

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: P482329

Luminaire Tested: **IFLD-S-SA3A-727-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482329
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-727-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

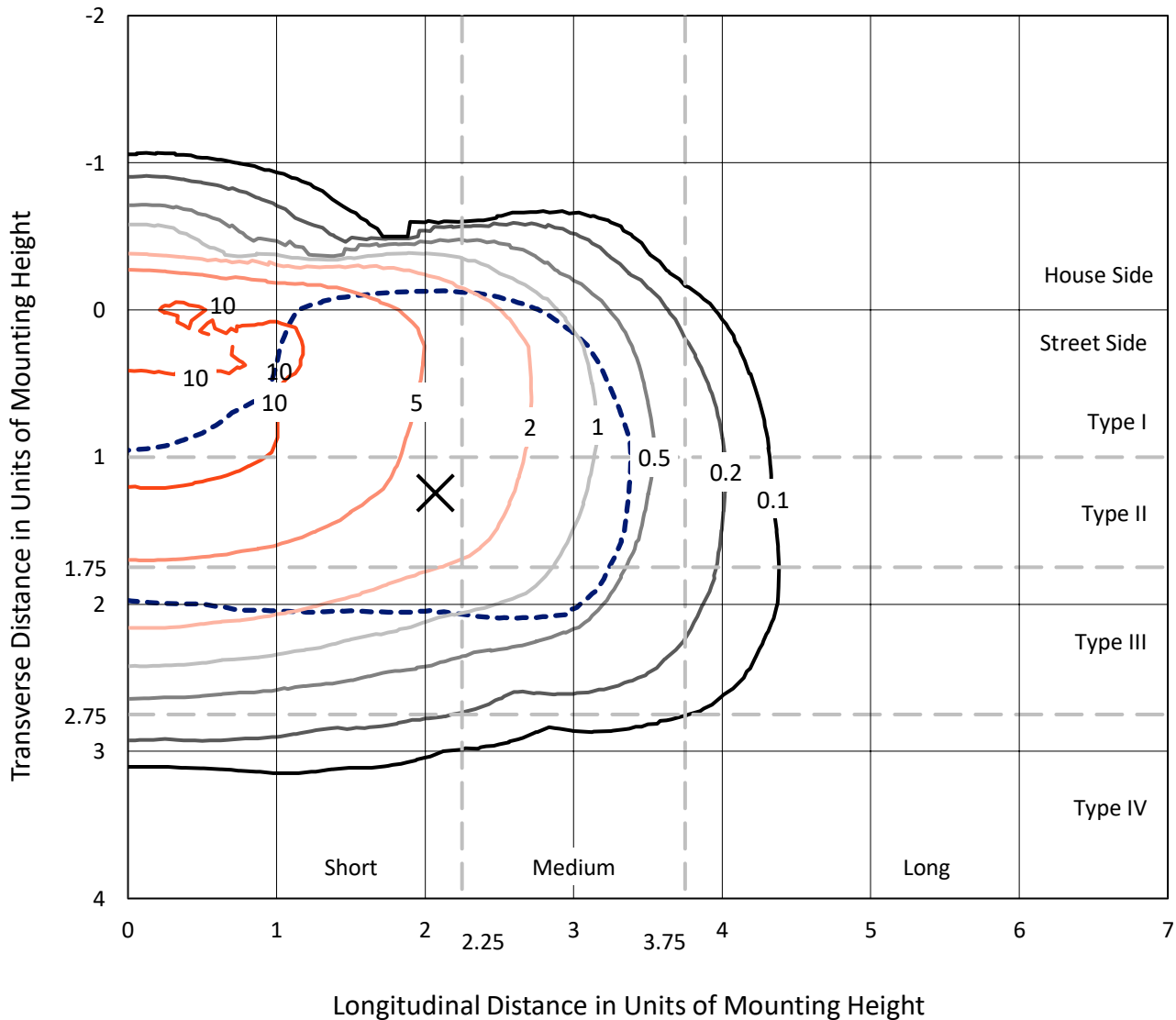
Lumens per Lamp: N/A
Luminaire Lumens: 8537.9 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

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

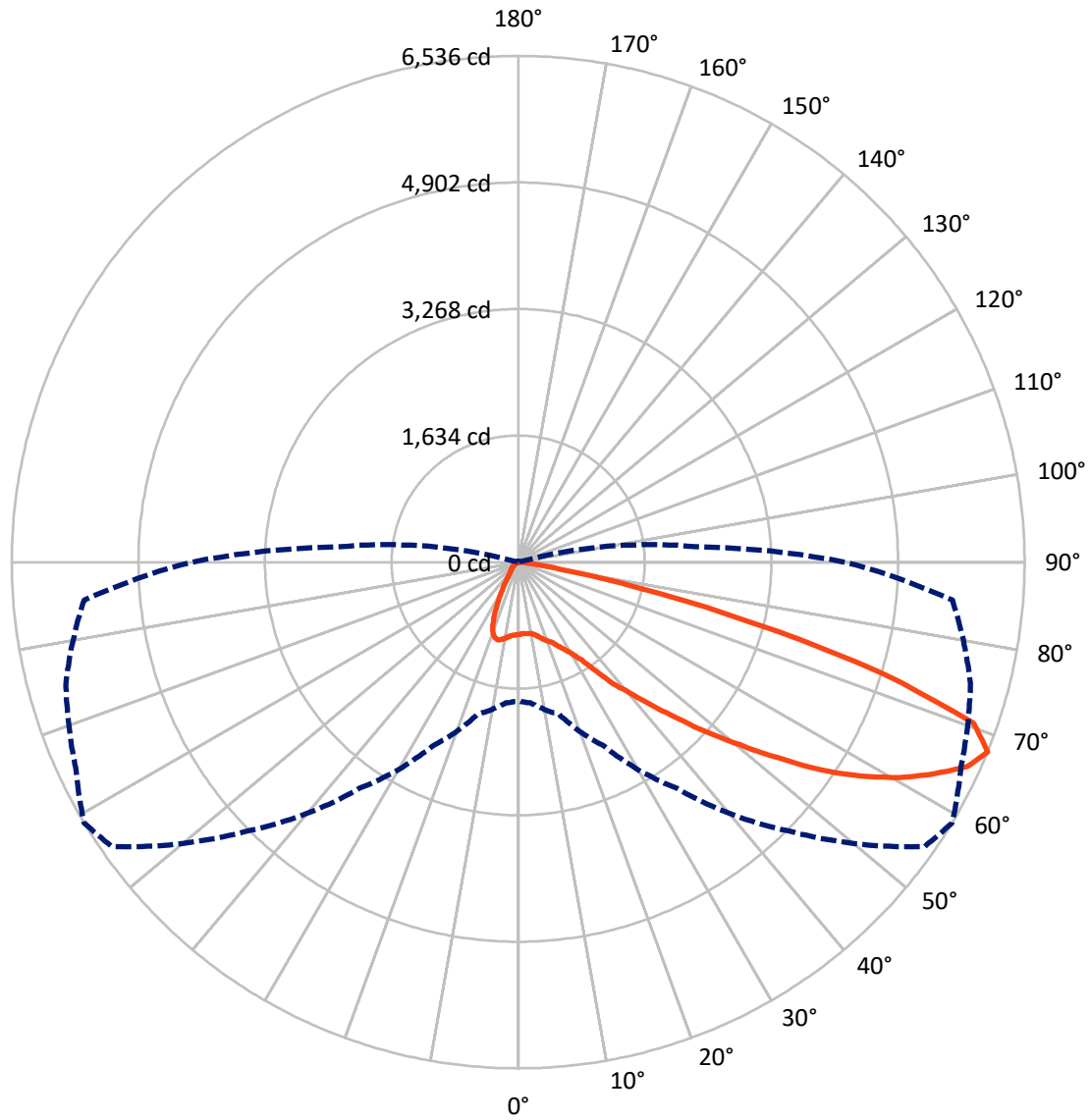
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.3 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	1002.9	0.0	1002.9
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	7535.0	0.0	7535.0
	% Fixture	88.3	0.0	88.3
Total	Lumens	8537.9	0.0	8537.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.0	1.0
10°-20°	256.9	3.0
20°-30°	449.1	5.3
30°-40°	790.7	9.3
40°-50°	1397.6	16.4
50°-60°	2213.0	25.9
60°-70°	2454.8	28.8
70°-80°	851.8	10.0
80°-90°	35.1	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°	8537.9	100.0
0°-180°	8537.9	100.0

Coefficient of Utilization

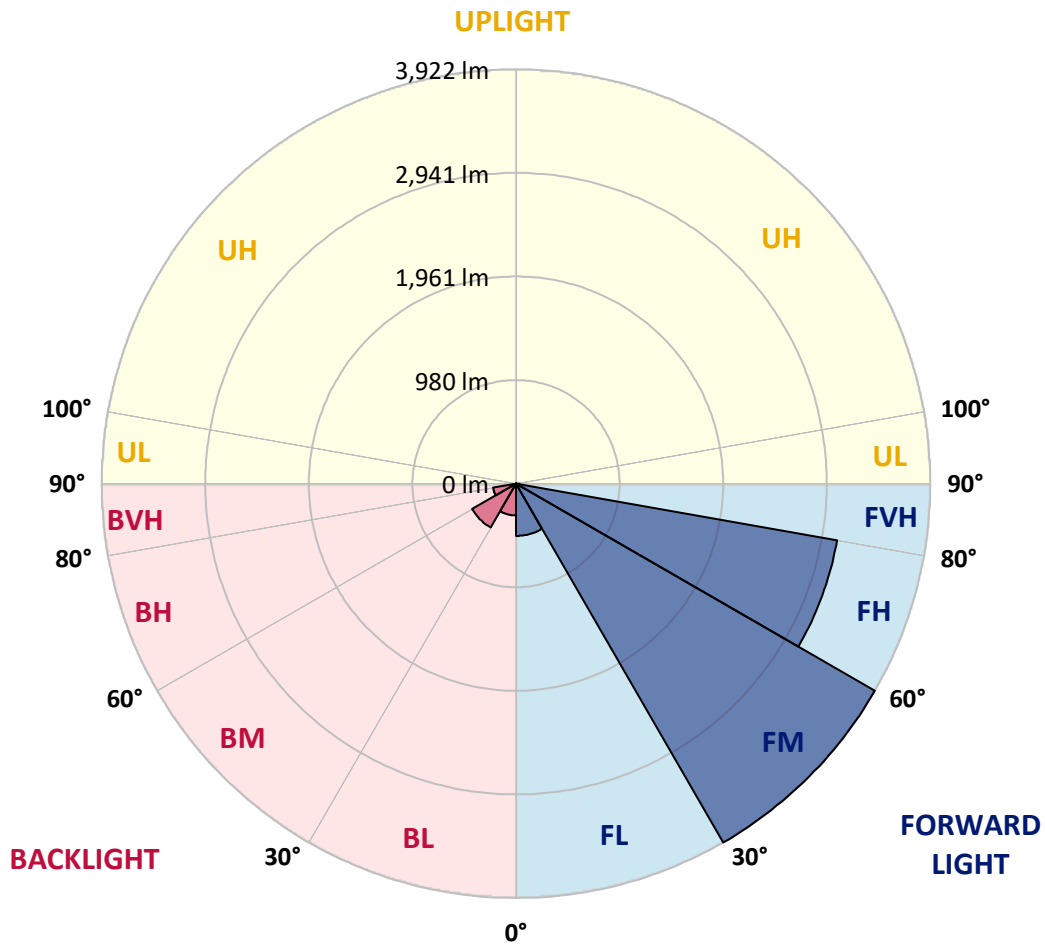


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	494.4	5.8			
FM (30°-60°)	3921.8	45.9			
FH (60°-80°)	3086.0	36.1			G2/5000
FVH (80°-90°)	32.8	0.4			G1/100
BL (0°-30°)	300.6	3.5	B1/500		
BM (30°-60°)	479.5	5.6	B1/1000		
BH (60°-80°)	220.6	2.6	B1/500		G1/500
BVH (80°-90°)	2.3	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°	936.5	936.5	936.5	936.5	936.5	936.5	936.5	936.5	936.5	936.5	936.5
2.5°	909.3	896.4	908.2	909.3	910.5	921.1	932.9	924.7	923.5	932.9	941.2
5°	872.8	866.9	881.0	888.1	899.9	909.3	928.2	929.4	930.6	941.2	955.3
7.5°	857.4	843.3	859.8	868.1	876.3	898.7	921.1	932.9	949.4	962.4	976.6
10°	826.8	837.4	842.1	856.3	879.8	905.8	932.9	938.8	975.4	986.0	1020.2
12.5°	837.4	844.5	853.9	857.4	883.4	922.3	958.9	961.2	999.0	1045.0	1062.7
15°	864.5	859.8	863.3	868.1	898.7	930.6	989.5	1000.1	1035.5	1087.4	1131.1
17.5°	922.3	914.0	908.2	907.0	914.0	943.5	1013.1	1045.0	1078.0	1148.8	1171.2
20°	1067.4	1060.3	1036.7	975.4	954.1	965.9	1041.4	1086.2	1132.2	1211.3	1247.8
22.5°	1287.9	1295.0	1239.6	1153.5	1065.0	1019.0	1086.2	1125.2	1198.3	1298.5	1331.6
25°	1548.6	1534.4	1467.2	1366.9	1227.8	1119.3	1158.2	1201.8	1291.5	1374.0	1387.0
27.5°	1752.6	1736.1	1684.2	1562.7	1442.4	1266.7	1252.5	1279.7	1385.8	1460.1	1446.0
30°	1954.3	1960.2	1924.8	1780.9	1632.3	1447.1	1357.5	1369.3	1450.7	1546.2	1514.4
32.5°	2211.4	2197.3	2177.2	2051.0	1875.3	1677.1	1523.8	1504.9	1540.3	1666.5	1628.8
35°	2450.8	2442.6	2415.4	2288.1	2134.7	1918.9	1769.1	1726.7	1718.4	1858.8	1792.7
37.5°	2659.6	2645.4	2604.2	2522.8	2374.2	2192.5	2028.6	1990.9	1989.7	2086.4	1959.0
40°	2835.3	2845.9	2841.2	2751.6	2670.2	2525.1	2273.9	2213.8	2209.0	2260.9	2186.6
42.5°	3062.9	3087.7	3074.7	3057.0	2959.2	2902.5	2618.3	2526.3	2485.0	2591.2	2524.0
45°	3407.3	3416.8	3425.0	3381.4	3283.5	3295.3	2974.5	2864.8	2854.2	3012.2	2861.3
47.5°	3729.3	3704.5	3762.3	3764.7	3760.0	3705.7	3359.0	3277.6	3291.8	3412.1	3256.4
50°	3809.5	3873.2	4032.4	4061.9	4138.6	4188.1	3785.9	3704.5	3728.1	3864.9	3686.9
52.5°	3872.0	3968.7	4128.0	4343.8	4550.2	4668.1	4263.6	4197.5	4196.4	4280.1	4034.8
55°	3981.7	4040.7	4178.7	4475.9	4868.6	5062.1	4839.1	4733.0	4637.5	4696.4	4395.7
57.5°	3971.1	3993.5	4208.2	4575.0	5121.0	5472.5	5312.1	5210.7	5088.0	5053.8	4810.8
60°	3784.7	3837.8	4078.4	4507.7	5276.7	5792.1	5753.2	5649.4	5438.3	5358.1	5129.3
62.5°	3415.6	3486.4	3675.1	4271.8	5050.3	5808.6	6057.5	6018.6	5782.7	5638.8	5544.4
65°	2768.1	2801.1	3018.1	3672.7	4538.4	5555.1	6417.2	6368.8	6151.8	5937.2	5757.9
67.5°	1792.7	1824.6	2033.3	2621.8	3564.2	4900.5	6403.1	6536.3	6301.6	6043.3	5624.6
70°	846.8	838.6	1033.2	1456.6	2283.3	3742.3	5970.2	6233.2	6033.9	5478.4	4671.7
72.5°	258.3	280.7	429.3	645.1	1172.3	2334.1	4679.9	4926.4	4863.9	4376.8	3118.4
75°	114.4	123.8	168.7	264.2	475.3	957.7	2890.7	3110.1	3083.0	2581.7	1423.6
77.5°	73.1	80.2	106.1	151.0	215.8	304.3	1331.6	1545.0	1497.9	907.0	372.7
80°	51.9	55.4	75.5	103.8	135.6	125.0	458.8	544.9	522.5	246.5	100.3
82.5°	28.3	30.7	55.4	76.7	90.8	63.7	128.6	160.4	167.5	109.7	48.4
85°	10.6	13.0	34.2	54.3	47.2	29.5	37.7	46.0	60.2	60.2	22.4
87.5°	0.0	1.2	14.2	23.6	11.8	8.3	10.6	13.0	16.5	28.3	8.3
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°	936.5	936.5	936.5	936.5	936.5	936.5	936.5	936.5	936.5	936.5	936.5
2.5°	947.1	938.8	942.4	948.3	935.3	942.4	928.2	938.8	942.4	928.2	935.3
5°	958.9	967.1	962.4	953.0	944.7	947.1	943.5	935.3	942.4	944.7	940.0
7.5°	993.1	983.6	986.0	975.4	958.9	957.7	935.3	929.4	931.7	934.1	925.8
10°	1024.9	1030.8	1019.0	1010.8	983.6	965.9	935.3	902.3	898.7	884.6	896.4
12.5°	1081.5	1067.4	1062.7	1035.5	1008.4	949.4	883.4	832.7	790.2	774.9	759.5
15°	1128.7	1126.3	1118.1	1076.8	1014.3	907.0	782.0	664.0	582.6	531.9	524.8
17.5°	1193.6	1183.0	1167.6	1102.8	970.7	796.1	582.6	434.0	352.6	320.8	309.0
20°	1243.1	1234.8	1213.6	1096.9	891.6	593.2	360.9	276.0	255.9	250.0	251.2
22.5°	1315.0	1289.1	1249.0	1067.4	747.7	395.1	259.5	246.5	243.0	238.2	239.4
25°	1377.6	1354.0	1270.2	1016.7	533.1	261.8	240.6	233.5	227.6	221.7	220.6
27.5°	1433.0	1403.5	1292.6	912.9	333.8	225.3	222.9	214.7	202.9	193.4	189.9
30°	1487.2	1453.0	1298.5	718.3	225.3	204.0	198.1	185.2	169.8	156.9	154.5
32.5°	1578.1	1536.8	1290.3	513.0	194.6	181.6	168.7	153.3	130.9	120.3	117.9
35°	1719.6	1657.1	1279.7	301.9	174.6	160.4	140.4	120.3	103.8	93.2	90.8
37.5°	1882.3	1773.8	1249.0	201.7	160.4	141.5	115.6	95.5	81.4	73.1	70.8
40°	2124.1	1944.9	1131.1	165.1	142.7	120.3	93.2	75.5	64.9	59.0	56.6
42.5°	2390.7	2140.6	949.4	148.6	126.2	102.6	74.3	61.3	53.1	47.2	47.2
45°	2710.3	2344.7	732.4	135.6	112.0	84.9	61.3	49.5	42.5	37.7	35.4
47.5°	3066.5	2529.8	494.2	122.7	94.4	69.6	50.7	37.7	30.7	27.1	27.1
50°	3384.9	2693.8	314.9	107.3	82.6	57.8	41.3	30.7	24.8	20.1	18.9
52.5°	3673.9	2818.8	217.0	94.4	70.8	47.2	34.2	24.8	18.9	15.3	15.3
55°	3969.9	2882.5	160.4	81.4	61.3	40.1	28.3	22.4	16.5	13.0	11.8
57.5°	4212.9	2909.6	122.7	70.8	51.9	31.8	24.8	18.9	14.2	10.6	9.4
60°	4420.5	2896.6	95.5	59.0	41.3	27.1	21.2	15.3	11.8	8.3	7.1
62.5°	4541.9	2818.8	75.5	50.7	33.0	23.6	17.7	13.0	8.3	5.9	4.7
65°	4544.3	2653.7	59.0	37.7	24.8	20.1	15.3	10.6	5.9	2.4	1.2
67.5°	4218.8	2296.3	47.2	29.5	20.1	15.3	11.8	8.3	2.4	0.0	0.0
70°	3300.0	1737.3	38.9	23.6	16.5	13.0	8.3	4.7	1.2	0.0	0.0
72.5°	2102.9	1040.2	31.8	18.9	14.2	9.4	5.9	3.5	0.0	0.0	0.0
75°	879.8	320.8	24.8	16.5	10.6	7.1	4.7	1.2	0.0	0.0	0.0
77.5°	226.4	101.4	20.1	14.2	10.6	5.9	3.5	1.2	0.0	0.0	0.0
80°	67.2	37.7	16.5	11.8	8.3	4.7	2.4	1.2	0.0	0.0	0.0
82.5°	30.7	22.4	14.2	10.6	7.1	4.7	2.4	0.0	0.0	0.0	0.0
85°	11.8	7.1	7.1	5.9	5.9	3.5	1.2	0.0	0.0	0.0	0.0
87.5°	4.7	2.4	2.4	2.4	1.2	1.2	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)