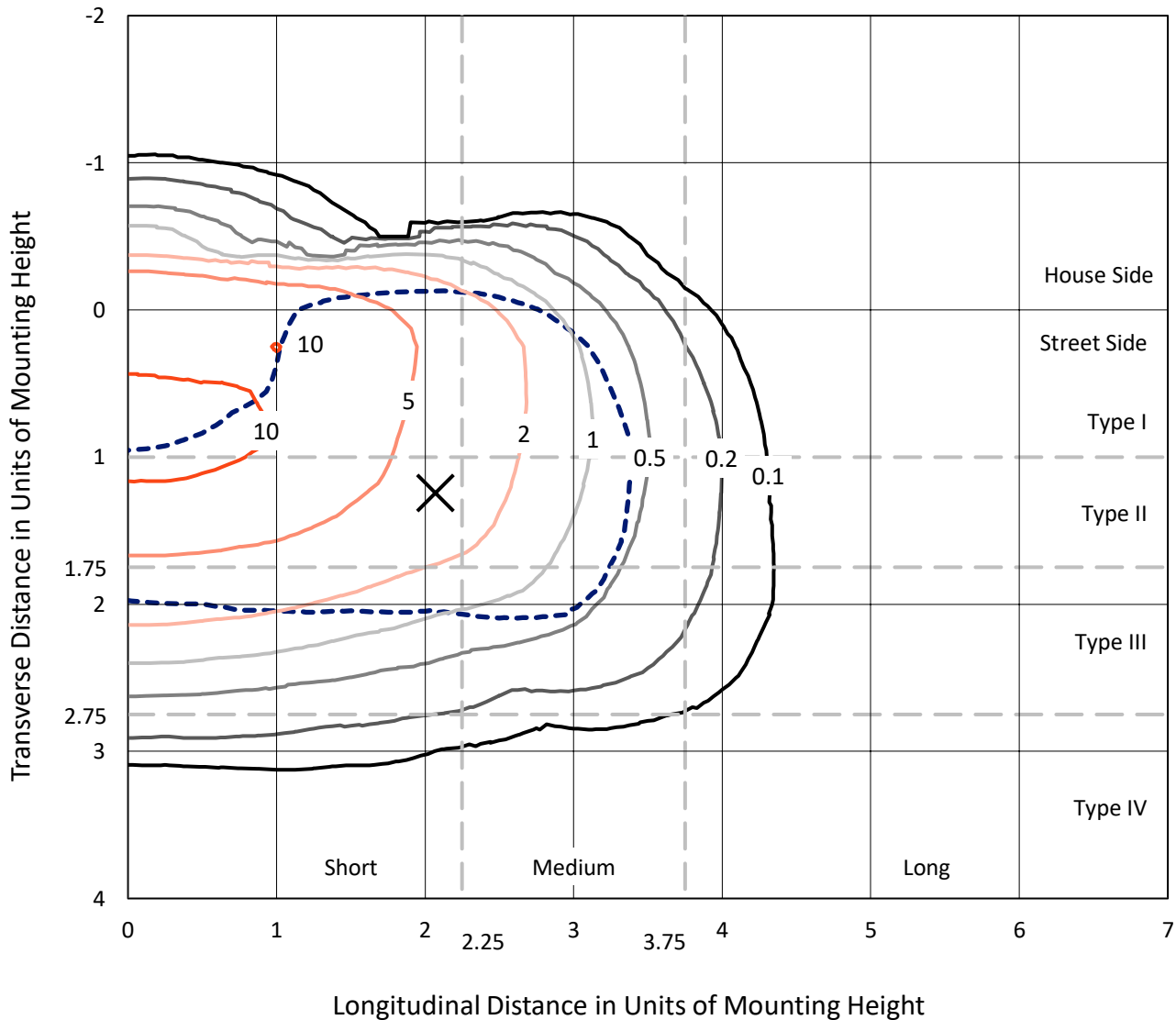
Lumens per Lamp: N/A
Luminaire Lumens: 8112.2 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 94.8
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

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Iso-Footcandle Lines of Horizontal Illumination

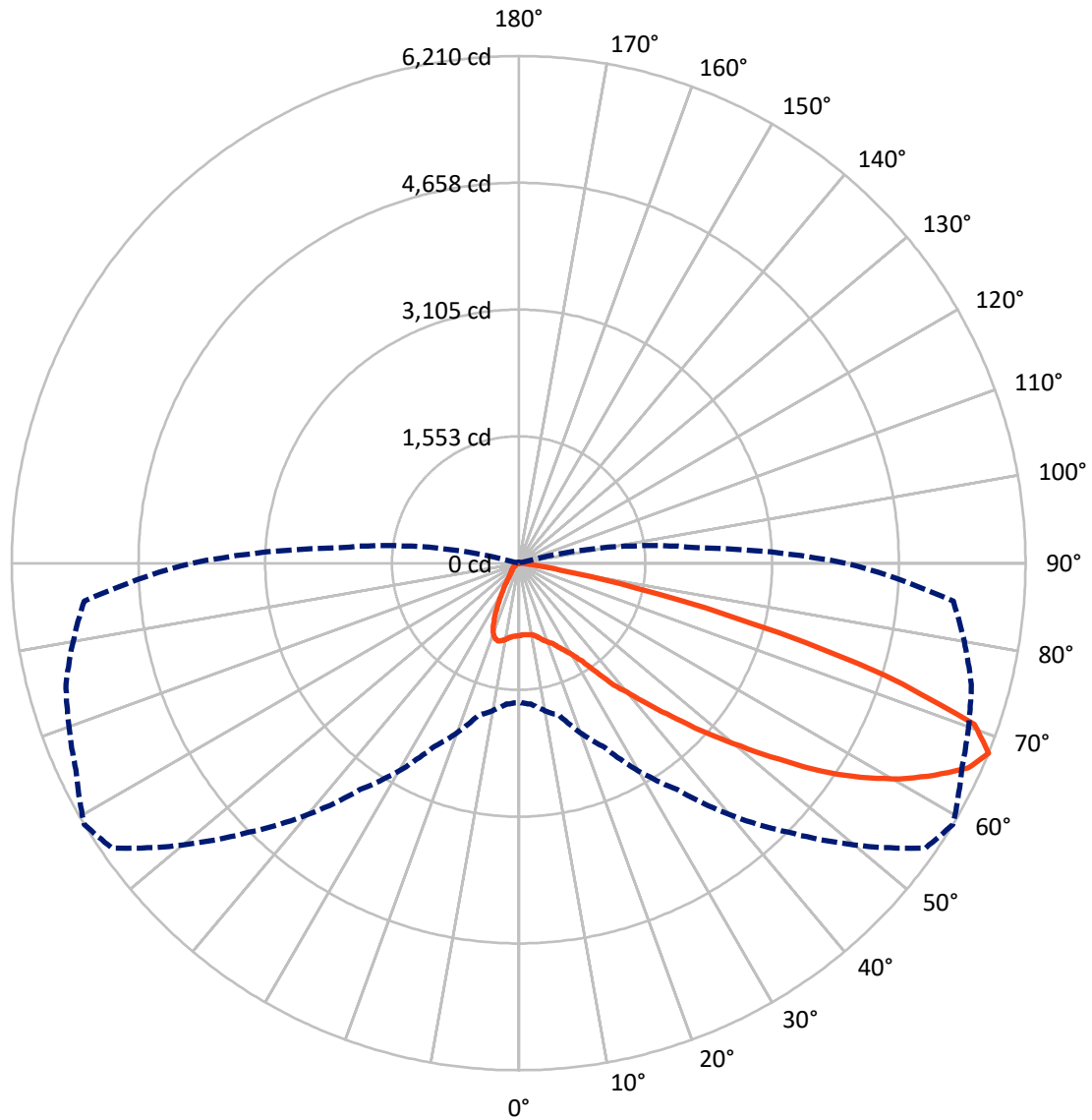
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.7 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	952.9	0.0	952.9
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	7159.3	0.0	7159.3
	% Fixture	88.3	0.0	88.3
Total	Lumens	8112.2	0.0	8112.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.5	1.0
10°-20°	244.1	3.0
20°-30°	426.7	5.3
30°-40°	751.2	9.3
40°-50°	1328.0	16.4
50°-60°	2102.6	25.9
60°-70°	2332.4	28.8
70°-80°	809.3	10.0
80°-90°	33.3	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°	8112.2	100.0
0°-180°	8112.2	100.0

Coefficient of Utilization

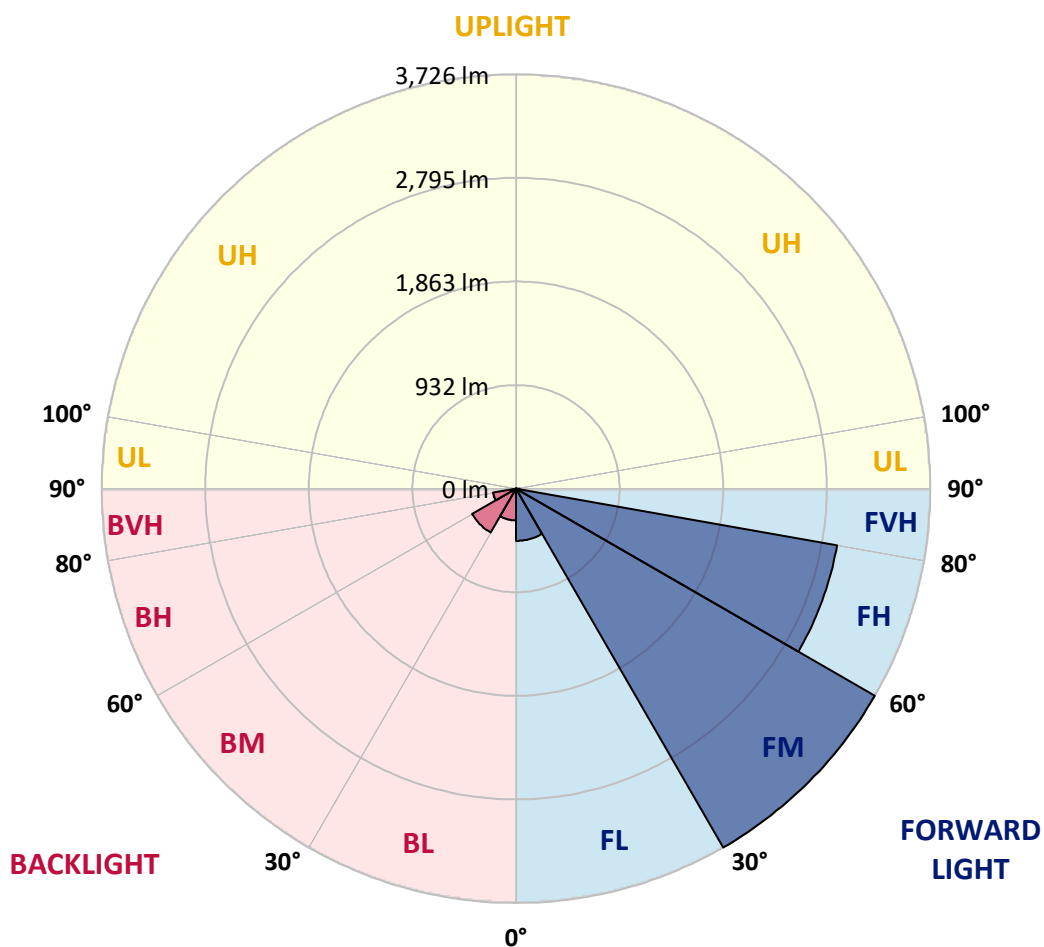


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	469.8	5.8			
FM (30°-60°)	3726.2	45.9			
FH (60°-80°)	2932.1	36.1			G2/5000
FVH (80°-90°)	31.2	0.4			G1/100
BL (0°-30°)	285.6	3.5	B1/500		
BM (30°-60°)	455.6	5.6	B1/1000		
BH (60°-80°)	209.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	889.8	889.8	889.8	889.8	889.8	889.8	889.8	889.8	889.8	889.8	889.8
2.5°	864.0	851.7	862.9	864.0	865.1	875.2	886.4	878.6	877.4	886.4	894.2
5°	829.2	823.6	837.1	843.8	855.0	864.0	881.9	883.0	884.2	894.2	907.7
7.5°	814.7	801.2	816.9	824.8	832.6	853.9	875.2	886.4	902.1	914.4	927.9
10°	785.5	795.6	800.1	813.6	836.0	860.6	886.4	892.0	926.7	936.8	969.3
12.5°	795.6	802.4	811.3	814.7	839.3	876.3	911.1	913.3	949.2	992.9	1009.7
15°	821.4	816.9	820.3	824.8	853.9	884.2	940.2	950.3	983.9	1033.2	1074.7
17.5°	876.3	868.5	862.9	861.7	868.5	896.5	962.6	992.9	1024.2	1091.5	1112.8
20°	1014.1	1007.4	985.0	926.7	906.6	917.8	989.5	1032.1	1075.8	1150.9	1185.6
22.5°	1223.7	1230.4	1177.8	1096.0	1011.9	968.2	1032.1	1069.1	1138.5	1233.8	1265.2
25°	1471.4	1457.9	1394.0	1298.8	1166.6	1063.5	1100.4	1141.9	1227.1	1305.5	1317.8
27.5°	1665.2	1649.5	1600.2	1484.8	1370.5	1203.5	1190.1	1215.9	1316.7	1387.3	1373.9
30°	1856.8	1862.4	1828.8	1692.1	1550.9	1375.0	1289.8	1301.0	1378.3	1469.1	1438.9
32.5°	2101.1	2087.7	2068.6	1948.7	1781.8	1593.5	1447.8	1429.9	1463.5	1583.4	1547.6
35°	2328.6	2320.8	2295.0	2174.0	2028.3	1823.2	1680.9	1640.6	1632.7	1766.1	1703.3
37.5°	2527.0	2513.5	2474.3	2397.0	2255.8	2083.2	1927.4	1891.6	1890.5	1982.4	1861.3
40°	2693.9	2704.0	2699.5	2614.4	2537.1	2399.2	2160.5	2103.4	2098.9	2148.2	2077.6
42.5°	2910.2	2933.8	2921.4	2904.6	2811.6	2757.8	2487.7	2400.3	2361.1	2462.0	2398.1
45°	3237.4	3246.4	3254.2	3212.8	3119.8	3131.0	2826.2	2722.0	2711.9	2862.0	2718.6
47.5°	3543.4	3519.8	3574.7	3577.0	3572.5	3520.9	3191.5	3114.2	3127.6	3241.9	3094.0
50°	3619.6	3680.1	3831.4	3859.4	3932.2	3979.3	3597.2	3519.8	3542.2	3672.2	3503.0
52.5°	3679.0	3770.8	3922.1	4127.2	4323.3	4435.4	4051.0	3988.2	3987.1	4066.7	3833.6
55°	3783.2	3839.2	3970.3	4252.7	4625.9	4809.6	4597.9	4497.0	4406.2	4462.3	4176.5
57.5°	3773.1	3794.4	3998.3	4346.8	4865.7	5199.6	5047.2	4950.8	4834.3	4801.8	4571.0
60°	3596.0	3646.5	3875.1	4283.0	5013.6	5503.3	5466.3	5367.7	5167.1	5090.9	4873.5
62.5°	3245.3	3312.5	3491.8	4058.8	4798.4	5519.0	5755.4	5718.5	5494.3	5357.6	5268.0
65°	2630.1	2661.4	2867.6	3489.6	4312.1	5278.1	6097.2	6051.3	5845.1	5641.1	5470.8
67.5°	1703.3	1733.6	1931.9	2491.1	3386.5	4656.1	6083.8	6210.4	5987.4	5742.0	5344.2
70°	804.6	796.8	981.7	1384.0	2169.5	3555.7	5672.5	5922.4	5733.0	5205.2	4438.7
72.5°	245.4	266.7	407.9	613.0	1113.9	2217.7	4446.6	4680.8	4621.4	4158.6	2962.9
75°	108.7	117.7	160.2	251.0	451.6	909.9	2746.6	2955.0	2929.3	2453.0	1352.6
77.5°	69.5	76.2	100.9	143.4	205.1	289.1	1265.2	1468.0	1423.2	861.7	354.1
80°	49.3	52.7	71.7	98.6	128.9	118.8	435.9	517.7	496.4	234.2	95.3
82.5°	26.9	29.1	52.7	72.8	86.3	60.5	122.1	152.4	159.1	104.2	45.9
85°	10.1	12.3	32.5	51.5	44.8	28.0	35.9	43.7	57.2	57.2	21.3
87.5°	0.0	1.1	13.4	22.4	11.2	7.8	10.1	12.3	15.7	26.9	7.8
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°	889.8	889.8	889.8	889.8	889.8	889.8	889.8	889.8	889.8	889.8	889.8
2.5°	899.8	892.0	895.4	901.0	888.6	895.4	881.9	892.0	895.4	881.9	888.6
5°	911.1	918.9	914.4	905.5	897.6	899.8	896.5	888.6	895.4	897.6	893.1
7.5°	943.6	934.6	936.8	926.7	911.1	909.9	888.6	883.0	885.3	887.5	879.7
10°	973.8	979.4	968.2	960.4	934.6	917.8	888.6	857.3	853.9	840.5	851.7
12.5°	1027.6	1014.1	1009.7	983.9	958.1	902.1	839.3	791.1	750.8	736.2	721.7
15°	1072.4	1070.2	1062.3	1023.1	963.7	861.7	743.0	630.9	553.6	505.4	498.7
17.5°	1134.1	1124.0	1109.4	1047.8	922.3	756.4	553.6	412.4	335.1	304.8	293.6
20°	1181.1	1173.3	1153.1	1042.2	847.2	563.7	342.9	262.2	243.2	237.6	238.7
22.5°	1249.5	1224.8	1186.7	1014.1	710.5	375.4	246.5	234.2	230.8	226.4	227.5
25°	1308.9	1286.5	1206.9	966.0	506.5	248.8	228.6	221.9	216.3	210.7	209.6
27.5°	1361.5	1333.5	1228.2	867.4	317.1	214.0	211.8	204.0	192.7	183.8	180.4
30°	1413.1	1380.6	1233.8	682.5	214.0	193.9	188.3	175.9	161.4	149.0	146.8
32.5°	1499.4	1460.2	1225.9	487.5	184.9	172.6	160.2	145.7	124.4	114.3	112.1
35°	1633.8	1574.5	1215.9	286.9	165.8	152.4	133.4	114.3	98.6	88.5	86.3
37.5°	1788.5	1685.4	1186.7	191.6	152.4	134.5	109.8	90.8	77.3	69.5	67.2
40°	2018.2	1847.9	1074.7	156.9	135.6	114.3	88.5	71.7	61.6	56.0	53.8
42.5°	2271.5	2033.9	902.1	141.2	119.9	97.5	70.6	58.3	50.4	44.8	44.8
45°	2575.2	2227.8	695.9	128.9	106.5	80.7	58.3	47.1	40.3	35.9	33.6
47.5°	2913.6	2403.7	469.5	116.5	89.6	66.1	48.2	35.9	29.1	25.8	25.8
50°	3216.1	2559.5	299.2	102.0	78.4	54.9	39.2	29.1	23.5	19.1	17.9
52.5°	3490.7	2678.3	206.2	89.6	67.2	44.8	32.5	23.5	17.9	14.6	14.6
55°	3772.0	2738.8	152.4	77.3	58.3	38.1	26.9	21.3	15.7	12.3	11.2
57.5°	4002.8	2764.5	116.5	67.2	49.3	30.3	23.5	17.9	13.4	10.1	9.0
60°	4200.0	2752.2	90.8	56.0	39.2	25.8	20.2	14.6	11.2	7.8	6.7
62.5°	4315.5	2678.3	71.7	48.2	31.4	22.4	16.8	12.3	7.8	5.6	4.5
65°	4317.7	2521.4	56.0	35.9	23.5	19.1	14.6	10.1	5.6	2.2	1.1
67.5°	4008.4	2181.8	44.8	28.0	19.1	14.6	11.2	7.8	2.2	0.0	0.0
70°	3135.5	1650.7	37.0	22.4	15.7	12.3	7.8	4.5	1.1	0.0	0.0
72.5°	1998.0	988.4	30.3	17.9	13.4	9.0	5.6	3.4	0.0	0.0	0.0
75°	836.0	304.8	23.5	15.7	10.1	6.7	4.5	1.1	0.0	0.0	0.0
77.5°	215.2	96.4	19.1	13.4	10.1	5.6	3.4	1.1	0.0	0.0	0.0
80°	63.9	35.9	15.7	11.2	7.8	4.5	2.2	1.1	0.0	0.0	0.0
82.5°	29.1	21.3	13.4	10.1	6.7	4.5	2.2	0.0	0.0	0.0	0.0
85°	11.2	6.7	6.7	5.6	5.6	3.4	1.1	0.0	0.0	0.0	0.0
87.5°	4.5	2.2	2.2	2.2	1.1	1.1	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)