

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: P482402

Luminaire Tested: **IFLD-S-SA2A-735-U-T3-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482402  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-735-U-T3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens with House Side Shield  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

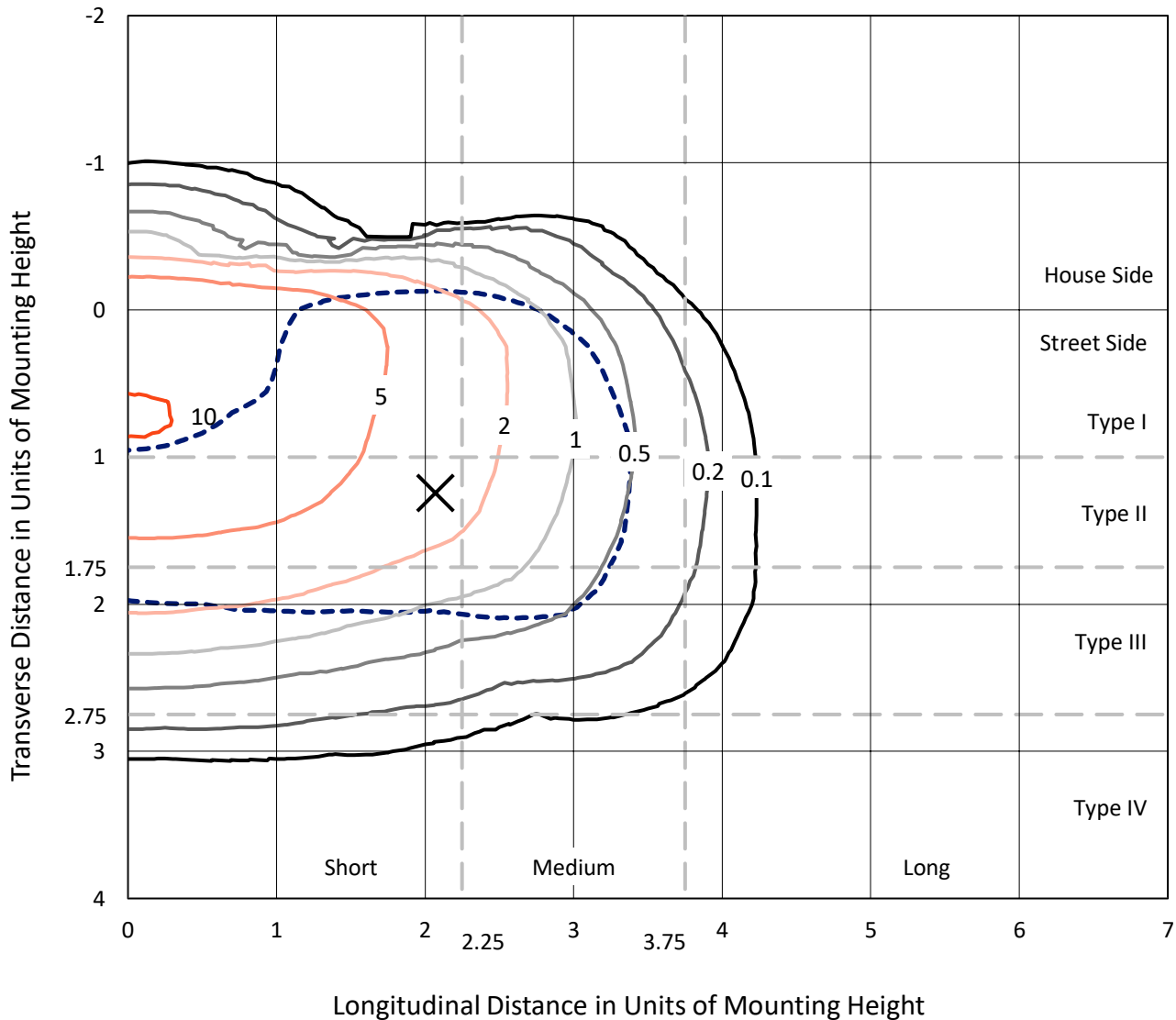
Lumens per Lamp: N/A  
Luminaire Lumens: 6756.7 lumens  
Efficiency: N/A  
Efficacy: 105.9 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

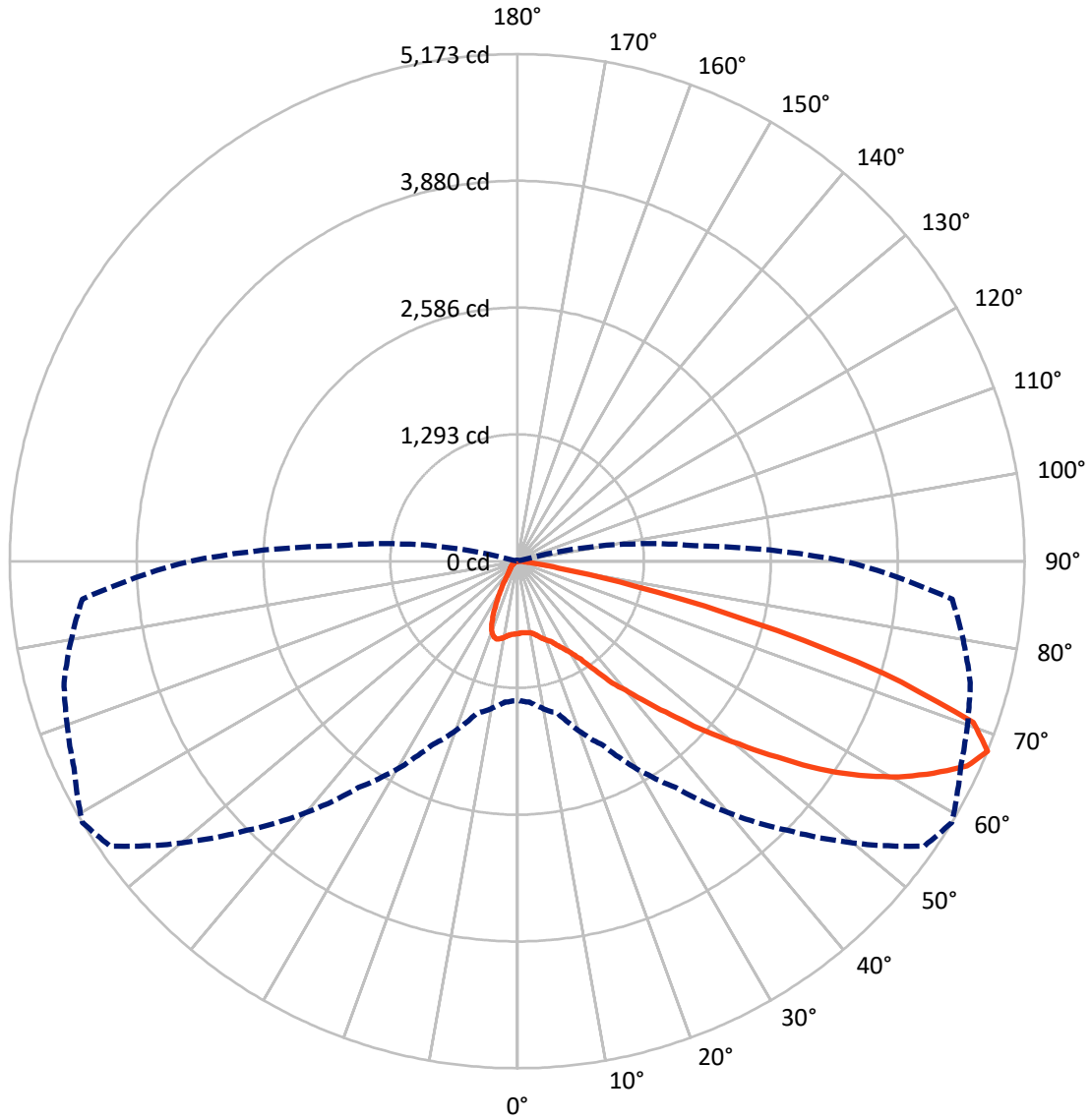
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.6 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
<b>House Side</b>	Lumens	793.7	0.0	793.7
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	5963.0	0.0	5963.0
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	6756.7	0.0	6756.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.4	1.0
10°-20°	203.3	3.0
20°-30°	355.4	5.3
30°-40°	625.7	9.3
40°-50°	1106.1	16.4
50°-60°	1751.3	25.9
60°-70°	1942.7	28.8
70°-80°	674.1	10.0
80°-90°	27.8	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°	6756.7	100.0
0°-180°	6756.7	100.0

**Coefficient of Utilization**

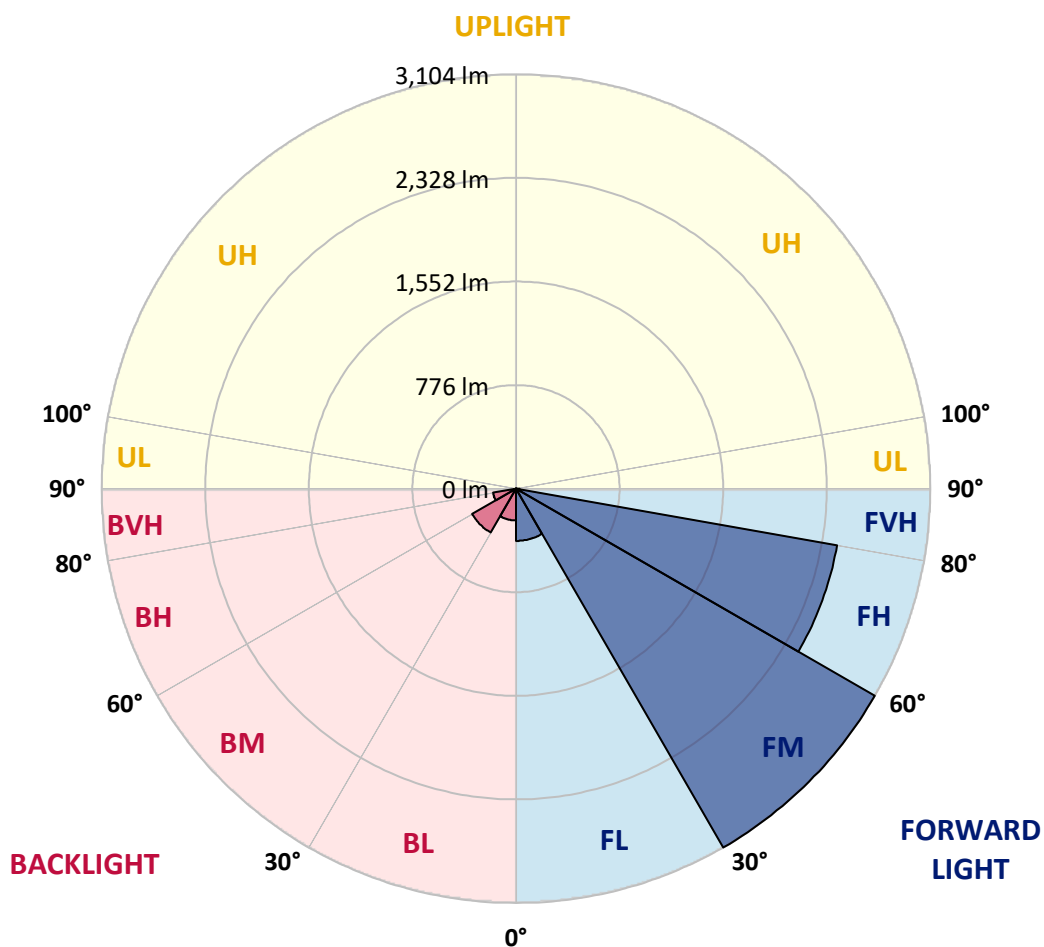


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	391.3	5.8			
FM (30°-60°)	3103.6	45.9			
FH (60°-80°)	2442.2	36.1			G2/5000
FVH (80°-90°)	26.0	0.4			G1/100
BL (0°-30°)	237.9	3.5	B1/500		
BM (30°-60°)	379.5	5.6	B1/1000		
BH (60°-80°)	174.5	2.6	B1/500		G1/500
BVH (80°-90°)	1.8	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°	741.1	741.1	741.1	741.1	741.1	741.1	741.1	741.1	741.1	741.1	741.1
2.5°	719.6	709.4	718.7	719.6	720.6	729.0	738.3	731.8	730.8	738.3	744.8
5°	690.7	686.0	697.2	702.8	712.2	719.6	734.6	735.5	736.4	744.8	756.0
7.5°	678.6	667.4	680.4	687.0	693.5	711.2	729.0	738.3	751.4	761.6	772.8
10°	654.3	662.7	666.4	677.6	696.3	716.8	738.3	743.0	771.9	780.3	807.4
12.5°	662.7	668.3	675.8	678.6	699.1	729.9	758.8	760.7	790.6	827.0	841.0
15°	684.2	680.4	683.2	687.0	711.2	736.4	783.1	791.5	819.5	860.6	895.1
17.5°	729.9	723.4	718.7	717.8	723.4	746.7	801.8	827.0	853.1	909.1	926.8
20°	844.7	839.1	820.4	771.9	755.1	764.4	824.2	859.6	896.0	958.6	987.5
22.5°	1019.2	1024.8	981.0	912.8	842.8	806.4	859.6	890.4	948.3	1027.6	1053.8
25°	1225.5	1214.3	1161.1	1081.8	971.6	885.8	916.6	951.1	1022.0	1087.4	1097.6
27.5°	1387.0	1373.9	1332.8	1236.7	1141.5	1002.4	991.2	1012.7	1096.7	1155.5	1144.3
30°	1546.6	1551.2	1523.2	1409.4	1291.8	1145.2	1074.3	1083.6	1148.0	1223.6	1198.4
32.5°	1750.0	1738.8	1723.0	1623.1	1484.0	1327.2	1205.9	1191.0	1219.0	1318.8	1289.0
35°	1939.5	1933.0	1911.5	1810.7	1689.4	1518.6	1400.0	1366.4	1359.9	1471.0	1418.7
37.5°	2104.7	2093.5	2060.9	1996.5	1878.8	1735.1	1605.4	1575.5	1574.6	1651.1	1550.3
40°	2243.8	2252.2	2248.5	2177.5	2113.1	1998.3	1799.5	1751.9	1748.2	1789.2	1730.4
42.5°	2423.9	2443.5	2433.3	2419.3	2341.8	2297.0	2072.1	1999.3	1966.6	2050.6	1997.4
45°	2696.5	2703.9	2710.5	2675.9	2598.5	2607.8	2353.9	2267.1	2258.7	2383.8	2264.3
47.5°	2951.3	2931.7	2977.4	2979.3	2975.5	2932.6	2658.2	2593.8	2605.0	2700.2	2577.0
50°	3014.7	3065.1	3191.2	3214.5	3275.2	3314.4	2996.1	2931.7	2950.3	3058.6	2917.7
52.5°	3064.2	3140.7	3266.8	3437.6	3600.9	3694.2	3374.1	3321.8	3320.9	3387.2	3193.0
55°	3151.0	3197.7	3306.9	3542.1	3852.9	4006.0	3829.6	3745.6	3670.0	3716.6	3478.6
57.5°	3142.6	3160.4	3330.2	3620.5	4052.6	4330.8	4203.8	4123.6	4026.5	3999.4	3807.2
60°	2995.1	3037.1	3227.6	3567.3	4175.8	4583.7	4552.9	4470.8	4303.7	4240.2	4059.2
62.5°	2703.0	2759.0	2908.3	3380.6	3996.6	4596.8	4793.7	4762.9	4576.3	4462.4	4387.7
65°	2190.6	2216.7	2388.5	2906.5	3591.6	4396.1	5078.4	5040.1	4868.4	4698.5	4556.7
67.5°	1418.7	1443.9	1609.1	2074.9	2820.6	3878.1	5067.2	5172.7	4986.9	4782.5	4451.2
70°	670.2	663.6	817.6	1152.7	1807.0	2961.5	4724.7	4932.8	4775.1	4335.4	3697.0
72.5°	204.4	222.1	339.7	510.5	927.8	1847.1	3703.6	3898.6	3849.2	3463.7	2467.8
75°	90.5	98.0	133.5	209.1	376.1	757.9	2287.7	2461.3	2439.8	2043.1	1126.6
77.5°	57.9	63.5	84.0	119.5	170.8	240.8	1053.8	1222.7	1185.4	717.8	294.9
80°	41.1	43.9	59.7	82.1	107.3	98.9	363.1	431.2	413.5	195.1	79.3
82.5°	22.4	24.3	43.9	60.7	71.9	50.4	101.7	126.9	132.5	86.8	38.3
85°	8.4	10.3	27.1	42.9	37.3	23.3	29.9	36.4	47.6	47.6	17.7
87.5°	0.0	0.9	11.2	18.7	9.3	6.5	8.4	10.3	13.1	22.4	6.5
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°	741.1	741.1	741.1	741.1	741.1	741.1	741.1	741.1	741.1	741.1	741.1
2.5°	749.5	743.0	745.8	750.4	740.2	745.8	734.6	743.0	745.8	734.6	740.2
5°	758.8	765.4	761.6	754.2	747.6	749.5	746.7	740.2	745.8	747.6	743.9
7.5°	785.9	778.4	780.3	771.9	758.8	757.9	740.2	735.5	737.4	739.2	732.7
10°	811.1	815.8	806.4	799.9	778.4	764.4	740.2	714.0	711.2	700.0	709.4
12.5°	855.9	844.7	841.0	819.5	798.0	751.4	699.1	659.0	625.3	613.2	601.1
15°	893.2	891.4	884.8	852.2	802.7	717.8	618.8	525.5	461.1	420.9	415.3
17.5°	944.6	936.2	924.0	872.7	768.2	630.0	461.1	343.5	279.1	253.9	244.5
20°	983.8	977.2	960.4	868.0	705.6	469.5	285.6	218.4	202.5	197.9	198.8
22.5°	1040.7	1020.2	988.4	844.7	591.7	312.7	205.3	195.1	192.3	188.5	189.5
25°	1090.2	1071.5	1005.2	804.6	421.9	207.2	190.4	184.8	180.1	175.5	174.5
27.5°	1134.0	1110.7	1023.0	722.4	264.1	178.3	176.4	169.9	160.5	153.1	150.3
30°	1177.0	1149.9	1027.6	568.4	178.3	161.5	156.8	146.5	134.4	124.1	122.3
32.5°	1248.8	1216.2	1021.1	406.0	154.0	143.7	133.5	121.3	103.6	95.2	93.3
35°	1360.8	1311.4	1012.7	238.9	138.1	126.9	111.1	95.2	82.1	73.7	71.9
37.5°	1489.6	1403.8	988.4	159.6	126.9	112.0	91.5	75.6	64.4	57.9	56.0
40°	1681.0	1539.1	895.1	130.7	112.9	95.2	73.7	59.7	51.3	46.7	44.8
42.5°	1891.9	1694.0	751.4	117.6	99.9	81.2	58.8	48.5	42.0	37.3	37.3
45°	2144.9	1855.5	579.6	107.3	88.7	67.2	48.5	39.2	33.6	29.9	28.0
47.5°	2426.7	2002.1	391.1	97.1	74.7	55.1	40.1	29.9	24.3	21.5	21.5
50°	2678.7	2131.8	249.2	84.9	65.3	45.7	32.7	24.3	19.6	15.9	14.9
52.5°	2907.4	2230.7	171.7	74.7	56.0	37.3	27.1	19.6	14.9	12.1	12.1
55°	3141.7	2281.1	126.9	64.4	48.5	31.7	22.4	17.7	13.1	10.3	9.3
57.5°	3334.0	2302.6	97.1	56.0	41.1	25.2	19.6	14.9	11.2	8.4	7.5
60°	3498.2	2292.3	75.6	46.7	32.7	21.5	16.8	12.1	9.3	6.5	5.6
62.5°	3594.4	2230.7	59.7	40.1	26.1	18.7	14.0	10.3	6.5	4.7	3.7
65°	3596.2	2100.1	46.7	29.9	19.6	15.9	12.1	8.4	4.7	1.9	0.9
67.5°	3338.6	1817.2	37.3	23.3	15.9	12.1	9.3	6.5	1.9	0.0	0.0
70°	2611.5	1374.8	30.8	18.7	13.1	10.3	6.5	3.7	0.9	0.0	0.0
72.5°	1664.2	823.2	25.2	14.9	11.2	7.5	4.7	2.8	0.0	0.0	0.0
75°	696.3	253.9	19.6	13.1	8.4	5.6	3.7	0.9	0.0	0.0	0.0
77.5°	179.2	80.3	15.9	11.2	8.4	4.7	2.8	0.9	0.0	0.0	0.0
80°	53.2	29.9	13.1	9.3	6.5	3.7	1.9	0.9	0.0	0.0	0.0
82.5°	24.3	17.7	11.2	8.4	5.6	3.7	1.9	0.0	0.0	0.0	0.0
85°	9.3	5.6	5.6	4.7	4.7	2.8	0.9	0.0	0.0	0.0	0.0
87.5°	3.7	1.9	1.9	1.9	0.9	0.9	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)