

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: P482404

Luminaire Tested: **IFLD-S-SA2C-735-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482404
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-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

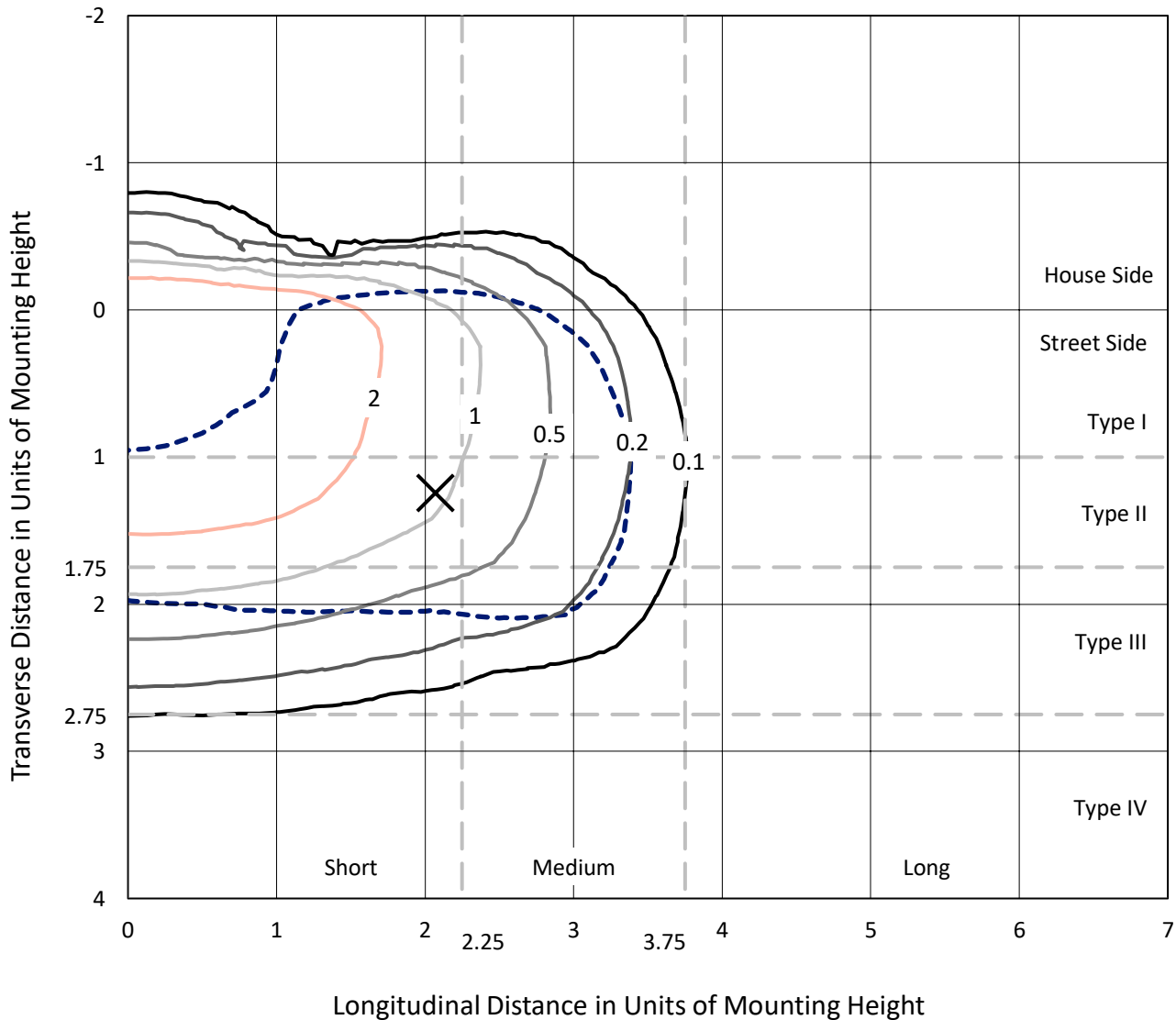
Lumens per Lamp: N/A
Luminaire Lumens: 10402.2 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 108.2
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

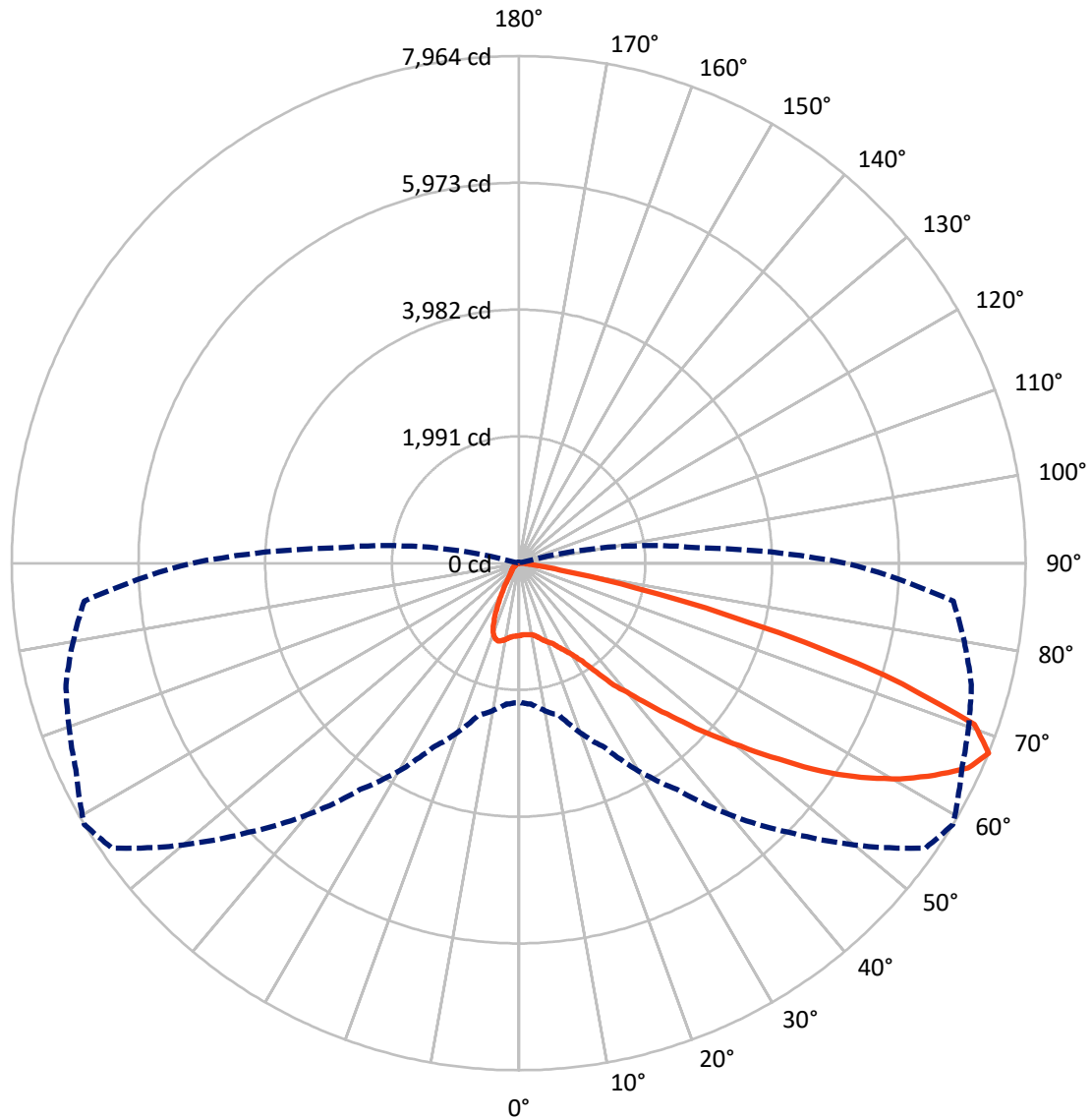
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.1 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	1221.9	0.0	1221.9
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	9180.3	0.0	9180.3
	% Fixture	88.3	0.0	88.3
Total	Lumens	10402.2	0.0	10402.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.4	1.0
10°-20°	313.1	3.0
20°-30°	547.1	5.3
30°-40°	963.3	9.3
40°-50°	1702.8	16.4
50°-60°	2696.2	25.9
60°-70°	2990.8	28.8
70°-80°	1037.7	10.0
80°-90°	42.7	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°	10402.2	100.0
0°-180°	10402.2	100.0

Coefficient of Utilization

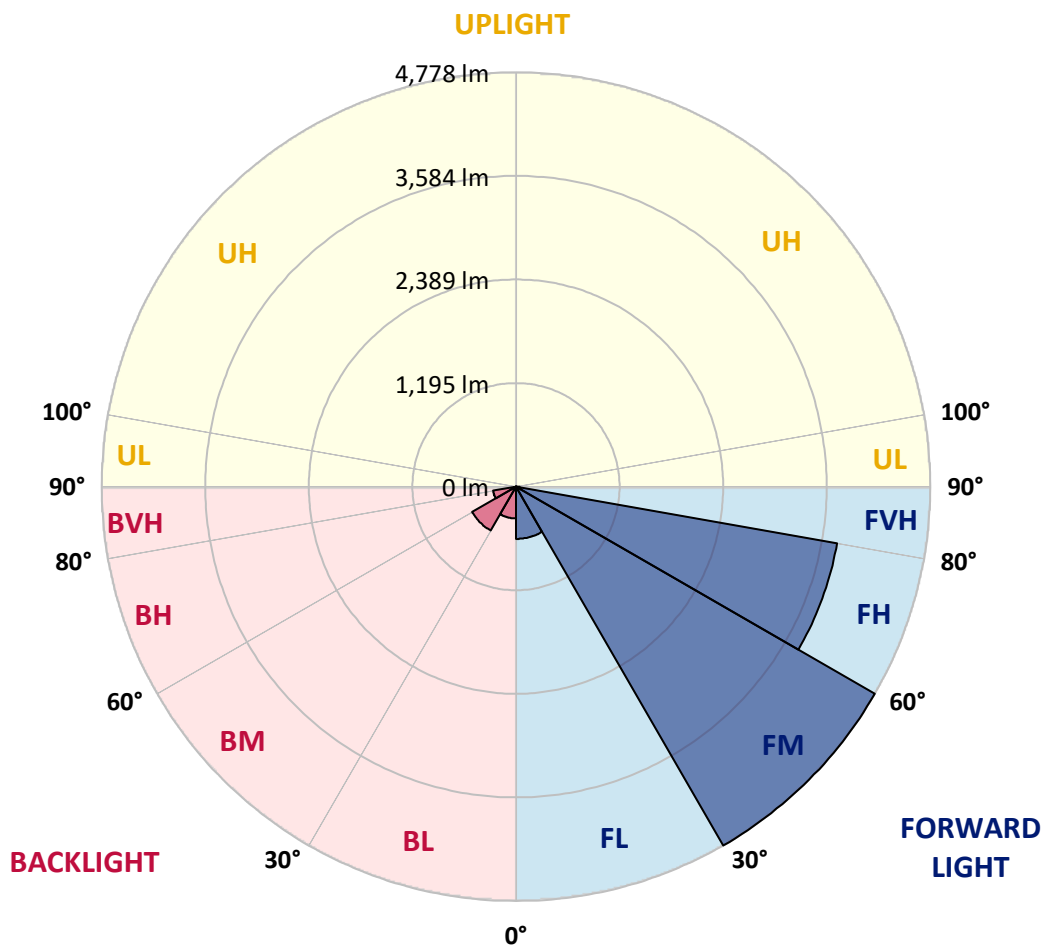


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	602.4	5.8			
FM (30°-60°)	4778.1	45.9			
FH (60°-80°)	3759.8	36.1			G2/5000
FVH (80°-90°)	40.0	0.4			G1/100
BL (0°-30°)	366.2	3.5	B1/500		
BM (30°-60°)	584.2	5.6	B1/1000		
BH (60°-80°)	268.7	2.6	B1/500		G1/500
BVH (80°-90°)	2.8	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°	1140.9	1140.9	1140.9	1140.9	1140.9	1140.9	1140.9	1140.9	1140.9	1140.9	1140.9
2.5°	1107.9	1092.1	1106.4	1107.9	1109.3	1122.3	1136.6	1126.6	1125.1	1136.6	1146.7
5°	1063.3	1056.2	1073.4	1082.0	1096.4	1107.9	1130.9	1132.3	1133.7	1146.7	1163.9
7.5°	1044.7	1027.4	1047.5	1057.6	1067.7	1095.0	1122.3	1136.6	1156.7	1172.5	1189.8
10°	1007.3	1020.2	1026.0	1043.2	1072.0	1103.6	1136.6	1143.8	1188.4	1201.3	1243.0
12.5°	1020.2	1028.9	1040.3	1044.7	1076.3	1123.7	1168.2	1171.1	1217.1	1273.1	1294.7
15°	1053.3	1047.5	1051.8	1057.6	1095.0	1133.7	1205.6	1218.5	1261.6	1324.9	1378.0
17.5°	1123.7	1113.6	1106.4	1105.0	1113.6	1149.6	1234.3	1273.1	1313.4	1399.6	1426.9
20°	1300.4	1291.8	1263.1	1188.4	1162.5	1176.9	1268.8	1323.4	1379.5	1475.7	1520.3
22.5°	1569.1	1577.8	1510.2	1405.3	1297.6	1241.5	1323.4	1370.8	1459.9	1582.1	1622.3
25°	1886.7	1869.5	1787.6	1665.4	1495.9	1363.7	1411.1	1464.2	1573.5	1674.0	1689.8
27.5°	2135.3	2115.2	2052.0	1904.0	1757.4	1543.3	1526.0	1559.1	1688.4	1778.9	1761.7
30°	2381.0	2388.2	2345.1	2169.8	1988.7	1763.1	1653.9	1668.3	1767.4	1883.8	1845.0
32.5°	2694.3	2677.0	2652.6	2498.8	2284.7	2043.3	1856.5	1833.5	1876.7	2030.4	1984.4
35°	2986.0	2975.9	2942.9	2787.7	2600.9	2337.9	2155.4	2103.7	2093.6	2264.6	2184.2
37.5°	3240.3	3223.1	3172.8	3073.6	2892.6	2671.3	2471.5	2425.6	2424.1	2542.0	2386.8
40°	3454.4	3467.3	3461.6	3352.4	3253.2	3076.5	2770.4	2697.1	2691.4	2754.6	2664.1
42.5°	3731.7	3761.9	3746.1	3724.6	3605.3	3536.3	3190.0	3077.9	3027.6	3157.0	3075.1
45°	4151.3	4162.8	4172.9	4119.7	4000.5	4014.8	3624.0	3490.3	3477.4	3670.0	3486.0
47.5°	4543.6	4513.4	4583.9	4586.7	4581.0	4514.9	4092.4	3993.3	4010.5	4157.1	3967.4
50°	4641.3	4718.9	4912.9	4948.8	5042.2	5102.6	4612.6	4513.4	4542.2	4708.9	4491.9
52.5°	4717.5	4835.3	5029.3	5292.3	5543.7	5687.4	5194.6	5114.1	5112.7	5214.7	4915.8
55°	4851.1	4923.0	5091.1	5453.2	5931.7	6167.4	5895.8	5766.5	5650.1	5721.9	5355.5
57.5°	4838.2	4865.5	5127.0	5573.9	6239.2	6667.4	6472.0	6348.4	6199.0	6157.3	5861.3
60°	4611.2	4675.8	4969.0	5492.0	6428.9	7056.8	7009.4	6883.0	6625.8	6528.0	6249.3
62.5°	4161.4	4247.6	4477.5	5204.6	6153.0	7077.0	7380.1	7332.7	7045.3	6870.0	6755.1
65°	3372.5	3412.7	3677.1	4474.6	5529.4	6768.0	7818.4	7759.5	7495.1	7233.6	7015.2
67.5°	2184.2	2223.0	2477.3	3194.3	4342.4	5970.5	7801.2	7963.5	7677.6	7362.9	6852.8
70°	1031.7	1021.7	1258.8	1774.6	2781.9	4559.4	7273.8	7594.3	7351.4	6674.6	5691.7
72.5°	314.7	342.0	523.0	786.0	1428.3	2843.7	5701.8	6002.1	5926.0	5332.5	3799.3
75°	139.4	150.9	205.5	321.9	579.1	1166.8	3522.0	3789.2	3756.2	3145.5	1734.4
77.5°	89.1	97.7	129.3	183.9	263.0	370.7	1622.3	1882.4	1824.9	1105.0	454.1
80°	63.2	67.5	92.0	126.5	165.2	152.3	559.0	663.9	636.6	300.3	122.1
82.5°	34.5	37.4	67.5	93.4	110.6	77.6	156.6	195.4	204.0	133.6	58.9
85°	12.9	15.8	41.7	66.1	57.5	35.9	46.0	56.0	73.3	73.3	27.3
87.5°	0.0	1.4	17.2	28.7	14.4	10.1	12.9	15.8	20.1	34.5	10.1
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°	1140.9	1140.9	1140.9	1140.9	1140.9	1140.9	1140.9	1140.9	1140.9	1140.9	1140.9
2.5°	1153.9	1143.8	1148.1	1155.3	1139.5	1148.1	1130.9	1143.8	1148.1	1130.9	1139.5
5°	1168.2	1178.3	1172.5	1161.1	1151.0	1153.9	1149.6	1139.5	1148.1	1151.0	1145.2
7.5°	1209.9	1198.4	1201.3	1188.4	1168.2	1166.8	1139.5	1132.3	1135.2	1138.1	1128.0
10°	1248.7	1255.9	1241.5	1231.5	1198.4	1176.9	1139.5	1099.3	1095.0	1077.7	1092.1
12.5°	1317.7	1300.4	1294.7	1261.6	1228.6	1156.7	1076.3	1014.5	962.8	944.1	925.4
15°	1375.2	1372.3	1362.2	1311.9	1235.8	1105.0	952.7	809.0	709.9	648.1	639.4
17.5°	1454.2	1441.3	1422.6	1343.5	1182.6	969.9	709.9	528.8	429.6	390.8	376.5
20°	1514.5	1504.5	1478.6	1336.4	1086.3	722.8	439.7	336.2	311.8	304.6	306.1
22.5°	1602.2	1570.6	1521.7	1300.4	911.0	481.4	316.1	300.3	296.0	290.3	291.7
25°	1678.4	1649.6	1547.6	1238.6	649.5	319.0	293.1	284.5	277.3	270.1	268.7
27.5°	1745.9	1710.0	1574.9	1112.2	406.7	274.5	271.6	261.5	247.2	235.7	231.3
30°	1812.0	1770.3	1582.1	875.1	274.5	248.6	241.4	225.6	206.9	191.1	188.2
32.5°	1922.6	1872.3	1572.0	625.1	237.1	221.3	205.5	186.8	159.5	146.6	143.7
35°	2095.1	2018.9	1559.1	367.9	212.7	195.4	171.0	146.6	126.5	113.5	110.6
37.5°	2293.4	2161.2	1521.7	245.7	195.4	172.4	140.8	116.4	99.1	89.1	86.2
40°	2587.9	2369.5	1378.0	201.2	173.9	146.6	113.5	92.0	79.0	71.8	69.0
42.5°	2912.7	2608.1	1156.7	181.1	153.8	125.0	90.5	74.7	64.7	57.5	57.5
45°	3302.1	2856.6	892.3	165.2	136.5	103.5	74.7	60.4	51.7	46.0	43.1
47.5°	3736.1	3082.2	602.1	149.4	115.0	84.8	61.8	46.0	37.4	33.0	33.0
50°	4124.0	3282.0	383.7	130.8	100.6	70.4	50.3	37.4	30.2	24.4	23.0
52.5°	4476.1	3434.3	264.4	115.0	86.2	57.5	41.7	30.2	23.0	18.7	18.7
55°	4836.8	3511.9	195.4	99.1	74.7	48.9	34.5	27.3	20.1	15.8	14.4
57.5°	5132.8	3544.9	149.4	86.2	63.2	38.8	30.2	23.0	17.2	12.9	11.5
60°	5385.7	3529.1	116.4	71.8	50.3	33.0	25.9	18.7	14.4	10.1	8.6
62.5°	5533.7	3434.3	92.0	61.8	40.2	28.7	21.6	15.8	10.1	7.2	5.7
65°	5536.5	3233.1	71.8	46.0	30.2	24.4	18.7	12.9	7.2	2.9	1.4
67.5°	5140.0	2797.7	57.5	35.9	24.4	18.7	14.4	10.1	2.9	0.0	0.0
70°	4020.6	2116.6	47.4	28.7	20.1	15.8	10.1	5.7	1.4	0.0	0.0
72.5°	2562.1	1267.4	38.8	23.0	17.2	11.5	7.2	4.3	0.0	0.0	0.0
75°	1072.0	390.8	30.2	20.1	12.9	8.6	5.7	1.4	0.0	0.0	0.0
77.5°	275.9	123.6	24.4	17.2	12.9	7.2	4.3	1.4	0.0	0.0	0.0
80°	81.9	46.0	20.1	14.4	10.1	5.7	2.9	1.4	0.0	0.0	0.0
82.5°	37.4	27.3	17.2	12.9	8.6	5.7	2.9	0.0	0.0	0.0	0.0
85°	14.4	8.6	8.6	7.2	7.2	4.3	1.4	0.0	0.0	0.0	0.0
87.5°	5.7	2.9	2.9	2.9	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)