

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: P482987

Luminaire Tested: **IFLD-S-SA2A-830-U-T3R-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482987  
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-T3R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R  
distribution lens with House Side Shield  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

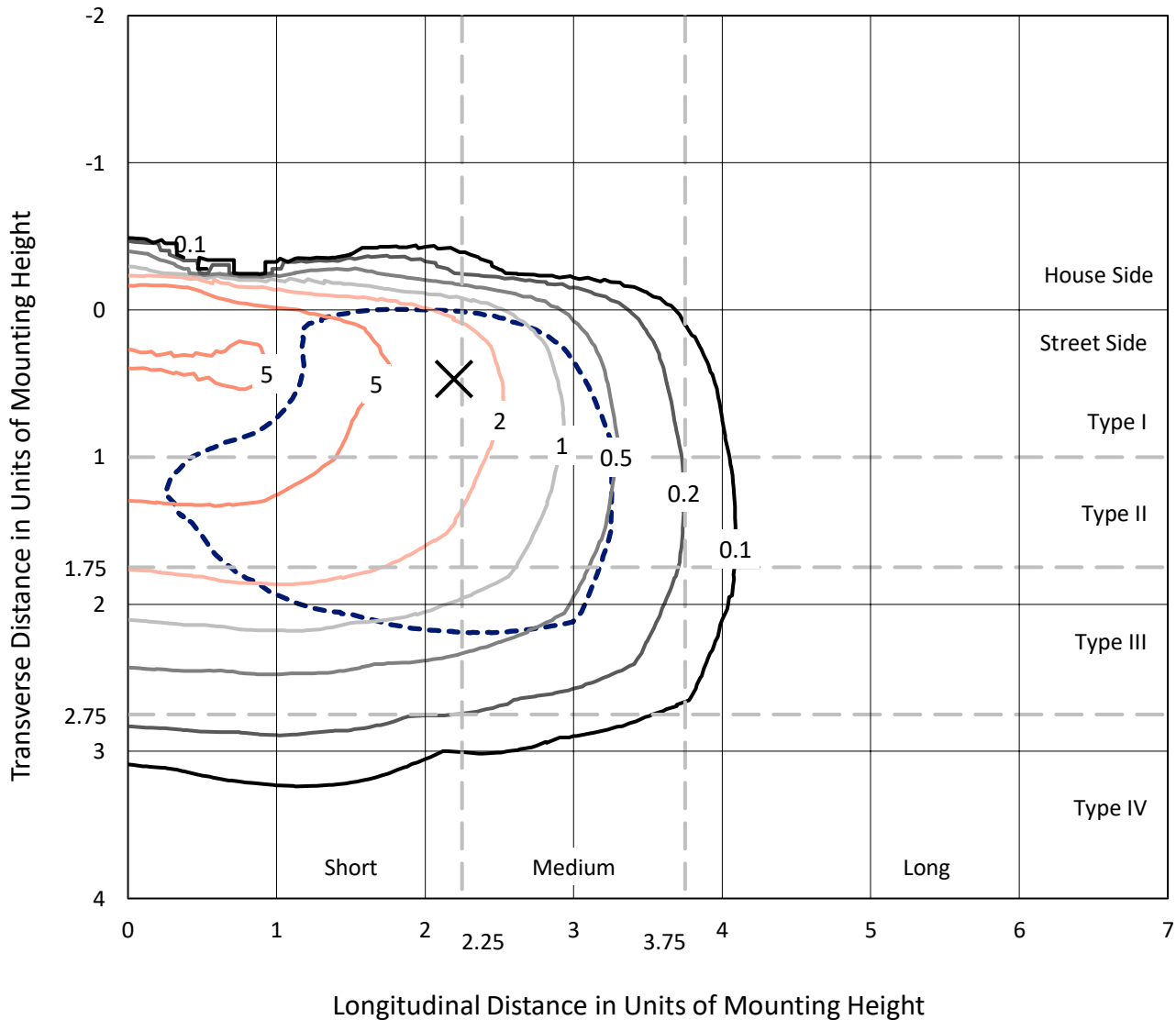
Lumens per Lamp: N/A  
Luminaire Lumens: 5258.5 lumens  
Efficiency: N/A  
Efficacy: 82.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

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

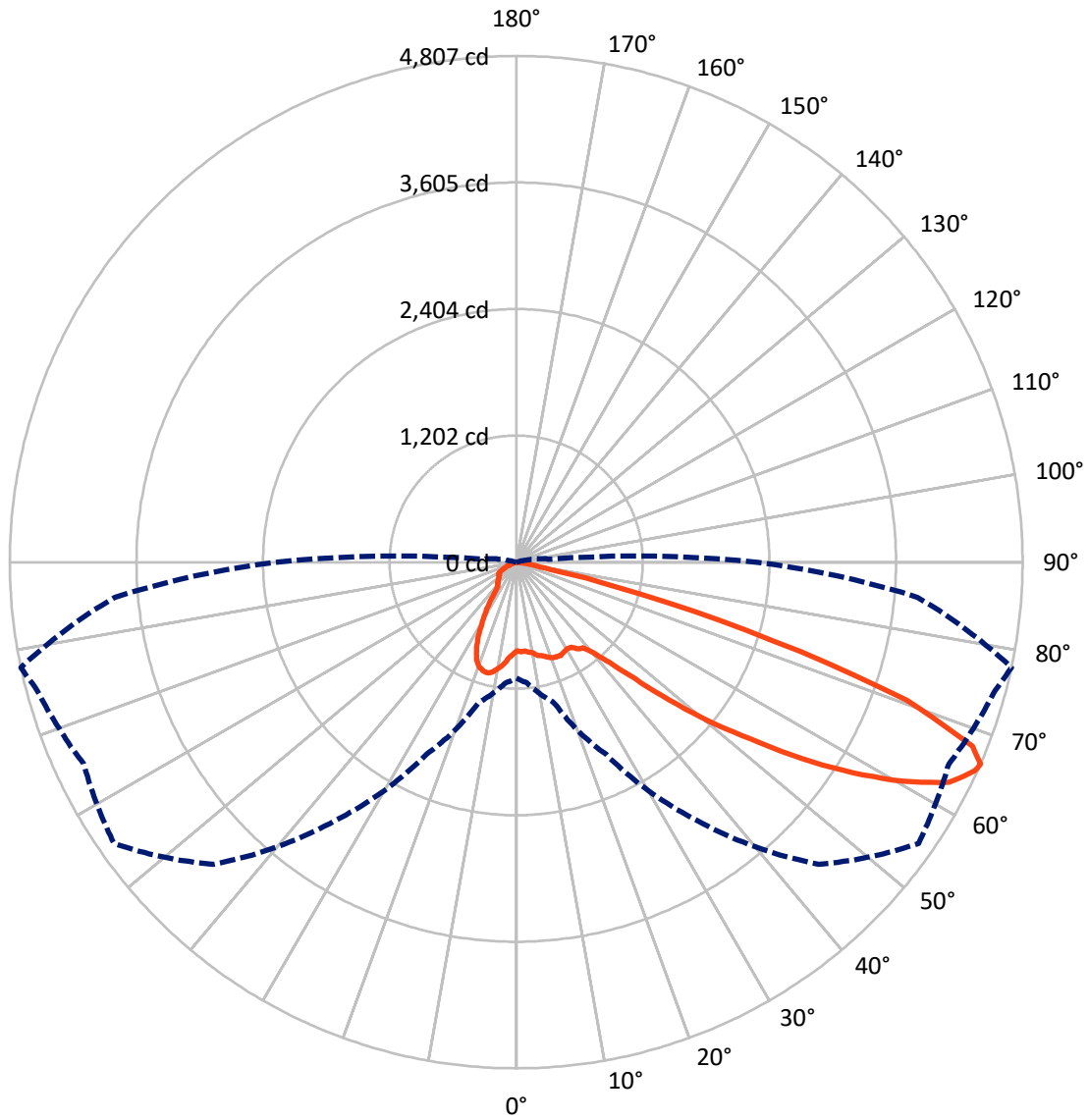
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	369.7	0.0	369.7
	% Fixture	7.0	0.0	7.0
<b>Street Side</b>	Lumens	4888.8	0.0	4888.8
	% Fixture	93.0	0.0	93.0
<b>Total</b>	Lumens	5258.5	0.0	5258.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.1	1.5
10°-20°	173.9	3.3
20°-30°	248.6	4.7
30°-40°	425.6	8.1
40°-50°	768.1	14.6
50°-60°	1313.5	25.0
60°-70°	1616.7	30.7
70°-80°	611.2	11.6
80°-90°	23.9	0.5
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°	5258.5	100.0
0°-180°	5258.5	100.0

**Coefficient of Utilization**

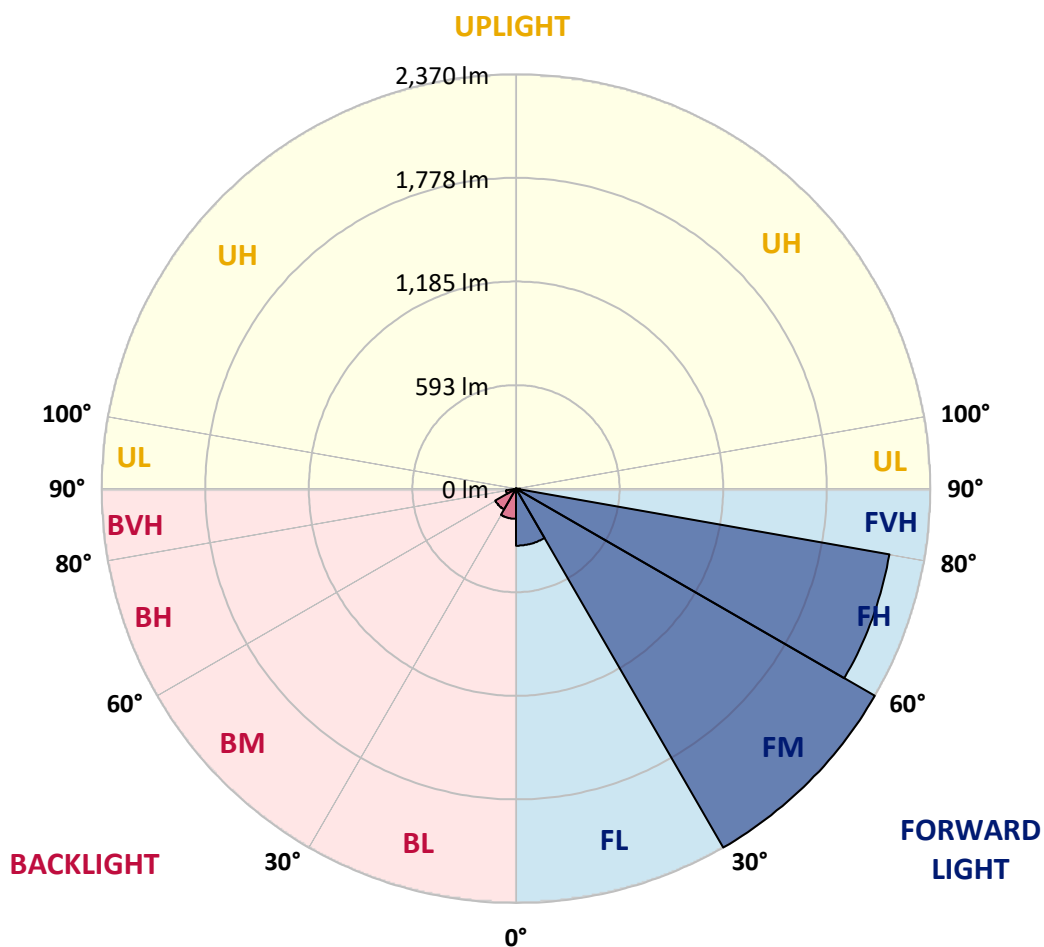


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	326.5	6.2			
FM (30°-60°)	2370.1	45.1			
FH (60°-80°)	2169.3	41.3			G2/5000
FVH (80°-90°)	22.9	0.4			G1/100
BL (0°-30°)	173.1	3.3	B1/500		
BM (30°-60°)	137.0	2.6	B0/220		
BH (60°-80°)	58.6	1.1	B0/110		G0/110
BVH (80°-90°)	1.0	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°	65°	75°	78°	85°
0°	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2
2.5°	774.7	767.6	774.7	785.0	790.6	795.4	812.1	826.4	841.5	851.8	848.6
5°	718.3	731.8	733.4	736.6	745.3	773.9	783.4	808.1	845.4	848.6	862.9
7.5°	673.8	669.8	680.2	700.8	723.1	739.7	767.6	810.5	849.4	862.9	890.7
10°	609.4	617.4	628.5	649.2	676.2	717.5	766.8	814.4	870.1	874.8	926.5
12.5°	574.5	566.5	584.0	605.5	651.5	689.7	750.1	807.3	882.8	909.0	968.6
15°	545.9	549.8	566.5	580.8	619.0	667.4	738.2	824.8	904.2	922.5	1013.1
17.5°	534.0	531.6	544.3	558.6	605.5	660.3	733.4	825.6	923.3	947.1	1043.3
20°	539.5	544.3	540.3	553.8	583.2	638.8	740.5	840.7	937.6	970.2	1075.8
22.5°	626.9	620.6	588.8	563.4	564.9	630.1	735.0	850.2	950.3	976.5	1098.1
25°	855.0	820.8	742.1	644.4	580.0	606.3	728.6	847.0	947.9	980.5	1111.6
27.5°	1084.6	1055.2	978.1	826.4	641.2	596.7	706.4	849.4	936.0	966.2	1089.4
30°	1326.9	1342.8	1228.4	1048.0	801.7	649.2	692.1	836.7	928.1	953.5	1094.1
32.5°	1575.6	1569.3	1500.2	1304.7	1031.4	765.2	715.1	849.4	938.4	963.0	1121.9
35°	1770.3	1748.1	1678.1	1501.7	1221.3	940.0	794.6	909.8	983.7	1013.1	1161.7
37.5°	1866.4	1876.0	1835.5	1682.1	1429.4	1102.1	893.9	909.8	998.0	1032.1	1226.0
40°	1941.1	1969.7	1954.6	1905.4	1636.0	1284.8	1003.5	966.2	1070.3	1134.6	1346.8
42.5°	2030.9	2017.4	2106.4	2061.1	1906.2	1515.2	1195.8	1100.5	1241.1	1303.1	1528.0
45°	2078.6	2130.2	2197.8	2255.8	2156.5	1802.9	1446.9	1338.1	1502.5	1581.2	1797.3
47.5°	2201.0	2221.6	2331.3	2404.4	2359.9	2131.8	1828.3	1685.3	1831.5	1955.4	2105.6
50°	2272.5	2244.7	2398.0	2509.3	2534.7	2404.4	2170.0	2058.7	2222.4	2380.5	2394.0
52.5°	2209.7	2289.2	2442.5	2642.0	2712.7	2647.5	2571.2	2522.8	2638.0	2784.2	2719.0
55°	1989.6	2043.6	2417.1	2787.4	3015.4	2985.2	3055.9	3024.1	3140.1	3295.1	3098.8
57.5°	1812.4	1880.0	2208.1	2862.8	3297.5	3386.5	3475.5	3455.6	3595.4	3774.2	3420.6
60°	1702.0	1740.9	2057.1	2843.8	3464.3	3801.2	4002.3	3862.4	4090.5	4227.1	3672.5
62.5°	1510.5	1535.1	1837.0	2591.1	3514.4	4094.4	4435.3	4245.4	4443.2	4610.1	3853.7
65°	1210.9	1277.7	1527.2	2212.9	3183.8	4148.5	4705.5	4482.2	4673.7	4783.3	3908.5
66°	1102.1	1150.5	1379.4	2012.6	2995.5	4058.7	4660.2	4531.4	4707.0	4807.2	3824.3
67.5°	914.6	956.7	1138.6	1727.4	2610.2	3860.8	4691.9	4498.1	4732.5	4671.3	3711.4
70°	605.5	632.5	778.7	1168.0	1818.0	3158.4	4351.9	4237.4	4160.4	3930.7	2901.8
72.5°	282.9	321.8	486.3	708.0	1066.3	2209.7	3548.6	3395.2	2917.7	2550.6	1830.7
75°	127.9	145.4	267.0	406.0	478.3	1145.0	2289.2	2067.5	1452.5	1206.2	801.7
77.5°	69.1	78.7	130.3	193.1	174.0	401.3	1133.1	942.4	457.7	335.3	232.8
80°	53.2	62.8	108.9	110.4	64.4	104.1	421.1	291.6	114.4	86.6	55.6
82.5°	27.8	39.7	85.8	71.5	32.6	42.1	130.3	81.0	35.8	28.6	23.8
85°	11.1	17.5	48.5	47.7	19.1	14.3	36.6	24.6	14.3	11.9	11.1
87.5°	0.8	0.8	26.2	18.3	11.9	4.0	5.6	5.6	7.2	6.4	7.9
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°	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2
2.5°	862.9	872.4	874.0	900.2	905.8	900.2	914.6	912.2	918.5	913.8	905.0
5°	882.8	896.3	922.5	942.4	942.4	926.5	913.8	897.1	872.4	866.1	861.3
7.5°	916.9	959.8	983.7	971.0	945.5	885.9	803.3	742.9	692.1	673.0	664.3
10°	977.3	1001.2	1029.0	977.3	871.6	745.3	606.3	514.9	443.4	427.5	415.6
12.5°	1016.3	1054.4	1070.3	942.4	735.0	546.7	395.7	292.4	242.3	204.2	197.8
15°	1067.1	1110.8	1078.2	847.8	579.2	358.4	205.0	127.9	104.1	97.7	97.7
17.5°	1102.1	1149.7	1045.7	730.2	410.8	190.7	101.7	88.2	86.6	87.4	85.8
20°	1163.3	1191.9	996.4	593.5	245.5	97.7	81.8	78.7	77.1	79.5	77.9
22.5°	1186.3	1212.5	916.1	429.9	110.4	65.2	61.2	58.8	60.4	59.6	58.8
25°	1184.7	1198.2	784.2	246.3	32.6	25.4	23.0	23.0	21.5	22.2	21.5
27.5°	1196.6	1163.3	636.5	73.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	1203.0	1106.8	452.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	1206.2	1077.4	291.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	1230.8	1018.6	124.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	1247.5	943.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	1316.6	919.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1406.4	874.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	1531.1	808.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1696.4	769.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	1819.6	708.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	1976.1	672.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	2162.0	673.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	2331.3	662.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	2417.9	566.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	2399.6	458.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	2336.0	359.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	2292.3	318.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2159.6	255.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1718.7	174.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1093.3	107.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	503.8	49.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	158.1	30.2	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	41.3	19.1	6.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	21.5	13.5	5.6	2.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.5	5.6	2.4	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.9	3.2	1.6	1.6	0.8	0.0	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)