

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: P482310

Luminaire Tested: **IFLD-M-SA4A-722-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482310
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-722-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

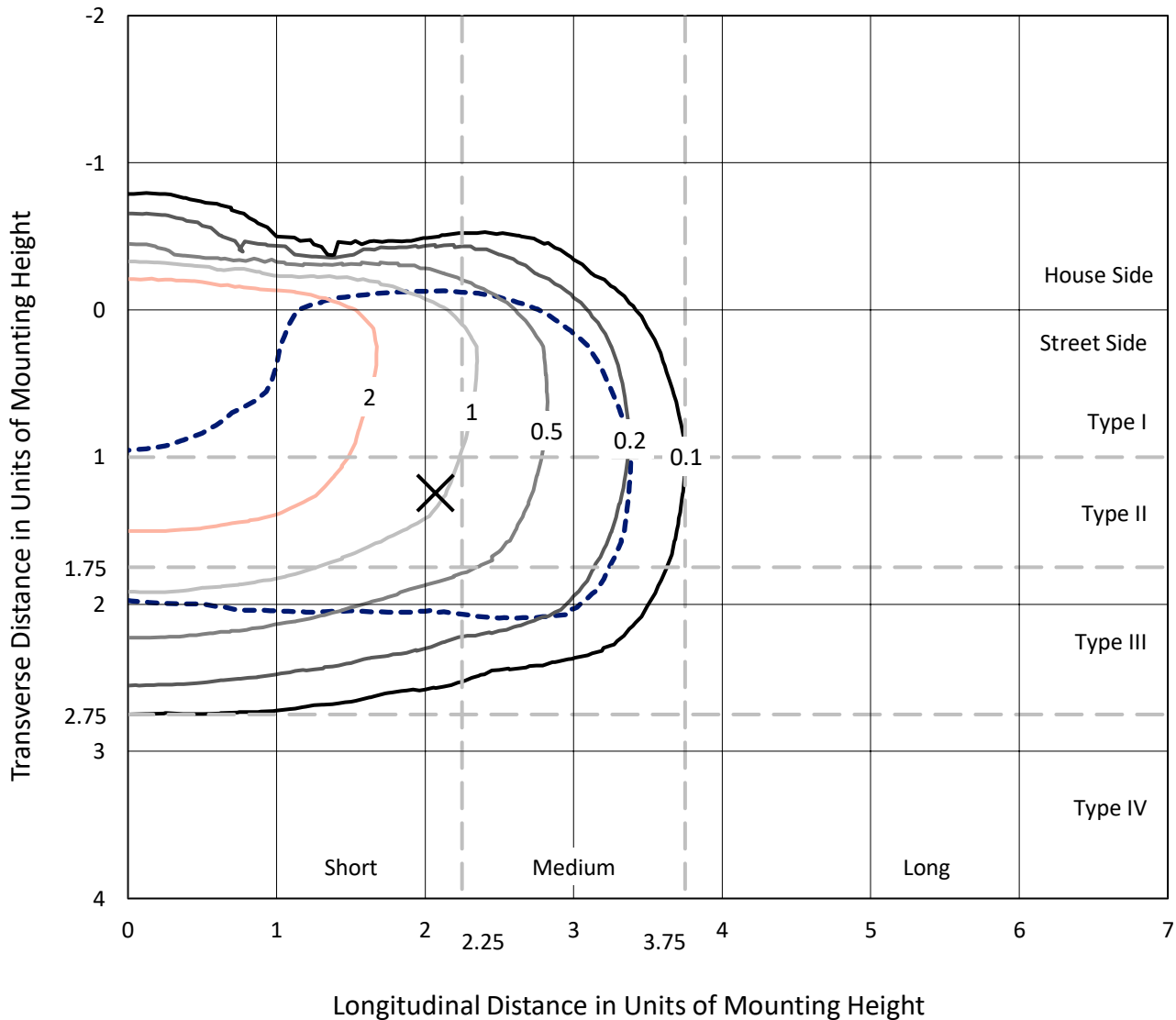
Lumens per Lamp: N/A
Luminaire Lumens: 10093.8 lumens
Efficiency: N/A
Efficacy: 78.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 128.6
Input Voltage (V): 120
Input Current (A_{in}): 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

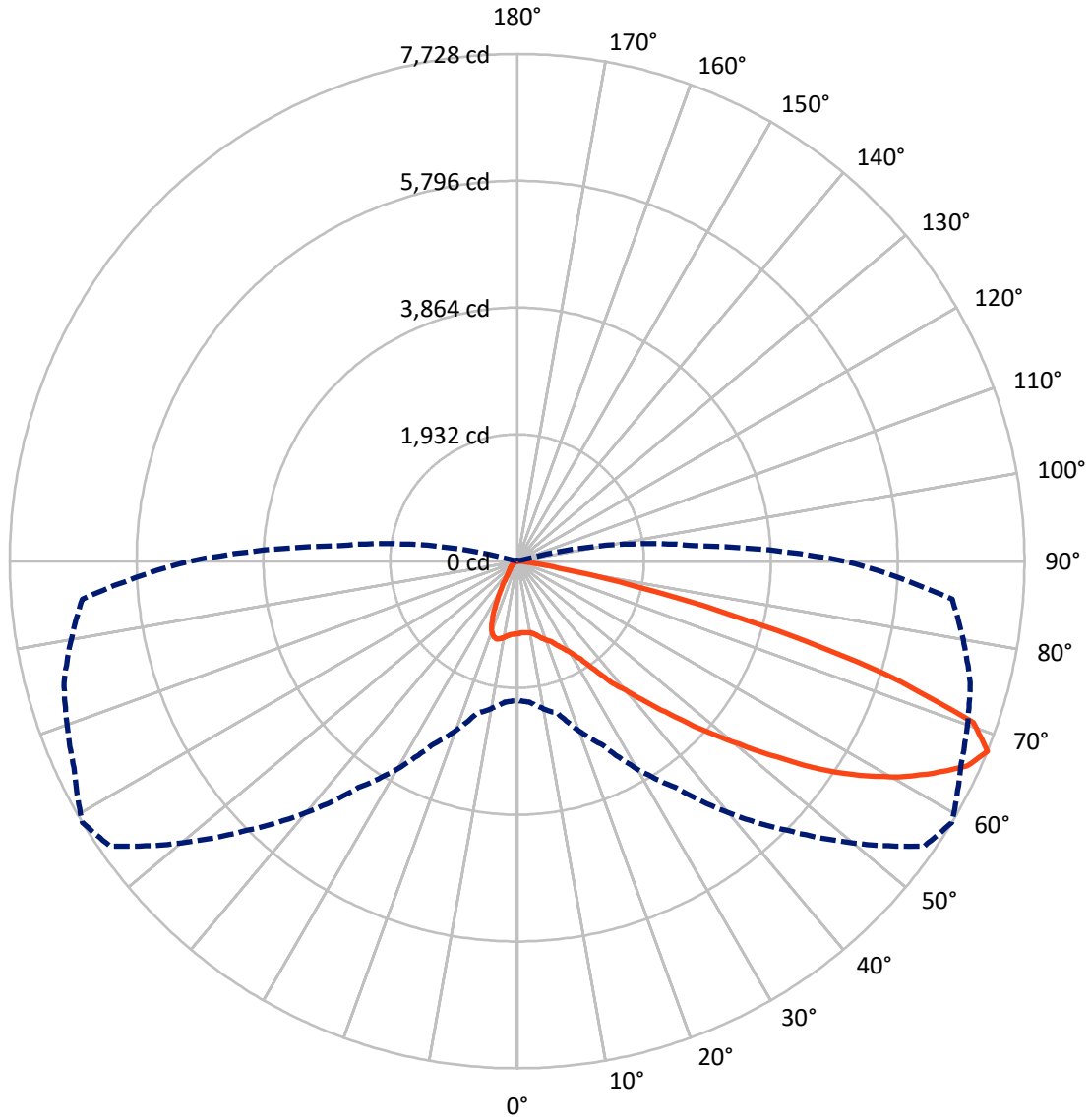
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.9 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	1185.7	0.0	1185.7
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	8908.1	0.0	8908.1
	% Fixture	88.3	0.0	88.3
Total	Lumens	10093.8	0.0	10093.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.2	1.0
10°-20°	303.8	3.0
20°-30°	530.9	5.3
30°-40°	934.8	9.3
40°-50°	1652.4	16.4
50°-60°	2616.3	25.9
60°-70°	2902.1	28.8
70°-80°	1007.0	10.0
80°-90°	41.5	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°	10093.8	100.0
0°-180°	10093.8	100.0

Coefficient of Utilization

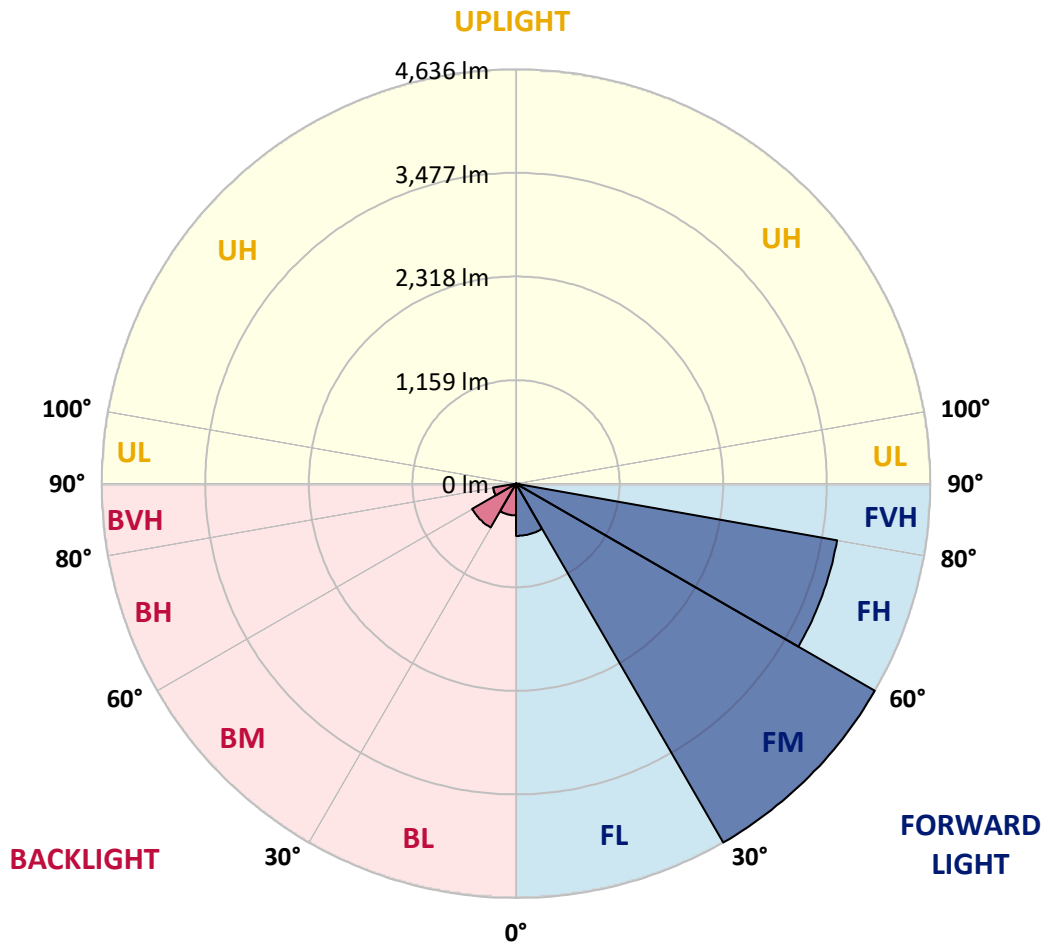


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	584.5	5.8			
FM (30°-60°)	4636.5	45.9			
FH (60°-80°)	3648.4	36.1			G2/5000
FVH (80°-90°)	38.8	0.4			G1/100
BL (0°-30°)	355.4	3.5	B1/500		
BM (30°-60°)	566.9	5.6	B1/1000		
BH (60°-80°)	260.8	2.6	B1/500		G1/500
BVH (80°-90°)	2.7	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°	1107.1	1107.1	1107.1	1107.1	1107.1	1107.1	1107.1	1107.1	1107.1	1107.1	1107.1
2.5°	1075.0	1059.7	1073.6	1075.0	1076.4	1089.0	1102.9	1093.2	1091.8	1102.9	1112.7
5°	1031.8	1024.8	1041.6	1049.9	1063.9	1075.0	1097.3	1098.7	1100.1	1112.7	1129.4
7.5°	1013.7	997.0	1016.5	1026.2	1036.0	1062.5	1089.0	1102.9	1122.4	1137.8	1154.5
10°	977.4	990.0	995.6	1012.3	1040.2	1070.9	1102.9	1109.9	1153.1	1165.7	1206.1
12.5°	990.0	998.4	1009.5	1013.7	1044.4	1090.4	1133.6	1136.4	1181.0	1235.4	1256.3
15°	1022.1	1016.5	1020.7	1026.2	1062.5	1100.1	1169.9	1182.4	1224.2	1285.6	1337.2
17.5°	1090.4	1080.6	1073.6	1072.3	1080.6	1115.5	1197.7	1235.4	1274.4	1358.1	1384.6
20°	1261.9	1253.5	1225.6	1153.1	1128.0	1142.0	1231.2	1284.2	1338.6	1432.0	1475.2
22.5°	1522.6	1531.0	1465.5	1363.7	1259.1	1204.7	1284.2	1330.2	1416.7	1535.2	1574.2
25°	1830.8	1814.0	1734.6	1616.0	1451.5	1323.2	1369.2	1420.8	1526.8	1624.4	1639.7
27.5°	2072.0	2052.5	1991.1	1847.5	1705.3	1497.5	1480.8	1512.9	1638.4	1726.2	1709.5
30°	2310.4	2317.4	2275.6	2105.5	1929.8	1710.9	1604.9	1618.8	1715.0	1828.0	1790.3
32.5°	2614.4	2597.7	2574.0	2424.8	2217.0	1982.8	1801.5	1779.2	1821.0	1970.2	1925.6
35°	2897.4	2887.7	2855.6	2705.0	2523.8	2268.6	2091.5	2041.3	2031.6	2197.5	2119.4
37.5°	3144.2	3127.5	3078.7	2982.5	2806.8	2592.1	2398.3	2353.7	2352.3	2466.6	2316.0
40°	3352.0	3364.6	3359.0	3253.0	3156.8	2985.3	2688.3	2617.2	2611.6	2673.0	2585.1
42.5°	3621.1	3650.4	3635.1	3614.1	3498.4	3431.5	3095.4	2986.7	2937.9	3063.4	2983.9
45°	4028.3	4039.4	4049.2	3997.6	3881.9	3895.8	3516.5	3386.9	3374.3	3561.2	3382.7
47.5°	4408.9	4379.6	4448.0	4450.7	4445.2	4381.0	3971.1	3874.9	3891.6	4033.8	3849.8
50°	4503.7	4579.0	4767.3	4802.1	4892.8	4951.3	4475.8	4379.6	4407.5	4569.3	4358.7
52.5°	4577.6	4692.0	4880.2	5135.4	5379.4	5518.8	5040.6	4962.5	4961.1	5060.1	4770.0
55°	4707.3	4777.0	4940.2	5291.5	5755.9	5984.5	5721.0	5595.5	5482.6	5552.3	5196.7
57.5°	4694.8	4721.2	4975.0	5408.7	6054.2	6469.8	6280.1	6160.2	6015.2	5974.8	5687.5
60°	4474.4	4537.2	4821.6	5329.2	6238.3	6847.6	6801.6	6678.9	6429.3	6334.5	6064.0
62.5°	4038.0	4121.7	4344.8	5050.3	5970.6	6867.1	7161.3	7115.3	6836.5	6666.4	6554.8
65°	3272.5	3311.6	3568.1	4342.0	5365.4	6567.4	7586.6	7529.5	7272.9	7019.1	6807.2
67.5°	2119.4	2157.0	2403.8	3099.6	4213.7	5793.5	7569.9	7727.5	7450.0	7144.6	6649.6
70°	1001.1	991.4	1221.4	1722.0	2699.4	4424.3	7058.2	7369.1	7133.5	6476.7	5523.0
72.5°	305.4	331.9	507.5	762.7	1386.0	2759.4	5532.8	5824.2	5750.3	5174.4	3686.6
75°	135.3	146.4	199.4	312.3	561.9	1132.2	3417.5	3676.9	3644.8	3052.2	1683.0
77.5°	86.4	94.8	125.5	178.5	255.2	359.7	1574.2	1826.6	1770.8	1072.3	440.6
80°	61.4	65.5	89.2	122.7	160.3	147.8	542.4	644.2	617.7	291.4	118.5
82.5°	33.5	36.3	65.5	90.6	107.4	75.3	152.0	189.6	198.0	129.7	57.2
85°	12.5	15.3	40.4	64.1	55.8	34.9	44.6	54.4	71.1	71.1	26.5
87.5°	0.0	1.4	16.7	27.9	13.9	9.8	12.5	15.3	19.5	33.5	9.8
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°	1107.1	1107.1	1107.1	1107.1	1107.1	1107.1	1107.1	1107.1	1107.1	1107.1	1107.1
2.5°	1119.7	1109.9	1114.1	1121.1	1105.7	1114.1	1097.3	1109.9	1114.1	1097.3	1105.7
5°	1133.6	1143.4	1137.8	1126.6	1116.9	1119.7	1115.5	1105.7	1114.1	1116.9	1111.3
7.5°	1174.0	1162.9	1165.7	1153.1	1133.6	1132.2	1105.7	1098.7	1101.5	1104.3	1094.6
10°	1211.7	1218.7	1204.7	1195.0	1162.9	1142.0	1105.7	1066.7	1062.5	1045.8	1059.7
12.5°	1278.6	1261.9	1256.3	1224.2	1192.2	1122.4	1044.4	984.4	934.2	916.1	898.0
15°	1334.4	1331.6	1321.8	1273.0	1199.1	1072.3	924.4	785.0	688.8	628.8	620.5
17.5°	1411.1	1398.5	1380.4	1303.7	1147.5	941.2	688.8	513.1	416.9	379.3	365.3
20°	1469.6	1459.9	1434.8	1296.7	1054.1	701.4	426.7	326.3	302.6	295.6	297.0
22.5°	1554.7	1524.0	1476.6	1261.9	884.0	467.1	306.8	291.4	287.2	281.7	283.1
25°	1628.6	1600.7	1501.7	1201.9	630.2	309.5	284.4	276.1	269.1	262.1	260.7
27.5°	1694.1	1659.3	1528.2	1079.2	394.6	266.3	263.5	253.8	239.8	228.7	224.5
30°	1758.3	1717.8	1535.2	849.2	266.3	241.2	234.2	218.9	200.8	185.4	182.7
32.5°	1865.6	1816.8	1525.4	606.5	230.1	214.7	199.4	181.3	154.8	142.2	139.4
35°	2033.0	1959.1	1512.9	357.0	206.4	189.6	165.9	142.2	122.7	110.2	107.4
37.5°	2225.4	2097.1	1476.6	238.4	189.6	167.3	136.6	112.9	96.2	86.4	83.7
40°	2511.2	2299.3	1337.2	195.2	168.7	142.2	110.2	89.2	76.7	69.7	66.9
42.5°	2826.3	2530.7	1122.4	175.7	149.2	121.3	87.8	72.5	62.7	55.8	55.8
45°	3204.2	2772.0	865.9	160.3	132.5	100.4	72.5	58.6	50.2	44.6	41.8
47.5°	3625.3	2990.9	584.2	145.0	111.5	82.3	60.0	44.6	36.3	32.1	32.1
50°	4001.8	3184.7	372.3	126.9	97.6	68.3	48.8	36.3	29.3	23.7	22.3
52.5°	4343.4	3332.5	256.6	111.5	83.7	55.8	40.4	29.3	22.3	18.1	18.1
55°	4693.4	3407.8	189.6	96.2	72.5	47.4	33.5	26.5	19.5	15.3	13.9
57.5°	4980.6	3439.8	145.0	83.7	61.4	37.6	29.3	22.3	16.7	12.5	11.2
60°	5226.0	3424.5	112.9	69.7	48.8	32.1	25.1	18.1	13.9	9.8	8.4
62.5°	5369.6	3332.5	89.2	60.0	39.0	27.9	20.9	15.3	9.8	7.0	5.6
65°	5372.4	3137.3	69.7	44.6	29.3	23.7	18.1	12.5	7.0	2.8	1.4
67.5°	4987.6	2714.8	55.8	34.9	23.7	18.1	13.9	9.8	2.8	0.0	0.0
70°	3901.4	2053.9	46.0	27.9	19.5	15.3	9.8	5.6	1.4	0.0	0.0
72.5°	2486.1	1229.8	37.6	22.3	16.7	11.2	7.0	4.2	0.0	0.0	0.0
75°	1040.2	379.3	29.3	19.5	12.5	8.4	5.6	1.4	0.0	0.0	0.0
77.5°	267.7	119.9	23.7	16.7	12.5	7.0	4.2	1.4	0.0	0.0	0.0
80°	79.5	44.6	19.5	13.9	9.8	5.6	2.8	1.4	0.0	0.0	0.0
82.5°	36.3	26.5	16.7	12.5	8.4	5.6	2.8	0.0	0.0	0.0	0.0
85°	13.9	8.4	8.4	7.0	7.0	4.2	1.4	0.0	0.0	0.0	0.0
87.5°	5.6	2.8	2.8	2.8	1.4	1.4	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)