

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: P482368

Luminaire Tested: **IFLD-S-SA3A-730-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482368
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-730-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

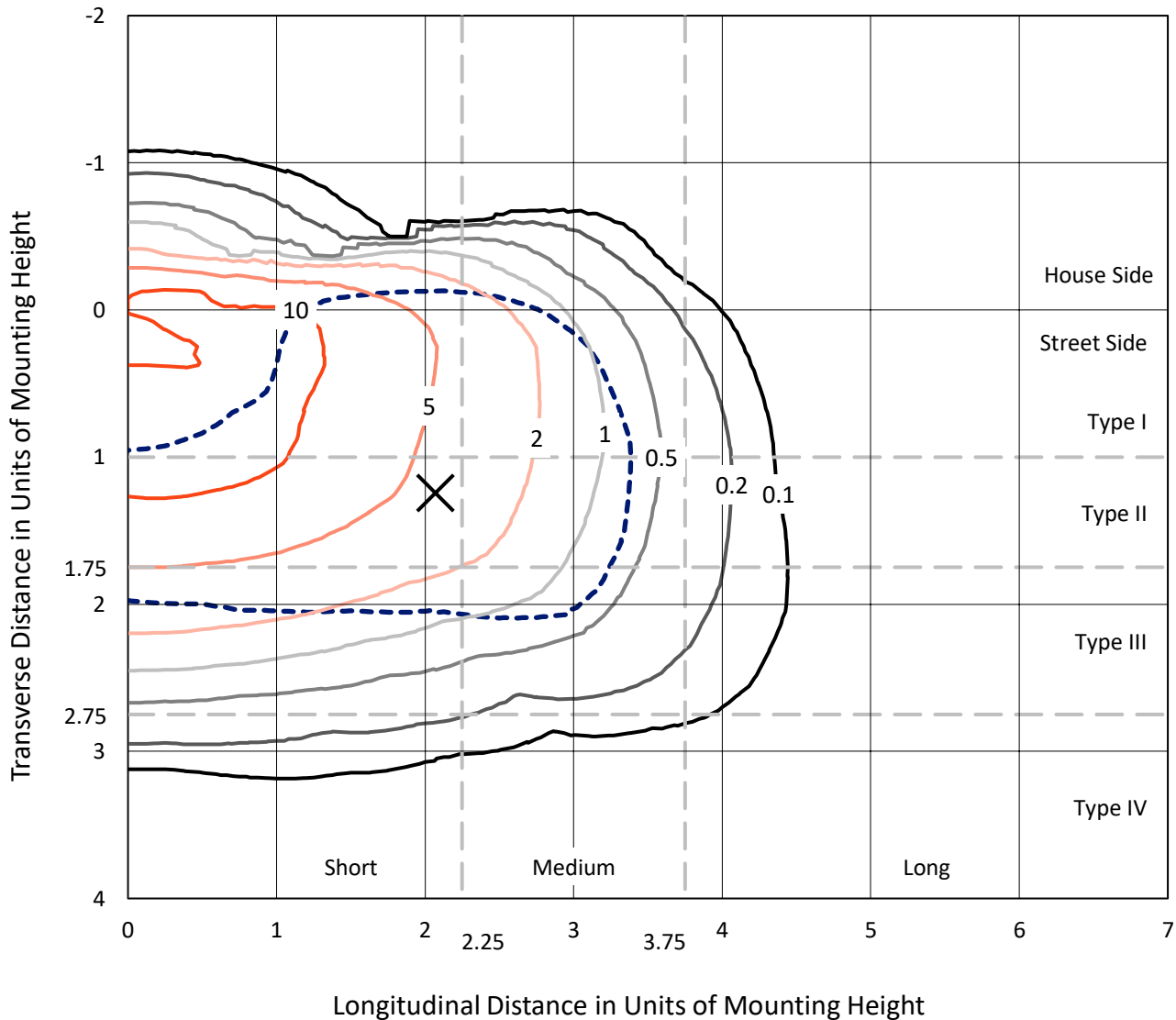
Lumens per Lamp: N/A
Luminaire Lumens: 9296.5 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

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

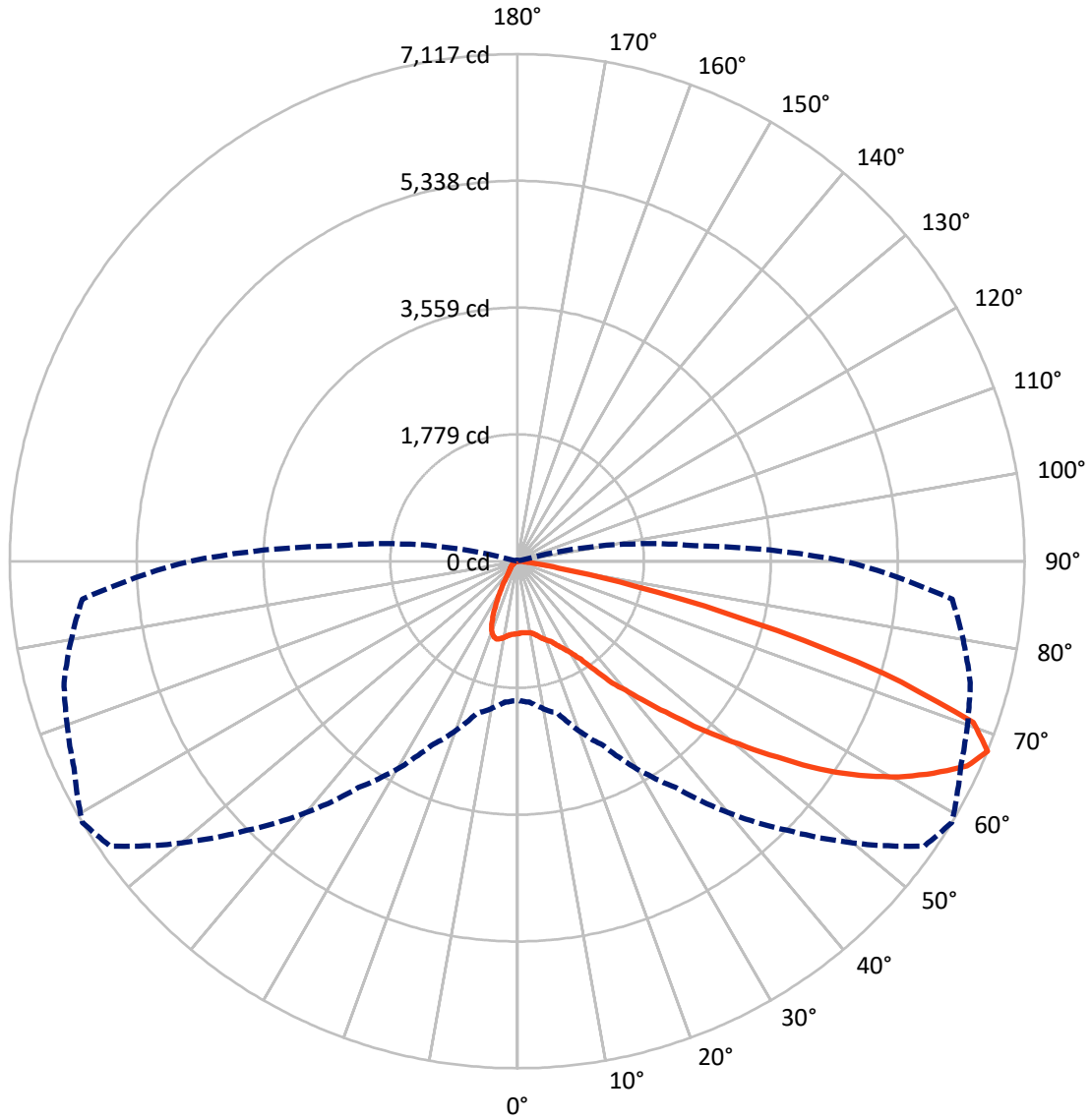
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.5 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	1092.0	0.0	1092.0
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	8204.4	0.0	8204.4
	% Fixture	88.3	0.0	88.3
Total	Lumens	9296.5	0.0	9296.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.9	1.0
10°-20°	279.8	3.0
20°-30°	489.0	5.3
30°-40°	860.9	9.3
40°-50°	1521.8	16.4
50°-60°	2409.6	25.9
60°-70°	2672.9	28.8
70°-80°	927.4	10.0
80°-90°	38.2	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°	9296.5	100.0
0°-180°	9296.5	100.0

Coefficient of Utilization

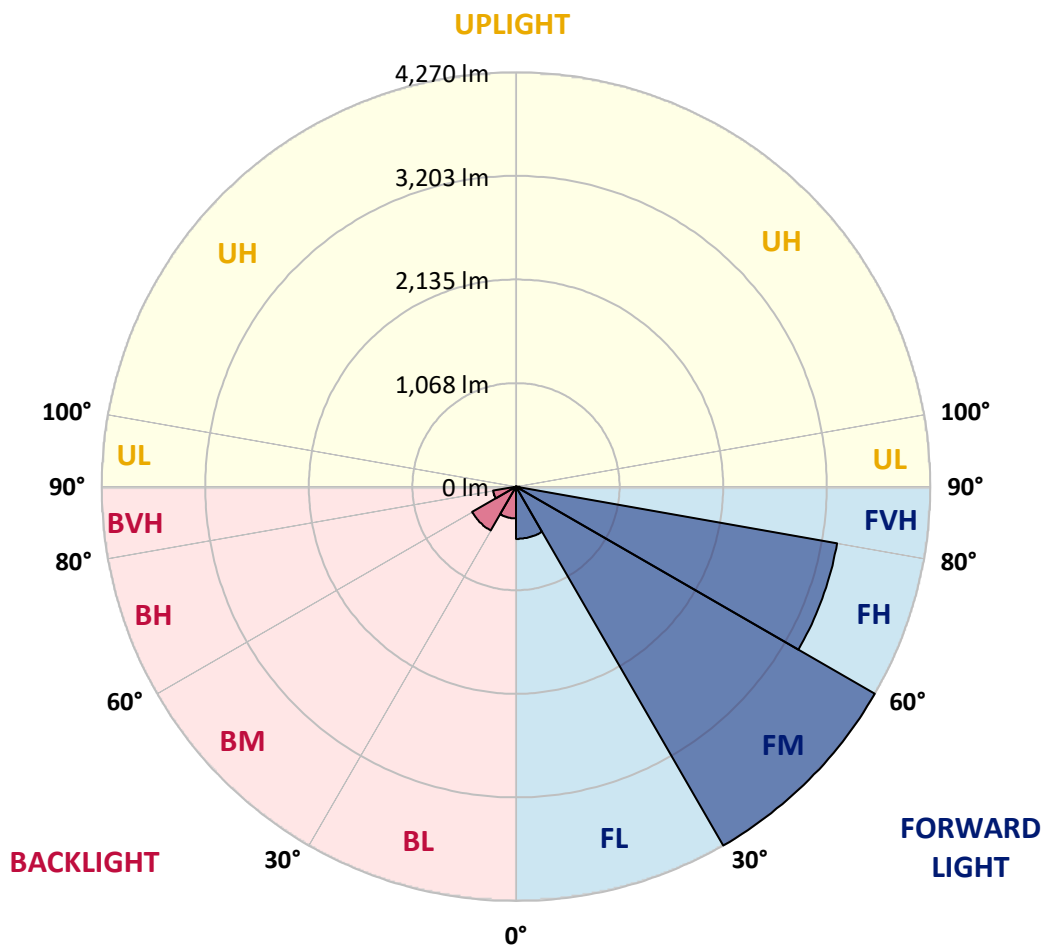


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	538.3	5.8			
FM (30°-60°)	4270.2	45.9			
FH (60°-80°)	3360.2	36.1			G2/5000
FVH (80°-90°)	35.7	0.4			G1/100
BL (0°-30°)	327.3	3.5	B1/500		
BM (30°-60°)	522.1	5.6	B1/1000		
BH (60°-80°)	240.2	2.6	B1/500		G1/500
BVH (80°-90°)	2.5	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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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1019.7	1019.7	1019.7	1019.7	1019.7	1019.7	1019.7	1019.7	1019.7	1019.7	1019.7
2.5°	990.1	976.0	988.8	990.1	991.4	1003.0	1015.8	1006.8	1005.5	1015.8	1024.8
5°	950.3	943.9	959.3	967.0	979.8	990.1	1010.7	1011.9	1013.2	1024.8	1040.2
7.5°	933.6	918.2	936.2	945.2	954.2	978.6	1003.0	1015.8	1033.8	1047.9	1063.3
10°	900.2	911.8	916.9	932.3	958.0	986.3	1015.8	1022.2	1062.0	1073.6	1110.8
12.5°	911.8	919.5	929.8	933.6	961.9	1004.2	1044.1	1046.6	1087.7	1137.8	1157.1
15°	941.3	936.2	940.0	945.2	978.6	1013.2	1077.4	1089.0	1127.5	1184.0	1231.5
17.5°	1004.2	995.3	988.8	987.5	995.3	1027.4	1103.1	1137.8	1173.8	1250.8	1275.2
20°	1162.2	1154.5	1128.8	1062.0	1038.9	1051.8	1133.9	1182.7	1232.8	1318.9	1358.7
22.5°	1402.3	1410.1	1349.7	1255.9	1159.6	1109.5	1182.7	1225.1	1304.7	1413.9	1449.9
25°	1686.2	1670.7	1597.5	1488.4	1336.9	1218.7	1261.1	1308.6	1406.2	1496.1	1510.2
27.5°	1908.3	1890.3	1833.8	1701.6	1570.6	1379.2	1363.8	1393.4	1508.9	1589.8	1574.4
30°	2127.9	2134.3	2095.8	1939.1	1777.3	1575.7	1478.1	1491.0	1579.6	1683.6	1648.9
32.5°	2407.9	2392.5	2370.6	2233.2	2041.9	1826.1	1659.2	1638.6	1677.2	1814.6	1773.5
35°	2668.6	2659.6	2630.0	2491.3	2324.4	2089.4	1926.3	1880.1	1871.1	2023.9	1952.0
37.5°	2895.9	2880.5	2835.5	2746.9	2585.1	2387.3	2208.8	2167.7	2166.4	2271.7	2133.1
40°	3087.2	3098.8	3093.6	2996.0	2907.4	2749.5	2475.9	2410.4	2405.3	2461.8	2380.9
42.5°	3335.1	3362.0	3347.9	3328.6	3222.1	3160.4	2850.9	2750.8	2705.8	2821.4	2748.2
45°	3710.1	3720.3	3729.3	3681.8	3575.2	3588.1	3238.8	3119.3	3107.8	3279.8	3115.5
47.5°	4060.6	4033.7	4096.6	4099.2	4094.0	4035.0	3657.4	3568.8	3584.2	3715.2	3545.7
50°	4148.0	4217.3	4390.7	4422.8	4506.3	4560.2	4122.3	4033.7	4059.4	4208.3	4014.4
52.5°	4216.0	4321.3	4494.7	4729.7	4954.4	5082.9	4642.4	4570.5	4569.2	4660.4	4393.2
55°	4335.5	4399.7	4549.9	4873.5	5301.2	5511.8	5269.1	5153.5	5049.5	5113.7	4786.2
57.5°	4323.9	4348.3	4582.0	4981.4	5576.0	5958.7	5784.0	5673.6	5540.0	5502.8	5238.3
60°	4121.0	4178.8	4440.8	4908.2	5745.5	6306.7	6264.3	6151.3	5921.4	5834.1	5585.0
62.5°	3719.0	3796.1	4001.6	4651.4	5498.9	6324.7	6595.7	6553.3	6296.4	6139.8	6037.0
65°	3014.0	3050.0	3286.3	3999.0	4941.6	6048.6	6987.3	6934.7	6698.4	6464.7	6269.5
67.5°	1952.0	1986.7	2214.0	2854.8	3880.9	5335.9	6971.9	7117.0	6861.5	6580.2	6124.3
70°	922.1	913.1	1125.0	1586.0	2486.2	4074.8	6500.6	6787.0	6570.0	5965.1	5086.7
72.5°	281.2	305.6	467.4	702.5	1276.5	2541.4	5095.7	5364.1	5296.0	4765.7	3395.4
75°	124.6	134.8	183.6	287.7	517.5	1042.8	3147.6	3386.4	3356.9	2811.1	1550.0
77.5°	79.6	87.3	115.6	164.4	235.0	331.3	1449.9	1682.3	1630.9	987.5	405.8
80°	56.5	60.4	82.2	113.0	147.7	136.1	499.6	593.3	568.9	268.4	109.2
82.5°	30.8	33.4	60.4	83.5	98.9	69.3	140.0	174.7	182.4	119.4	52.7
85°	11.6	14.1	37.2	59.1	51.4	32.1	41.1	50.1	65.5	65.5	24.4
87.5°	0.0	1.3	15.4	25.7	12.8	9.0	11.6	14.1	18.0	30.8	9.0
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°	1019.7	1019.7	1019.7	1019.7	1019.7	1019.7	1019.7	1019.7	1019.7	1019.7	1019.7
2.5°	1031.2	1022.2	1026.1	1032.5	1018.4	1026.1	1010.7	1022.2	1026.1	1010.7	1018.4
5°	1044.1	1053.0	1047.9	1037.6	1028.6	1031.2	1027.4	1018.4	1026.1	1028.6	1023.5
7.5°	1081.3	1071.0	1073.6	1062.0	1044.1	1042.8	1018.4	1011.9	1014.5	1017.1	1008.1
10°	1116.0	1122.4	1109.5	1100.6	1071.0	1051.8	1018.4	982.4	978.6	963.1	976.0
12.5°	1177.6	1162.2	1157.1	1127.5	1098.0	1033.8	961.9	906.6	860.4	843.7	827.0
15°	1229.0	1226.4	1217.4	1172.5	1104.4	987.5	851.4	723.0	634.4	579.2	571.5
17.5°	1299.6	1288.1	1271.4	1200.7	1056.9	866.8	634.4	472.6	384.0	349.3	336.5
20°	1353.5	1344.6	1321.4	1194.3	970.9	646.0	393.0	300.5	278.7	272.3	273.5
22.5°	1431.9	1403.6	1360.0	1162.2	814.2	430.2	282.5	268.4	264.5	259.4	260.7
25°	1499.9	1474.3	1383.1	1107.0	580.5	285.1	262.0	254.3	247.9	241.4	240.1
27.5°	1560.3	1528.2	1407.5	994.0	363.4	245.3	242.7	233.7	220.9	210.6	206.8
30°	1619.4	1582.1	1413.9	782.1	245.3	222.2	215.7	201.6	184.9	170.8	168.2
32.5°	1718.3	1673.3	1404.9	558.6	211.9	197.8	183.6	166.9	142.5	131.0	128.4
35°	1872.4	1804.3	1393.4	328.8	190.1	174.7	152.8	131.0	113.0	101.5	98.9
37.5°	2049.6	1931.4	1360.0	219.6	174.7	154.1	125.9	104.0	88.6	79.6	77.1
40°	2312.8	2117.6	1231.5	179.8	155.4	131.0	101.5	82.2	70.6	64.2	61.6
42.5°	2603.1	2330.8	1033.8	161.8	137.4	111.7	80.9	66.8	57.8	51.4	51.4
45°	2951.1	2553.0	797.5	147.7	122.0	92.5	66.8	53.9	46.2	41.1	38.5
47.5°	3338.9	2754.6	538.1	133.6	102.7	75.8	55.2	41.1	33.4	29.5	29.5
50°	3685.7	2933.1	342.9	116.9	89.9	62.9	44.9	33.4	27.0	21.8	20.5
52.5°	4000.3	3069.2	236.3	102.7	77.1	51.4	37.2	27.0	20.5	16.7	16.7
55°	4322.6	3138.6	174.7	88.6	66.8	43.7	30.8	24.4	18.0	14.1	12.8
57.5°	4587.2	3168.1	133.6	77.1	56.5	34.7	27.0	20.5	15.4	11.6	10.3
60°	4813.2	3154.0	104.0	64.2	44.9	29.5	23.1	16.7	12.8	9.0	7.7
62.5°	4945.5	3069.2	82.2	55.2	36.0	25.7	19.3	14.1	9.0	6.4	5.1
65°	4948.0	2889.4	64.2	41.1	27.0	21.8	16.7	11.6	6.4	2.6	1.3
67.5°	4593.6	2500.3	51.4	32.1	21.8	16.7	12.8	9.0	2.6	0.0	0.0
70°	3593.2	1891.6	42.4	25.7	18.0	14.1	9.0	5.1	1.3	0.0	0.0
72.5°	2289.7	1132.7	34.7	20.5	15.4	10.3	6.4	3.9	0.0	0.0	0.0
75°	958.0	349.3	27.0	18.0	11.6	7.7	5.1	1.3	0.0	0.0	0.0
77.5°	246.6	110.4	21.8	15.4	11.6	6.4	3.9	1.3	0.0	0.0	0.0
80°	73.2	41.1	18.0	12.8	9.0	5.1	2.6	1.3	0.0	0.0	0.0
82.5°	33.4	24.4	15.4	11.6	7.7	5.1	2.6	0.0	0.0	0.0	0.0
85°	12.8	7.7	7.7	6.4	6.4	3.9	1.3	0.0	0.0	0.0	0.0
87.5°	5.1	2.6	2.6	2.6	1.3	1.3	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)